

10401 Chapel Hill Rd
 Morrisville, NC 27560
 Ph. 919-467-9988
 Fax. 919-481-3255

DO210810
 BLACK CREEK
 32 THORNTON'S CREEK RD
 ERWIN, NC

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: DO210810
BLACK CREEK

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Truss Builders, Inc..

Pages or sheets covered by this seal: I47453442 thru I47453478

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



August 18, 2021

Johnson, Andrew

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: DO210810
BLACK CREEK

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Truss Builders, Inc..

Pages or sheets covered by this seal: I47477338 thru I47477338

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



August 17, 2021

Sevier, Scott

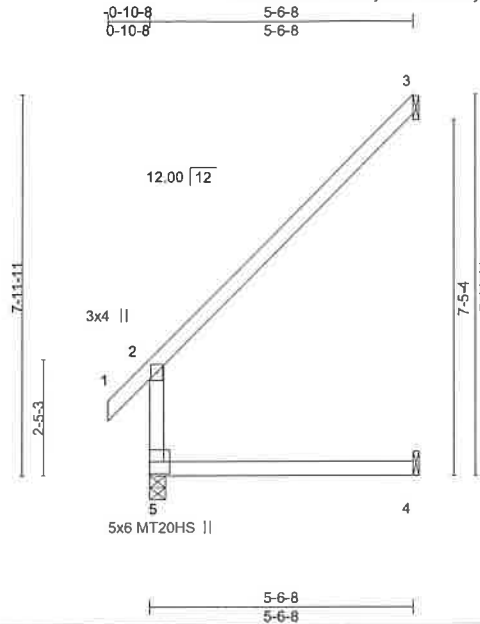
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job DO210810	Truss CJ1	Truss Type Jack-Open	Qty 5	Ply 1	BLACK CREEK Job Reference (optional)	I47453442
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:39 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-yzY1TVVPcOXvmRMWaescv73RoO9f6suEAupKn9yoFqE



Scale = 1:46.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) 0.12 4-5 >526 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 4-5 >592 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.36 3 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 25 lb	FT = 6%

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

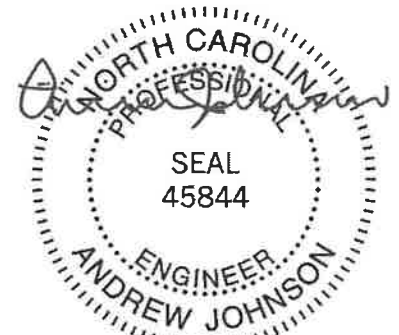
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=165(LC 10)
Max Uplift 3=145(LC 10), 4=22(LC 10)
Max Grav 5=280(LC 2), 3=172(LC 22), 4=104(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 15.0 psf on overhangs non-concurrent with other live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=145.



August 18, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

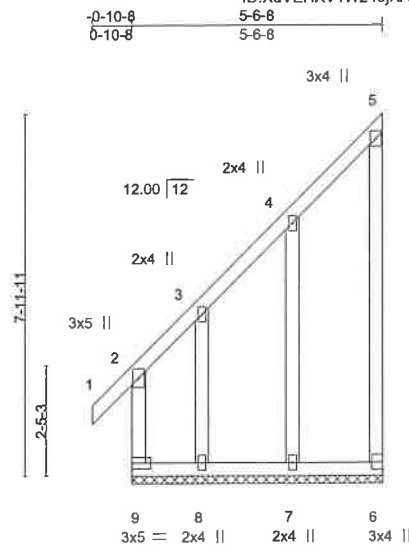


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK
DO210810	CJ1G2	Jack-Open Supported Gable	1	1	147453443

Truss Builders, Inc., Morrisville, NC - 27560.

8,430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:40 2021 Page 1
 Job Reference (optional)
 ID:XdVEHXV1W240JKARFW0Pu1yqv8U-Q96PgrW1NiNmNbx18LrSLcb6oanrlqNOYYuJbyoFqD



Scale: 1/4"=1'

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

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 0.74	Vert(LL)	0.00	2	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	0.00	2	n/r	120		
TCDL 10.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	6	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-R							
BCDL 10.0									Weight: 49 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 5-6-8.
 (lb) - Max Horz 9=231(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 9=216(LC 8), 8=376(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 6 except 9=425(LC 7), 7=261(LC 23), 8=346(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=264/170

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 15.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 9=216, 8=376.



August 18, 2021

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss CT1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	BLACK CREEK Job Reference (optional)	I47453445
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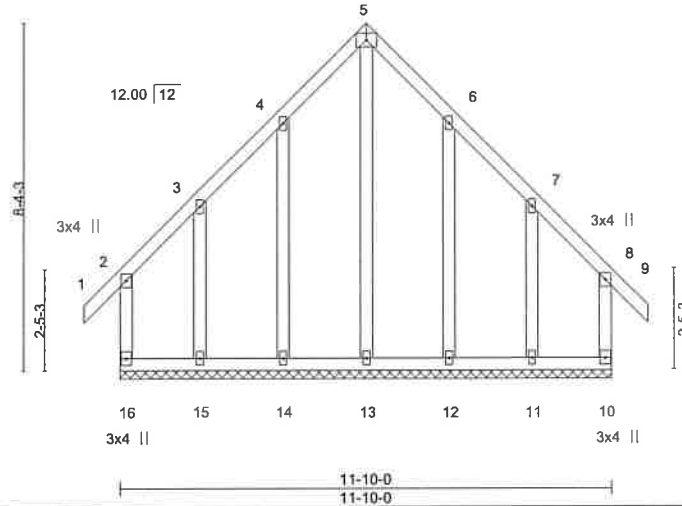
Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:47 2021 Page 1
ID:XdVEHXV1W240jKARFW0Pu1yqv8U-JW138EcQjsYnigz22J7UEpOshd?_Q_P?8lI3hyoFq6

-0-10-8 5-11-0 11-10-0 12-8-8
0-10-8 5-11-0 5-11-0 0-10-8

4x6 =

Scale = 1:52.8



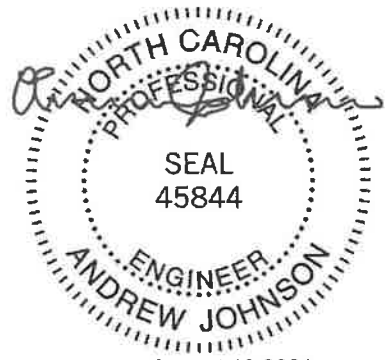
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) -0.00 9 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.00 9 n/r 120		
BCLL 0.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 10 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 93 lb	FT = 6%

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

REACTIONS. All bearings 11-10-0.
 (lb) - Max Horz 16=194(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=151(LC 6), 10=144(LC 7), 15=169(LC 7), 11=164(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 14, 12 except 13=280(LC 25), 15=305(LC 22), 11=301(LC 23)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 12 except (jt=lb) 16=151, 10=144, 15=169, 11=164.



Job DO210810	Truss CT1GT	Truss Type Common Girder	Qty 1	Ply 2	BLACK CREEK	147453446
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:48 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-BibRMac2U9geLqYFc1Wjm1xw80BQjYJYeUJb8yoFq5
 0-10-8 3-1-4 5-11-0 8-8-12 11-10-0 12-8-8
 0-10-8 3-1-4 2-9-12 2-9-12 3-1-4 0-10-8

4x6 =

Scale = 1:50.1

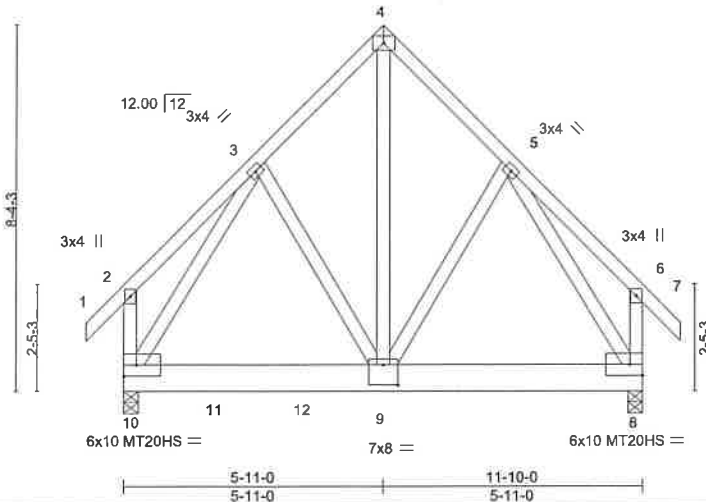


Plate Offsets (X,Y) = [9:0-4-0,0-5-8]

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 0.87	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.10	9-10	>999	180	MT20HS	187/143
TCDL 10.0	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.00	8	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MR							
BCDL 10.0									Weight: 226 lb	FT = 6%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-10,6-8: 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.

REACTIONS.

(size) 10=0-4-0, 8=0-4-0
 Max Horz 10=190(LC 32)
 Max Uplift 10=382(LC 11), 8=330(LC 10)
 Max Grav 10=3212(LC 2), 8=1673(LC 2)

FORCES.

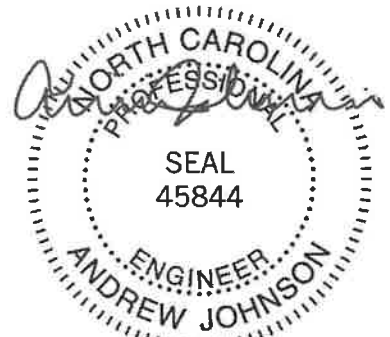
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=678/134, 3-4=1684/427, 4-5=1689/427, 2-10=623/129
 BOT CHORD 9-10=257/1056, 8-9=187/964
 WEBS 4-9=531/2102, 5-9=177/482, 3-9=172/365, 3-10=1265/310, 5-8=1893/331

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=382, 8=330.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1577 lb down and 60 lb up at 2-0-8, 1577 lb down and 60 lb up at 4-0-8, and 140 lb down and 76 lb up at 5-11-12, and 725 lb down and 530 lb up at 6-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



August 18, 2021

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818 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss CT1GT	Truss Type Common Girder	Qty 1	Ply 2	BLACK CREEK Job Reference (optional)	I47453446
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:48 2021 Page 2
ID:XdVEHXV1W240jKARFW0Pu1yqv8U-BibRMac2U9geLqYFc1Wjrm1xw80BQjqJYEoUJb8yoFq5

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-50, 2-4=-50, 4-6=-50, 6-7=-50, 8-10=-20

Concentrated Loads (lb)

Vert: 9=-652(B=-569) 11=-1349(B) 12=-1349(B)

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ENGINEERING BY
TRENCO
A MiTek Affiliate

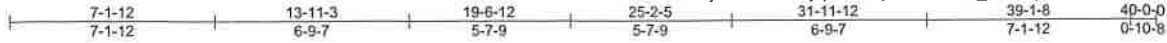
818 Soundside Road
Edenton, NC 27932

Job DO210810	Truss CT2	Truss Type Piggyback Base	Qty 3	Ply 1	BLACK CREEK	147453447
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITek Industries, Inc. Fri Aug 13 12:50:49 2021 Page 1

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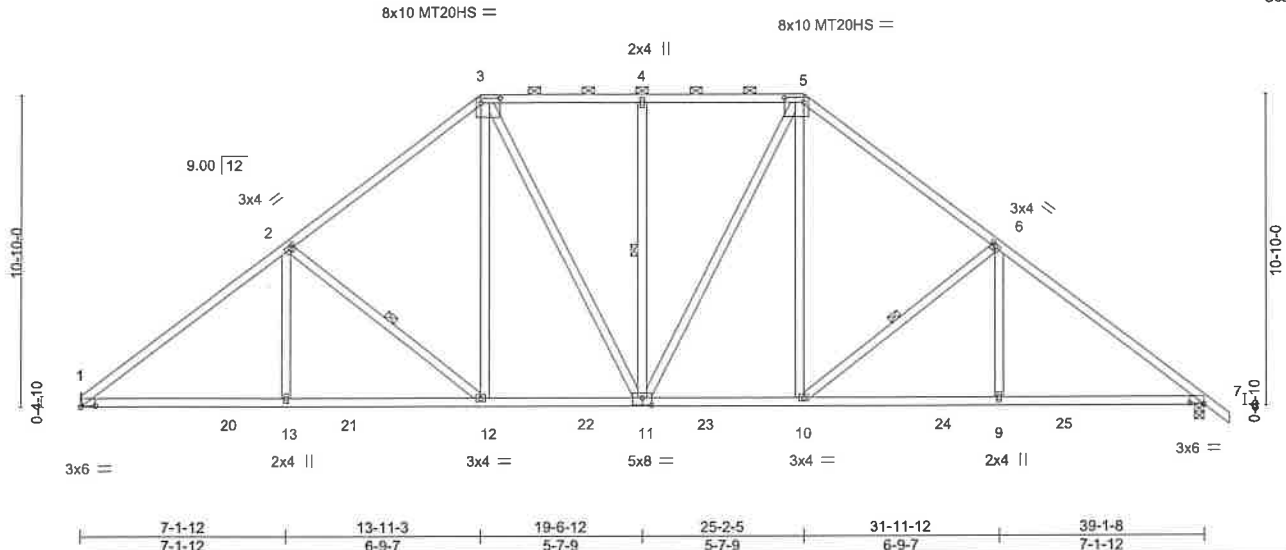


