

Trenco
818 Soundside Rd
Edenton, NC 27932

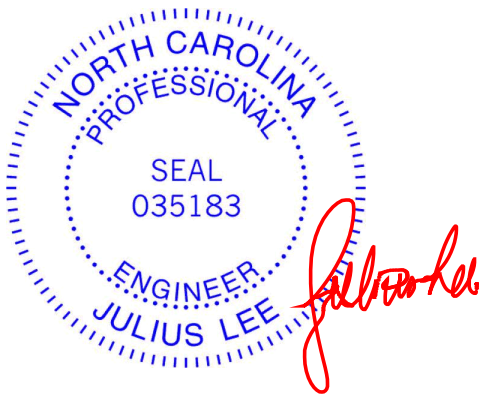
Re: 22020379-01
Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss

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

Pages or sheets covered by this seal: T27228507 thru T27228548

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



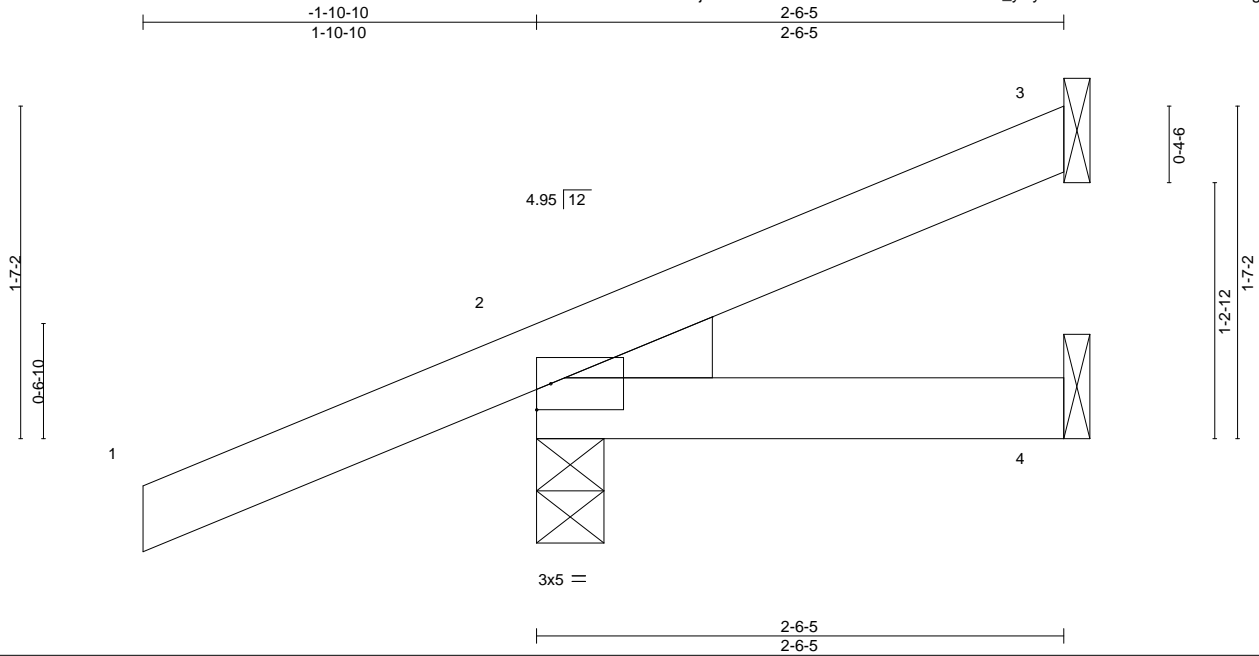
March 25, 2022

Lee, Julius

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 22020379-01	Truss CJ2	Truss Type DIAGONAL HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228507
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:43 2022 Page 1
 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-FLYOSIV6r_yUyewHrHBaYntREi3U6GzPPGgpA1zY?_o



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 12 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

