Mark Morris, P.E.

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The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 27092
JOB: 20-4569-R01
JOB NAME: LOT 1114 ANDERSON CREEK
Wind Code: 37
Wind Speed: Vult= 130mph
Exposure Category: B
Mean Roof Height (feet): 23

35 Truss Design(s)

Trusses:

J06, M01, M02, PB01, PB02, PB03, PB04, PB05, PB06, R01, R02, R03, R04, R05, R06, R07, R08, R09, R12, R13, R14, R15, R18, R19, R21, R22, R23, R24, VT01, VT02, VT03, VT04, VT05, VT06, VT07

6/21/2021
Mark Morris

Warning !—Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for*

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	J06	Monopitch	4	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:04 2021 Page 1
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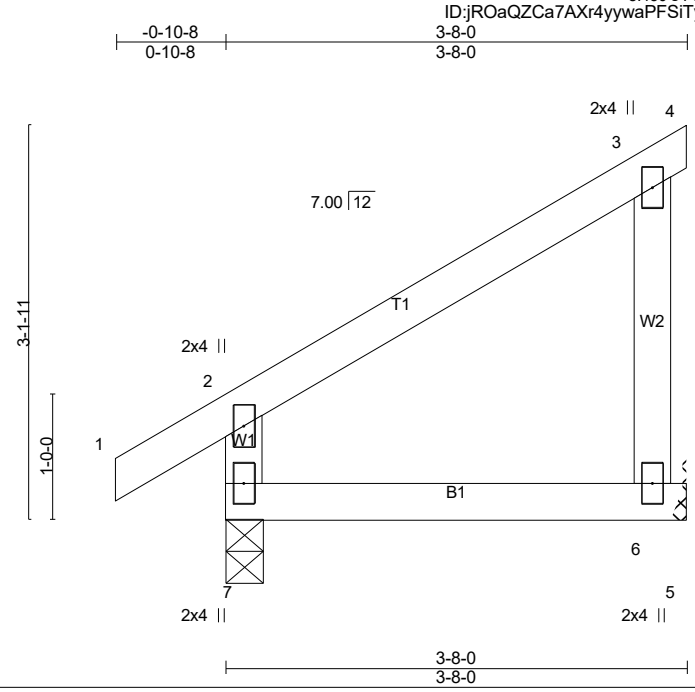


LOADING (psf)

TCLL (roof)	20.0
Snow (Pf)	20.0
TCDL	10.0
BCLL	0.0 *
BCDL	10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IRC2018/TPI2014

CSI.

TC	0.23
BC	0.13
WB	0.00
Matrix-R	

DEFL.

	in	(loc)	l/defl	L/d
Vert(LL)	0.01	6-7	>999	240
Vert(CT)	-0.01	6-7	>999	180
Horz(CT)	-0.00	6	n/a	n/a

PLATES MT20 **GRIP** 244/190

Weight: 18 lb FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

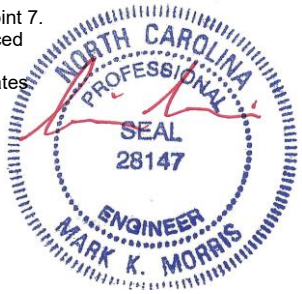
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=143/Mechanical, 7=200/0-3-8 (min. 0-1-8)
Max Horz 7=91(LC 14)
Max Uplift6=-68(LC 14), 7=-7(LC 14)
Max Grav 6=203(LC 21), 7=297(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-272/115

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(2E) zone; porch left 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 68 lb uplift at joint 6 and 7 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) 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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	M01	Monopitch	2	1	Job Reference (optional) **# 27092**

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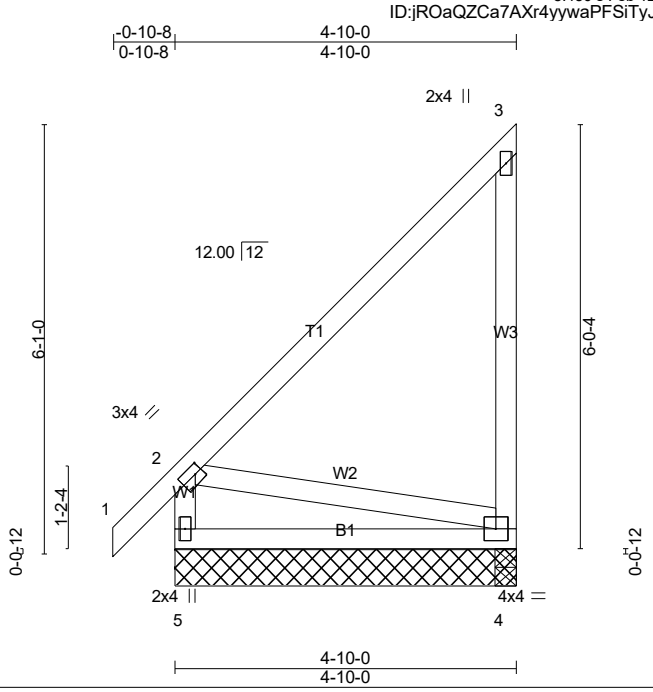


Plate Offsets (X,Y)-- [2:0-1-4,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 35 lb	FT = 0%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-14 oc bracing.

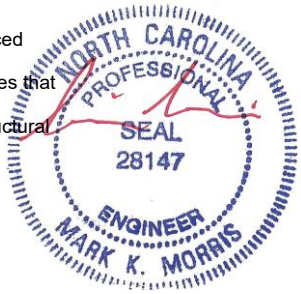
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=175/4-10-0 (min. 0-1-8), 4=175/4-10-0 (min. 0-1-8), 5=250/4-10-0 (min. 0-1-8)
Max Horz 5=182(LC 12)
Max Uplift4=-152(LC 12)
Max Grav 4=209(LC 20), 4=175(LC 1), 5=250(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-361/131
WEBS 2-4=-134/369

NOTES- (8-9)
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(2E) zone; end vertical left 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) 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.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 4.
7) 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.
8) 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.
9) 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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	M02	Monopitch	11	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:06 2021 Page 1
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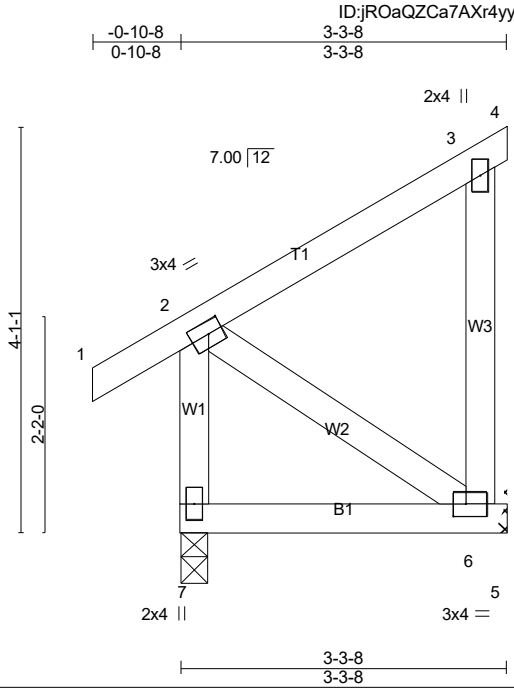


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [6:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 24 lb	FT = 0%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

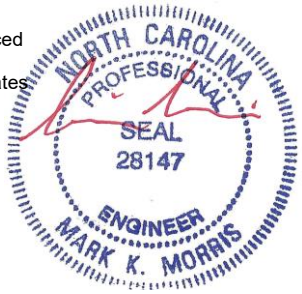
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=127/Mechanical, 7=186/0-3-8 (min. 0-1-8)
Max Horz 7=82(LC 11)
Max Uplift6=-89(LC 14)
Max Grav 6=178(LC 21), 7=273(LC 21)

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(2E) zone; end vertical left 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 89 lb uplift at joint 6.
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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	PB01	GABLE	2	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:06 2021 Page 1
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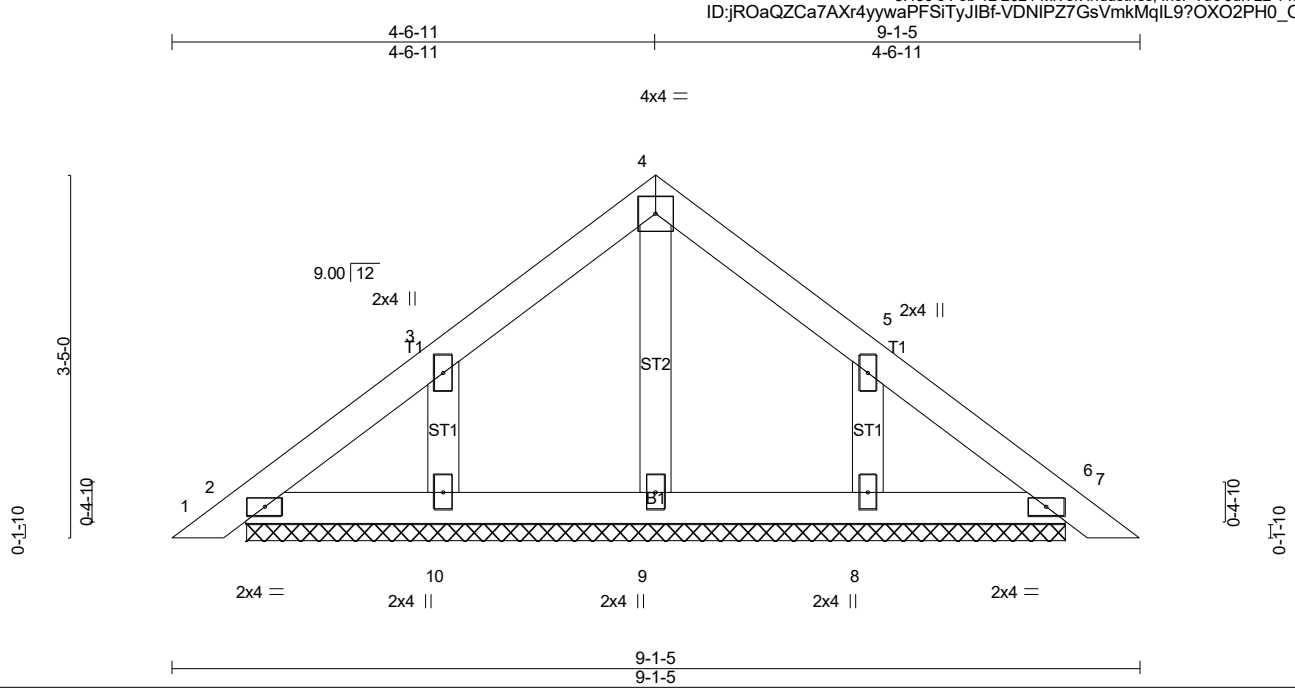


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	6	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	6	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 36 lb	FT = 0%
BCDL	10.0											

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

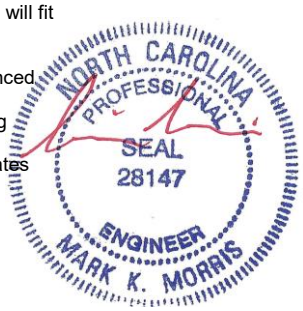
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 7-8-11.
(lb) - Max Horz 2=-74(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

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 and C-C Exterior(2E) zone;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) 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) 2, 6, 10, 8.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	PB02	Piggyback	21	1	Job Reference (optional) **# 27092**

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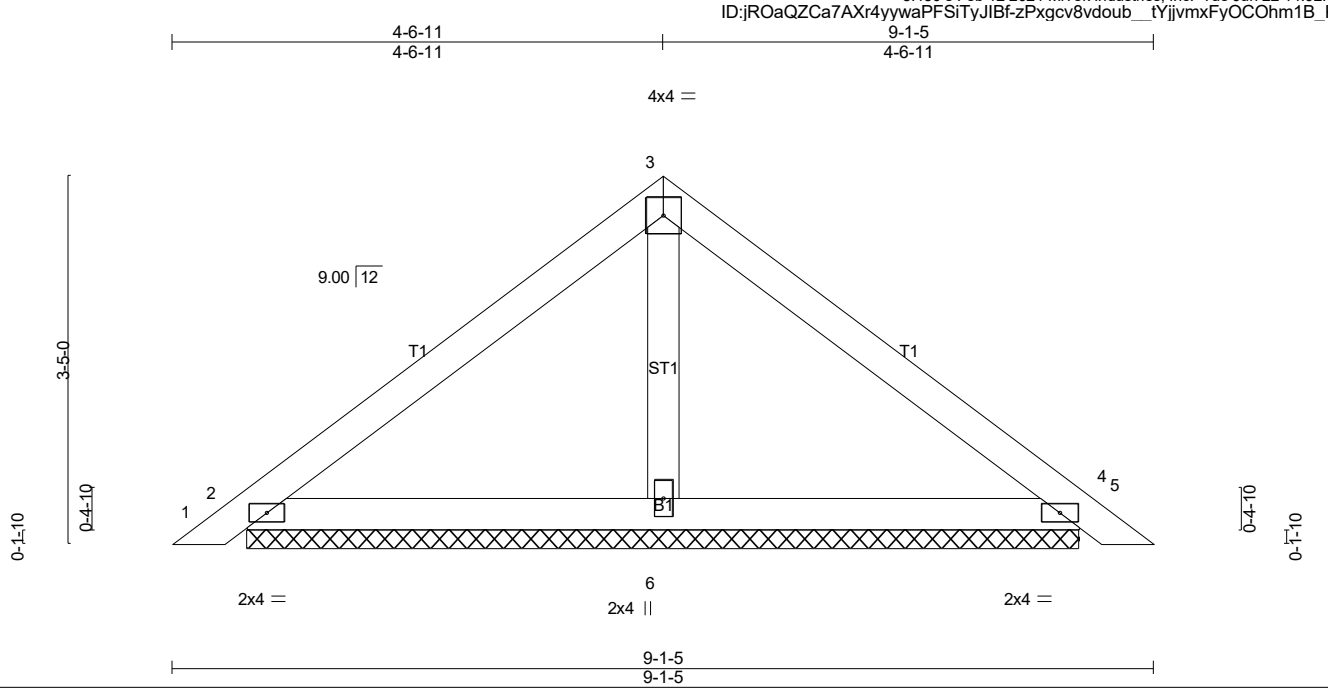


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.01	5	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	0.01	5	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 32 lb	FT = 0%
BCDL	10.0											

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.

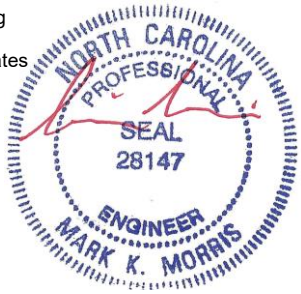
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=200/7-8-11 (min. 0-1-8), 4=200/7-8-11 (min. 0-1-8), 6=271/7-8-11 (min. 0-1-8)
Max Horz 2=-74(LC 10)
Max Uplift2=-50(LC 12), 4=-60(LC 13)

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

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(2E) 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=1.15 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 100 lb uplift at joint(s) 2, 4.
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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	PB03	GABLE	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:08 2021 Page 1
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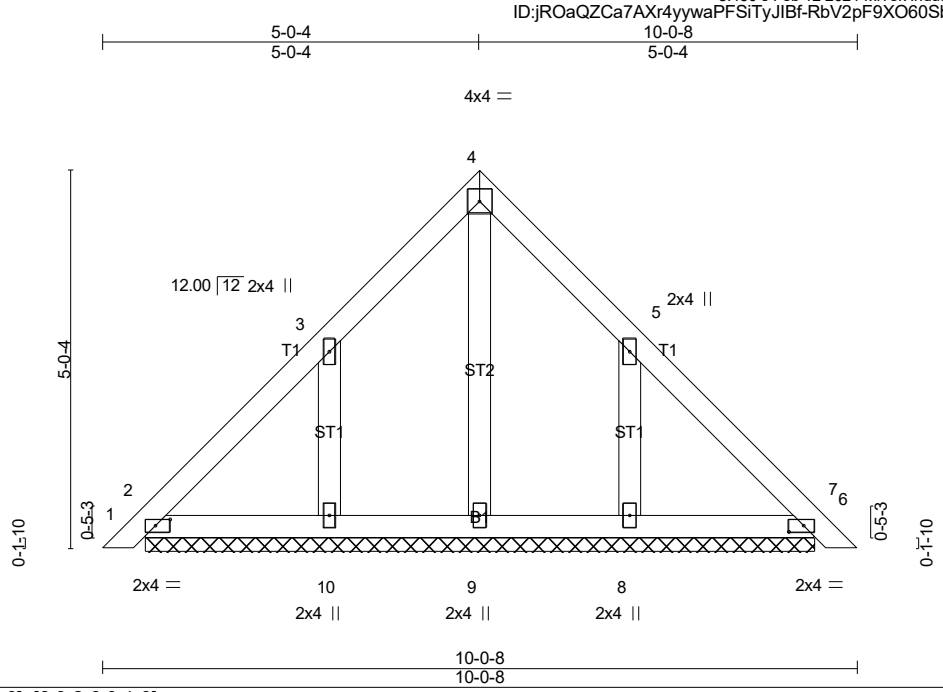


Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [6:0-2-6,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	7	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	7	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 47 lb	FT = 0%
BCDL	10.0											

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

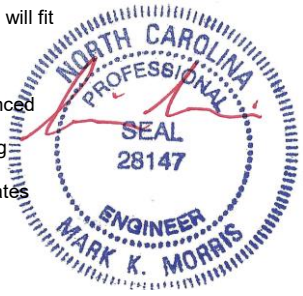
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 8-10-14.
(lb) - Max Horz 2=-110(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=-147(LC 12), 8=-146(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