Plate Offsets (X,Y) -	[1:0-6-0,0-0-6], [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-8-0,0-2-0], [6:0-1-12,0-1-8], [7:0-6-0,0-0-6], [11:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.12 11-12 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.22 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.10 7 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014				Weight: 249 lb FT = 6%

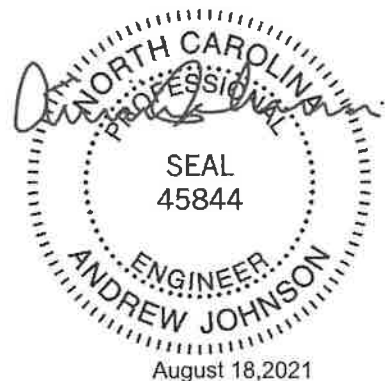
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=Mechanical, 7=0-4-0
 Max Horz 1=-211(LC 8)
 Max Uplift 1=-40(LC 10), 7=-52(LC 11)
 Max Grav 1=1597(LC 3), 7=1642(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=2377/81, 2-3=-1865/131, 3-4=-1527/118, 4-5=-1527/118, 5-6=-1865/131, 6-7=-2374/79
 BOT CHORD 1-13=-94/1898, 12-13=-94/1898, 11-12=0/1411, 10-11=0/1410, 9-10=0/1827, 7-9=0/1827
 WEBS 2-13=0/306, 2-12=633/158, 3-12=-16/582, 3-11=-123/370, 4-11=-338/118, 5-11=123/370, 5-10=-16/580, 6-10=-630/156, 6-9=0/305

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

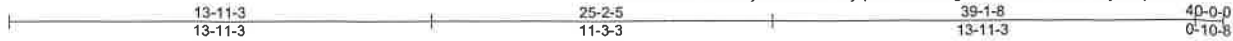


Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	CT2GE	GABLE	1	1		147453449

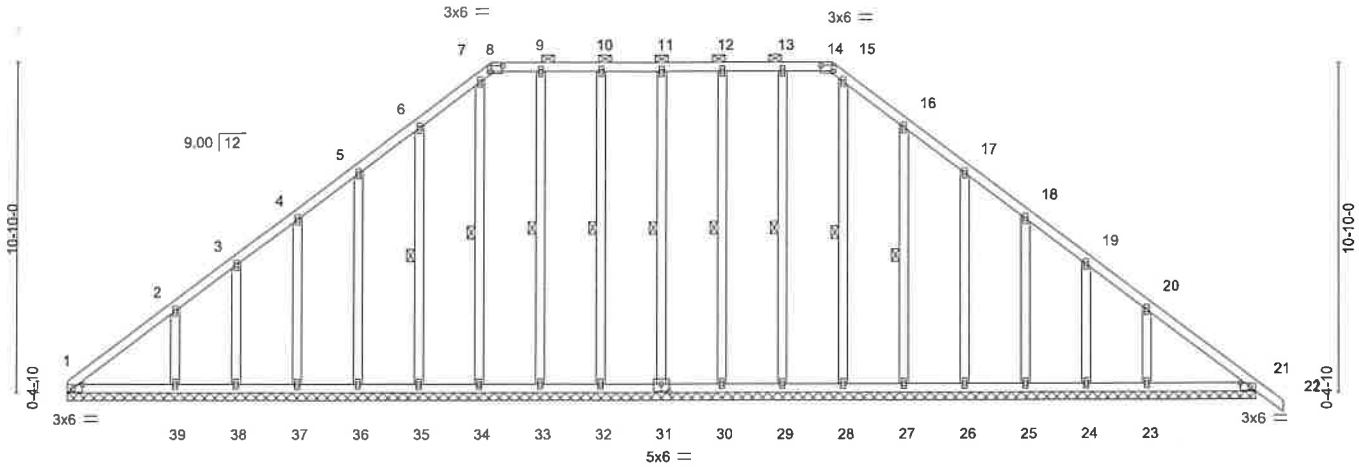
Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:53 2021 Page 1

ID:XdVEHXV1W240JKARFW0Pu1yqv8U-YFOKPIgBJilwRbRCPa6uT4ey614yOARIO3C4GLyoFq0



Scale = 1:72.1



39-1-8
39-1-8

Plate Offsets (X,Y)-- [1:0-3-13,0-1-8], [8:0-4-8,0-2-4], [14:0-4-8,0-2-4], [21:0-3-13,0-1-8], [31:0-3-0,0-3-0]

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 0.15	Vert(LL) 0.00	22	n/r	120	MT20	244/190	
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.10	Vert(CT) 0.01	22	n/r	120			
TCDL 10.0	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	21	n/a	n/a			
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-R							
BCDL 10.0									

Weight: 317 lb FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 8-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-31, 10-32, 9-33, 7-34, 6-35, 12-30, 13-29, 15-28, 16-27

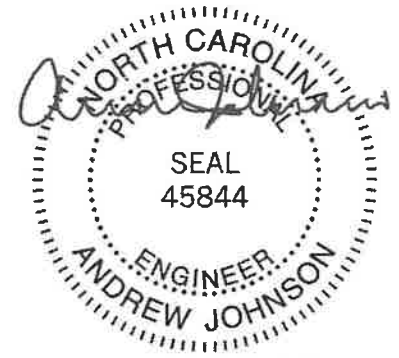
REACTIONS.

All bearings 39-1-8.
(lb) - Max Horz 1=212(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 31, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 1, 31, 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, 24, 21 except 39=299(LC 22), 23=285(LC 23)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 31, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 18, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

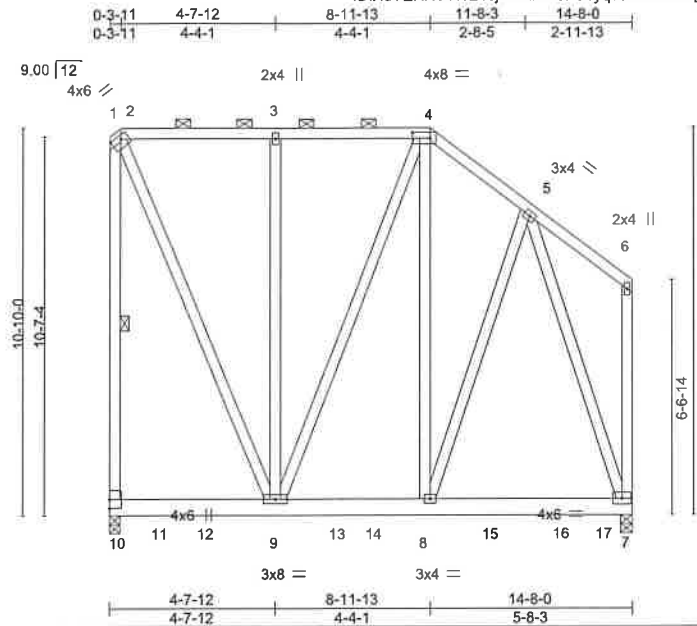
TRENCO
ENGINEERING BY
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job DO210810	Truss CT2GT	Truss Type Piggyback Base Girder	Qty 1	Ply 2	BLACK CREEK	147453450
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Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:55 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-U2W4q_iRrJYehvabW78MZVkBwrj6s0sarNhBLEyoFq_



Scale = 1:61.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) -0.03 7-8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.05 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 340 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 10=0-3-8, 7=0-4-0
Max Horz 7=299(LC 6)
Max Uplift 10=504(LC 6), 7=336(LC 11)
Max Grav 10=1772(LC 44), 7=1600(LC 45)

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

TOP CHORD 1-2=896/269, 2-3=557/191, 3-4=557/191, 4-5=799/232, 1-10=-1263/367
BOT CHORD 8-9=285/681, 7-8=-274/503
WEBS 2-9=-396/1341, 3-9=-324/128, 4-9=-304/155, 4-8=-217/589, 5-8=-215/671, 5-7=-1230/287

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 10=504, 7=336.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 307 lb down and 99 lb up at 0-7-4, 305 lb down and 104 lb up at 2-7-4, 324 lb down and 104 lb up at 4-7-4, 304 lb down and 104 lb up at 6-7-4, 307 lb down and 104 lb up at 8-7-4, and 305 lb down and 104 lb up at 10-7-4, and 302 lb down and 104 lb up at 12-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



August 18, 2021

LOAD CASE(S) Standard

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	I47453450
DO210810	CT2GT	Piggyback Base Girder	1	2	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:55 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-4=-50, 4-6=-50, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-216(B) 8=-216(B) 11=-221(B) 12=-216(B) 14=-216(B) 15=-216(B) 16=-216(B)

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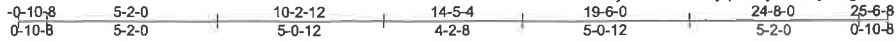
818 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss CT3	Truss Type Piggyback Base	Qty 14	Ply 1	BLACK CREEK	I47453451
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:56 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-yE4T1J4bdgV129n4ifb5jGRVF2ZbSek41QksyoFpz



6x10 MT20HS =

Scale = 1:66.5

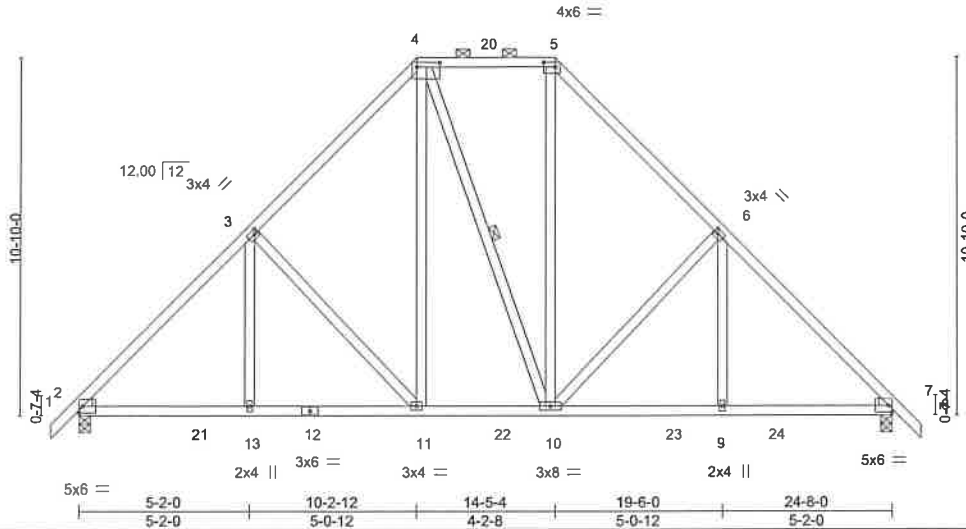


Plate Offsets (X,Y)=[3:0-1-4,0-1-8], [4:0-8-4,0-1-12], [5:0-4-4,0-1-12], [6:0-1-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.03	10-11	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	11-13	>999	180	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.03	7	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-MR						
BCDL 10.0								Weight: 175 lb FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-4-0, 7=0-4-0
 Max Horz 2=-216(LC 8)
 Max Uplift 2=-20(LC 10), 7=-20(LC 11)
 Max Grav 2=1045(LC 3), 7=1039(LC 2)

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

TOP CHORD 2-3=-1215/37, 3-4=-922/120, 4-5=-585/137, 5-6=-919/120, 6-7=-1203/37
 BOT CHORD 2-13=-59/914, 11-13=-59/914, 10-11=-4/653, 9-10=0/792, 7-9=0/792
 WEBS 3-11=-385/158, 4-11=-55/424, 5-10=-52/392, 6-10=-380/159

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 18, 2021

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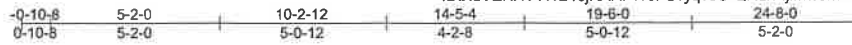
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	CT3A	Piggyback Base	5	1		147453452

Truss Builders, Inc., Morrisville, NC - 27560.