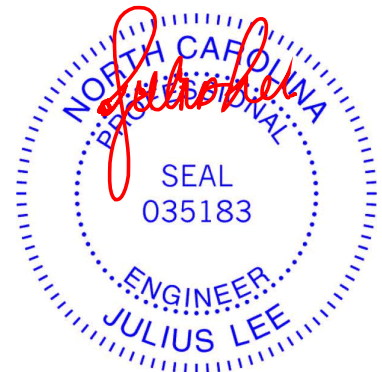
REACTIONS. (size) 3=Mechanical, 2=0-3-14, 4=Mechanical
 Max Horz 2=73(LC 7)
 Max Uplift 2=-129(LC 7), 4=-57(LC 5)
 Max Grav 3=43(LC 1), 2=116(LC 5), 4=82(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1 lb down and 4 lb up at -1-10-10, and 1 lb down and 4 lb up at -1-10-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-20(F=40)
 Concentrated Loads (lb)
 Vert: 1=6(F=3, B=3)
 Trapezoidal Loads (plf)
 Vert: 1=40(F=70, B=30)-to-2=12(F=56, B=16), 5=-33(F=-6, B=-6)-to-4=-72(F=-26, B=-26)



March 25, 2022

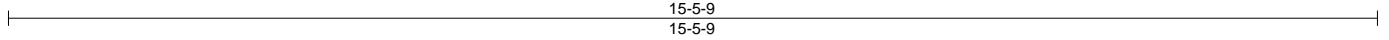
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



818 Soundside Road
 Edenton, NC 27932

Job 22020379-01	Truss PB1C	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228508
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:17 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-FubEaNvRqQE1sXpqQoYwyHGZPge4fdPDYvcN3zY?_G



Scale = 1:26.0

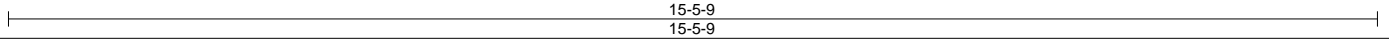
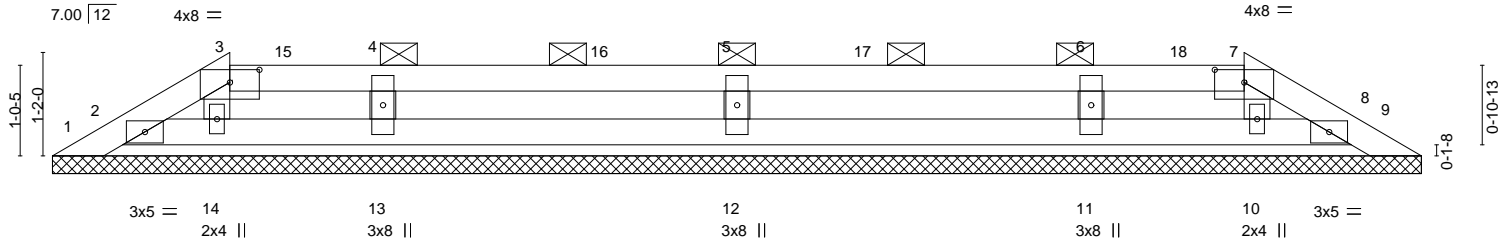


Plate Offsets (X,Y)-- [3:0-4-0,0-1-11], [7:0-4-0,0-1-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 47 lb	FT = 20%

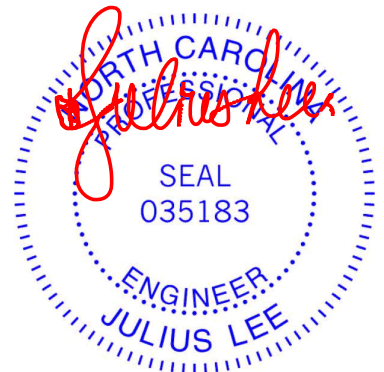
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. All bearings 15-5-9.
(lb) - Max Horz 1=19(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 14, 10, 12, 11, 13
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 14, 10 except 12=342(LC 1), 11=262(LC 23), 13=265(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-12=256/110

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 2-0-1, Exterior(2R) 2-0-1 to 6-2-15, Interior(1) 6-2-15 to 13-5-9, Exterior(2E) 13-5-9 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 14, 10, 12, 11, and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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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