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 and C-C Exterior(2E) zone;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) 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) 2 except (jt=lb) 10=147, 8=146.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	PB04	Piggyback	1	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:08 2021 Page 1
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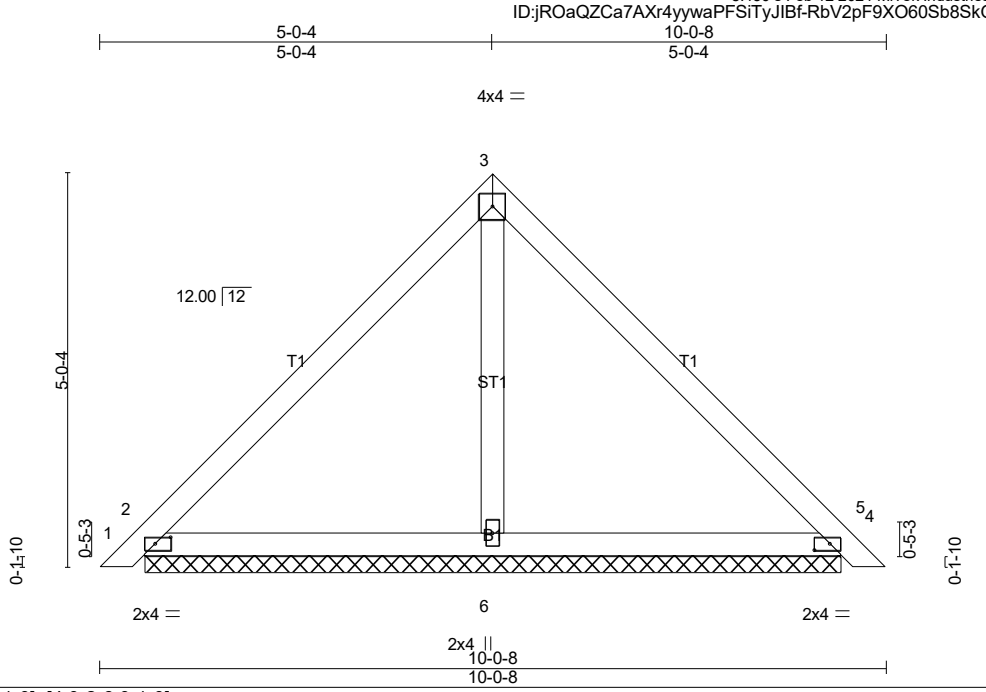

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.01	5	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	0.02	5	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 41 lb	FT = 0%
BCDL	10.0											

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) 2=238/8-10-14 (min. 0-1-8), 4=238/8-10-14 (min. 0-1-8), 6=281/8-10-14 (min. 0-1-8)
Max Horz 2=110(LC 11)
Max Uplift2=-59(LC 13), 4=-64(LC 13)

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

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(2E) 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=1.15 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 100 lb uplift at joint(s) 2, 4.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	PB05	Piggyback	1	2	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:09 2021 Page 1
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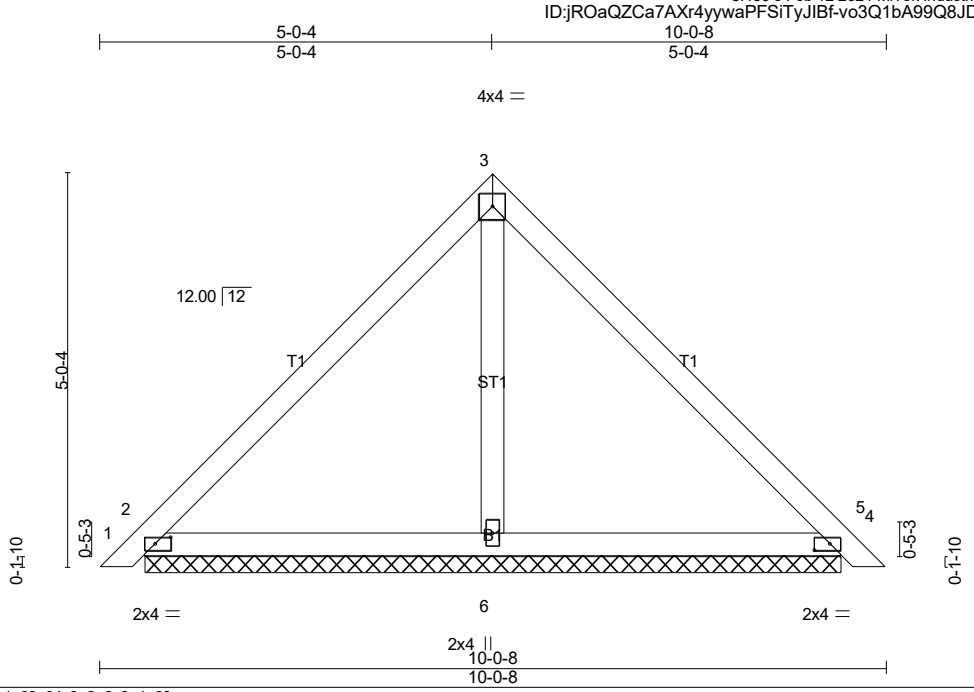

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.01	5	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	0.01	5	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										Weight: 81 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.

REACTIONS. (lb/size) 2=238/8-10-14 (min. 0-1-8), 4=238/8-10-14 (min. 0-1-8), 6=281/8-10-14 (min. 0-1-8)
Max Horz 2=110(LC 11)
Max Uplift2=-59(LC 13), 4=-64(LC 13)

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

NOTES- (13-14)
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(2E) zone;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) 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) Gable requires continuous bottom chord bearing.
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) 2, 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	PB06	Piggyback	1	2	Job Reference (optional) # 27092

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:10 2021 Page 1
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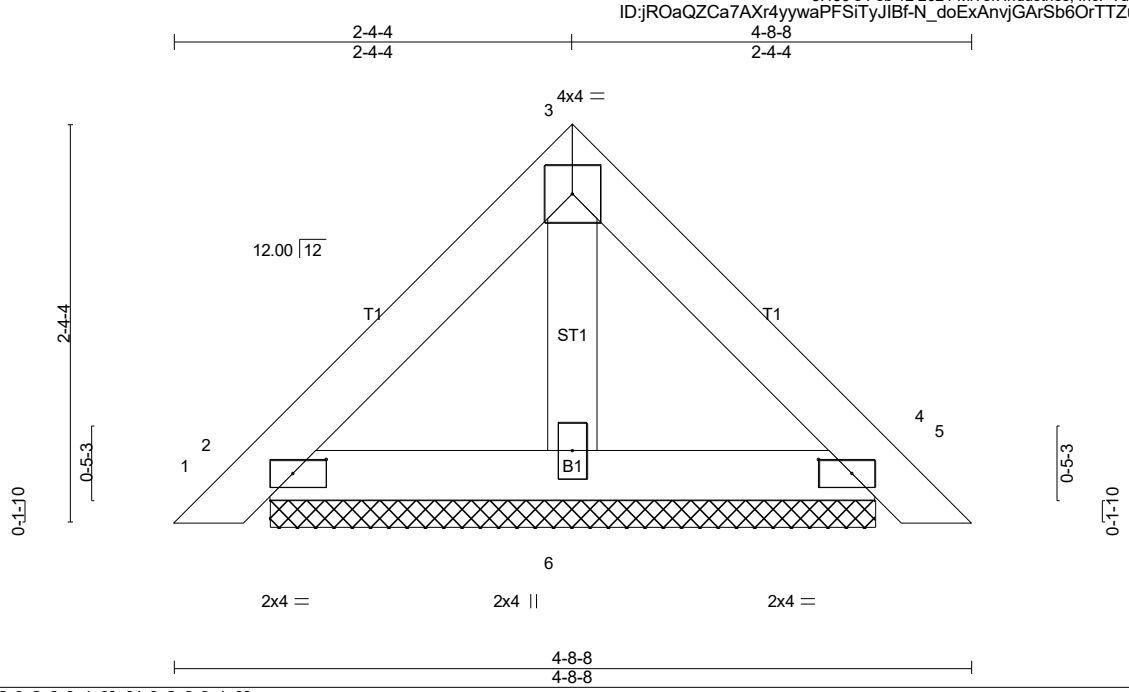

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	4	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 35 lb	FT = 0%
BCDL	10.0											

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

REACTIONS. (lb/size) 2=110/3-6-14 (min. 0-1-8), 4=110/3-6-14 (min. 0-1-8), 6=110/3-6-14 (min. 0-1-8)
Max Horz 2=49(LC 11)
Max Uplift2=-26(LC 13), 4=-32(LC 13)
Max Grav 2=110(LC 1), 4=110(LC 1), 6=111(LC 5)

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

NOTES- (13-14)
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(2E) zone;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) 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) Gable requires continuous bottom chord bearing.
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) 2, 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R01	GABLE	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:13 2021 Page 1
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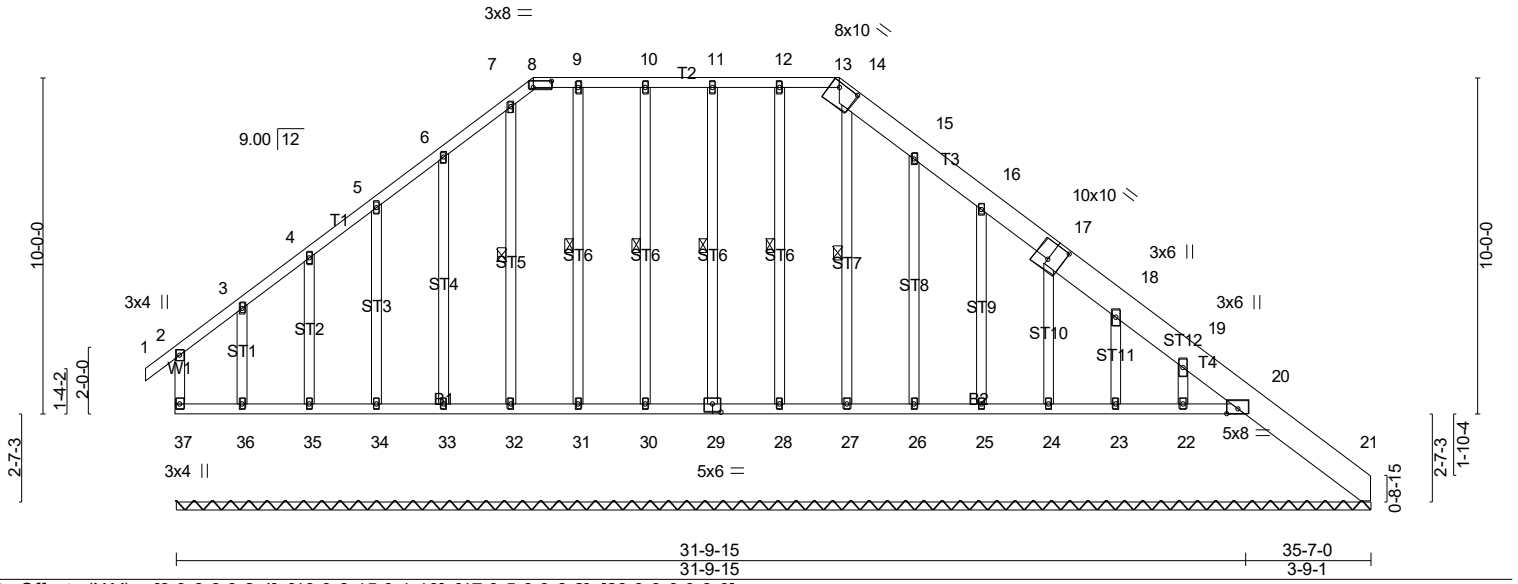
0-10-8 10-8-0 9-1-5 15-9-11

Scale = 1:68.6



31-9-15 35-7-0
31-9-15 3-9-1

Plate Offsets (X,Y)-- [8:0-6-8,0-2-4], [13:0-6-15,0-1-10], [17:0-5-0,0-6-2], [29:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	1	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	1	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	21	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH								
BCDL	10.0										Weight: 303 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x8 SP No.2, T4: 2x10 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-32, 9-31, 10-30, 11-29, 12-28, 14-27

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

REACTIONS. All bearings 35-7-0.
(lb) - Max Horz 37=-285(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 37, 21, 20, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 36=-115(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 37, 21, 36, 35, 30, 29, 28, 24, 23, 22 except 20=370(LC 20), 34=266(LC 20), 33=268(LC 20), 32=255(LC 22), 31=255(LC 22), 27=308(LC 22), 26=258(LC 21), 25=268(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-144/259, 6-7=-190/340, 7-8=-167/284, 8-9=-161/299, 9-10=-161/299, 10-11=-161/299, 11-12=-161/299, 12-13=-161/299, 14-15=-192/347, 15-16=-169/275, 19-20=-270/227

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 Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 5-10-6, Corner(3R) 5-10-6 to 24-6-15, Exterior(2N) 24-6-15 to 30-7-10, Corner(3E) 30-7-10 to 35-5-4 zone; end vertical left 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) 37, 21, 20, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=115.
13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 37, 20, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22.

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

6/21/2021

Continued on page 2

Design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

NOTES- (16-17)

14) 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.
15) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R02	Piggyback Base	4	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:15 2021 Page 1
ID:jROaQZCa7AXr4yywaPFSiTyJIBf-kxQhIeEwkGvSxDU4BO2eGxHexcF3vfdVo1Ih6Cz3jdM

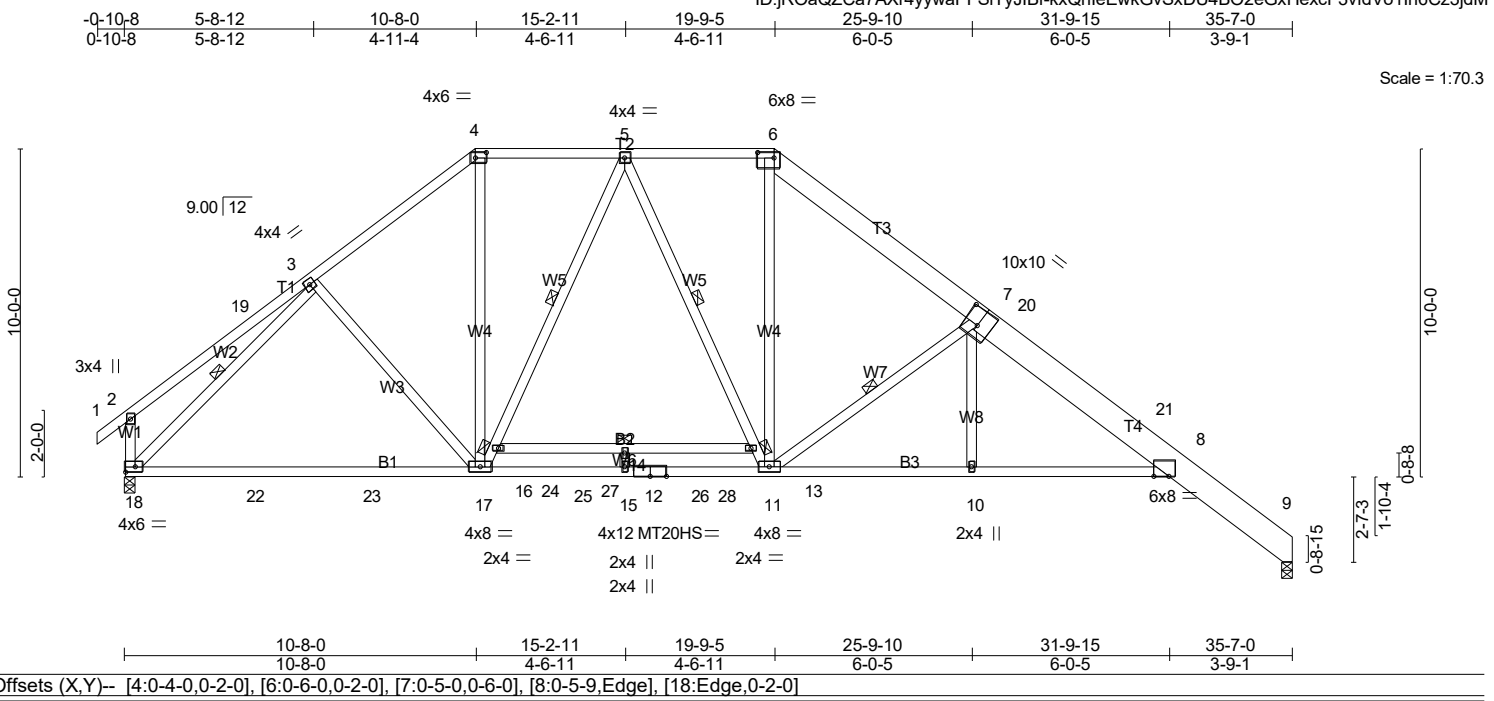


Plate Offsets (X,Y)-- [4:0-4-0,0-2-0], [6:0-6-0,0-2-0], [7:0-5-0,0-6-0], [8:0-5-9,Edge], [18:Edge,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.45	11-15	>937	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.78	11-15	>543	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.47	9	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 268 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x8 SP No.2, T4: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x4 SP SS, B3: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 11-15.
6-0-0 oc bracing: 13-16
WEBS 1 Row at midpt 5-16, 5-13, 7-11, 3-18

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

REACTIONS. (lb/size) 18=1566/0-3-8 (min. 0-2-1), 9=1493/0-3-8 (min. 0-1-8)
Max Horz 18=-286(LC 8)
Max Uplift18=-99(LC 12), 9=-137(LC 13)
Max Grav 18=1742(LC 3), 9=1520(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-339/137, 3-4=-1845/278, 4-5=-1421/268, 5-6=-1591/289, 6-7=-2140/288, 7-20=-2507/290, 20-21=-2649/287, 8-21=-2687/258, 8-9=-820/122, 2-18=-375/165
BOT CHORD 18-22=-123/1433, 22-23=-123/1433, 17-23=-123/1433, 17-24=-17/1603, 24-25=-17/1603, 15-25=-17/1603, 12-15=-17/1603, 12-26=-17/1603, 11-26=-17/1603, 10-11=-131/2481, 8-10=-134/2473
WEBS 4-17=-54/833, 16-17=-518/138, 5-16=-459/163, 6-11=-50/1003, 7-11=-1212/290, 3-18=-1751/108, 7-10=0/252

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(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 26-6-13, Interior(1) 26-6-13 to 30-7-10, Exterior(2E) 30-7-10 to 35-5-4 zone; end vertical left 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) 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, with BCDL = 10.0psf.
9) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 9=137.