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Job Reference (optional)



6x10 MT20HS =

Scale = 1:66.5

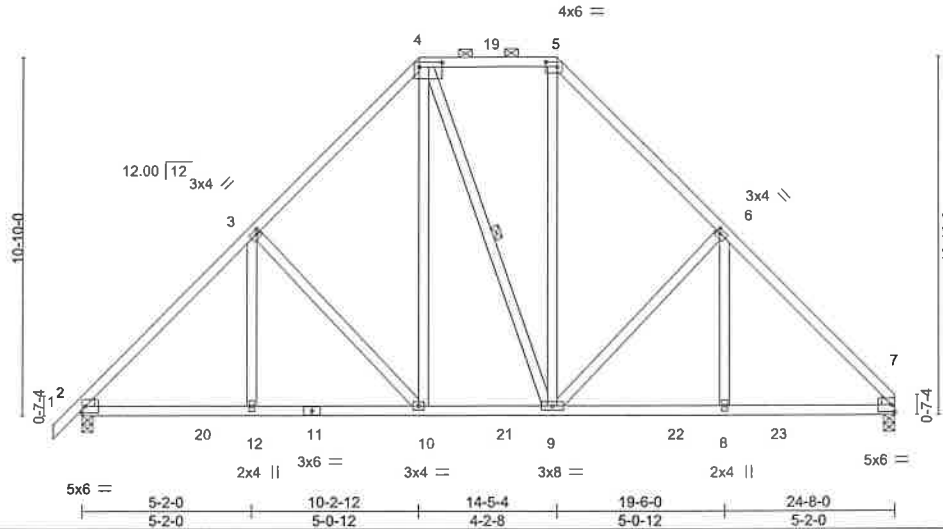


Plate Offsets (X, Y) - [3:0-1-4, 0-1-8], [4:0-8-4, 0-1-12], [5:0-4-4, 0-1-12], [6:0-1-4, 0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.03 9-10 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.41	Vert(CT) -0.07 10-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 173 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-4-0, 7=0-4-0
 Max Horz 2=210(LC 7)
 Max Uplift 2=-20(LC 10), 7=-7(LC 11)
 Max Grav 2=1045(LC 3), 7=992(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=1216/37, 3-4=-923/121, 4-5=-585/138, 5-6=-921/120, 6-7=-1207/39
 BOT CHORD 2-12=-71/906, 10-12=-71/906, 9-10=-11/645, 8-9=0/795, 7-8=0/795
 WEBS 3-10=-385/158, 4-10=-55/424, 5-9=-52/393, 6-9=-384/161

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



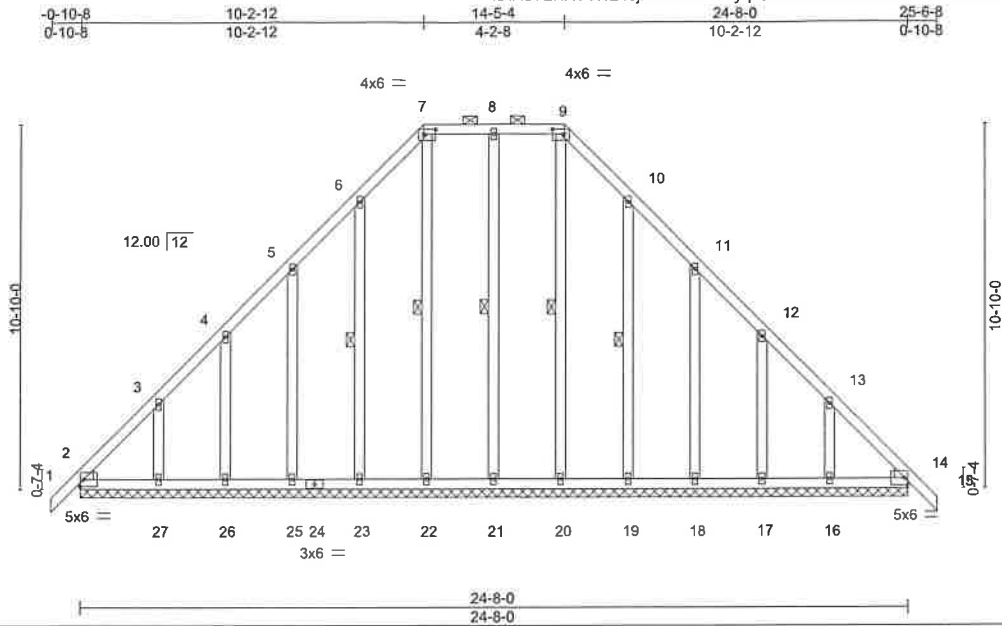
818 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss CT3GE	Truss Type GABLE	Qty 1	Ply 1	BLACK CREEK Job Reference (optional)	I47453453
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:50:58 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-vdBDS?kK7EwDYMJAC7h3A8Lqz2ol3Rs1XLvrxZyoFpx



Scale = 1:65.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 14 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Vert(CT) 0.00 14 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.01 14 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 201 lb	FT = 6%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-21, 7-22, 6-23, 9-20, 10-19

REACTIONS. All bearings 24-8-0.
(lb) - Max Horz 2=-216(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 23, 25, 26, 19, 18, 17, 14 except 27=-108(LC 10), 16=-104(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 25, 26, 27, 20, 19, 18, 17, 14, 16

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); PF=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 23, 25, 26, 19, 18, 17, 14 except (t=lb) 27=108, 16=104.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 18, 2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	CT4	Piggyback Base Structural Gable COMMON	5	1		147453454
					Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560.

8.430 s Jun 2 2021 MiTek Industries, inc. Fri Aug 13 12:50:59 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-NplbfLlyuY249WuMlqDjLutNSzJqQSAm?OT?yoFpw



Scale: 3/16"=1'

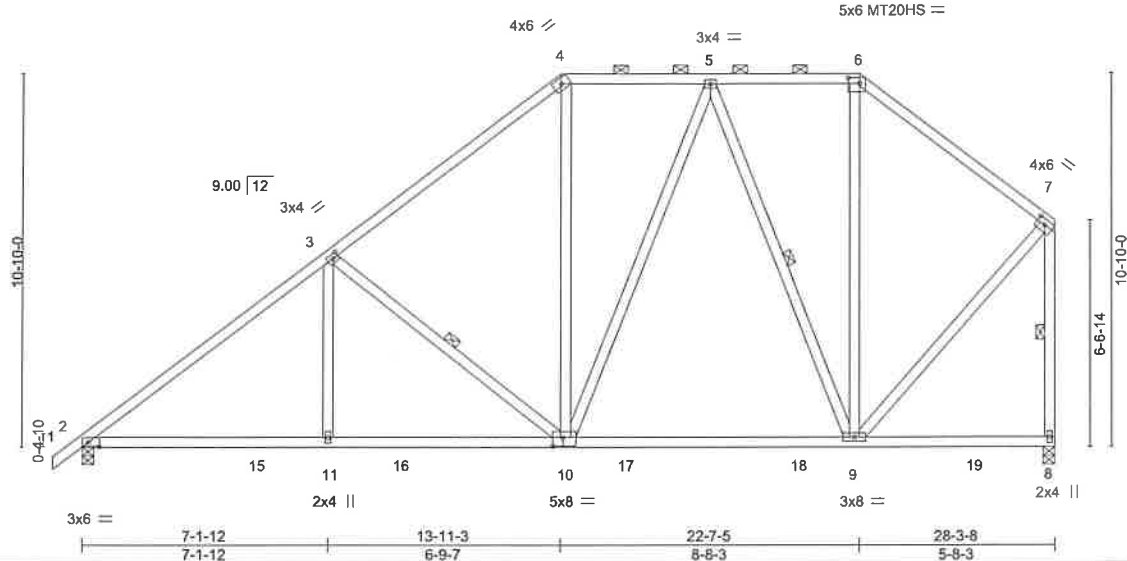


Plate Offsets (X,Y) - [2:0-3-13,0-1-8], [3:0-1-12,0-1-8], [6:0-4-0,0-2-0], [7:0-3-0,0-1-12], [10:0-3-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.61	Vert(LL) -0.23	9-10	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.35	9-10	>957	180	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.04	8	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-MR						
BCDL 10.0							Weight: 198 lb	FT = 6%

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 3-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-10, 5-9, 7-8

REACTIONS.

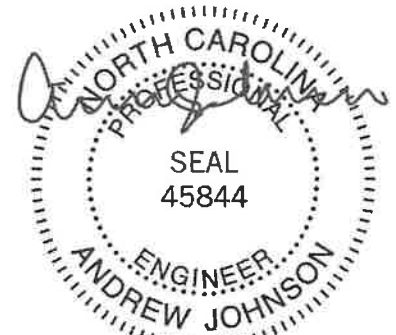
(size) 2=0-4-0, 8=0-4-0
 Max Horz 2=277(LC 9)
 Max Uplift 2=50(LC 10), 8=14(LC 11)
 Max Grav 2=1188(LC 22), 8=1179(LC 3)

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

TOP CHORD 2-3=1607/78, 3-4=1115/125, 4-5=805/153, 5-6=530/98, 6-7=739/100, 7-8=1099/39
 BOT CHORD 2-11=114/1322, 10-11=114/1322, 9-10=87/702
 WEBS 3-11=0/288, 3-10=615/161, 4-10=0/329, 5-10=63/371, 5-9=520/102, 7-9=26/767

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 18, 2021

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	CT5	Piggyback Base	1	1		147453455

Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:00 2021 Page 1
 ID:XdVEHXV1W240jKARFW0Pu1yqv8U-r0JzthmafrBxngTYJYKXGZRySslAXDwJ?IOx?RyoFpv

0-10-8 7-3-3 14-4-0 21-3-0 28-3-13 29-1-8 35-6-1 42-3-0 43-1-8
 0-10-8 7-3-3 7-0-13 6-11-1 7-0-13 0-9-11 6-4-9 6-8-15 0-10-8

Scale = 1:77.1

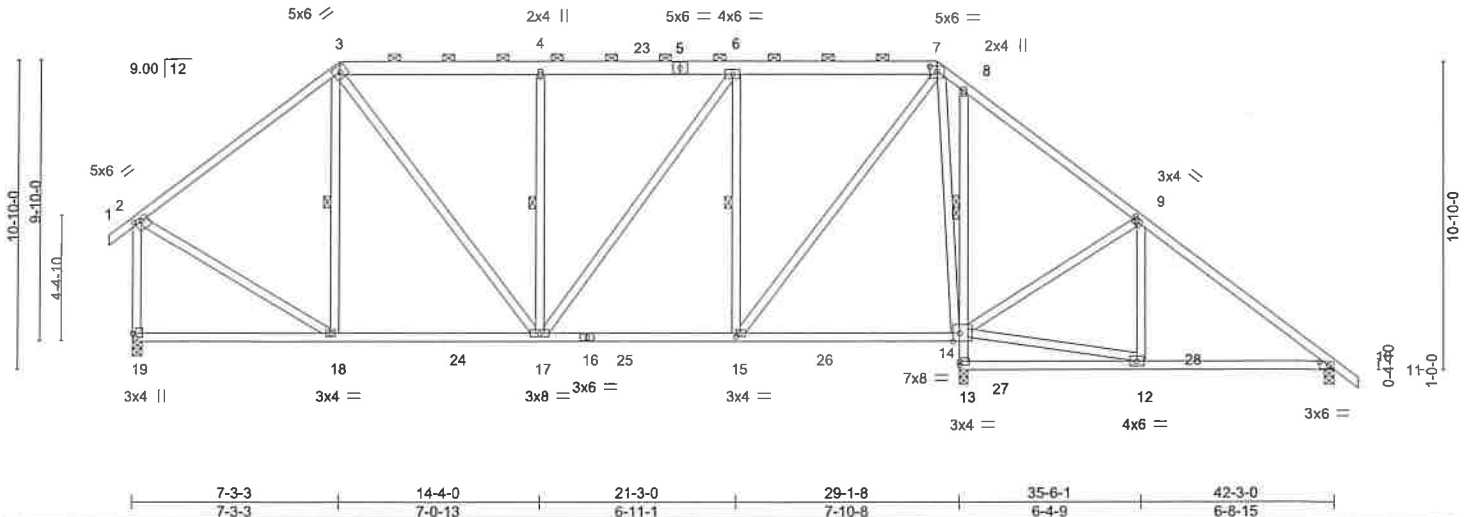


Plate Offsets (X,Y)- [2:0-3-0,0-1-8], [7:0-3-0,0-2-2], [9:0-1-12,0-1-8], [10:0-3-13,0-1-8], [14:0-2-12,Edge], [15:0-1-12,0-1-8], [19:0-1-12,0-1-4]

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	0.91	0.10	17-18	>999	240	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.77	0.17	14-15	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	0.02	13	n/a	n/a	
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MR						
BCDL	10.0									Weight: 319 lb FT = 6%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 5-7,3-5: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD	2x4 SP No.2 *Except* 8-13: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-11-1 oc bracing: 13-14 6-0-0 oc bracing: 12-13.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 8-14 1 Row at midpt 4-17, 6-15, 7-14, 3-18

REACTIONS. (size) 13=0-3-8, 10=0-4-0, 19=0-4-0
 Max Horz 19=248(LC 8)
 Max Uplift 13=31(LC 11), 10=61(LC 11), 19=71(LC 10)
 Max Grav 13=1835(LC 3), 10=519(LC 27), 19=1219(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=976/106, 3-4=933/132, 4-6=932/131, 6-7=757/132, 9-10=505/94,
 2-19=1149/104
 BOT CHORD 17-18=121/762, 15-17=126/756, 13-14=1789/70, 8-14=332/119, 10-12=0/325
 WEBS 4-17=440/152, 6-17=56/328, 6-15=721/157, 7-15=81/1150, 7-14=1061/137,
 12-14=0/448, 9-14=506/153, 3-17=139/431, 2-18=46/765

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 10, 19.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

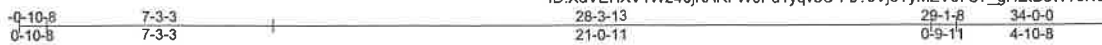


Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147453457
DO210810	CT5GE	GABLE	1	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

6.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:03 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-Fb?6VjoTymZVe7C7_gHEtB3W?3N6kgVmhdccmoyFps