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

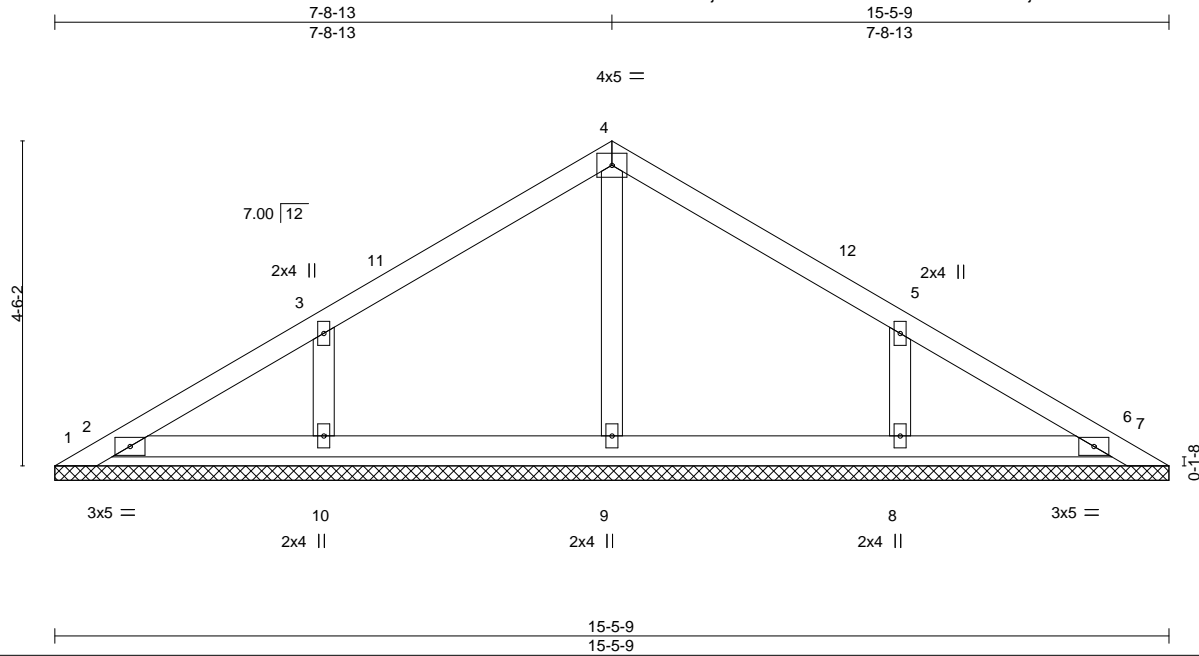


818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss PB1	Truss Type GABLE	Qty 5	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228509
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:13 2022 Page 1
ID:t:Qij0K5bXobraOovdZu2Jzzt7J5-N7Mkl?swnCjDYFD2bakcm67bxoJb8qLpIxxPEIzY?_K



Scale: 3/8"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 57 lb	FT = 20%

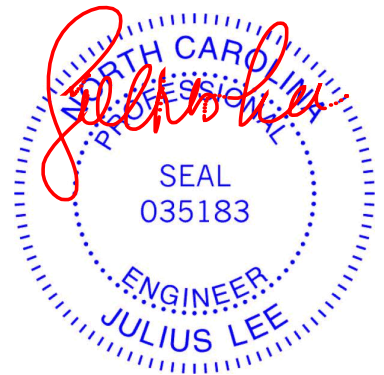
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-5-9.
 (lb) - Max Horz 1=87(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=273(LC 1), 10=317(LC 23), 8=317(LC 24)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 7-8-13, Exterior(2R) 7-8-13 to 10-8-13, Interior(1) 10-8-13 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 25, 2022

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818 Soundside Road
 Edenton, NC 27932