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

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Continued on page 2

Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

NOTES- (12-13)

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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R03	PIGGYBACK BASE	2	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:16 2021 Page 1
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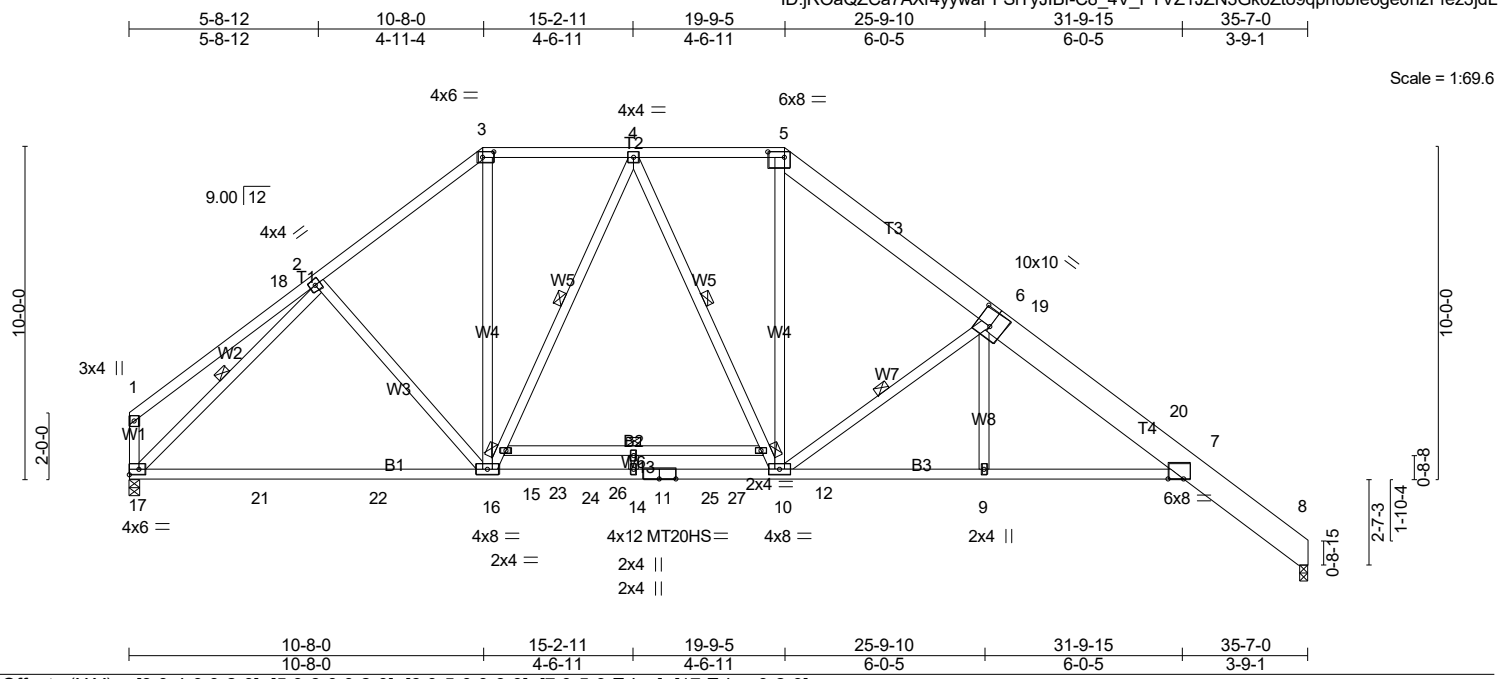

Plate Offsets (X,Y)-- [3:0-4-0,0-2-0], [5:0-6-0,0-2-0], [6:0-5-0,0-6-0], [7:0-5-9,Edge], [17:Edge,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.45	10-14	>937	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.78	10-14	>543	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.47	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 267 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x8 SP No.2, T4: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x4 SP SS, B3: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 10-14.
6-0-0 oc bracing: 12-15
WEBS 1 Row at midpt 4-15, 4-12, 6-10, 2-17

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

REACTIONS. (lb/size) 17=1504/0-3-8 (min. 0-2-0), 8=1494/0-3-8 (min. 0-1-8)
Max Horz 17=-293(LC 8)
Max Uplift17=-78(LC 12), 8=-136(LC 13)
Max Grav 17=1690(LC 3), 8=1521(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-301/89, 2-3=-1849/272, 3-4=-1423/263, 4-5=-1592/285, 5-6=-2142/283, 6-19=-2508/285, 19-20=-2651/283, 7-20=-2688/253, 7-8=-821/120, 1-17=-286/103
BOT CHORD 17-21=-121/1439, 21-22=-121/1439, 16-22=-121/1439, 16-23=-16/1605, 23-24=-16/1605, 14-24=-16/1605, 11-14=-16/1605, 11-25=-16/1605, 10-25=-16/1605, 9-10=-126/2483, 7-9=-130/2474
WEBS 3-16=-51/839, 15-16=-518/138, 4-15=-459/163, 5-10=-47/1004, 6-10=-1213/290, 2-17=-1784/148, 6-9=0/252

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(2E) 0-1-12 to 4-11-6, Exterior(2R) 4-11-6 to 26-6-13, Interior(1) 26-6-13 to 30-7-10, Exterior(2E) 30-7-10 to 35-5-4 zone; end vertical left 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) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
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) 8 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) 17 except (jt=lb) 8=136.
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.

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

6/21/2021

Warning Design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R04	PIGGYBACK BASE	7	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:17 2021 Page 1
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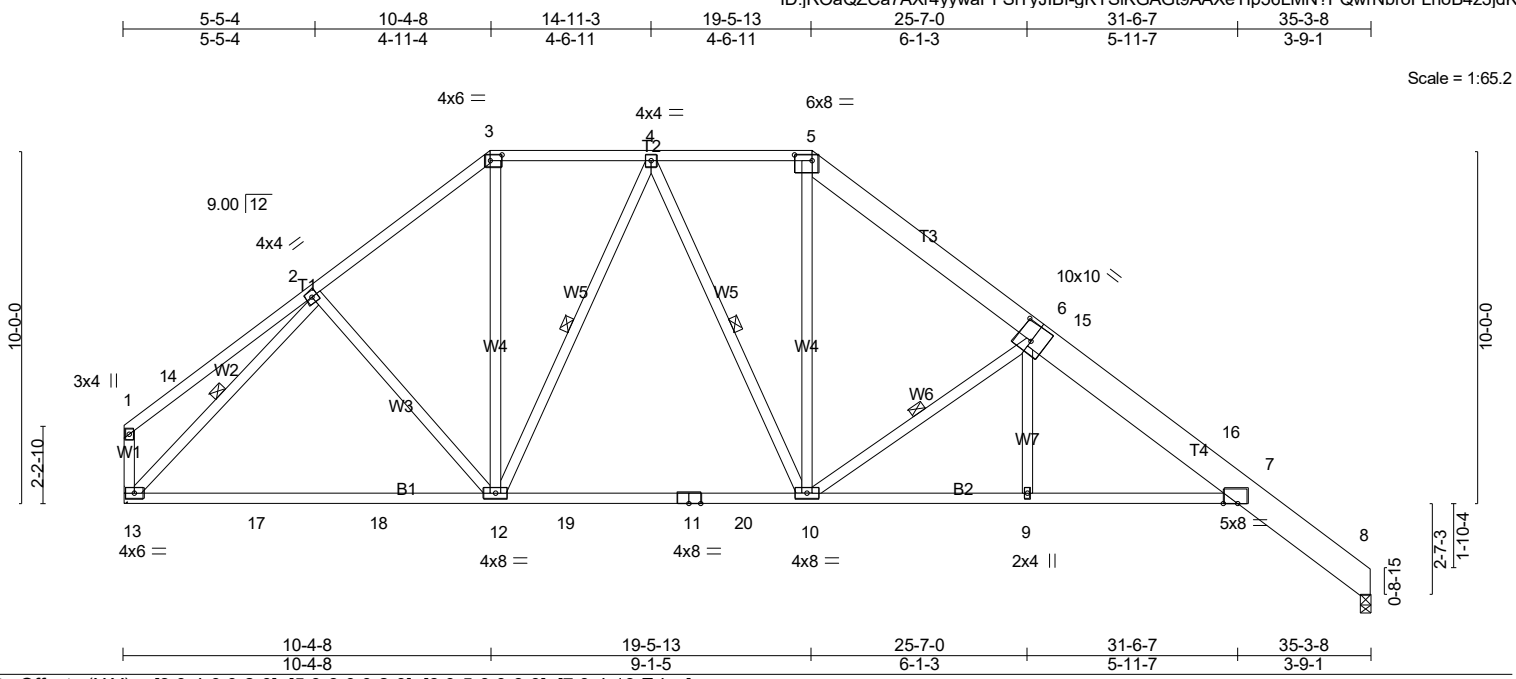


Plate Offsets (X,Y)-- [3:0-4-0,0-2-0], [5:0-6-0,0-2-0], [6:0-5-0,0-6-0], [7:0-4-13,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.38	10-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.66	7-9	>639	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.43	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 254 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x8 SP No.2, T4: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x4 SP No.1
WEBS 2x4 SP No.3

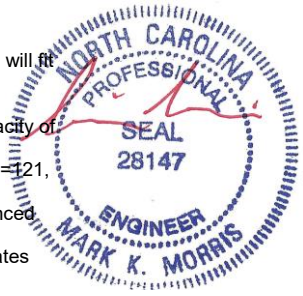
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-12, 4-10, 2-13, 6-10

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

REACTIONS. (lb/size) 13=1401/Mechanical, 8=1413/0-3-8 (min. 0-1-8)
Max Horz 13=-274(LC 13)
Max Uplift13=-121(LC 12), 8=-169(LC 13)
Max Grav 13=1489(LC 3), 8=1413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1541/324, 3-4=-1174/306, 4-5=-1331/337, 5-6=-1810/354, 6-15=-2178/351, 15-16=-2350/348, 7-16=-2395/318, 7-8=-759/137
BOT CHORD 13-17=-159/1194, 17-18=-159/1194, 12-18=-159/1194, 12-19=-77/1298, 11-19=-77/1298, 11-20=-77/1298, 10-20=-77/1298, 9-10=-188/2208, 7-9=-190/2199
WEBS 3-12=-81/654, 4-12=-457/168, 5-10=-87/803, 2-13=-1503/242, 6-10=-1158/303, 6-9=0/271

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(2E) 0-1-12 to 4-11-6, Exterior(2R) 4-11-6 to 26-3-5, Interior(1) 26-3-5 to 30-4-2, Exterior(2E) 30-4-2 to 35-1-12 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=1.15 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) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 8 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) 13=121, 8=169.
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.



6/21/2021

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R05	Piggyback Base	6	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:18 2021 Page 1
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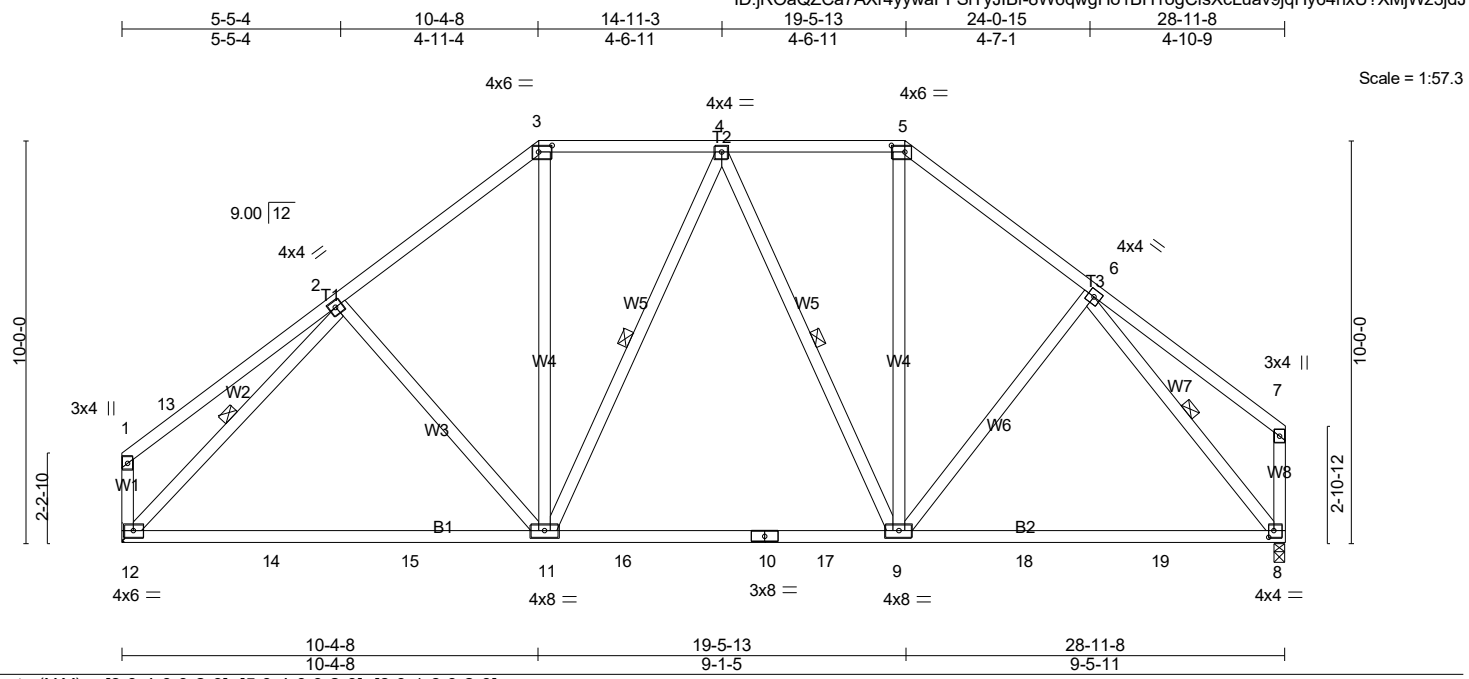


Plate Offsets (X,Y)-- [3:0-4-0,0-2-0], [5:0-4-0,0-2-0], [8:0-1-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.36	11-12	>955	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.63	11-12	>548	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 204 lb	FT = 0%
BCDL	10.0											

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

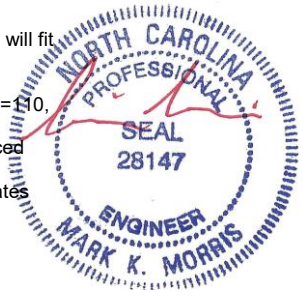
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-11, 4-9, 2-12, 6-8

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

REACTIONS. (lb/size) 12=1147/Mechanical, 8=1147/0-3-8 (min. 0-1-8)
Max Horz 12=175(LC 9)
Max Uplift12=-110(LC 12), 8=-104(LC 13)
Max Grav 12=1265(LC 3), 8=1276(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1240/279, 3-4=-930/269, 4-5=-891/263, 5-6=-1183/274
BOT CHORD 12-14=-181/976, 14-15=-181/976, 11-15=-181/976, 11-16=-104/964, 10-16=-104/964, 10-17=-104/964, 9-17=-104/964, 9-18=-113/802, 18-19=-113/802, 8-19=-113/802
WEBS 3-11=-53/475, 4-9=-277/156, 5-9=-55/452, 2-12=-1197/198, 6-8=-1215/197