Scale = 1:70.0

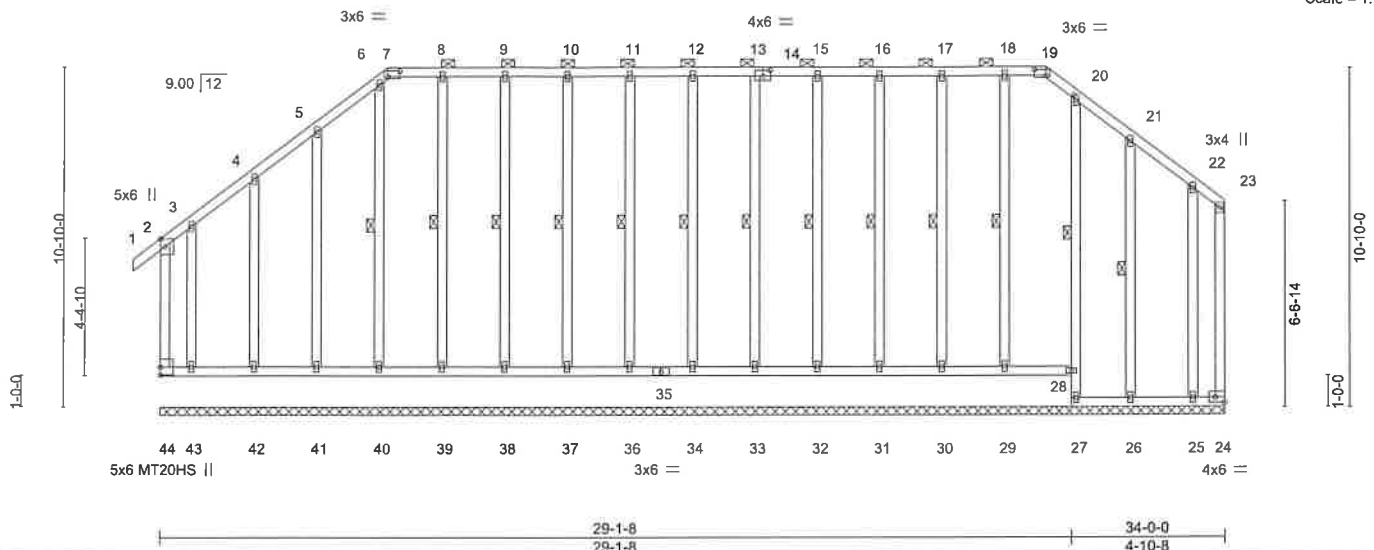


Plate Offsets (X,Y)- [2:0-3-0,0-1-12], [7:0-4-8,0-2-4], [14:0-2-12,0-2-4], [19:0-4-8,0-2-4], [20:0-2-0,0-0-12], [24:Edge,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) 0.00 1 n/r 120	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.00 2 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.01 24 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 338 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-19.
BOT CHORD 2x4 SP No.2 *Except* 20-27: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 27-28.
WEBS 2x4 SP No.2 *Except* 23-24: 2x4 SP No.3	WEBS 1 Row at midpt 20-28
OTHERS 2x4 SP No.3	1 Row at midpt 12-34, 11-36, 10-37, 9-38, 8-39, 6-40, 13-33, 15-32, 16-31, 17-30, 18-29, 21-26

REACTIONS. All bearings 34-0-0.
 (lb) - Max Horz 44=265(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 27, 34, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 26 except 44=634(LC 6), 24=309(LC 7), 43=733(LC 7), 25=290(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 27, 34, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 26, 28 except 44=774(LC 9), 24=291(LC 8), 43=742(LC 8), 25=435(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-44=383/299, 2-3=-307/257
 WEBS 3-43=-299/313

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); PF=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 15.0 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) All plates are 2x4 MT20 unless otherwise indicated.
 - 9) Gable requires continuous bottom chord bearing.
 - 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 11) Gable studs spaced at 2-0-0 oc.
 - 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 14) Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify compression bearing surface.



August 18, 2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	CT5GE	GABLE	1	1		I47453457
Job Reference (optional)						

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:03 2021 Page 2
 ID:XdVEHXV1W240jKARFW0Pu1yqv8U-Fb76VjoTymZVe7C7_gHEIB3W73N6kgVmhddccmyoFps

NOTES-

- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 34, 36, 37, 38, 39, 40, 41, 42, 33, 32, 31, 30, 29, 26 except (jt=lb) 44=634, 24=309, 43=733, 25=290.
- 16) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 44, 34, 36, 37, 38, 39, 40, 41, 42, 43, 33, 32, 31, 30, 29.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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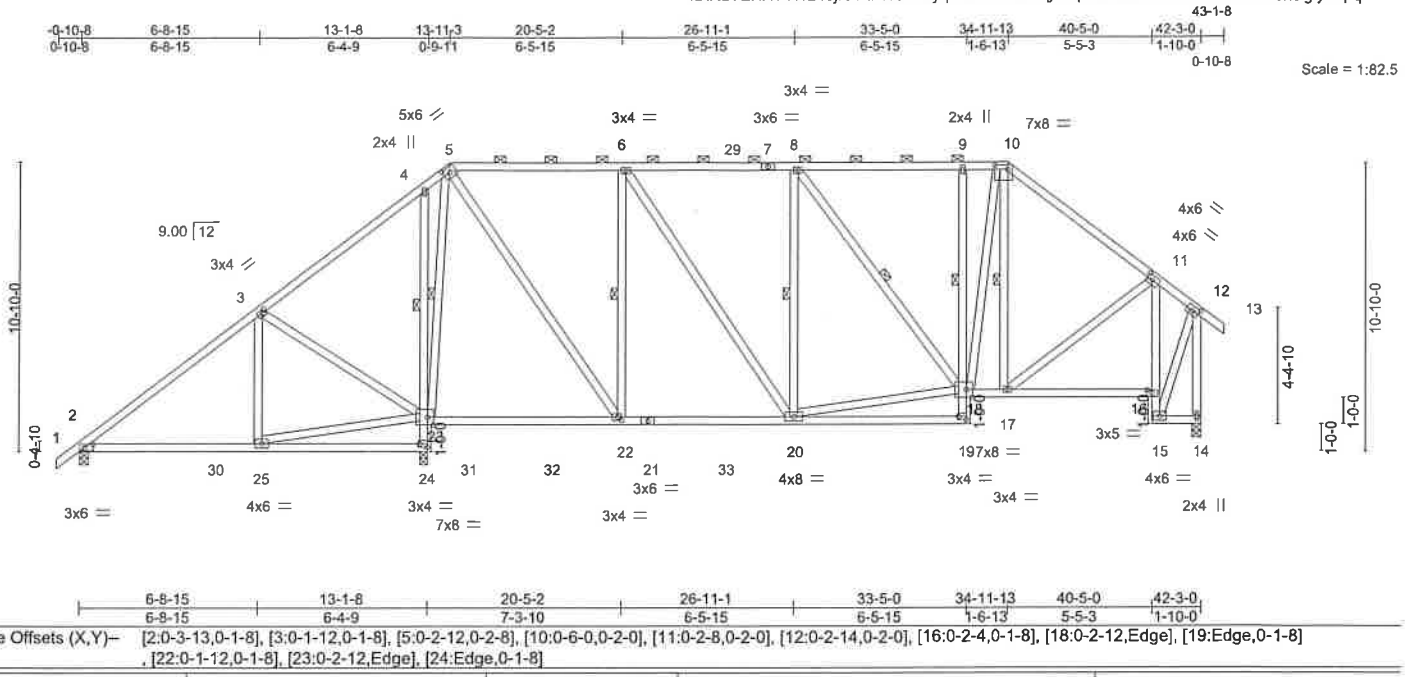


818 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss CT6	Truss Type Piggyback Base	Qty 2	Ply 1	BLACK CREEK Job Reference (optional)	147453458
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITek Industries, Inc. Fri Aug 13 12:51:05 2021 Page 1
ID:XdVEHXV1W240jKARFW0Pu1yqv8U-Bz6swOqjUOpDIRLW65Jizc8vF1?JCUY38x6igfyoFpq



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.07 20-22 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.13 22-23 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.07 14 n/a n/a		
BCDL 10.0	Code IBC2015/TFP2014			Weight: 345 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-7 max.); 5-10.
BOT CHORD 2x4 SP No.2 *Except* 4-24,9-19,11-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 3-2-8 oc bracing. Except: 1 Row at midpt 4-23, 9-18
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-23, 6-22, 8-20, 8-18, 10-17

REACTIONS. (size) 2=0-4-0, 24=0-3-8, 14=0-4-0
 Max Horz 2=248(LC 9)
 Max Uplift 2=-12(LC 10), 24=-96(LC 10), 14=-63(LC 11)
 Max Grav 2=486(LC 26), 24=1838(LC 3), 14=1200(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-451/32, 3-4=-54/302, 5-6=-646/147, 6-8=-869/151, 8-9=-815/140, 9-10=808/137,
 10-11=1026/116, 11-12=-464/59, 12-14=-1277/69
 BOT CHORD 2-25=90/334, 23-24=-1792/134, 4-23=-288/122, 20-22=-104/646, 9-18=-270/115,
 17-18=34/737, 16-17=-47/400, 15-16=-784/71, 11-16=-748/106
 WEBS 3-25=0/257, 23-25=-79/469, 3-23=-503/139, 5-23=-1186/88, 5-22=-51/1090,
 6-22=-752/128, 6-20=-68/419, 8-20=-332/137, 18-20=-121/709, 10-18=-138/447,
 11-17=-51/422, 12-15=-62/950

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 14.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

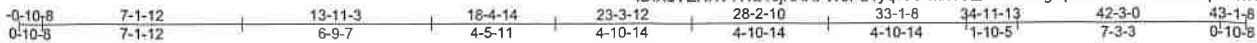


Job DO210810	Truss CT15	Truss Type PIGGYBACK BASE STRUC Gable Gable COMMON	Qty 1	Ply 1	BLACK CREEK	147453461
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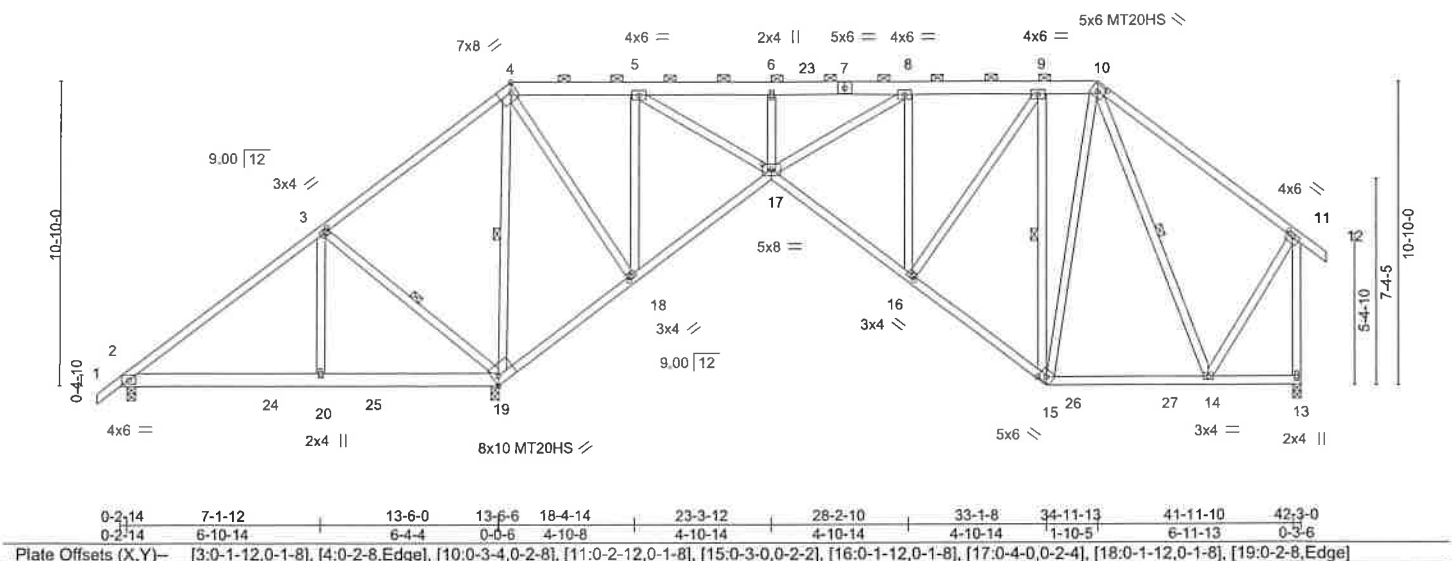
Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MITek Industries, Inc. Fri Aug 13 12:50:43 2021 Page 1

Job Reference (optional)



Scale = 1:78.4

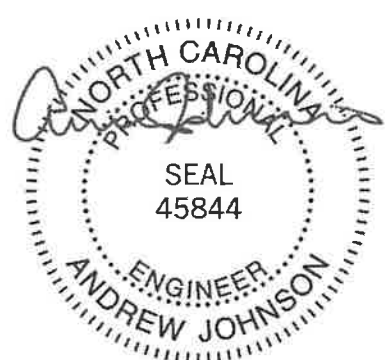


0-2-14	7-1-12	13-6-0	13-6-6	18-4-14	23-3-12	28-2-10	33-1-8	34-11-13	41-11-10	42-3-0
0-2-14	6-10-14	6-4-4	0-0-6	4-10-8	4-10-14	4-10-14	4-10-14	1-10-5	6-11-13	0-3-6
Plate Offsets (X,Y) - [3:0-1-12,0-1-8], [4:0-2-8,Edge], [10:0-3-4,0-2-8], [11:0-2-12,0-1-8], [15:0-3-0,0-2-2], [16:0-1-12,0-1-8], [17:0-4-0,0-2-4], [18:0-1-12,0-1-8], [19:0-2-8,Edge]										