Job 22020379-01	Truss PB1A	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228510
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:14 2022 Page 1
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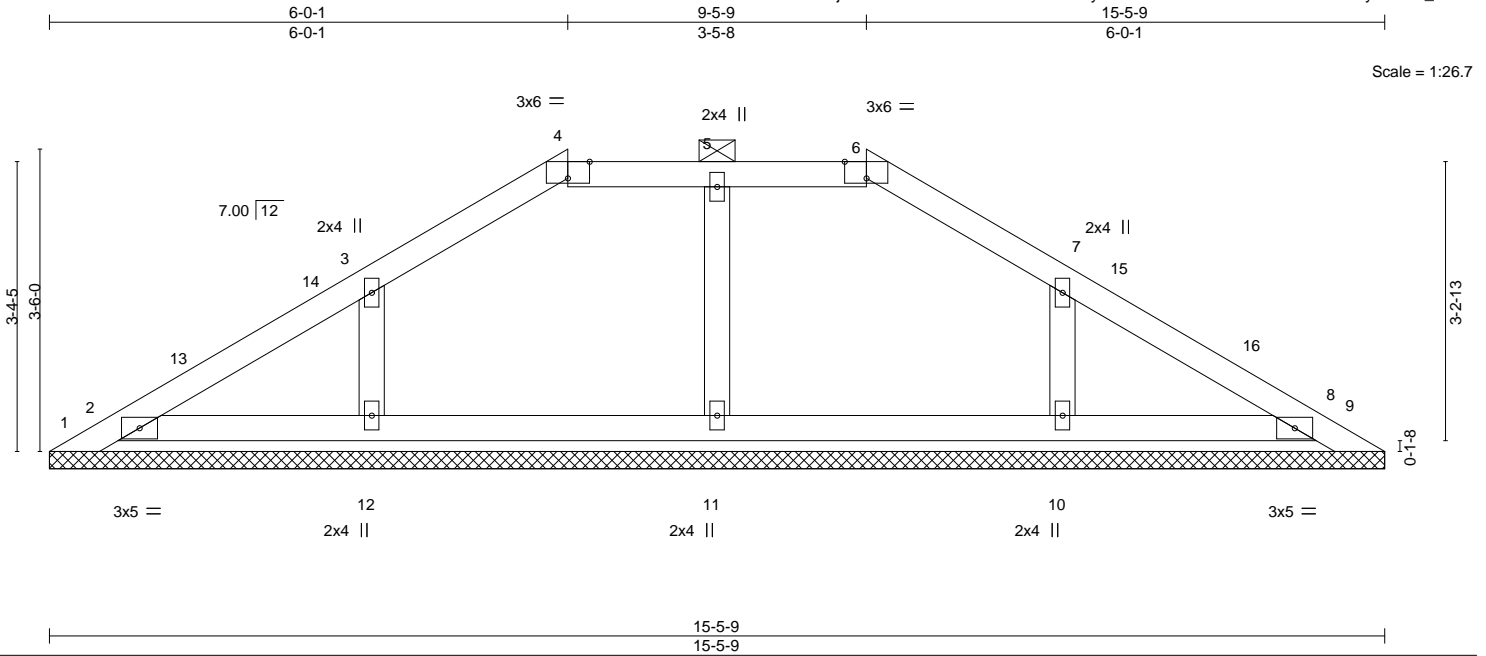


Plate Offsets (X,Y)-- [4:0-3-0,Edge], [6:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 55 lb	FT = 20%

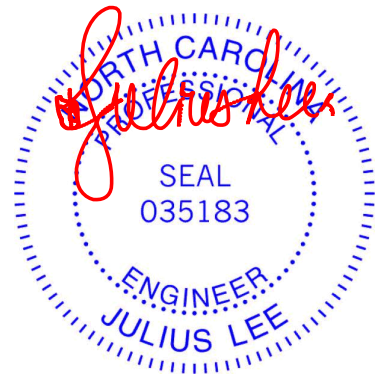
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-5-9.
(lb) - Max Horz 1=65(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 8, 11, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 11 except 2=269(LC 1), 8=269(LC 1), 12=269(LC 23), 10=269(LC 24)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 6-0-1, Exterior(2E) 6-0-1 to 9-5-9, Exterior(2R) 9-5-9 to 13-8-7, Interior(1) 13-8-7 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 11, 12, and 10. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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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