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(2E) 0-1-12 to 4-11-6, Exterior(2R) 4-11-6 to 24-2-0, Exterior(2E) 24-2-0 to 28-9-12 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=1.15 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) Provide adequate drainage to prevent water ponding.
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) 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) except (jt=lb) 12=110, 8=104.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R06	Piggyback Base	2	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:19 2021 Page 1
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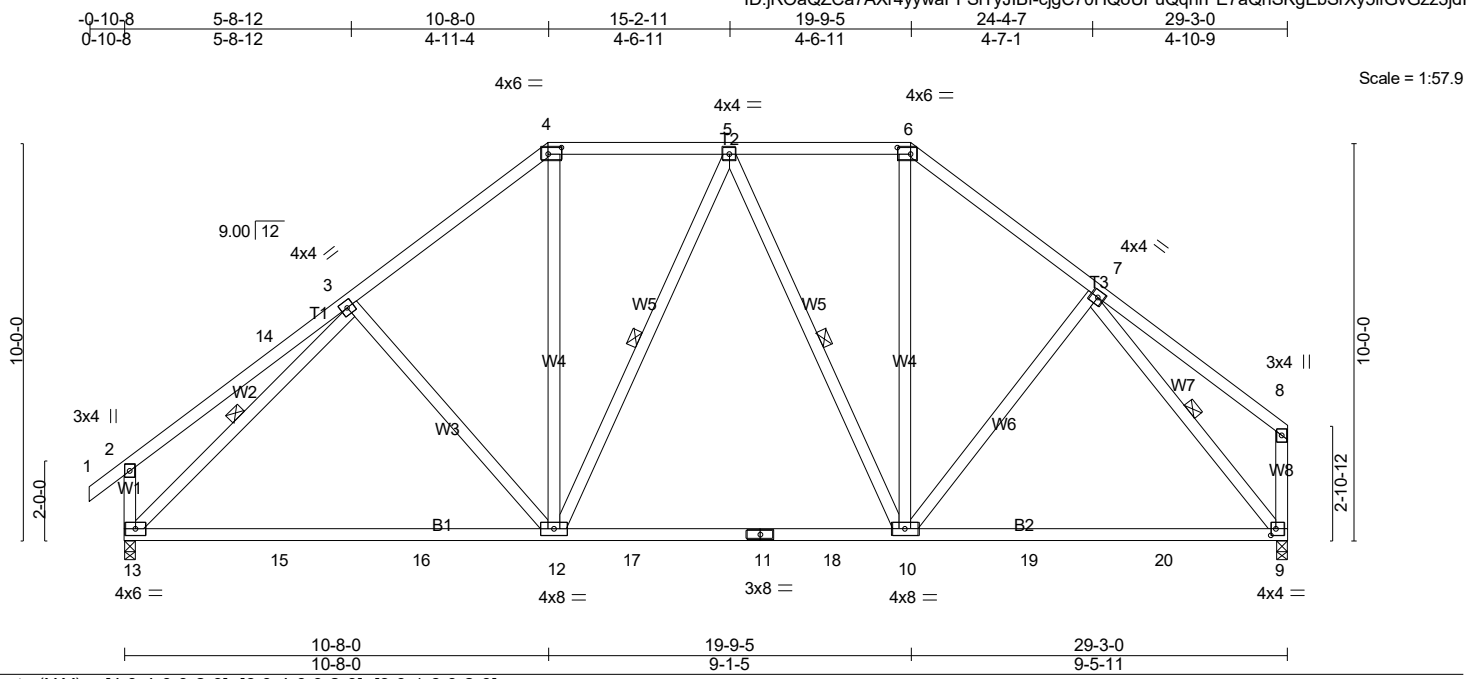


Plate Offsets (X,Y)-- [4:0-4-0,0-2-0], [6:0-4-0,0-2-0], [9:0-1-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.41	12-13	>858	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.70	12-13	>495	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 206 lb	FT = 0%
BCDL	10.0											

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

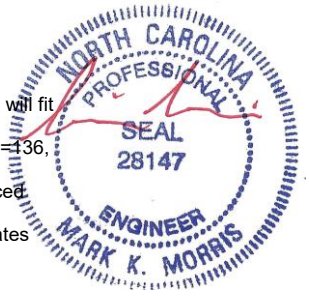
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10, 3-13, 7-9

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

REACTIONS. (lb/size) 13=1221/0-3-8 (min. 0-1-9), 9=1157/0-3-8 (min. 0-1-8)
Max Horz 13=263(LC 9)
Max Uplift13=-136(LC 12), 9=-107(LC 13)
Max Grav 13=1329(LC 3), 9=1289(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-347/133, 3-4=-1270/300, 4-5=-956/286, 5-6=-902/277, 6-7=-1198/292, 2-13=-378/162
BOT CHORD 13-15=-217/1042, 15-16=-217/1042, 12-16=-217/1042, 12-17=-142/983, 11-17=-142/983, 11-18=-142/983, 10-18=-142/983, 10-19=-72/812, 19-20=-72/812, 9-20=-72/812
WEBS 4-12=-66/493, 5-10=-289/160, 6-10=-65/461, 3-13=-1167/134, 7-9=-1230/163

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(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 24-5-8, Exterior(2E) 24-5-8 to 29-1-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=136, 9=107.
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.



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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R07	Piggyback Base Supported Gable	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:20 2021 Page 1
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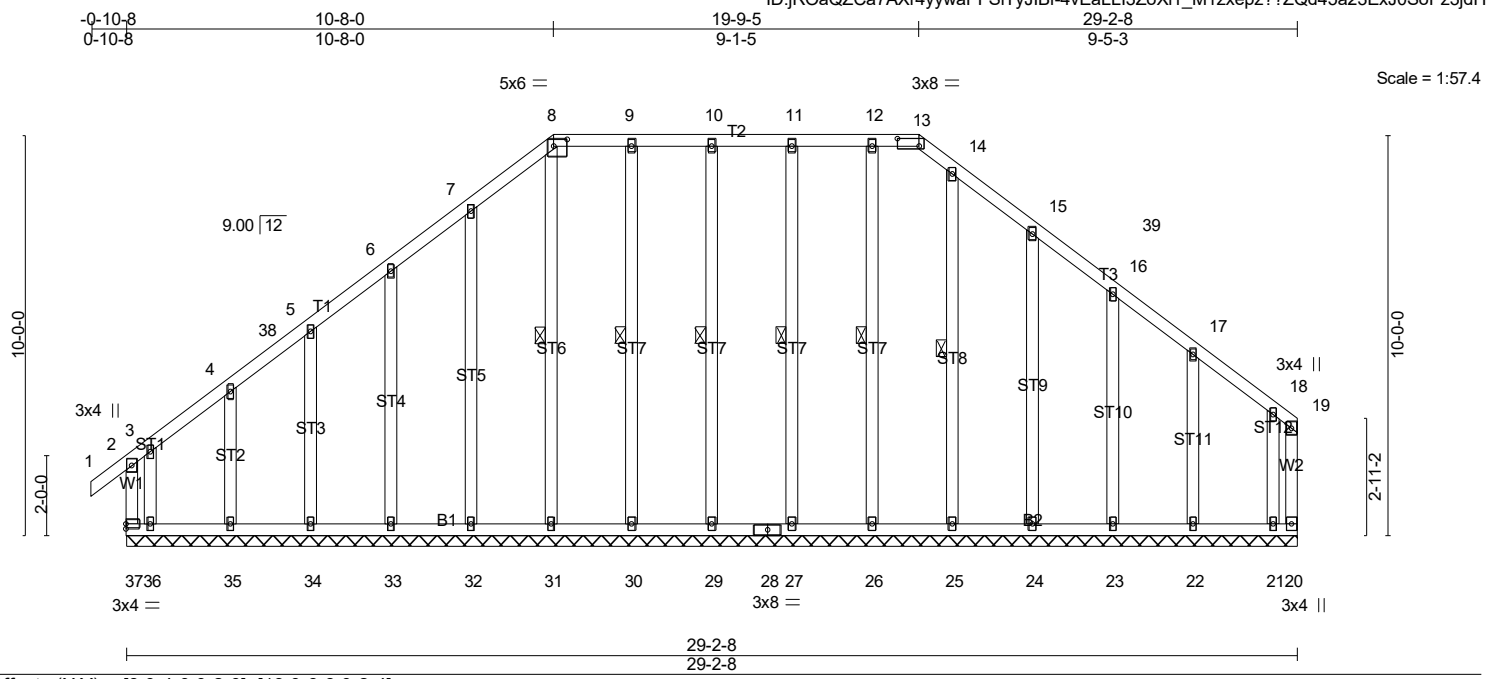


Plate Offsets (X,Y)-- [8:0-4-0,0-2-0], [13:0-6-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.00	1	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.00	1	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	20	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 252 lb	FT = 0%
BCDL	10.0											

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

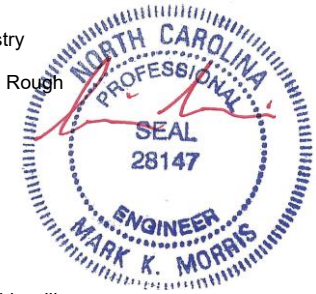
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-29, 9-30, 8-31, 11-27, 12-26, 14-25

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

REACTIONS. All bearings 29-2-8.
(lb) - Max Horz 37=265(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 29, 30, 31, 32, 33, 34, 35, 27, 26, 24, 23, 22 except 37=-696(LC 10), 20=-349(LC 11), 36=-700(LC 9), 21=-308(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 29, 30, 35, 27, 25, 22 except 37=787(LC 9), 20=311(LC 10), 31=271(LC 23), 32=273(LC 20), 33=256(LC 20), 34=266(LC 20), 36=711(LC 10), 26=251(LC 23), 24=266(LC 21), 23=263(LC 21), 21=418(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-37=-405/357, 2-3=-360/328, 6-7=-163/260, 7-8=-202/324, 8-9=-166/280, 9-10=-166/280, 10-11=-166/280, 11-12=-166/280, 12-13=-166/280, 13-14=-177/277, 14-15=-194/311
WEBS 3-36=-303/314

NOTES- (15-16)
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 Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 5-10-6, Corner(3R) 5-10-6 to 24-3-2, Corner(3E) 24-3-2 to 29-0-12 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.



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Continued on page 2

Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

NOTES- (15-16)

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 30, 31, 32, 33, 34, 35, 27, 26, 24, 23, 22 except (jt=lb) 37=696, 20=349, 36=700, 21=308.
14) 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.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R08	Piggyback Base Girder	1	2	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:24 2021 Page 1
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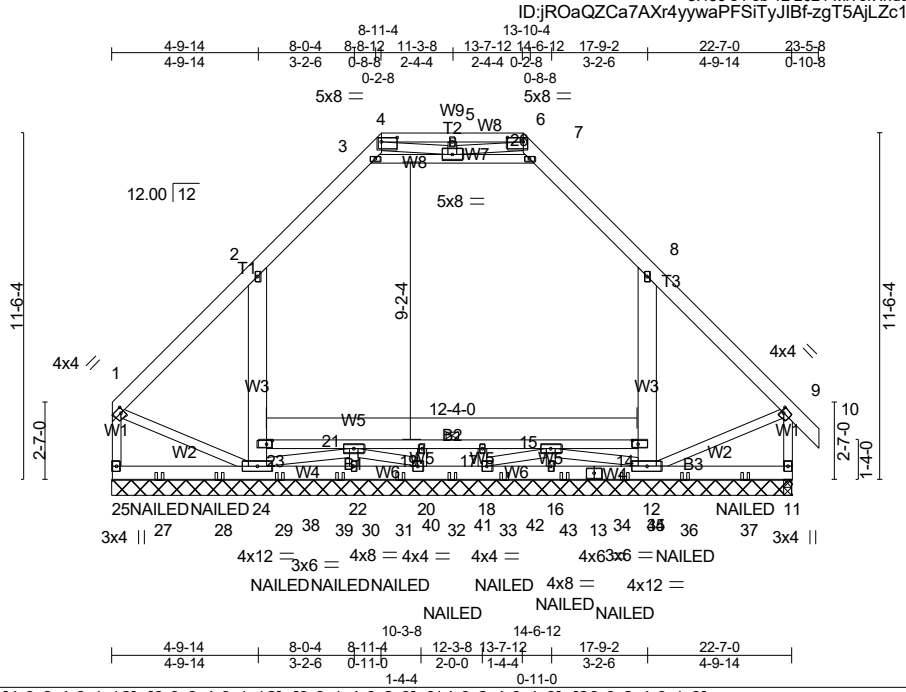


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [4:0-6-4,0-1-12], [6:0-6-4,0-1-12], [9:0-1-4,0-2-0], [14:0-2-4,0-1-8], [23:0-2-4,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	21-23	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.01	21-23	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 470 lb	FT = 0%
BCDL	10.0											

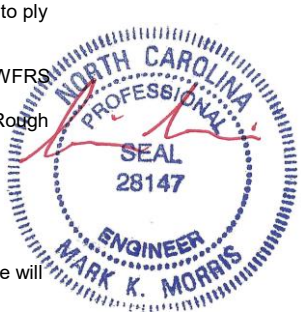
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W3: 2x8 SP No.2, W7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
10-0-0 oc bracing: 14-23

REACTIONS. All bearings 22-7-0.
(lb) - Max Horz 25=-294(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 18, 20, 22, 16 except 25=-154(LC 6), 11=-144(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except 25=697(LC 1), 24=2829(LC 43), 12=2842(LC 44), 11=765(LC 1), 11=765(LC 1), 18=348(LC 44), 20=344(LC 44), 22=492(LC 46), 16=491(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-514/128, 2-3=-532/80, 4-5=-371/111, 5-6=-371/111, 7-8=-531/78, 8-9=-513/123, 1-25=-534/102, 9-11=-602/93
BOT CHORD 25-27=-281/290, 27-28=-281/290, 24-28=-281/290
WEBS 23-24=-498/293, 2-23=-394/306, 12-14=-486/284, 8-14=-382/297, 1-24=-116/367, 9-12=-105/390, 21-22=-337/0, 15-16=-337/0, 4-26=-144/331, 6-26=-145/329

NOTES- (19-20)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 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; 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-26, 7-26
12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 14-15



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Continued on page 2

Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

NOTES- (19-20)

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 20, 22, 16 except (jt=lb) 25=154, 11=144.
14) 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.
15) 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, 33, 34, 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.
16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2000 lb down at 4-9-14, and 2000 lb down at 17-9-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
18) Attic room checked for L/360 deflection.
19) 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.
20) 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: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-60, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-60, 11-25=-20, 14-23=-20, 3-7=-10
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=-158(F) 28=-158(F) 29=-158(F) 30=-158(F) 31=-158(F) 32=-158(F) 33=-158(F) 34=-158(F) 35=-158(F) 36=-158(F) 37=-158(F)
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-60, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-60, 11-25=-20, 14-23=-20, 3-7=-10
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=-95(F) 28=-95(F) 29=-95(F) 30=-95(F) 31=-95(F) 32=-95(F) 33=-95(F) 34=-95(F) 35=-95(F) 36=-95(F) 37=-95(F)
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-3=-60, 3-4=-50, 4-6=-50, 6-7=-50, 7-8=-60, 8-9=-50, 9-10=-50, 11-25=-20, 14-23=-80, 3-7=-10
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=-83(F) 28=-83(F) 29=-83(F) 30=-83(F) 31=-83(F) 32=-83(F) 33=-83(F) 34=-83(F) 35=-83(F) 36=-83(F) 37=-83(F)
4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-3=-60, 3-4=-50, 4-6=-50, 6-7=-50, 7-8=-60, 8-9=-50, 9-10=-50, 11-25=-20, 14-23=-80, 3-7=-10
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=-130(F) 28=-130(F) 29=-130(F) 30=-130(F) 31=-130(F) 32=-130(F) 33=-130(F) 34=-130(F) 35=-130(F) 36=-130(F) 37=-130(F)
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-3=-30, 3-4=-20, 4-6=-20, 6-7=-20, 7-8=-30, 8-9=-20, 9-10=-20, 11-25=-40, 14-23=-20, 3-7=-10
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=-80(F) 28=-80(F) 29=-80(F) 30=-80(F) 31=-80(F) 32=-80(F) 33=-80(F) 34=-80(F) 35=-80(F) 36=-80(F) 37=-80(F)
6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-13, 2-3=-19, 3-4=-13, 4-6=26, 6-7=10, 7-8=4, 8-9=10, 9-10=5, 11-25=-10, 14-23=-10, 3-7=-6
   Horz: 1-4=3, 6-9=20, 9-10=15, 1-25=15, 9-11=19
   Drag: 1-25=0, 9-11=-0
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=99(F) 28=99(F) 29=99(F) 30=99(F) 31=99(F) 32=99(F) 33=99(F) 34=99(F) 35=99(F) 36=99(F) 37=99(F)
7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-3=4, 3-4=10, 4-6=26, 6-7=-13, 7-8=-19, 8-9=-13, 9-10=-1, 11-25=-10, 14-23=-10, 3-7=-6
   Horz: 1-4=-20, 6-9=-3, 9-10=9, 1-25=-19, 9-11=-15
   Drag: 1-25=-0, 9-11=0
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=99(F) 28=99(F) 29=99(F) 30=99(F) 31=99(F) 32=99(F) 33=99(F) 34=99(F) 35=99(F) 36=99(F) 37=99(F)
8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-33, 2-3=-43, 3-4=-33, 4-6=6, 6-7=-10, 7-8=-20, 8-9=-10, 9-10=-5, 11-25=-20, 14-23=-20, 3-7=-10
   Horz: 1-4=13, 6-9=10, 9-10=15, 1-25=25, 9-11=9
   Drag: 1-25=0, 9-11=-0
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=109(F) 28=109(F) 29=109(F) 30=109(F) 31=109(F) 32=109(F) 33=109(F) 34=109(F) 35=109(F) 36=109(F) 37=109(F)
9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-10, 2-3=-20, 3-4=-10, 4-6=6, 6-7=-33, 7-8=-43, 8-9=-33, 9-10=-28, 11-25=-20, 14-23=-20, 3-7=-10
   Horz: 1-4=-10, 6-9=-13, 9-10=-8, 1-25=-9, 9-11=-25
   Drag: 1-25=-0, 9-11=0
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=109(F) 28=109(F) 29=109(F) 30=109(F) 31=109(F) 32=109(F) 33=109(F) 34=109(F) 35=109(F) 36=109(F) 37=109(F)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=26, 2-3=20, 3-4=26, 4-6=10, 6-7=10, 7-8=4, 8-9=10, 9-10=5, 11-25=-10, 14-23=-10, 3-7=-6
   Horz: 1-4=-36, 6-9=20, 9-10=15, 1-25=12, 9-11=17
   Drag: 1-25=0, 9-11=-0
   Concentrated Loads (lb)
   Vert: 24=-2000(B) 12=-2000(B) 27=99(F) 28=99(F) 29=99(F) 30=99(F) 31=99(F) 32=99(F) 33=99(F) 34=99(F) 35=99(F) 36=99(F) 37=99(F)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=10, 2-3=4, 3-4=10, 4-6=10, 6-7=26, 7-8=20, 8-9=26, 9-10=21, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-20, 6-9=36, 9-10=31, 1-25=-17, 9-11=-12
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=99(F) 28=99(F) 29=99(F) 30=99(F) 31=99(F) 32=99(F) 33=99(F) 34=99(F) 35=99(F) 36=99(F) 37=99(F)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=26, 2-3=20, 3-4=26, 4-6=10, 6-7=10, 7-8=4, 8-9=10, 9-10=5, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-36, 6-9=20, 9-10=15, 1-25=12, 9-11=17
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=99(F) 28=99(F) 29=99(F) 30=99(F) 31=99(F) 32=99(F) 33=99(F) 34=99(F) 35=99(F) 36=99(F) 37=99(F)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=4, 3-4=10, 4-6=10, 6-7=26, 7-8=20, 8-9=26, 9-10=21, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-20, 6-9=36, 9-10=31, 1-25=-17, 9-11=-12
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=99(F) 28=99(F) 29=99(F) 30=99(F) 31=99(F) 32=99(F) 33=99(F) 34=99(F) 35=99(F) 36=99(F) 37=99(F)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-4, 3-4=6, 4-6=-10, 6-7=-10, 7-8=-20, 8-9=-10, 9-10=-5, 11-25=-20, 14-23=-20, 3-7=-10
Horz: 1-4=-26, 6-9=10, 9-10=15, 1-25=23, 9-11=7
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=109(F) 28=109(F) 29=109(F) 30=109(F) 31=109(F) 32=109(F) 33=109(F) 34=109(F) 35=109(F) 36=109(F) 37=109(F)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-20, 3-4=-10, 4-6=-10, 6-7=6, 7-8=-4, 8-9=6, 9-10=11, 11-25=-20, 14-23=-20, 3-7=-10
Horz: 1-4=-10, 6-9=26, 9-10=31, 1-25=-7, 9-11=-23
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=109(F) 28=109(F) 29=109(F) 30=109(F) 31=109(F) 32=109(F) 33=109(F) 34=109(F) 35=109(F) 36=109(F) 37=109(F)

16) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 6-9=-20, 9-10=-100, 11-25=-20, 14-23=-20
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-31(F) 28=-31(F) 29=-31(F) 30=-31(F) 31=-31(F) 32=-31(F) 33=-31(F) 34=-31(F) 35=-31(F) 36=-31(F) 37=-31(F)

17) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-30, 3-4=-20, 4-6=-20, 6-7=-20, 7-8=-30, 8-9=-20, 9-10=-20, 11-25=-20, 14-23=-100, 3-7=-10
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-45(F) 28=-45(F) 29=-45(F) 30=-45(F) 31=-45(F) 32=-45(F) 33=-45(F) 34=-45(F) 35=-45(F) 36=-45(F) 37=-45(F)

18) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-30, 3-4=-20, 4-6=-20, 6-7=-20, 7-8=-30, 8-9=-20, 9-10=-20, 11-25=-20, 14-23=-100, 3-7=-10
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-45(F) 28=-45(F) 29=-45(F) 30=-45(F) 31=-45(F) 32=-45(F) 33=-45(F) 34=-45(F) 35=-45(F) 36=-45(F) 37=-45(F)

19) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-31, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=10, 6-9=8, 9-10=11, 1-25=19, 9-11=6
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

20) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-31, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-56, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=-10, 9-10=-6, 1-25=-6, 9-11=-19
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

21) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-41, 3-4=-31, 4-6=-42, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-19, 6-9=8, 9-10=11, 1-25=17, 9-11=5
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

22) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-42, 6-7=-31, 7-8=-41, 8-9=-31, 9-10=-27, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=19, 9-10=23, 1-25=-5, 9-11=-17
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

23) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-31, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=10, 6-9=8, 9-10=11, 1-25=19, 9-11=6
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

24) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-31, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-56, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=-10, 9-10=-6, 1-25=-6, 9-11=-19
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

25) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-41, 3-4=-31, 4-6=-42, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-19, 6-9=8, 9-10=11, 1-25=17, 9-11=5
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

26) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-42, 6-7=-31, 7-8=-41, 8-9=-31, 9-10=-27, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=19, 9-10=23, 1-25=-5, 9-11=-17
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=78(F) 28=78(F) 29=78(F) 30=78(F) 31=78(F) 32=78(F) 33=78(F) 34=78(F) 35=78(F) 36=78(F) 37=78(F)

27) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-16, 4-6=-10, 6-9=-10, 9-10=-10, 11-25=-10, 14-23=-10
Horz: 1-4=6, 1-25=16
Drag: 1-25=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=79(F) 28=79(F) 29=79(F) 30=79(F) 31=79(F) 32=79(F) 33=79(F) 34=79(F) 35=79(F) 36=79(F) 37=79(F)

28) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-10, 4-6=-10, 6-9=-16, 9-10=-10, 11-25=-10, 14-23=-10
Horz: 6-9=-6, 9-11=-16
Drag: 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=79(F) 28=79(F) 29=79(F) 30=79(F) 31=79(F) 32=79(F) 33=79(F) 34=79(F) 35=79(F) 36=79(F) 37=79(F)

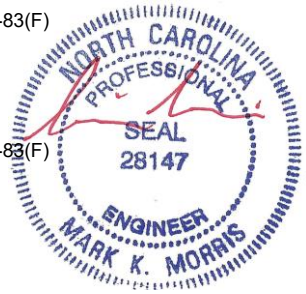
29) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-60, 6-7=-20, 7-8=-30, 8-9=-20, 9-10=-20, 11-25=-20, 14-23=-20, 3-7=-10
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-95(F) 28=-95(F) 29=-95(F) 30=-95(F) 31=-95(F) 32=-95(F) 33=-95(F) 34=-95(F) 35=-95(F) 36=-95(F) 37=-95(F)

30) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-30, 3-4=-20, 4-6=-60, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-60, 11-25=-20, 14-23=-20, 3-7=-10
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-95(F) 28=-95(F) 29=-95(F) 30=-95(F) 31=-95(F) 32=-95(F) 33=-95(F) 34=-95(F) 35=-95(F) 36=-95(F) 37=-95(F)

31) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-60, 3-4=-50, 4-6=-50, 6-7=-20, 7-8=-30, 8-9=-20, 9-10=-20, 11-25=-20, 14-23=-80, 3-7=-10
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-83(F) 28=-83(F) 29=-83(F) 30=-83(F) 31=-83(F) 32=-83(F) 33=-83(F) 34=-83(F) 35=-83(F) 36=-83(F) 37=-83(F)

32) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-30, 3-4=-20, 4-6=-50, 6-7=-50, 7-8=-60, 8-9=-50, 9-10=-50, 11-25=-20, 14-23=-80, 3-7=-10
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-83(F) 28=-83(F) 29=-83(F) 30=-83(F) 31=-83(F) 32=-83(F) 33=-83(F) 34=-83(F) 35=-83(F) 36=-83(F) 37=-83(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60



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Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-19, 3-4=-13, 4-6=26, 6-7=10, 7-8=4, 8-9=10, 9-10=5, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=3, 6-9=20, 9-10=15, 1-25=15, 9-11=19
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-116(F) 28=-116(F) 29=-116(F) 30=-116(F) 31=-116(F) 32=-116(F) 33=-116(F) 34=-116(F) 35=-116(F) 36=-116(F) 37=-116(F)

34) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=4, 3-4=10, 4-6=26, 6-7=-13, 7-8=-19, 8-9=-13, 9-10=-1, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-20, 6-9=-3, 9-10=9, 1-25=-19, 9-11=-15
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-116(F) 28=-116(F) 29=-116(F) 30=-116(F) 31=-116(F) 32=-116(F) 33=-116(F) 34=-116(F) 35=-116(F) 36=-116(F) 37=-116(F)

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-43, 3-4=-33, 4-6=6, 6-7=-10, 7-8=-20, 8-9=-10, 9-10=-5, 11-25=-20, 14-23=-20, 3-7=-10
Horz: 1-4=13, 6-9=10, 9-10=15, 1-25=25, 9-11=9
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-106(F) 35=-106(F) 36=-106(F) 37=-106(F)

36) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-20, 3-4=-10, 4-6=6, 6-7=-33, 7-8=-43, 8-9=-33, 9-10=-28, 11-25=-20, 14-23=-20, 3-7=-10
Horz: 1-4=-10, 6-9=-13, 9-10=-8, 1-25=-9, 9-11=-25
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-106(F) 35=-106(F) 36=-106(F) 37=-106(F)

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=26, 2-3=20, 3-4=26, 4-6=10, 6-7=10, 7-8=4, 8-9=10, 9-10=5, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-36, 6-9=20, 9-10=15, 1-25=12, 9-11=17
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-116(F) 28=-116(F) 29=-116(F) 30=-116(F) 31=-116(F) 32=-116(F) 33=-116(F) 34=-116(F) 35=-116(F) 36=-116(F) 37=-116(F)

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=4, 3-4=10, 4-6=10, 6-7=26, 7-8=20, 8-9=26, 9-10=21, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-20, 6-9=36, 9-10=31, 1-25=-17, 9-11=-12
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-116(F) 28=-116(F) 29=-116(F) 30=-116(F) 31=-116(F) 32=-116(F) 33=-116(F) 34=-116(F) 35=-116(F) 36=-116(F) 37=-116(F)

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=26, 2-3=20, 3-4=26, 4-6=10, 6-7=10, 7-8=4, 8-9=10, 9-10=5, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-36, 6-9=20, 9-10=15, 1-25=12, 9-11=17
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-116(F) 28=-116(F) 29=-116(F) 30=-116(F) 31=-116(F) 32=-116(F) 33=-116(F) 34=-116(F) 35=-116(F) 36=-116(F) 37=-116(F)

40) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=4, 3-4=10, 4-6=10, 6-7=26, 7-8=20, 8-9=26, 9-10=21, 11-25=-10, 14-23=-10, 3-7=-6
Horz: 1-4=-20, 6-9=36, 9-10=31, 1-25=-17, 9-11=-12
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-116(F) 28=-116(F) 29=-116(F) 30=-116(F) 31=-116(F) 32=-116(F) 33=-116(F) 34=-116(F)
35=-116(F) 36=-116(F) 37=-116(F)

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-4, 3-4=6, 4-6=-10, 6-7=-10, 7-8=-20, 8-9=-10, 9-10=-5, 11-25=-20, 14-23=-20, 3-7=-10
Horz: 1-4=-26, 6-9=10, 9-10=15, 1-25=23, 9-11=7
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-106(F)
35=-106(F) 36=-106(F) 37=-106(F)

42) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-20, 3-4=-10, 4-6=-10, 6-7=6, 7-8=-4, 8-9=6, 9-10=11, 11-25=-20, 14-23=-20, 3-7=-10
Horz: 1-4=-10, 6-9=26, 9-10=31, 1-25=-7, 9-11=-23
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-106(F)
35=-106(F) 36=-106(F) 37=-106(F)

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

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Continued on page 6

 This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-31, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=10, 6-9=8, 9-10=11, 1-25=19, 9-11=6
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-125(F) 28=-125(F) 29=-125(F) 30=-125(F) 31=-125(F) 32=-125(F) 33=-125(F) 34=-125(F) 35=-125(F) 36=-125(F) 37=-125(F)

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-31, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-56, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=-10, 9-10=-6, 1-25=-6, 9-11=-19
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-125(F) 28=-125(F) 29=-125(F) 30=-125(F) 31=-125(F) 32=-125(F) 33=-125(F) 34=-125(F) 35=-125(F) 36=-125(F) 37=-125(F)

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-41, 3-4=-31, 4-6=-42, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-19, 6-9=8, 9-10=11, 1-25=17, 9-11=5
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-125(F) 28=-125(F) 29=-125(F) 30=-125(F) 31=-125(F) 32=-125(F) 33=-125(F) 34=-125(F) 35=-125(F) 36=-125(F) 37=-125(F)

46) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-42, 6-7=-31, 7-8=-41, 8-9=-31, 9-10=-27, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=19, 9-10=23, 1-25=-5, 9-11=-17
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-125(F) 28=-125(F) 29=-125(F) 30=-125(F) 31=-125(F) 32=-125(F) 33=-125(F) 34=-125(F) 35=-125(F) 36=-125(F) 37=-125(F)

47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-6=-31, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=10, 6-9=8, 9-10=11, 1-25=19, 9-11=6
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-119(F) 28=-119(F) 29=-119(F) 30=-119(F) 31=-119(F) 32=-119(F) 33=-119(F) 34=-119(F) 35=-119(F) 36=-119(F) 37=-119(F)

48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-31, 6-7=-60, 7-8=-70, 8-9=-60, 9-10=-56, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=-10, 9-10=-6, 1-25=-6, 9-11=-19
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-119(F) 28=-119(F) 29=-119(F) 30=-119(F) 31=-119(F) 32=-119(F) 33=-119(F) 34=-119(F) 35=-119(F) 36=-119(F) 37=-119(F)

49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-41, 3-4=-31, 4-6=-42, 6-7=-42, 7-8=-52, 8-9=-42, 9-10=-39, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-19, 6-9=8, 9-10=11, 1-25=17, 9-11=5
Drag: 1-25=0, 9-11=-0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-119(F) 28=-119(F) 29=-119(F) 30=-119(F) 31=-119(F) 32=-119(F) 33=-119(F) 34=-119(F) 35=-119(F) 36=-119(F) 37=-119(F)

50) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-3=-52, 3-4=-42, 4-6=-42, 6-7=-31, 7-8=-41, 8-9=-31, 9-10=-27, 11-25=-20, 14-23=-80, 3-7=-10
Horz: 1-4=-8, 6-9=19, 9-10=23, 1-25=-5, 9-11=-17
Drag: 1-25=-0, 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-119(F) 28=-119(F) 29=-119(F) 30=-119(F) 31=-119(F) 32=-119(F) 33=-119(F) 34=-119(F) 35=-119(F) 36=-119(F) 37=-119(F)

51) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-16, 4-6=-10, 6-9=-10, 9-10=-10, 11-25=-10, 14-23=-10
Horz: 1-4=6, 1-25=16
Drag: 1-25=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-97(F) 28=-97(F) 29=-97(F) 30=-97(F) 31=-97(F) 32=-97(F) 33=-97(F) 34=-97(F) 35=-97(F) 36=-97(F) 37=-97(F)

52) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-10, 4-6=-10, 6-9=-16, 9-10=-10, 11-25=-10, 14-23=-10
Horz: 6-9=-6, 9-11=-16
Drag: 9-11=0
Concentrated Loads (lb)
Vert: 24=-2000(B) 12=-2000(B) 27=-97(F) 28=-97(F) 29=-97(F) 30=-97(F) 31=-97(F) 32=-97(F) 33=-97(F) 34=-97(F) 35=-97(F) 36=-97(F) 37=-97(F)

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Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R09	Piggyback Base Girder	1	2	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:27 2021 Page 1
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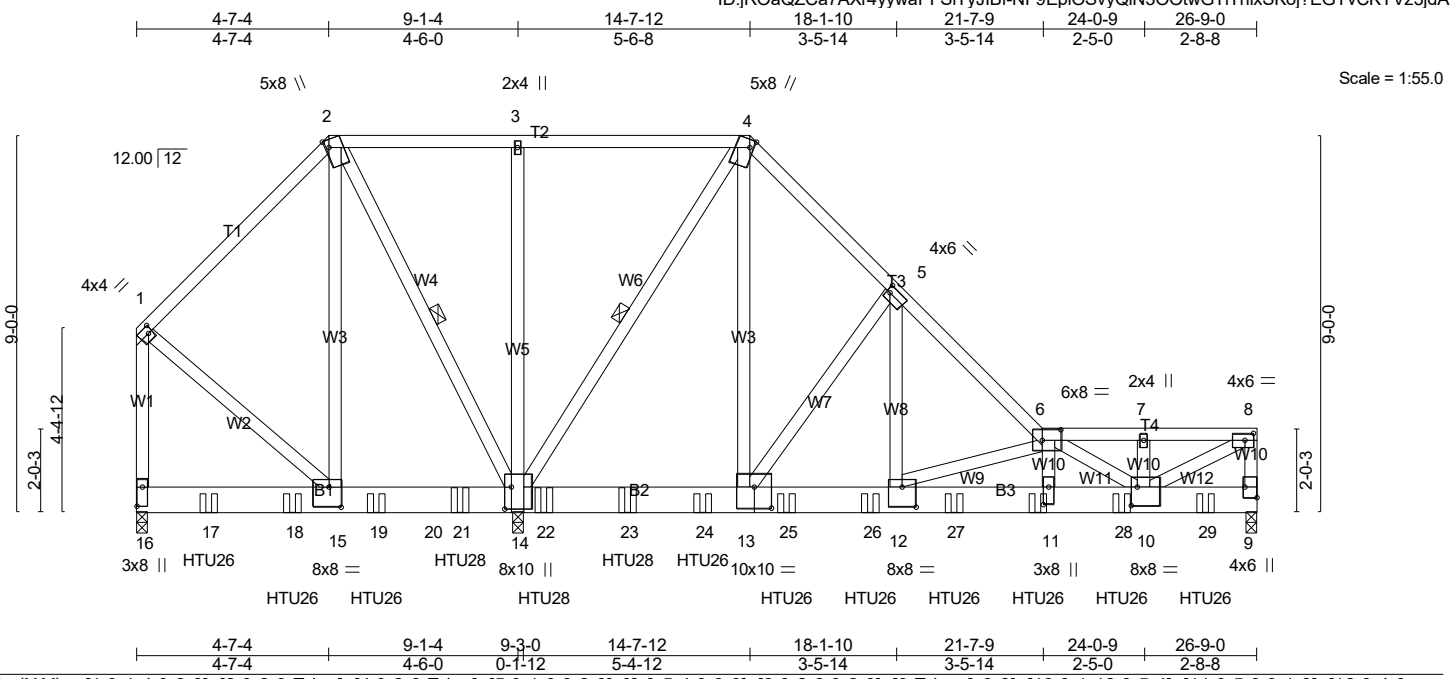