LOADING (psf)	SPACING	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.36	Vert(LL) -0.06 14-15 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.11 16-17 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.10 13 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 334 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-10,4-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD 2x4 SP No.2 *Except* 2-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-10-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-19, 4-19, 10-14, 9-15
REACTIONS. (size) 2=0-3-8, 19=0-3-8, 13=0-3-8	
Max Horz 2=269(LC 9)	
Max Uplift 2=334(LC 27), 19=167(LC 7), 13=69(LC 11)	
Max Grav 2=190(LC 9), 19=2628(LC 2), 13=913(LC 27)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=278/824, 3-4=-188/1164, 4-5=-45/363, 5-6=-642/77, 6-8=-642/77, 8-9=630/134, 9-10=-425/136, 10-11=-497/122, 11-13=-875/61	
BOT CHORD 2-20=623/209, 19-20=-623/209, 18-19=-996/110, 17-18=-481/96, 16-17=-92/817, 15-16=-53/569, 14-15=-27/406	
WEBS 3-20=0/321, 3-19=-622/152, 4-19=-1614/214, 6-17=-293/91, 5-18=-892/136, 8-16=-331/128, 4-18=-62/789, 5-17=-110/1136, 10-14=-345/33, 11-14=0/490, 9-15=-417/148, 9-16=-57/343, 10-15=-62/255	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=16) 2=334, 19=167.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

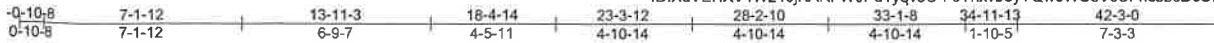


Job DO210810	Truss CT17	Truss Type PIGGYBACK BASE STRUC Gable able I Gable COMMON I	Qty 1	Ply 1	BLACK CREEK	147453463
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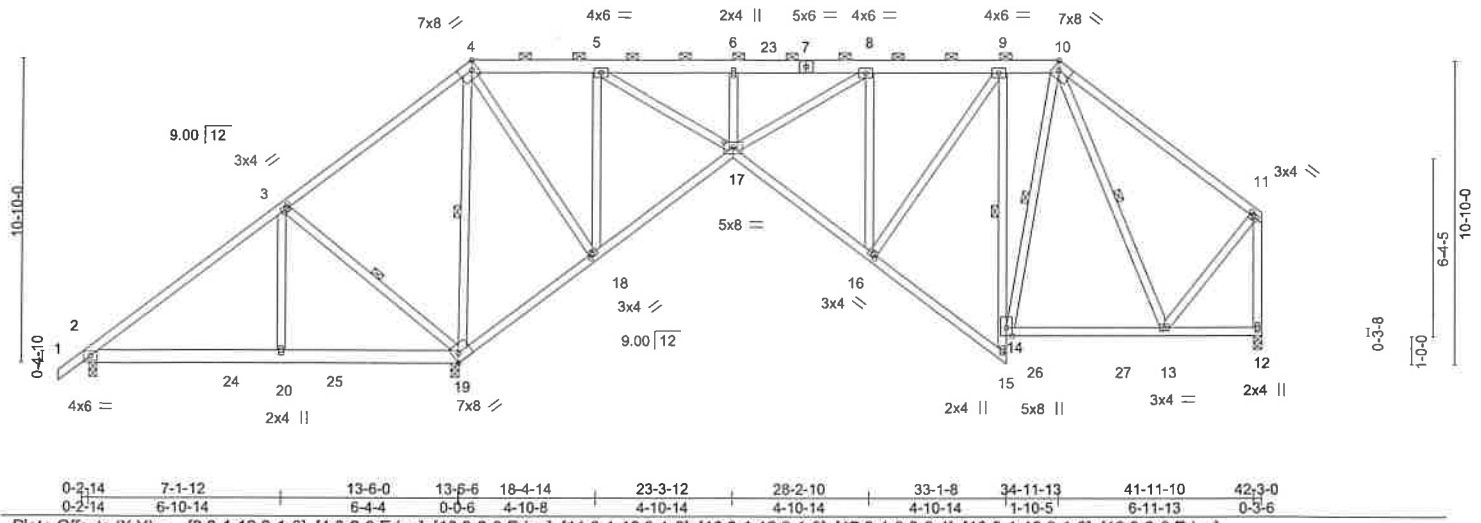
Truss Builders, Inc., Morrisville, NC - 27560,

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Scale = 1:78.4



0-2-14	7-1-12	13-6-0	13-6-6	18-4-14	23-3-12	28-2-10	33-1-8	34-11-13	41-11-10	42-3-0
0-2-14	6-10-14	6-4-4	0-0-6	4-10-8	4-10-14	4-10-14	4-10-14	1-10-5	6-11-13	0-3-6

Plate Offsets (X,Y) - [3:0-1-12,0-1-8], [4:0-2-8,Edge], [10:0-2-8,Edge], [11:0-1-12,0-1-8], [16:0-1-12,0-1-8], [17:0-4-0,0-2-4], [18:0-1-12,0-1-8], [19:0-2-8,Edge]

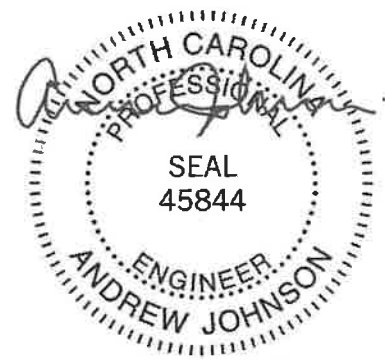
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.10 13-14 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.19 13-14 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.22 12 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 327 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-10,4-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 4-10.
BOT CHORD 2x4 SP No.2 *Except* 2-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-1-10 oc bracing.
WEBS 2x4 SP No.3 *Except* 9-15: 2x4 SP No.1D	WEBS 1 Row at midpt 3-19, 4-19, 9-15, 10-14, 10-13

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=0-3-8
 Max Horz 2=241(LC 10)
 Max Uplift 2=511(LC 27), 19=114(LC 7), 12=66(LC 11)
 Max Grav 2=146(LC 6), 19=2884(LC 2), 12=765(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-212/1119, 3-4=-121/1453, 4-5=-7/651, 8-9=-464/145, 9-10=-371/152, 10-11=-437/96
 BOT CHORD 2-20=-860/201, 19-20=-860/202, 18-19=-1281/97, 17-18=-840/95, 16-17=-43/609, 15-16=-9/461, 13-14=-13/392
 WEBS 3-20=0/320, 3-19=-622/152, 4-19=-1698/155, 6-17=-291/92, 5-18=-755/129, 4-18=-56/678, 5-17=-58/883, 8-17=-428/94, 10-13=-269/63, 11-12=-749/75, 11-13=0/471

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (j=l=lb) 2=511, 19=114.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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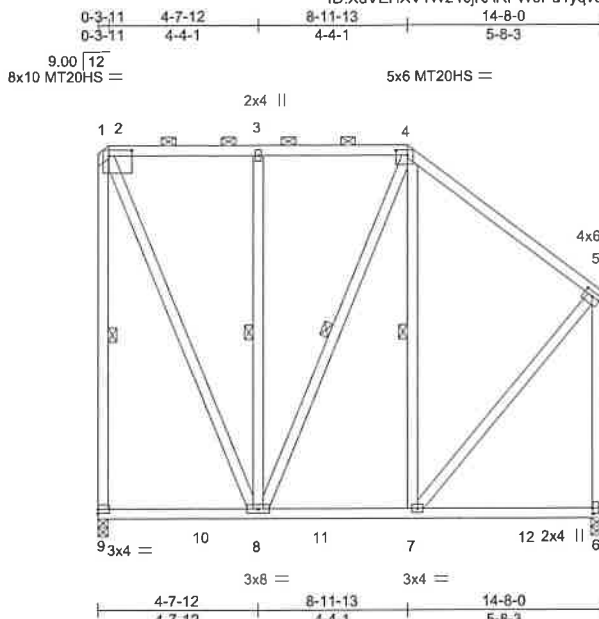
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI1-7473 (rev. 5/19/2020) BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MITEK Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147453464
DO210810	CT20	Piggyback Base	4	1		

Truss Builders, Inc., Morrisville, NC - 27560,

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Scale: 3/16"=1'

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

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 0.68	Vert(LL)	-0.03	8-9	>999	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.05	6-7	>999	MT20HS	187/143
TCDL 10.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.01	9	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MR						
BCDL 10.0								Weight: 146 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 1-9, 3-8, 4-7, 4-8

REACTIONS.

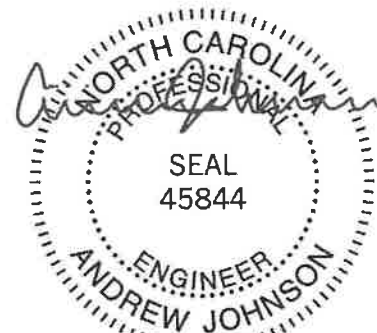
(size) 9=0-3-8, 6=0-4-0
 Max Horz 6=-302(LC 6)
 Max Uplift 9=-139(LC 6), 6=-31(LC 11)
 Max Grav 9=614(LC 3), 6=638(LC 23)

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

TOP CHORD 1-2=-368/92, 4-5=-347/50, 1-9=-516/133, 5-6=-531/50
 BOT CHORD 7-8=-162/277, 6-7=-269/222
 WEBS 3-8=-303/123, 2-8=-140/467, 5-7=-74/340

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 20.0psf 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) 6 except (jt=lb) 9=139.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 18, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 6/19/2020 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



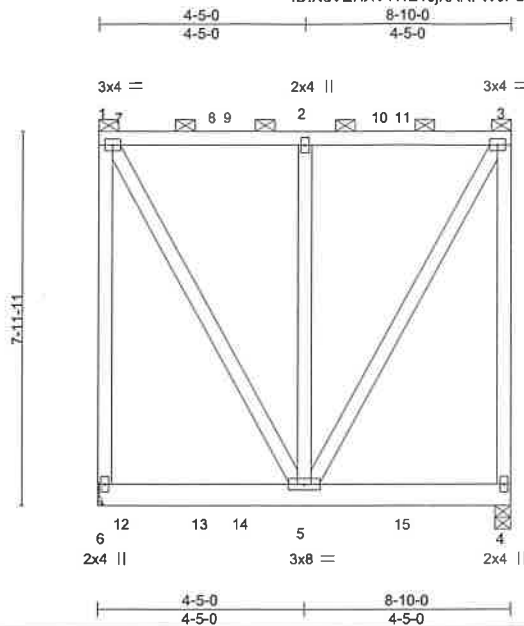
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	I47453465
DO210810	FL1G	Flat Girder	1	2	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

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Scale = 1:46.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	1-11-4	TC 0.44	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.01 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.01 5 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IBC2015/TP12014			Weight: 181 lb	FT = 6%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

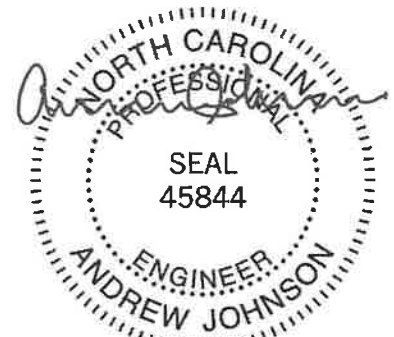
REACTIONS. (size) 6=Mechanical, 4=0-4-0
Max Horz 6=-208(LC 6)
Max Uplift 6=-511(LC 6), 4=-608(LC 7)
Max Grav 6=810(LC 41), 4=887(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-656/487, 3-4=-788/610
WEBS 1-5=-352/516, 2-5=-530/419, 3-5=-352/516

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=511, 4=608.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 149 lb up at 0-6-0, 136 lb down and 150 lb up at 2-6-0, 136 lb down and 144 lb up at 4-6-0, 136 lb down and 150 lb up at 6-6-0, and 135 lb down and 150 lb up at 8-8-4, and 126 lb down and 115 lb up at 8-8-4 on top chord, and 78 lb down and 35 lb up at 0-6-0, 69 lb down and 41 lb up at 2-6-0, and 69 lb down and 41 lb up at 4-6-0, and 69 lb down and 41 lb up at 6-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



August 18, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MITek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	I47453465
DO210810	FL1G	Flat Girder	1	2	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:08 2021 Page 2

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-cYo?YQsbnJBoku45nDtPaEmS4D5Px0VqvKNH_yoFpn

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-48, 4-6=-19

Concentrated Loads (lb)

Vert: 5=-41(F) 2=-73(F) 3=-123(F=-92) 7=-88(F) 8=-73(F) 11=-73(F) 12=-48(F) 14=-41(F) 15=-41(F)

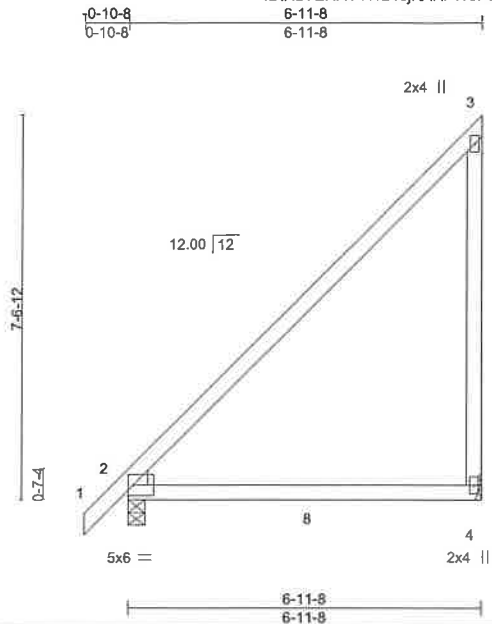
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK
DO210810	M1	Monopitch	7	1	I47453466
Truss Builders, Inc., Morrisville, NC - 27560.					Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:08 2021 Page 1
 ID:XdVEHXV1W240JKARFW0Pu1yqv8U-cYo?YQsbjBoku45nDIPaEmN143LPz3VqvKNH_yoFpn



Scale = 1:43.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) 0.17 4-7 >483 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.28 4-7 >291 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.03 2 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014			Weight: 38 lb	FT = 6%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-0
 Max Horz 2=218(LC 9)
 Max Uplift 4=84(LC 7)
 Max Grav 4=387(LC 22), 2=358(LC 23)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 15.0 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 20.0psf 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) 4.