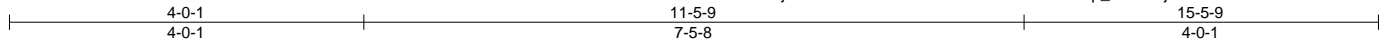


818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss PB1B	Truss Type GABLE	Qty 2	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228511
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:15 2022 Page 1
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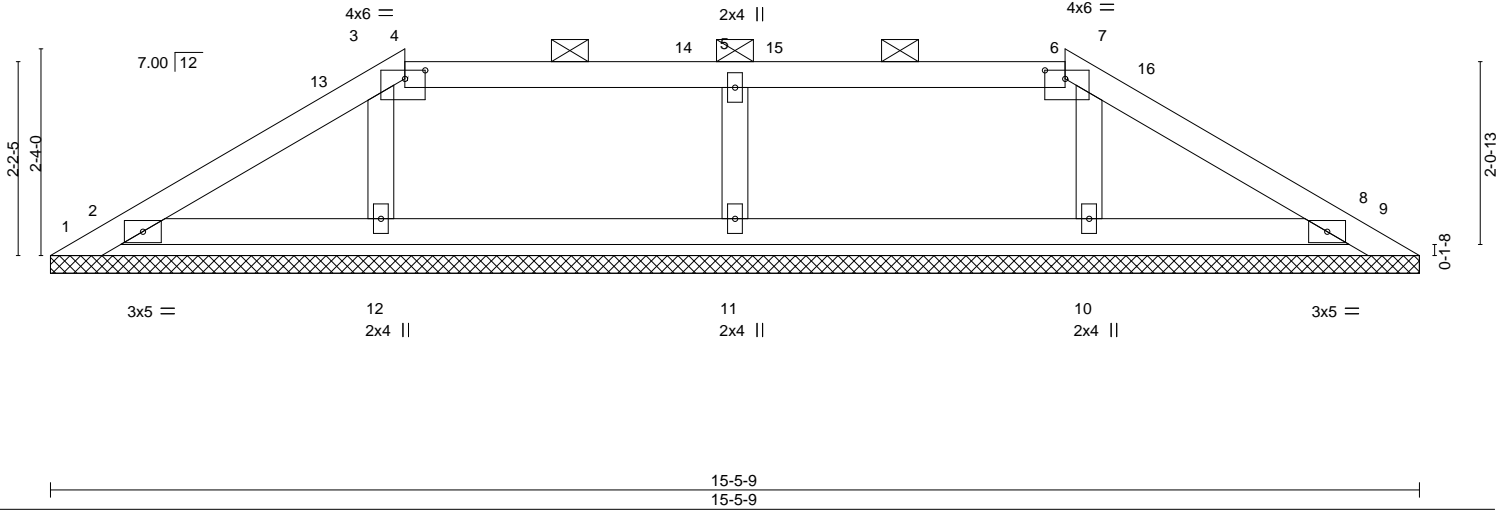


Plate Offsets (X,Y)-- [4:0-2-12,0-1-3], [6:0-2-12,0-1-3]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 52 lb	FT = 20%

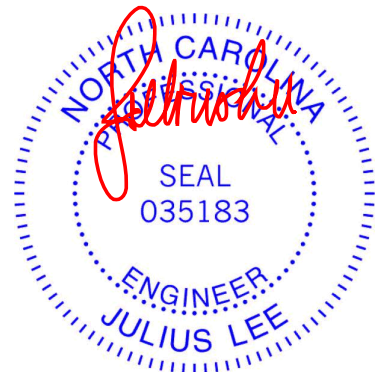
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-5-9.
(lb) - Max Horz 1=42(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 8, 11, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8 except 11=346(LC 23), 12=266(LC 1), 10=266(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-11--264/114

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 4-0-1, Exterior(2R) 4-0-1 to 8-2-15, Interior(1) 8-2-15 to 11-5-9, Exterior(2E) 11-5-9 to 15-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 11, 12, and 10. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