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [2:0-2-3,Edge], [4:0-2-3,Edge], [5:0-1-0,0-2-0], [6:0-5-4,0-3-0], [8:0-2-8,0-2-0], [9:Edge,0-3-8], [10:0-1-12,0-5-4], [11:0-5-0,0-1-8], [12:0-4-0,0-5-12], [13:0-5-0,0-6-0], [14:0-6-4,0-2-0], [15:0-3-8,0-5-12], [16:0-5-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.13	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.24	11-12	>857	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 481 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP No.2
WEBS 2x4 SP No.3 *Except*
W3,W4,W5,W12: 2x4 SP No.2, W6: 2x4 SP SS

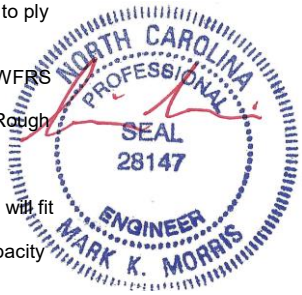
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15.
WEBS 1 Row at midpt 2-14, 4-14

REACTIONS. (lb/size) 9=4047/0-3-8 (min. 0-2-9), 16=-236/0-3-8 (min. 0-1-8), 14=14731/0-3-8 (min. 0-3-2)
Max Horz 16=-158(LC 11)
Max Uplift9=-433(LC 11), 16=-431(LC 30), 14=-1488(LC 11)
Max Grav 9=4355(LC 30), 16=95(LC 11), 14=15703(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-128/1230, 2-3=-282/3490, 3-4=-282/3490, 4-5=-669/120, 5-6=-3583/328, 6-7=-5554/536, 7-8=-5552/537, 8-9=-3421/354, 1-16=-173/1537
BOT CHORD 15-19=-757/276, 19-20=-757/276, 20-21=-757/276, 14-21=-757/276, 14-22=-97/548, 22-23=-97/548, 23-24=-97/548, 13-24=-97/548, 13-25=-192/2522, 25-26=-192/2522, 12-26=-192/2522, 12-27=-765/8143, 11-27=-765/8143, 11-28=-776/8286, 10-28=-776/8286
WEBS 2-15=-368/4243, 2-14=-5888/566, 3-14=-422/163, 4-14=-7383/774, 4-13=-660/6441, 5-13=-3559/497, 5-12=-443/4749, 6-12=-6141/648, 6-11=-124/1532, 6-10=-3241/283, 8-10=-606/6305, 1-15=-1135/191

NOTES- (17-18)
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: 2x8 - 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) 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; 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) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide metal plate or equivalent at bearing(s) 14 to support reaction shown.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=433, 16=431, 14=1488.

Continued on page 2



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Continued on page 2

Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

NOTES- (17-18)

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) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 7-9-8 oc max. starting at 1-8-12 from the left end to 13-6-4 to connect truss(es) R04 (1 ply 2x4 SP) to back face of bottom chord.
14) Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-8-12 from the left end to 11-8-12 to connect truss(es) R04 (1 ply 2x4 SP) to back face of bottom chord.
15) 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 15-6-4 from the left end to 25-6-4 to connect truss(es) R05 (1 ply 2x4 SP) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) 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.
18) 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: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 9-16=-20
   Concentrated Loads (lb)
   Vert: 11=-1127(B) 17=-1381(B) 18=-1381(B) 19=-1381(B) 21=-1381(B) 22=-1381(B) 23=-1381(B) 24=-1381(B) 25=-1127(B) 26=-1127(B) 27=-1127(B) 28=-1127(B) 29=-1127(B)

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R12	Monopitch	6	1	# 27092

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:28 2021 Page 1
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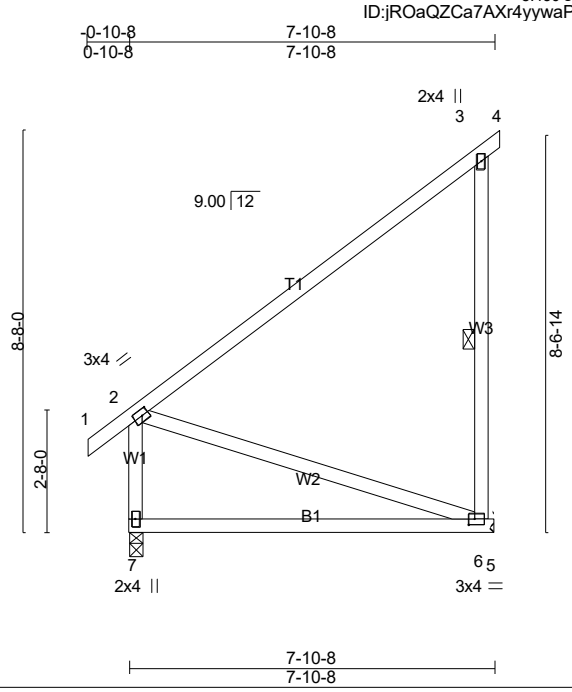

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [6:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.18	6-7	>484	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.37	6-7	>242	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 55 lb	FT = 0%
BCDL	10.0											

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 9-1-8 oc bracing.
WEBS 1 Row at midpt 3-6

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

REACTIONS. (lb/size) 6=324/Mechanical, 7=363/0-3-8 (min. 0-1-8)
Max Horz 7=203(LC 12)
Max Uplift 6=-216(LC 12)
Max Grav 6=370(LC 20), 7=363(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-263/272, 2-7=-289/0
BOT CHORD 6-7=-379/169
WEBS 2-6=-178/399

NOTES- (9-10)
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(2E) zone; end vertical left 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) 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.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=216.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R13	Monopitch	2	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:29 2021 Page 1
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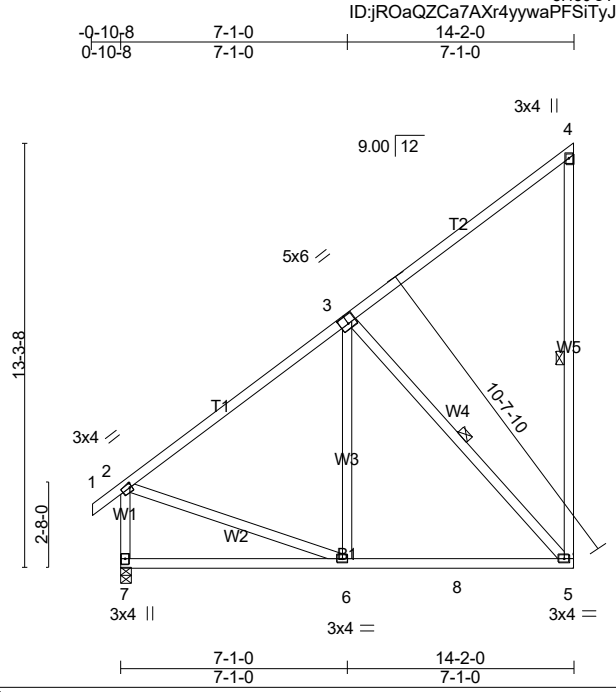

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [3:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.13	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.18	5-6	>902	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 108 lb	FT = 0%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-8 oc bracing.
WEBS 1 Row at midpt 4-5, 3-5

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

REACTIONS. (lb/size) 5=553/Mechanical, 7=619/0-3-8 (min. 0-1-8)
Max Horz 7=366(LC 12)
Max Uplift5=-315(LC 12)
Max Grav 5=708(LC 24), 7=619(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-517/0, 2-7=-563/0
BOT CHORD 6-7=-444/312, 6-8=-198/409, 5-8=-198/409
WEBS 3-6=-7/271, 3-5=-594/288, 2-6=-17/376

NOTES- (9-10)
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(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 9-2-10, Exterior(2E) 9-2-10 to 14-0-4 zone; end vertical left 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) 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.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=315.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R14	Monopitch	6	1	# 27092

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:29 2021 Page 1
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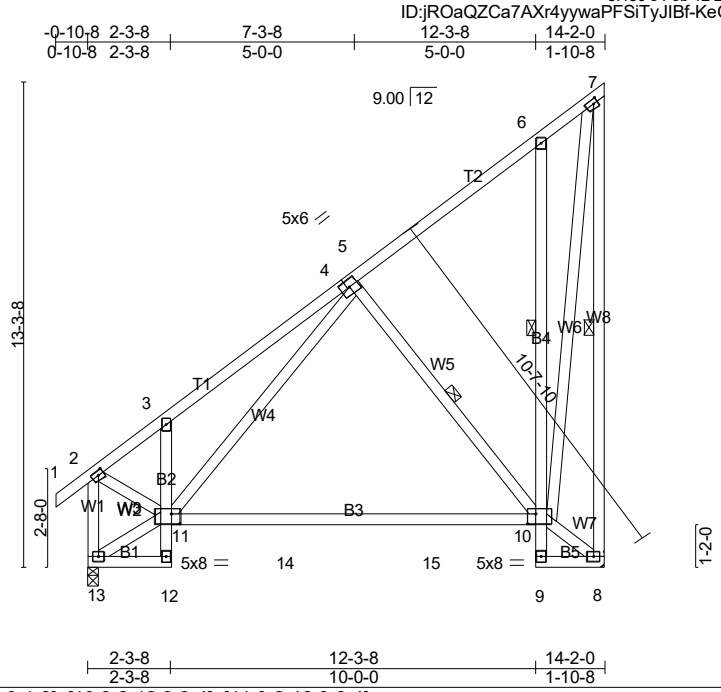

Scale = 1:63.2

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.49	10-11	>343	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.76	10-11	>218	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 143 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3, B3: 2x4 SP SS
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 6-0-0 oc bracing. Except:
1 Row at midpt 6-10
WEBS 1 Row at midpt 7-8, 5-10

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

REACTIONS. (lb/size) 8=553/Mechanical, 13=619/0-3-8 (min. 0-1-8)
Max Horz 13=366(LC 12)
Max Uplift8=-315(LC 12)
Max Grav 8=704(LC 20), 13=638(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-635/150, 3-4=-776/269, 4-5=-624/270, 7-8=-788/278, 2-13=-765/162
BOT CHORD 3-11=-263/175, 11-14=-229/379, 14-15=-229/379, 10-15=-229/379
WEBS 5-10=-405/297, 8-10=0/270, 7-10=-312/865, 2-11=-69/539, 5-11=-364/420, 11-13=-416/343

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(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 9-2-10, Exterior(2E) 9-2-10 to 14-0-4 zone; end vertical left 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) 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.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) 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) except (jt=lb) 8=315.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R15	Monopitch Supported Gable	1	1	# 27092

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:30 2021 Page 1
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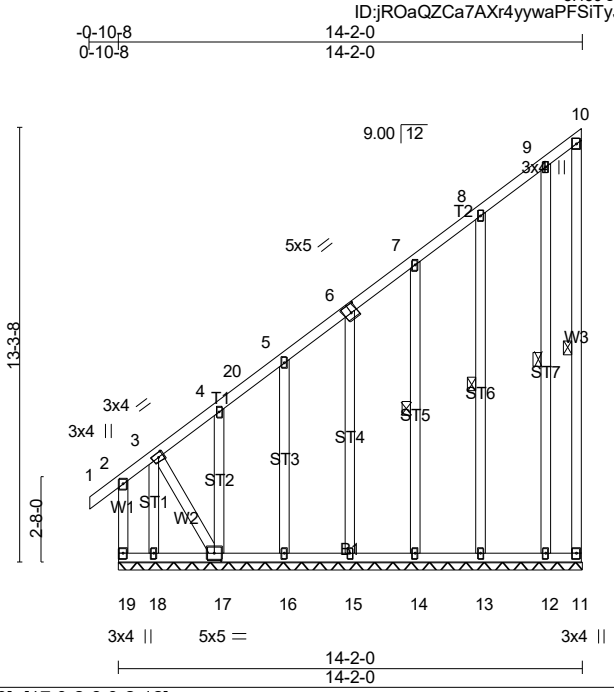


Plate Offsets (X,Y)-- [3:0-1-12,0-1-8], [6:0-2-8,0-3-0], [17:0-2-8,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	1	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	0.00	1	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.00	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 0%
BCDL	10.0											

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

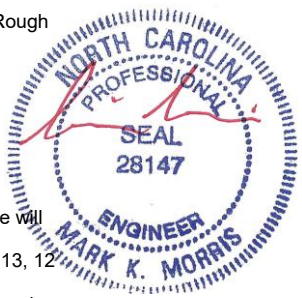
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,17-18.
WEBS 1 Row at midpt 10-11, 7-14, 8-13, 9-12

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

REACTIONS. All bearings 14-2-0.
(lb) - Max Horz 19=366(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 11, 15, 16, 14, 13, 12 except 17=-602(LC 12), 18=-224(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 19, 11, 12 except 15=258(LC 20), 16=266(LC 20), 17=395(LC 20), 18=660(LC 12), 14=260(LC 20), 13=272(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-535/245, 4-20=-462/200, 5-20=-458/214, 5-6=-373/171, 6-7=-293/132
BOT CHORD 18-19=-571/233, 17-18=-571/233
WEBS 3-18=-1111/399, 3-17=-434/1063

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 Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 9-1-0, Corner(3E) 9-1-0 to 14-0-4 zone; end vertical left 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 15, 16, 14, 13, 12 except (jt=lb) 17=602, 18=224.
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.



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Continued on page 2

Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R18	Piggyback Base Supported Gable	1	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:32 2021 Page 1
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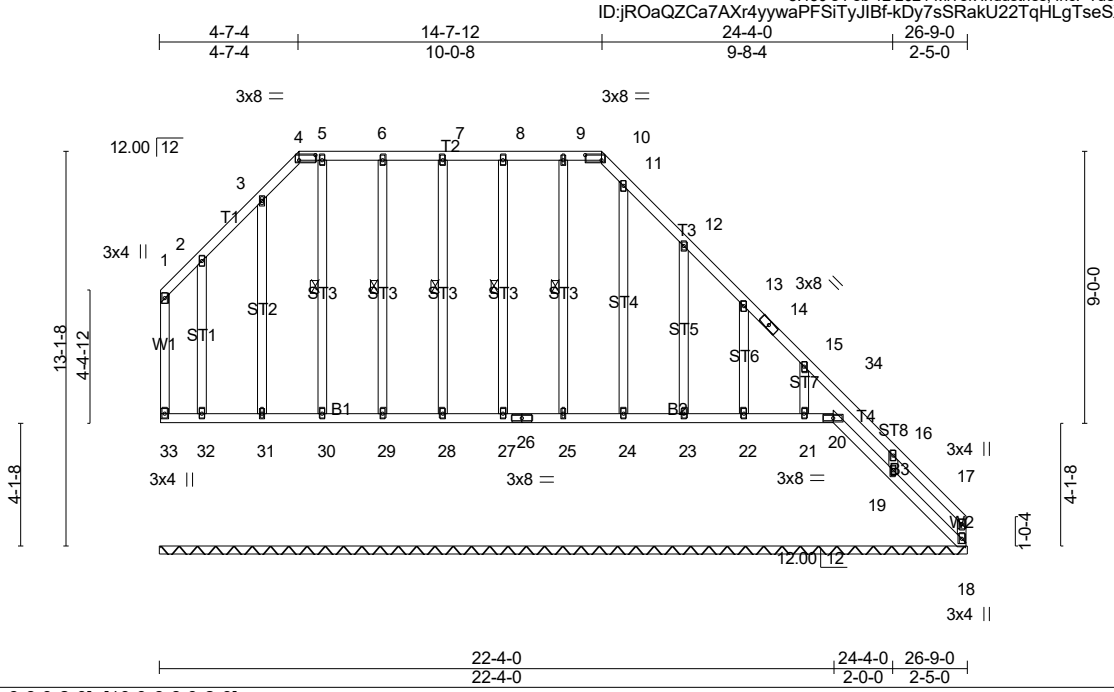


Plate Offsets (X,Y)-- [4:0-6-8,0-2-0], [10:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.02	18	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 211 lb	FT = 0%
BCDL	10.0											

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

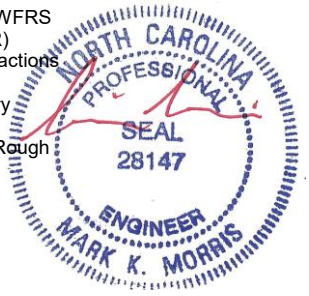
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20.
WEBS 1 Row at midpt 9-25, 8-27, 7-28, 6-29, 5-30

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

REACTIONS. All bearings 26-9-0.
(lb) - Max Horz 33=-339(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 33, 18, 25, 27, 28, 29, 30, 31, 24, 22 except 20=-180(LC 11), 32=-109(LC 12), 23=-123(LC 13), 21=-133(LC 13), 19=-348(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 33, 18, 27, 28, 29, 32, 22, 21 except 20=358(LC 13), 25=255(LC 21), 30=270(LC 21), 31=256(LC 19), 24=270(LC 20), 23=276(LC 20), 19=342(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-34=-266/174, 16-17=-477/305, 17-18=-351/198
BOT CHORD 32-33=-189/324, 31-32=-189/324, 30-31=-189/324, 29-30=-189/324, 28-29=-189/324, 27-28=-189/324, 26-27=-189/324, 25-26=-189/324, 24-25=-189/324, 23-24=-189/324, 22-23=-189/324, 21-22=-189/324, 20-21=-189/324, 19-20=-290/473, 18-19=-246/408
WEBS 16-19=-247/276

NOTES- (15-16)
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 Corner(3E) 0-1-12 to 4-7-4, Corner(3R) 4-7-4 to 9-4-8, Exterior(2N) 9-4-8 to 9-10-2, Corner(3R) 9-10-2 to 19-4-8, Exterior(2N) 19-4-8 to 21-9-10, Corner(3E) 21-9-10 to 26-7-4 zone;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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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.