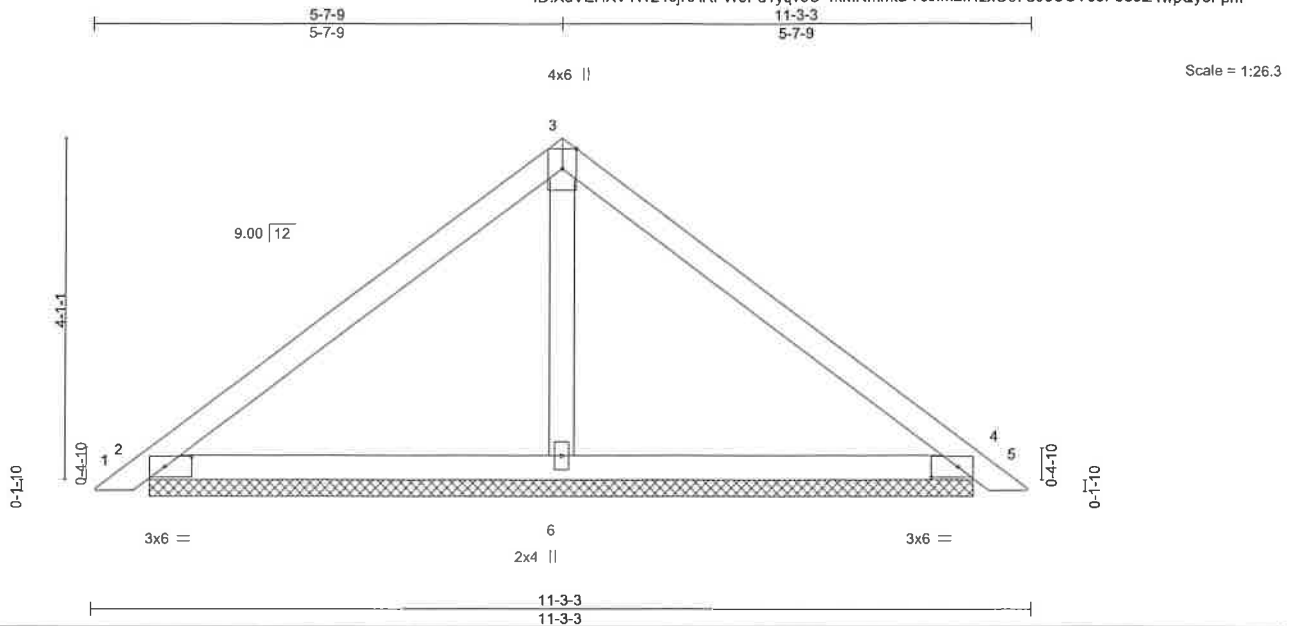
August 18, 2021

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147453467
DO210810	PB1	Piggyback	7	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:09 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-4kMNMmDYcJfM2fHLxOe7SJeOUVe8P5e3Z4wpQyoFpm



Scale = 1:26.3

Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [4:0-3-13,0-1-8]

LOADING (psf)	SPACING-	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.32	Vert(LL)	0.01	5	n/r	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	0.01	5	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 41 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=9-10-8, 4=9-10-8, 6=9-10-8
 Max Horz 2=-78(LC 8)
 Max Uplift 2=-17(LC 10), 4=-27(LC 11)
 Max Grav 2=220(LC 2), 4=220(LC 2), 6=401(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 18, 2021

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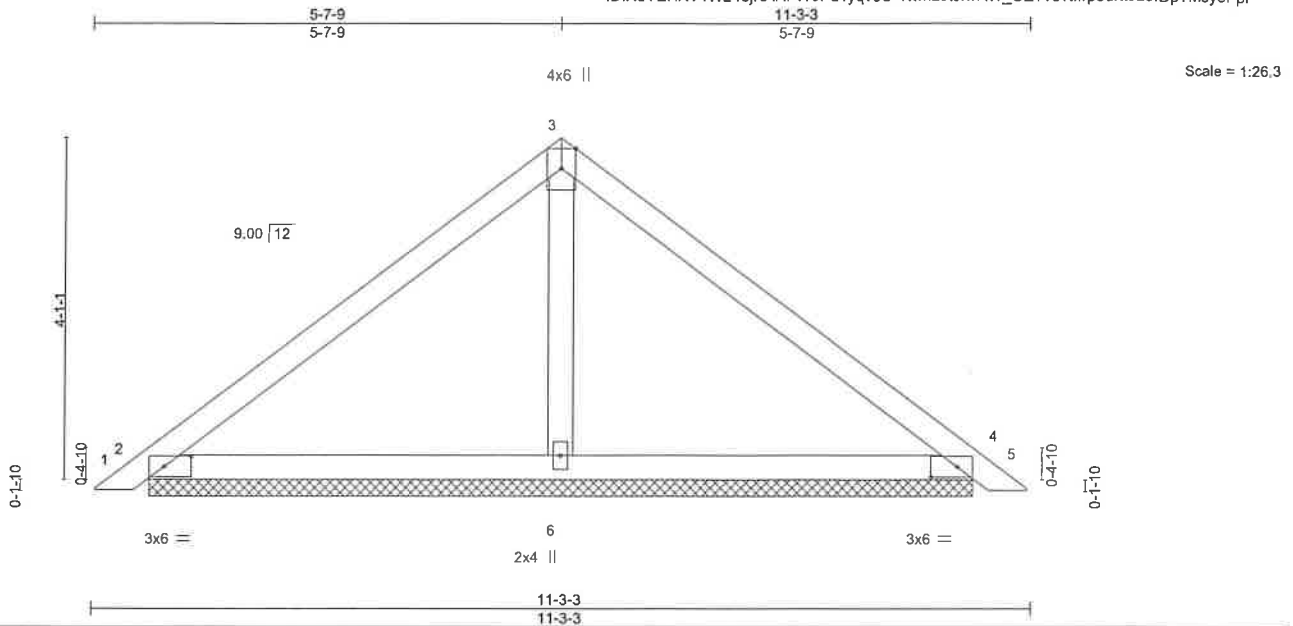


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	I47453468
DO210810	PB1GE	Piggyback	1	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:10 2021 Page 1
 ID:XdVEHXV1W240jKARFW0Pu1yqv8U-Yxwiz6tslwRW_CETvevtfrrpBurtisLoIdpTMsyofPl



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.32	Vert(LL)	0.01	in (loc)	l/defl	L/d	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.01	5	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-R				4	n/a	n/a		
BCDL	10.0										Weight: 41 lb	FT = 6%

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

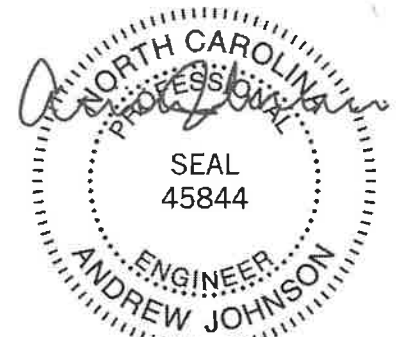
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=9-10-8, 4=9-10-8, 6=9-10-8
 Max Horz 2=-78(LC 8)
 Max Uplift 2=-17(LC 10), 4=-27(LC 11)
 Max Grav 2=220(LC 2), 4=220(LC 2), 6=401(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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B18 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss PB2GE	Truss Type Piggyback	Qty 1	Ply 1	BLACK CREEK Job Reference (optional)	147453470
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Truss Builders, Inc., Morrisville, NC - 27560,

8,430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:11 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pur1yqv8U-07U7BSuU3EZNBmPgSMQ6ClO3MID0cKpxXIZ1ulyoFpk

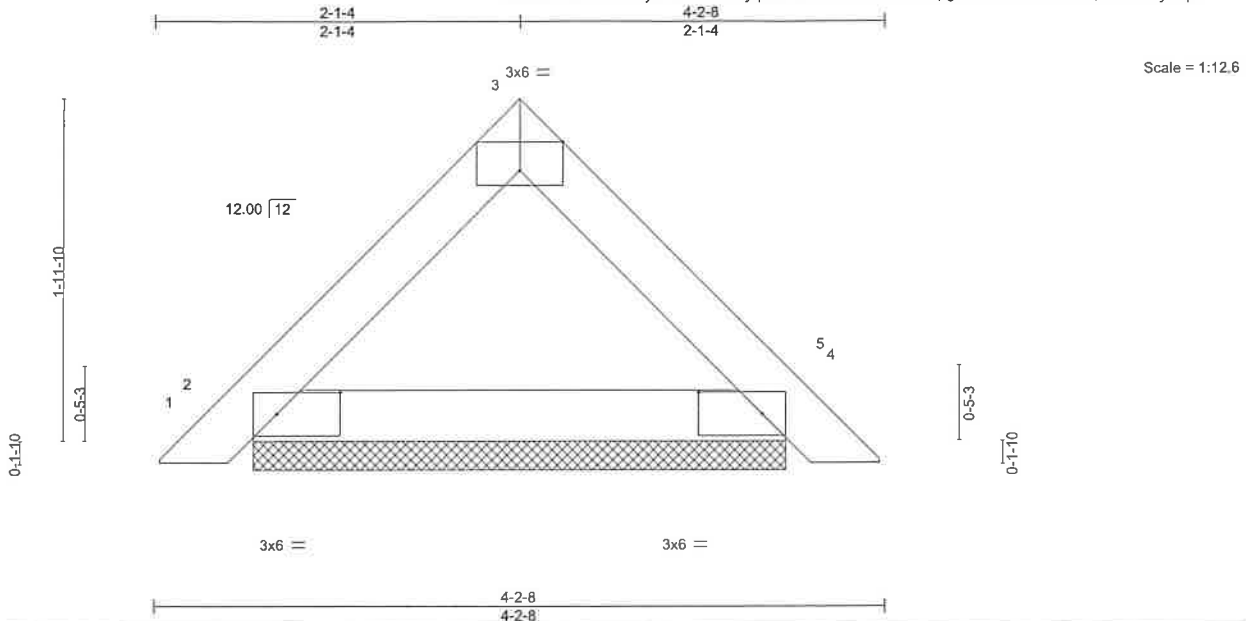


Plate Offsets (X,Y) - [2:0-4-6,0-1-8], [3:0-3-0,Edge], [4:0-4-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.04	Vert(LL)	0.00	4	n/r	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	0.00	4	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 13 lb	FT = 6%

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

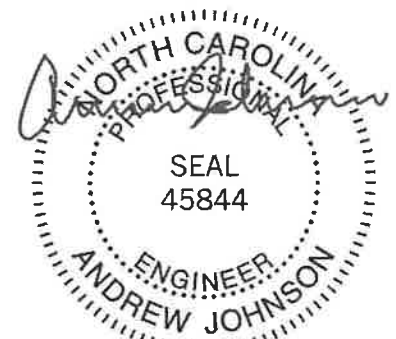
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-0-14, 4=3-0-14
Max Horz 2=-36(LC 8)
Max Uplift 2=-4(LC 10), 4=-4(LC 11)
Max Grav 2=143(LC 2), 4=143(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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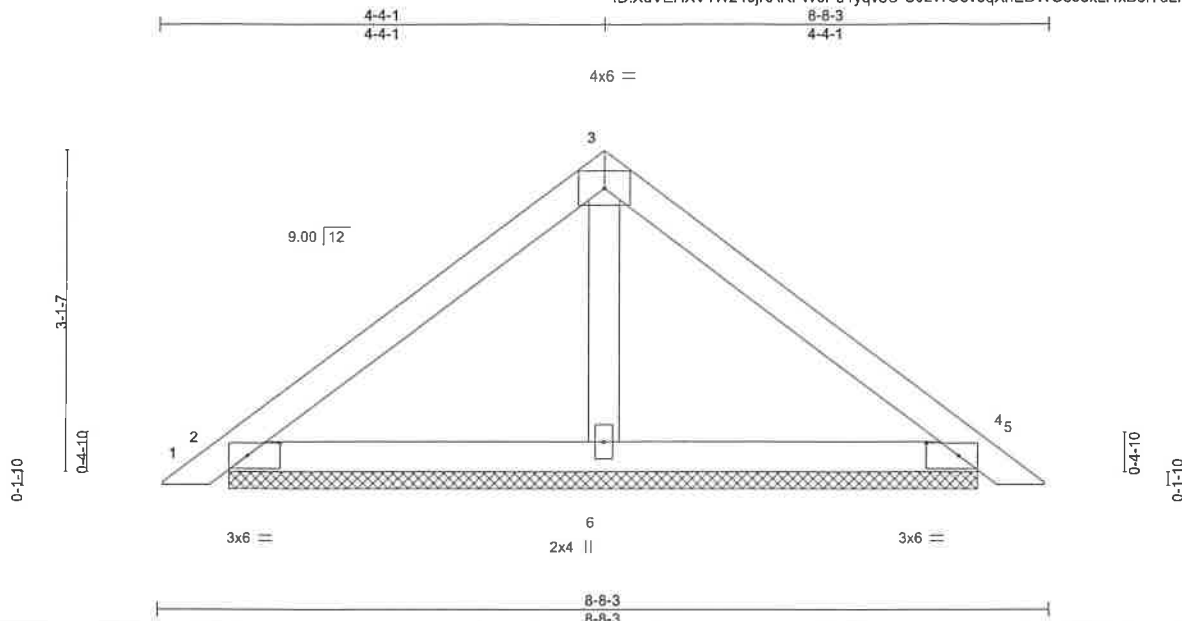
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147453471
DO210810	PB3	Piggyback	1	1	Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:12 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-UJ2WOov6qXhEDW0s03xL4xBoiYuLnT5IXlaQlyoFpj



Scale = 1:21.3

Plate Offsets (X,Y) - [2:0-3-13,0-1-8], [4:0-3-13,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.25	Vert(LL) 0.01	5	n/r	120		MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.13	Vert(CT) 0.01	5	n/r	120			
TCDL 10.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	4	n/a	n/a			
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-P							
BCDL 10.0								Weight: 31 lb	FT = 6%

LUMBER-

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

BRACING-

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

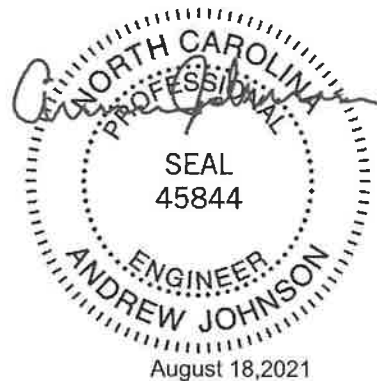
REACTIONS.

(size) 2=7-3-8, 4=7-3-8, 6=7-3-8
 Max Horz 2=59(LC 9)
 Max Uplift 2=25(LC 10), 4=33(LC 11)
 Max Grav 2=190(LC 2), 4=190(LC 2), 6=255(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	PB3GE	Piggyback	1	1		147453472
Truss Builders, Inc., Morrisville, NC - 27560.					Job Reference (optional)	

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:12 2021 Page 1
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 21-0-11
 10-6-5

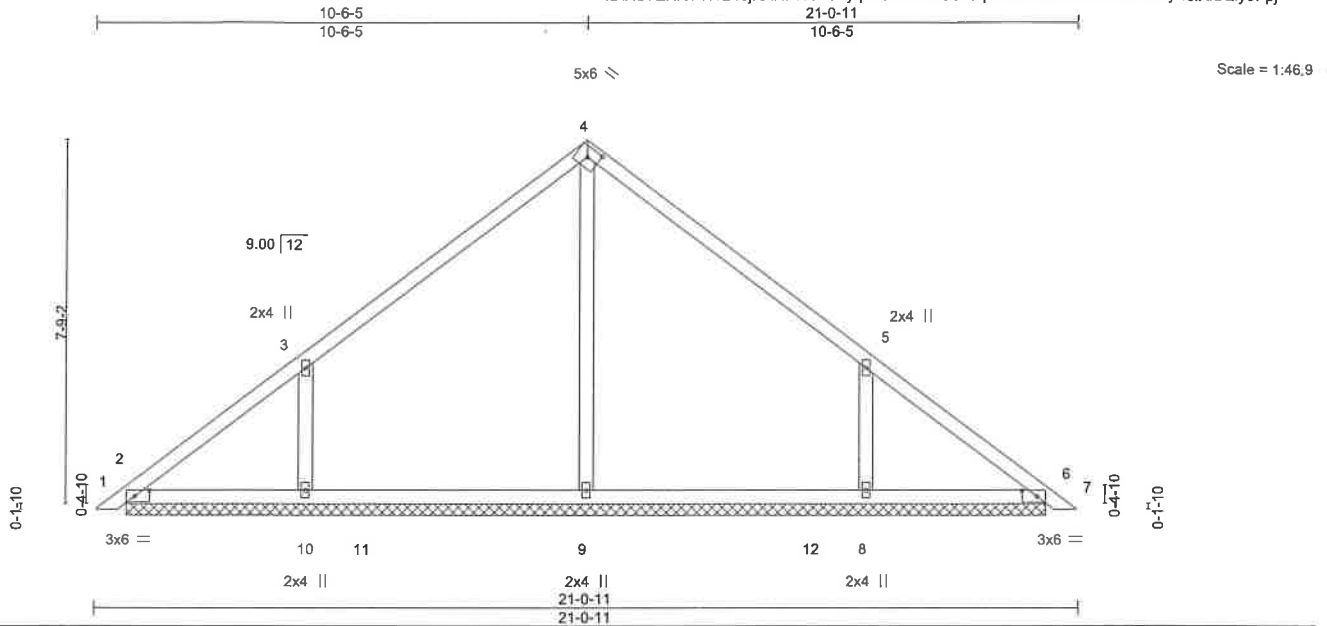


Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [4:0-3-1,0-2-8], [6:0-3-13,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.41	Vert(LL) -0.00	6	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.41	Vert(CT) 0.00	6	n/r	120		
TCDL 10.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.00	6	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-R						
BCDL 10.0							Weight: 87 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 19-8-0.
 (lb) - Max Horz 2--149(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 10--137(LC 10), 8--136(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=576(LC 22), 10=515(LC 22), 8=515(LC 23)

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

WEBS 4-9--282/1, 3-10--341/197, 5-8--341/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=137, 8=136.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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TRENCO
 A MiTek Alliance

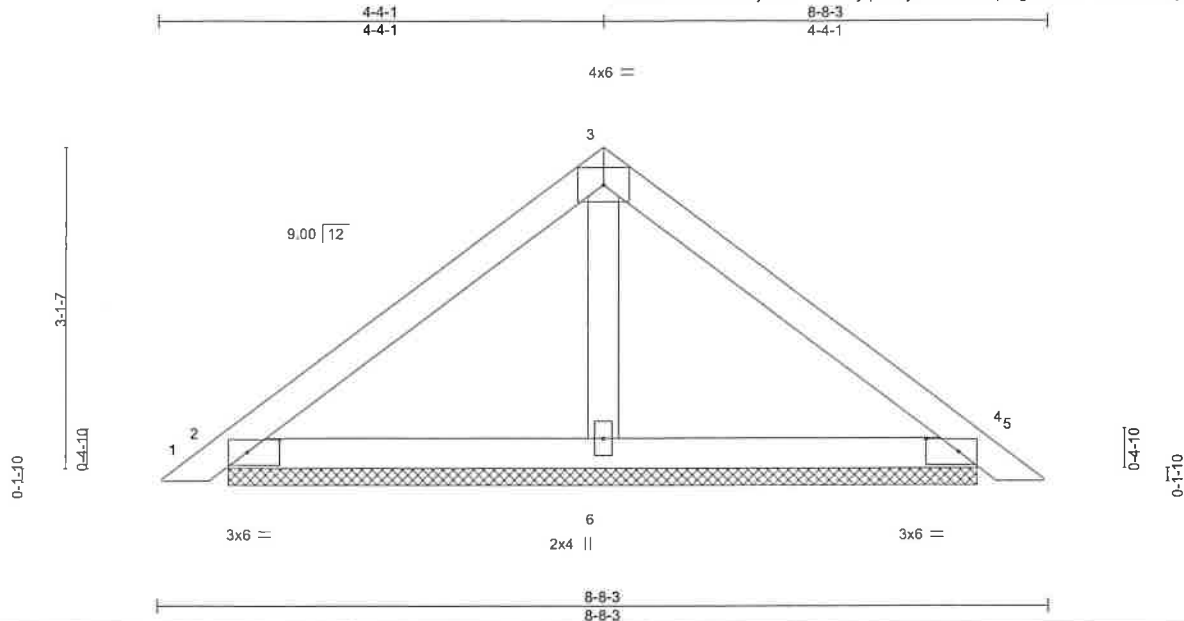
818 Soundside Road
 Edenton, NC 27932

Job DO210810	Truss PB4	Truss Type Piggyback	Qty 9	Ply 1	BLACK CREEK Job Reference (optional)	147453473
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Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 Mitek Industries, Inc. Fri Aug 13 12:51:13 2021 Page 1

ID:XdVEHXV1W240JKARFW0Pu1yqv8U-yWbuc7wkbrp5rgz2anTaHITMY5u74EjE_B27y8yoFpi



Scale = 1:21.3

Plate Offsets (X,Y) - [2:0-3-13,0-1-8], [4:0-3-13,0-1-8]									
LOADING (psf)	SPACING -	CSI	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.25	Ver(LL)	0.01	5	n/r	120	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.13	Ver(CT)	0.01	5	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2015/TPI2014							Weight: 31 lb	FT = 6%

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

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

REACTIONS. (size) 2=7-3-8, 4=7-3-8, 6=7-3-8
Max Horz 2=59(LC 9)
Max Uplift 2=-25(LC 10), 4=-33(LC 11)
Max Grav 2=190(LC 2), 4=190(LC 2), 6=255(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

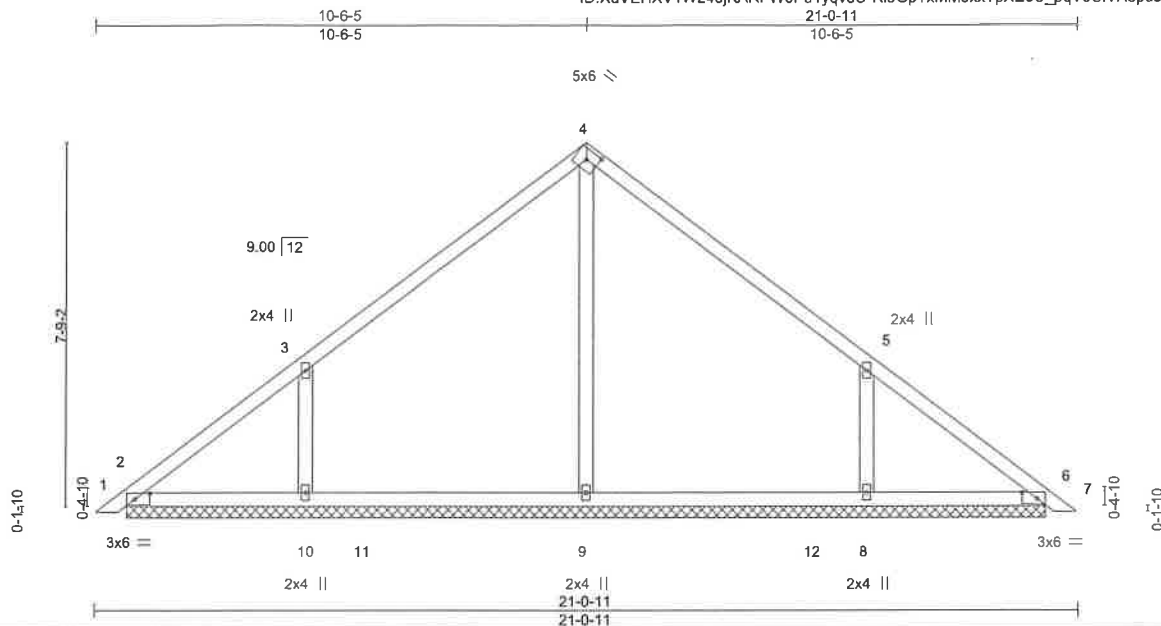
ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	
DO210810	PB5	Piggyback	14	1		I47453474
					Job Reference (optional)	

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:14 2021 Page 1

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Scale = 1:46.9

Plate Offsets (X,Y) - [2:0-3-13,0-1-8], [4:0-3-1,0-2-8], [6:0-3-13,0-1-8]

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 0.41	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	0.00	6	n/r	120		
TCDL 10.0	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.00	6	n/a	n/a		
BCLL 0.0	Code IBC2015/TPI2014		Matrix-R							
BCDL 10.0										
								Weight: 87 lb	FT = 6%	

LUMBER-

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

BRACING-

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

REACTIONS.