6/21/2021

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Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

NOTES- (15-16)

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 18, 25, 27, 28, 29, 30, 31, 24, 22 except (jt=lb) 20=180, 32=109, 23=123, 21=133, 19=348.
13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 33, 20, 25, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 19.
14) 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.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R19	Piggyback Base	1	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:33 2021 Page 1
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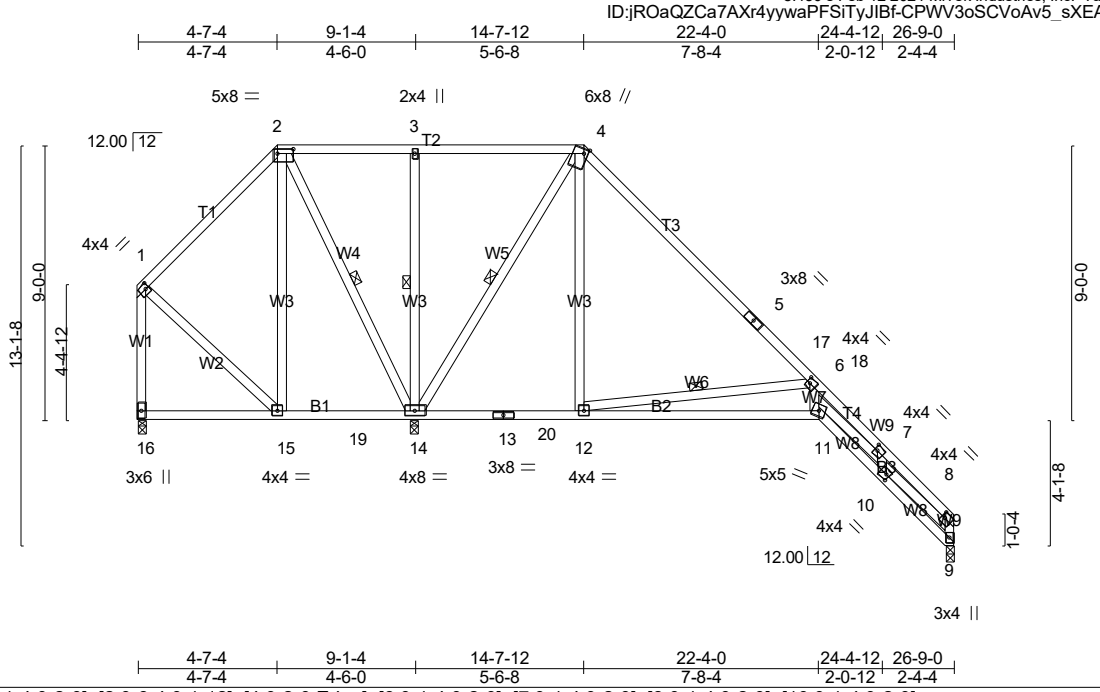

Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [2:0-6-4,0-1-12], [4:0-2-0,Edge], [6:0-1-4,0-2-0], [7:0-1-4,0-2-0], [8:0-1-4,0-2-0], [10:0-1-4,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.12	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.28	11-12	>760	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 0%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-14, 3-14, 4-14, 6-12

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

REACTIONS. (lb/size) 9=280/0-3-8 (min. 0-1-8), 16=-463/0-3-8 (min. 0-1-8), 14=2300/0-3-8 (min. 0-2-11)
Max Horz 16=-338(LC 13)
Max Uplift9=-58(LC 13), 16=-595(LC 30), 14=-203(LC 13)
Max Grav 9=281(LC 30), 16=67(LC 13), 14=2300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-35/559, 2-3=-4/823, 3-4=-4/823, 4-5=-45/502, 6-7=-1015/94, 7-8=-625/25, 8-9=-299/94, 1-16=-48/636
BOT CHORD 15-16=-197/333, 15-19=-437/396, 14-19=-437/396, 14-20=-315/341, 13-20=-315/341, 12-13=-315/341, 11-12=-48/668, 10-11=0/569
WEBS 2-15=-11/443, 2-14=-1094/121, 3-14=-350/155, 4-14=-1099/174, 4-12=0/397, 6-12=-960/373, 6-11=0/689, 7-11=-108/419, 8-10=0/394, 1-15=-481/94

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(2E) 0-1-12 to 4-7-4, Exterior(2R) 4-7-4 to 21-5-3, Interior(1) 21-5-3 to 21-9-10, Exterior(2E) 21-9-10 to 26-7-4 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=1.15 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) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 16=595, 14=203.
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.

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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R21	Common Supported Gable	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:34 2021 Page 1
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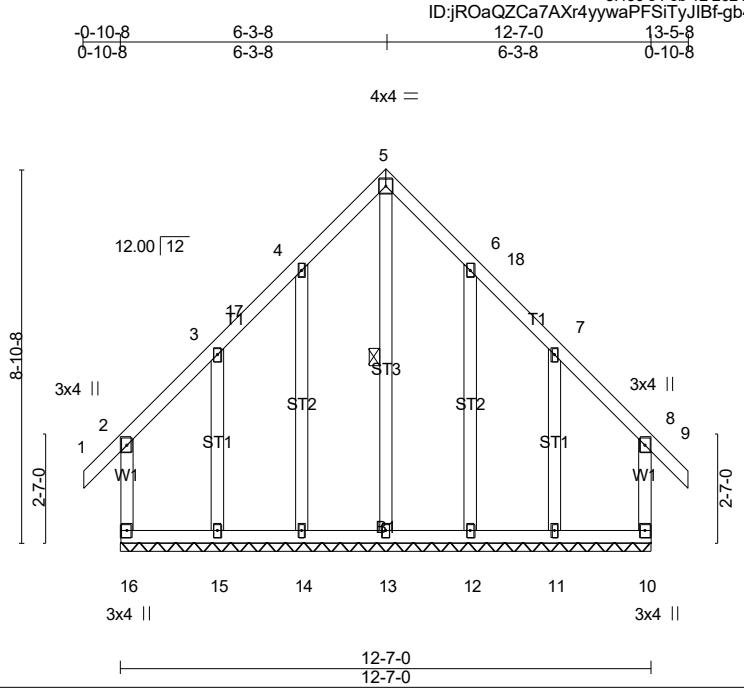


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.00	9	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.00	9	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.00	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 100 lb	FT = 0%
BCDL	10.0											

LUMBER-

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

BRACING-

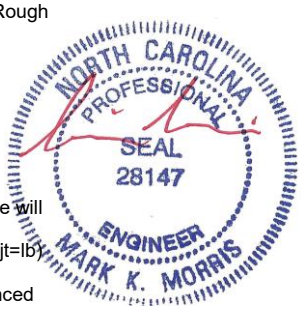
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-13

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

REACTIONS. All bearings 12-7-0.
(lb) - Max Horz 16=244(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=-190(LC 8), 10=-186(LC 9), 15=-216(LC 9), 11=-213(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 14, 12 except 16=259(LC 21), 10=256(LC 20), 13=337(LC 23), 15=365(LC 20), 11=363(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-192/281, 3-17=-151/399, 4-17=-125/405, 4-5=-208/529, 5-6=-208/529, 6-18=-125/405, 7-18=-151/399, 8-10=-190/281
WEBS 5-13=-652/186

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 Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-7-14, Corner(3E) 8-7-14 to 13-5-8 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) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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) 14, 12 except (jt=lb) 16=190, 10=186, 15=216, 11=213.
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.



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Continued on page 2

Warning - Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R22	Common	2	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:35 2021 Page 1
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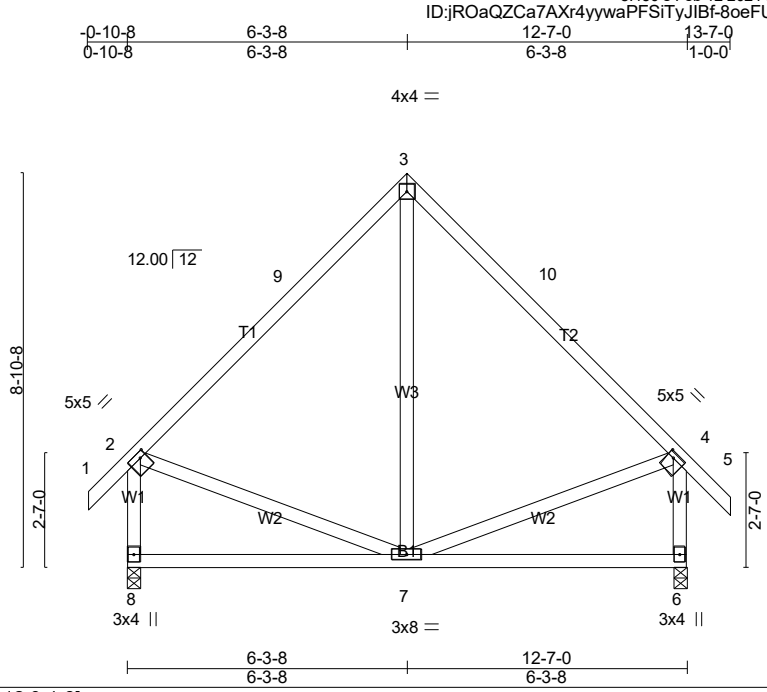


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 0%
BCDL	10.0											

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

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

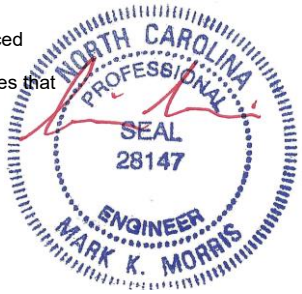
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=552/0-3-8 (min. 0-1-8), 6=561/0-3-8 (min. 0-1-8)
Max Horz 8=-246(LC 10)
Max Uplift8=-68(LC 13), 6=-69(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-412/163, 3-9=-261/183, 3-10=-266/183, 4-10=-412/163, 2-8=-497/187, 4-6=-506/192
BOT CHORD 7-8=-235/279

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(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 8-9-6, Exterior(2E) 8-9-6 to 13-7-0 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) 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 100 lb uplift at joint(s) 8, 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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R23	Monopitch Structural Gable	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:35 2021 Page 1
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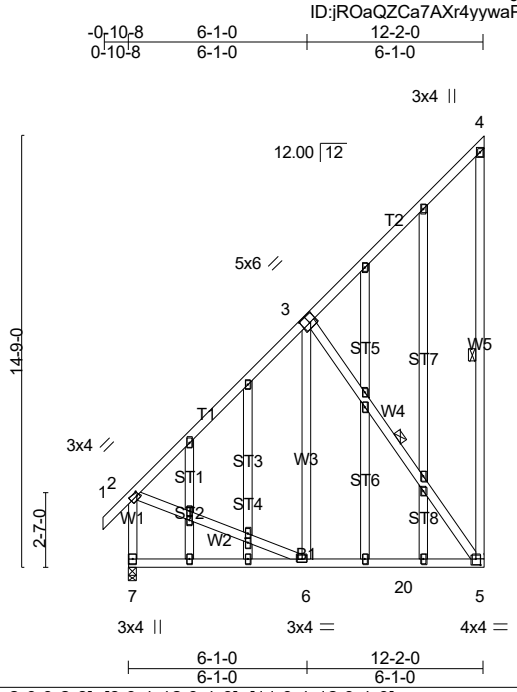

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [3:0-3-0,0-3-0], [5:0-2-0,0-2-8], [8:0-1-12,0-1-0], [11:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.12	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 153 lb	FT = 0%
BCDL	10.0											

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 7-5-15 oc bracing.
WEBS 1 Row at midpt 4-5, 3-5

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

REACTIONS. (lb/size) 5=472/Mechanical, 7=539/0-3-8 (min. 0-1-8)
Max Horz 7=427(LC 12)
Max Uplift5=-393(LC 12)
Max Grav 5=647(LC 20), 7=542(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-476/6, 2-7=-504/0
BOT CHORD 6-7=-558/351, 6-20=-211/292, 5-20=-211/292
WEBS 3-5=-496/359, 2-6=-94/374

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(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-2-10, Exterior(2E) 7-2-10 to 12-0-4 zone; end vertical left 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 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) 5=393.
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.

6/21/2021

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	R24	Monopitch	1	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:36 2021 Page 1
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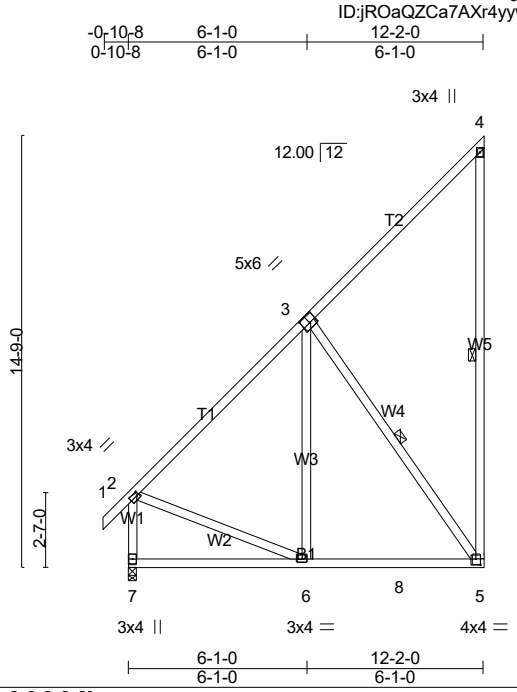


Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [3:0-3-0,0-3-0], [5:0-2-0,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.11	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH								
BCDL	10.0										Weight: 106 lb	FT = 0%

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

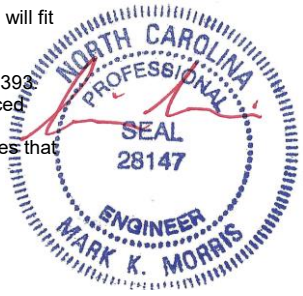
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-10 oc bracing.
WEBS 1 Row at midpt 4-5, 3-5

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

REACTIONS. (lb/size) 5=472/Mechanical, 7=539/0-3-8 (min. 0-1-8)
Max Horz 7=427(LC 12)
Max Uplift5=-393(LC 12)
Max Grav 5=647(LC 20), 7=542(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-476/6, 2-7=-504/0
BOT CHORD 6-7=-558/351, 6-8=-211/292, 5-8=-211/292
WEBS 3-5=-496/359, 2-6=-94/374

NOTES- (9-10)
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(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-2-10, Exterior(2E) 7-2-10 to 12-0-4 zone; end vertical left 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) 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.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=393.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT01	Valley	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:37 2021 Page 1
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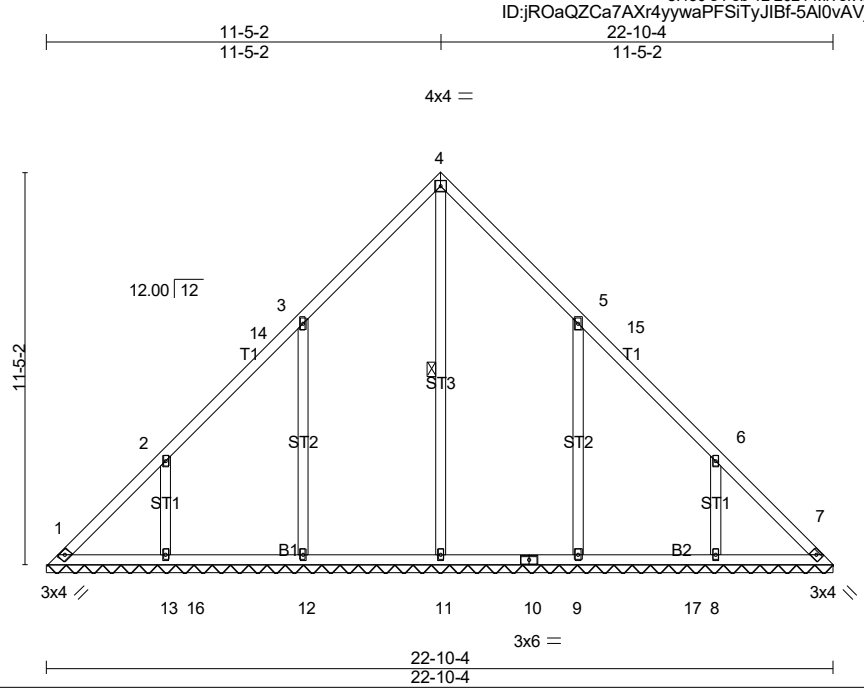

LOADING (psf)

TCLL (roof)	20.0
Snow (Pf)	20.0
TCDL	10.0
BCLL	0.0 *
BCDL	10.0

SPACING-	2-0-0
Plate Grip DOL	1.15
Lumber DOL	1.15
Rep Stress Incr	YES
Code	IRC2018/TPI2014

CSI.	
TC	0.21
BC	0.39
WB	0.29
Matrix-SH	

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a	999
Vert(CT)	n/a	-	n/a	999
Horz(CT)	0.01	7	n/a	n/a

PLATES	**GRIP**
MT20	244/190

Weight: 126 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 4-11

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

REACTIONS. All bearings 22-10-4.
(lb) - Max Horz 1=-254(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-225(LC 12), 13=-199(LC 12), 9=-225(LC 13), 8=-199(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=453(LC 22), 12=570(LC 19), 13=402(LC 19), 9=570(LC 20), 8=402(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-302/206, 6-7=-258/142
WEBS 3-12=-303/268, 2-13=-253/225, 5-9=-303/268, 6-8=-254/225

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(2E) 0-4-4 to 5-1-13, Interior(1) 5-1-13 to 6-7-8, Exterior(2R) 6-7-8 to 16-2-12, Interior(1) 16-2-12 to 17-8-7, Exterior(2E) 17-8-7 to 22-6-0 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=1.15 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) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=225, 13=199, 9=225, 8=199.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT02	Valley	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:38 2021 Page 1
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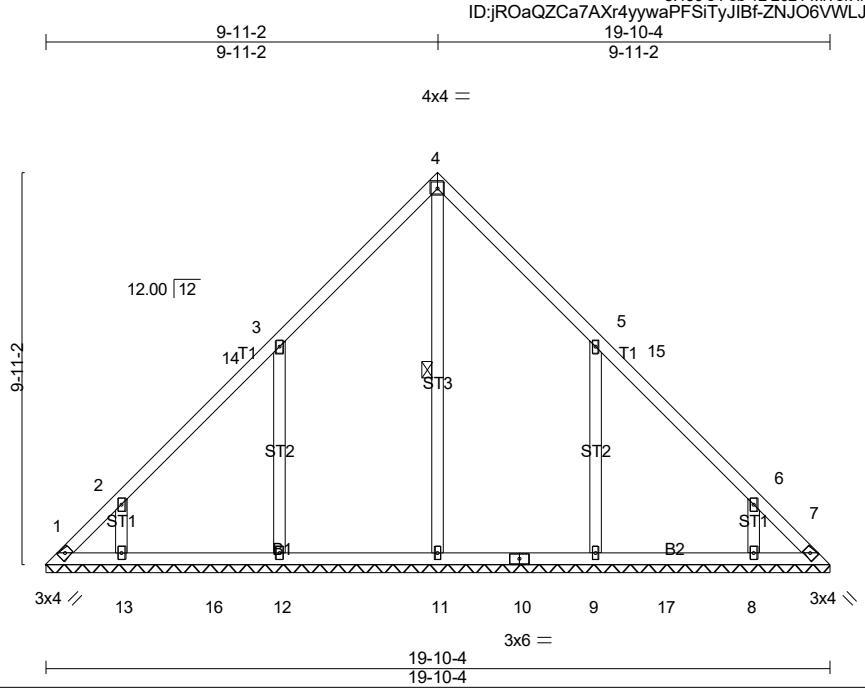


LOADING (psf)

TCLL (roof)	20.0
Snow (Pf)	20.0
TCDL	10.0
BCLL	0.0 *
BCDL	10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IRC2018/TPI2014

CSI.

TC	0.22
BC	0.39
WB	0.18
Matrix-SH	

DEFL.

	in	(loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a	999
Vert(CT)	n/a	-	n/a	999
Horz(CT)	0.01	7	n/a	n/a

PLATES MT20 **GRIP** 244/190

Weight: 104 lb FT = 0%

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

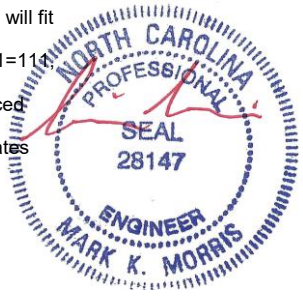
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11

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

REACTIONS. All bearings 19-10-4.
(lb) - Max Horz 1=220(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-111(LC 10), 12=-231(LC 12), 13=-166(LC 12), 9=-231(LC 13), 8=-166(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=445(LC 22), 12=548(LC 19), 13=298(LC 19), 9=548(LC 20), 8=299(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-297/189, 6-7=-260/134
WEBS 3-12=-308/272, 5-9=-308/272

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(2E) 0-4-4 to 5-1-13, Exterior(2R) 5-1-13 to 14-8-7, Exterior(2E) 14-8-7 to 19-6-0 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=1.15 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) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=111, 12=231, 13=166, 9=231, 8=166.
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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT03	Valley	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:38 2021 Page 1
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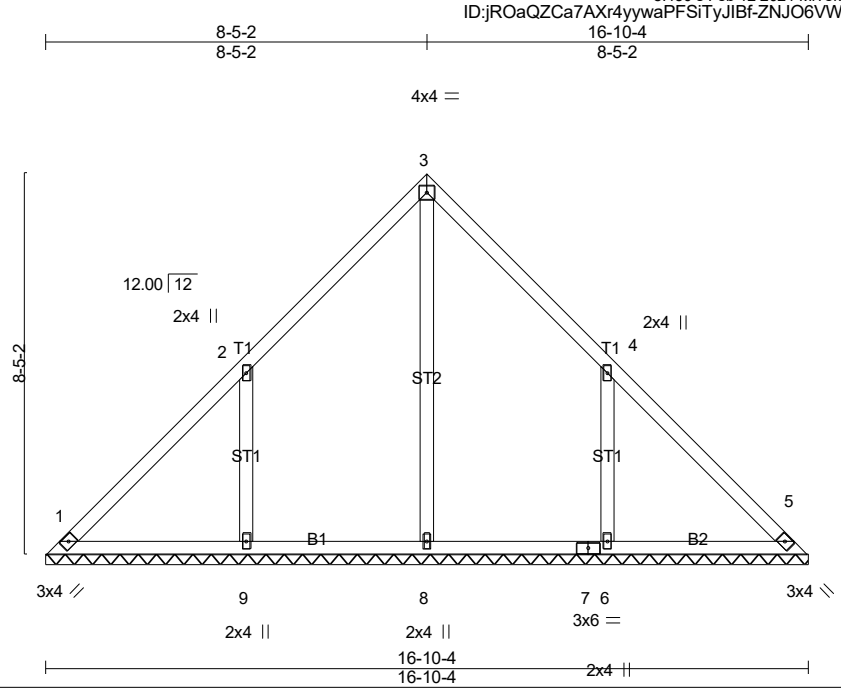


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 82 lb	FT = 0%
BCDL	10.0											

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.

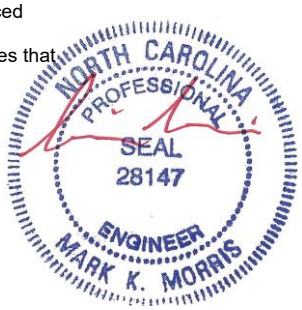
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-10-4.
(lb) - Max Horz 1=185(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-254(LC 12), 6=-254(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=433(LC 26), 9=514(LC 19), 6=514(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-354/279, 4-6=-354/278

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(2E) 0-4-4 to 5-1-13, Exterior(2R) 5-1-13 to 11-8-7, Exterior(2E) 11-8-7 to 16-6-0 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=1.15 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 except (jt=lb) 9=254, 6=254.
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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT04	Valley	1	1	Job Reference (optional) **# 27092**

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:39 2021 Page 1
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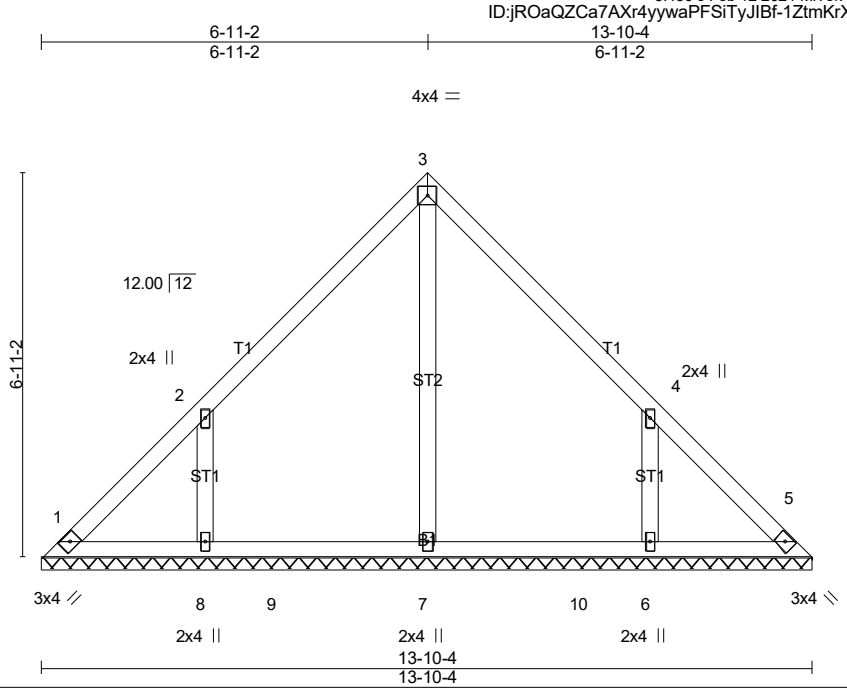


LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 65 lb	FT = 0%
BCDL	10.0											

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.

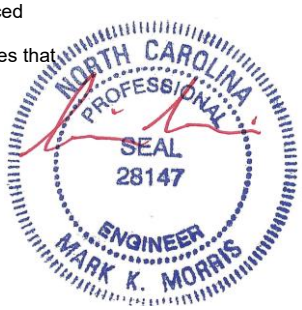
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-10-4.
(lb) - Max Horz 1=-151(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-210(LC 12), 6=-210(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=407(LC 22), 8=389(LC 19), 6=389(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-306/241, 4-6=-306/241

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(2E) 0-4-4 to 5-1-13, Exterior(2R) 5-1-13 to 8-8-7, Exterior(2E) 8-8-7 to 13-6-0 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=1.15 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=210, 6=210.
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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT05	Valley	1	1	# 27092
					Job Reference (optional)

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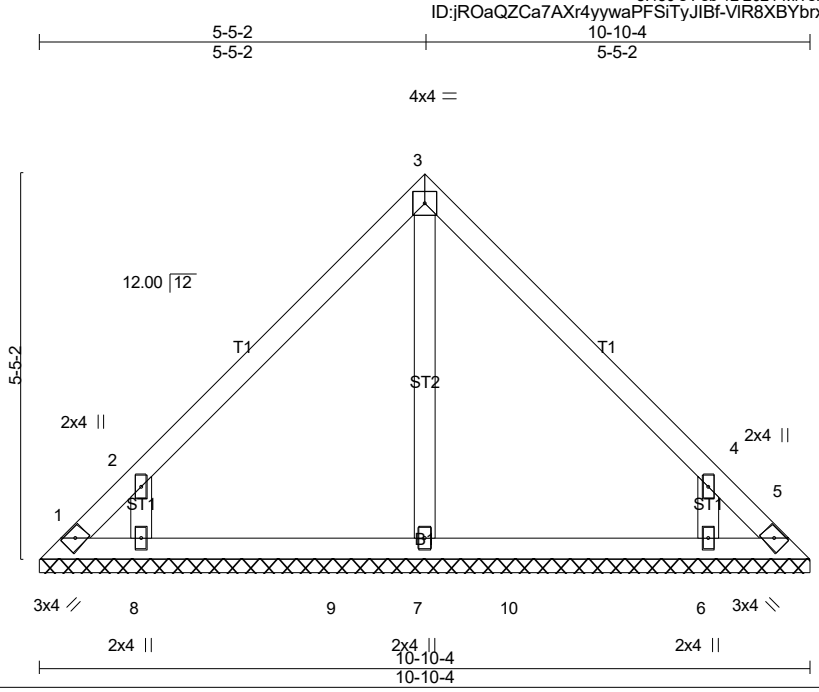


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 47 lb	FT = 0%
BCDL	10.0											

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.

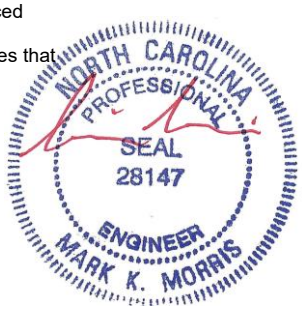
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-10-4.
(lb) - Max Horz 1=116(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-102(LC 10), 8=-212(LC 12), 6=-211(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=320(LC 19), 8=352(LC 19), 6=352(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-293/287, 4-6=-293/287

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(2E) 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=1.15 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) 5 except (jt=lb) 1=102, 8=212, 6=211.
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



6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT06	Valley	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:41 2021 Page 1
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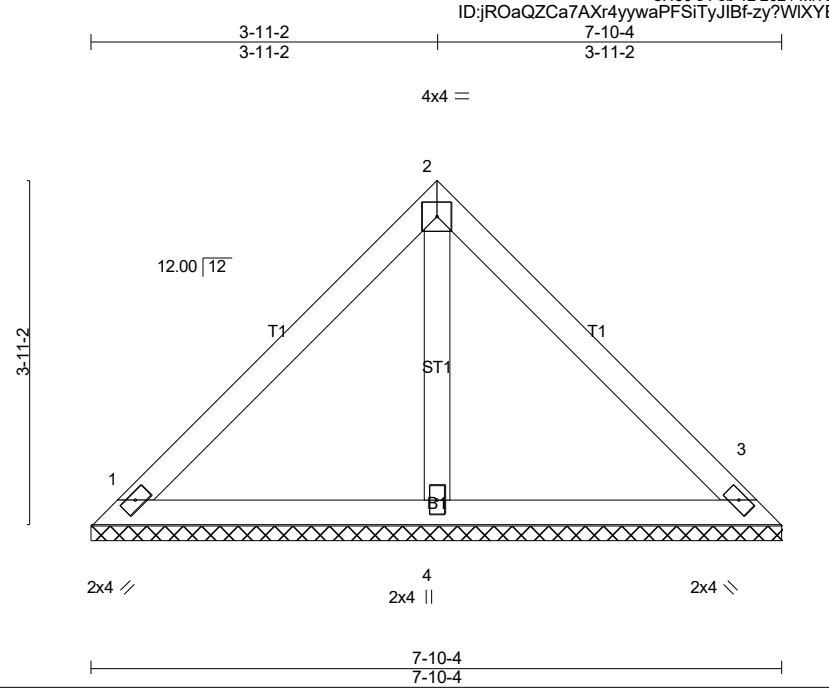

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 32 lb	FT = 0%
BCDL	10.0											

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=172/7-10-4 (min. 0-1-8), 3=172/7-10-4 (min. 0-1-8), 4=228/7-10-4 (min. 0-1-8)
Max Horz 1=-82(LC 8)
Max Uplift1=-44(LC 13), 3=-44(LC 13)

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(2E) 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=1.15 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 100 lb uplift at joint(s) 1, 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

6/21/2021

Job	Truss	Truss Type	Qty	Ply	LOT 1114 ANDERSON CREEK | 199 SCHOLAR DRIVE SPRING LAKE, NC
20-4569-R01	VT07	Valley	1	1	# 27092
					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jun 22 14:02:41 2021 Page 1
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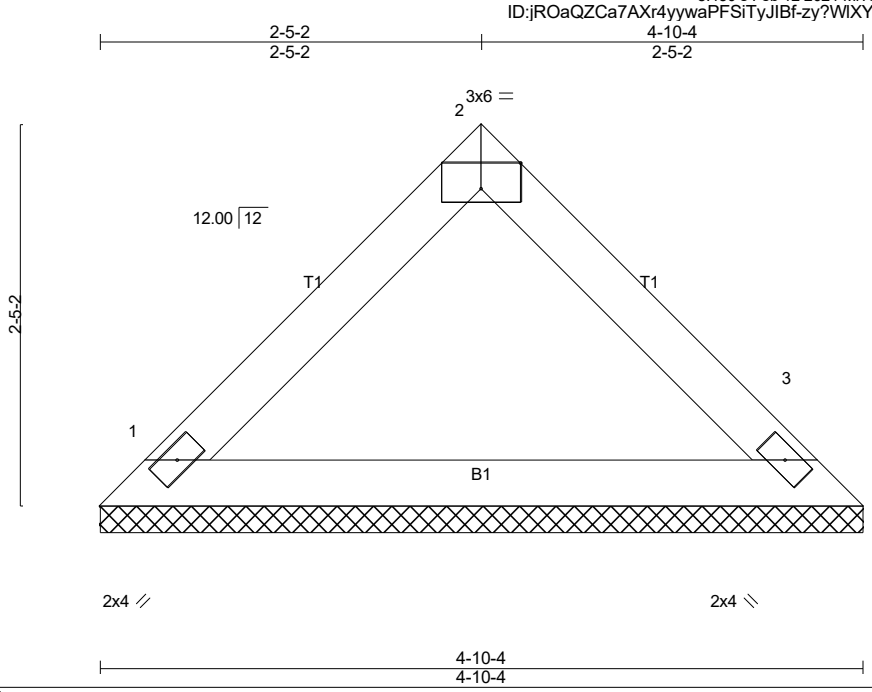


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 16 lb	FT = 0%
BCDL	10.0											

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

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

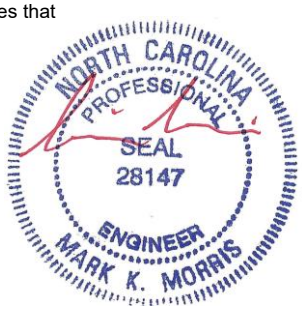
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=166/4-10-4 (min. 0-1-8), 3=166/4-10-4 (min. 0-1-8)
Max Horz 1=48(LC 9)
Max Uplift1=-17(LC 13), 3=-17(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(2E) 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=1.15 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 100 lb uplift at joint(s) 1, 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



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