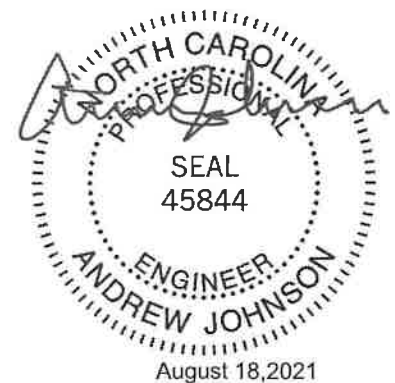
All bearings 19-8-0.
 (lb) - Max Horz 2=-149(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=-137(LC 10), 8=-136(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=576(LC 22), 10=516(LC 22), 8=515(LC 23)

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

WEBS 4-9=-282/1, 3-10=-341/197, 5-8=-341/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=137, 8=136.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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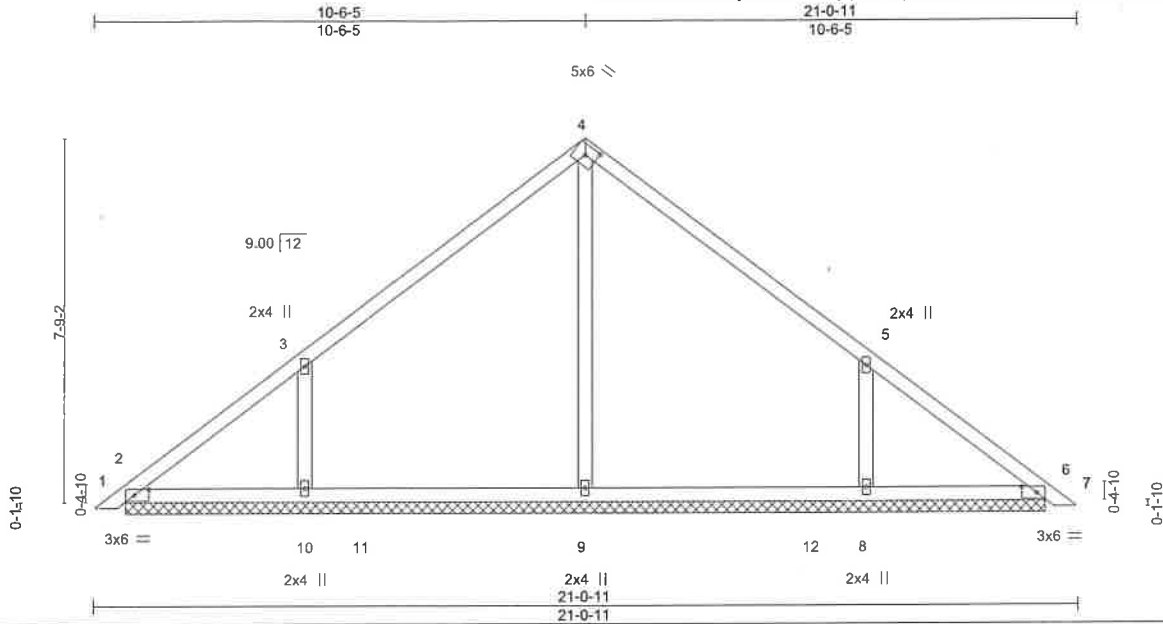
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147453475
DO210810	PB6	Piggyback	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:15 2021 Page 1

ID:XdVEHXV1W240jKARFW0Pu1yqv8U-vuje0px_7S3o4z6RhBV2MjZIVvViy46XRUXE14yoFpg



Scale = 1:46.9

Plate Offsets (X,Y) - [2:0-3-13,0-1-8], [4:0-3-1,0-2-8], [6:0-3-13,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Lumber DOL 1.15	BC 0.41	Vert(LL) -0.00 6 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.30	Vert(CT) 0.00 6 n/r 120		
BCLL 0.0 *	Code IBC2015/TPI2014	Matrix-R	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0				Weight: 87 lb	FT = 6%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 19-8-0.

(lb) - Max Horz 2=149(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=137(LC 10), 8=136(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=576(LC 22), 10=516(LC 22), 8=515(LC 23)

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

WEBS 4-9=282/1, 3-10=341/197, 5-8=341/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=137, 8=136.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 18, 2021

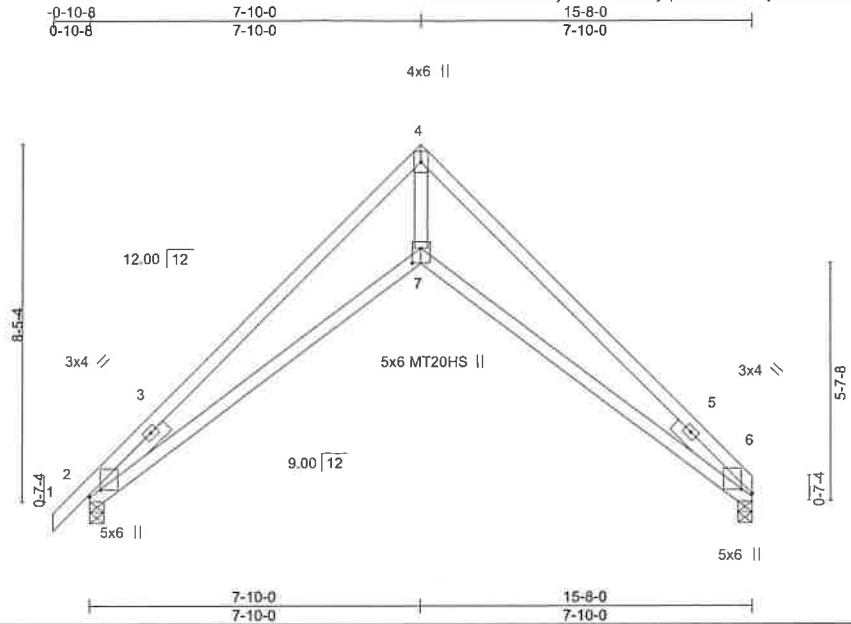
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	I47453476
DO210810	SC1	Scissor	8	1		

Truss Builders, Inc., Morrisville, NC - 27560, 8.430 s Jun 2 2021 MITek Industries, Inc. Fri Aug 13 12:51:16 2021 Page 1
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Scale = 1:51.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.71	Vert(LL)	0.17	7-10	>999	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.28	7-14	>679	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.77	Horz(CT)	0.30	6	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IBC2015/TPI2014						Weight: 75 lb	FT = 6%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-4-0, 6=0-4-0
 Max Horz 2=163(LC 7)
 Max Uplift 2=-7(LC 10)
 Max Grav 2=681(LC 2), 6=625(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1723/3, 4-6=-1724/64
 BOT CHORD 2-7=0/1517, 6-7=0/1503
 WEBS 4-7=0/1900

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.

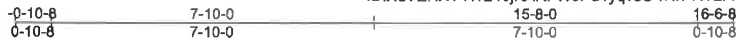


August 18, 2021

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147453477
DO210810	SC1A	Scissor	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Fri Aug 13 12:51:17 2021 Page 1
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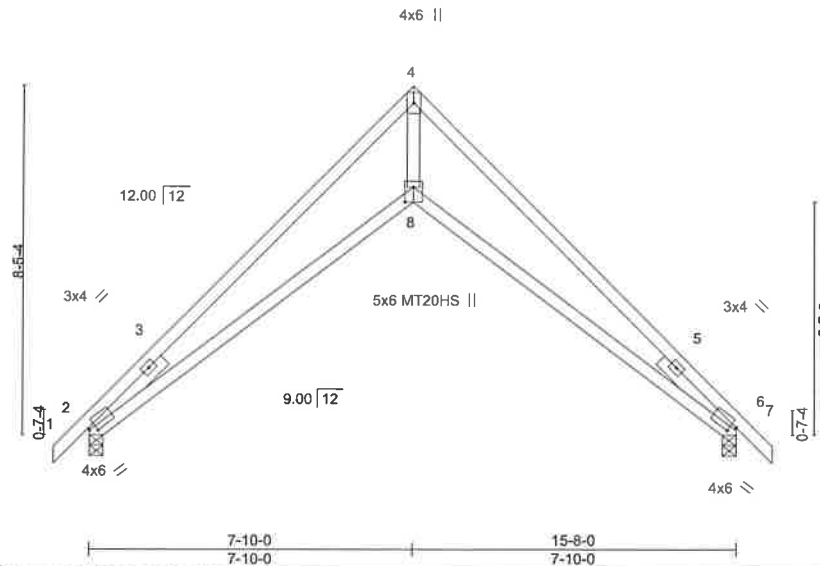


Plate Offsets (X,Y) - [2:0-2-1,0-1-8], [6:0-1-8,0-2-4], [8:0-4-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	Vert(LL)	0.17	8-11	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.74	Vert(CT)	-0.27	8-11	>695	180	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.76	Horz(CT)	0.30	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR							
BCDL 10.0	Code IBC2015/TPI2014							Weight: 77 lb	FT = 6%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-2 oc purtins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-0, 6=0-4-0
 Max Horz 2=169(LC 9)
 Max Uplift 2=7(LC 10), 6=7(LC 11)
 Max Grav 2=679(LC 2), 6=679(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=1714/0, 4-6=1744/29
 BOT CHORD 2-8=0/1544, 6-8=0/1529
 WEBS 4-8=0/1929

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



August 18, 2021

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BLACK CREEK	147477338
DO210810	SC2	Scissor	1	1		

Truss Builders, Inc., Morrisville, NC - 27560,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Aug 16 15:30:44 2021 Page 1

ID:XdVEHV1W240jKARFW0Pu1yqv8U-eHTwo2MFOV1kKPI3VxFlgIQkK_h4rHzn84qsJynEC9



4x6 =

Scale = 1:41.6

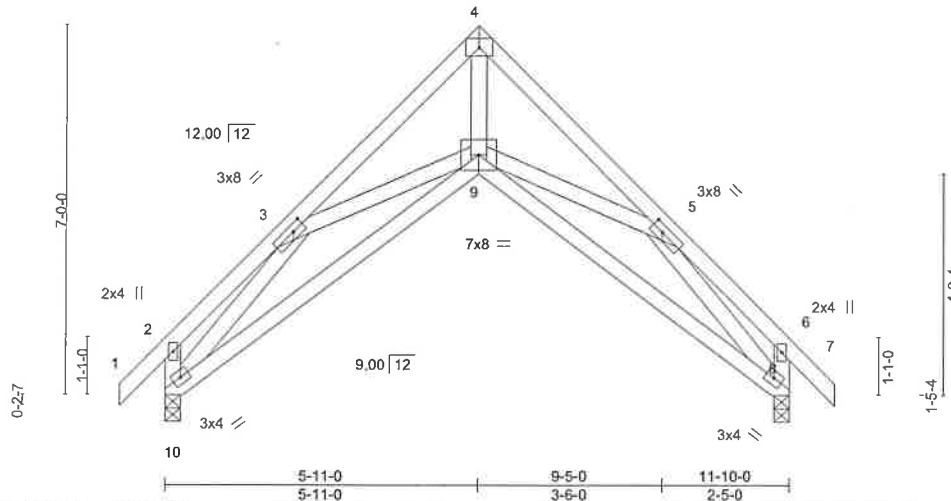


Plate Offsets (X,Y) [3:0-2-12,0-1-8], [5:0-2-12,0-1-8]

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 0.17	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
Snow (Pf) 15.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.10	9-10	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.11	8	n/a	n/a		
BCLL 0.0 *	Code	IBC2015/TPI2014	Matrix-MR							
BCDL 10.0									Weight: 79 lb	FT = 6%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

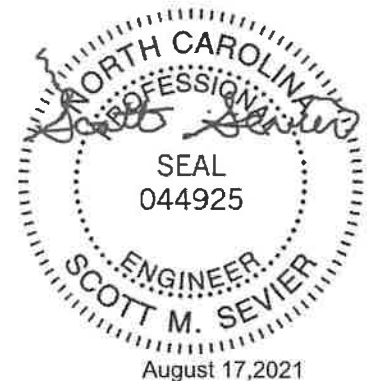
(size) 10=0-3-8, 8=0-3-8
 Max Horz 10=-131(LC 8)
 Max Uplift 10=-6(LC 10), 8=-6(LC 11)
 Max Grav 10=523(LC 2), 8=523(LC 2)

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

TOP CHORD 3-4=-913/0, 4-5=-932/0
 BOT CHORD 9-10=-146/790, 8-9=-3/655
 WEBS 4-9=0/1026, 3-10=-882/34, 5-8=-866/0, 5-9=-59/284

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 10, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.

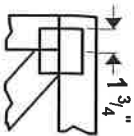


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

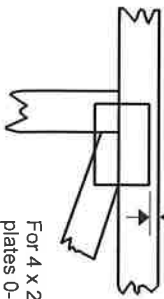
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

4 X 4

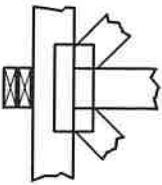
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



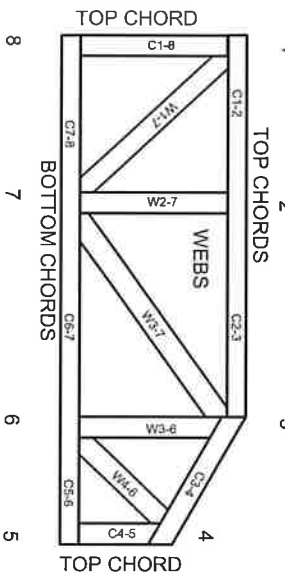
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never slack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise specified.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.