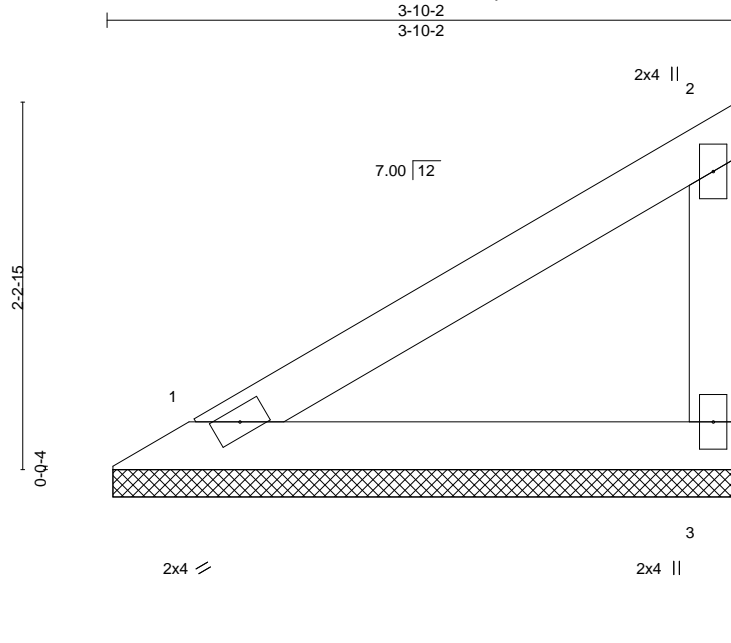


818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss V2A	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228512
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:28 2022 Page 1
ID:Qlj0K5bXobraOovdZu2Jzzt7J5-R?mOu82KFpc5sYsw_EV7iGF90rRI9d60l4hGwzY?_5



Scale = 1:14.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 14 lb	FT = 20%

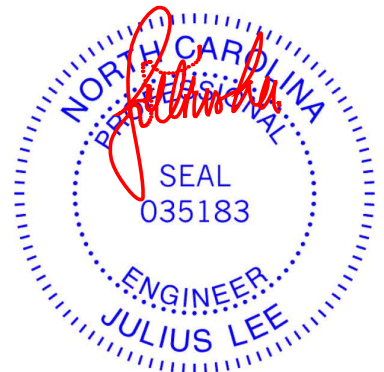
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=3-9-11, 3=3-9-11
Max Horz 1=64(LC 9)
Max Uplift 1=-4(LC 12), 3=-13(LC 9)
Max Grav 1=126(LC 1), 3=130(LC 17)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



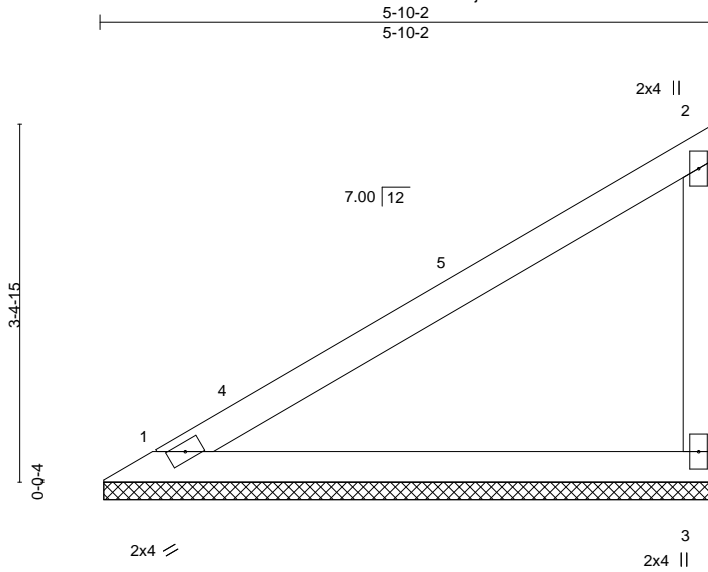
March 25, 2022

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



818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss V2	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228513
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:28 2022 Page 1
					ID:tQlj0K5bXobraOovdZu2Jzzt7J5-R?mOu82KFpc5sYsw_EV7tGF3ZrNu9d60l4hGwzY?_5



Scale = 1:21.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 22 lb	FT = 20%

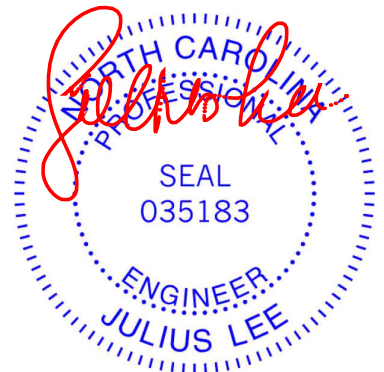
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-9-11, 3=5-9-11
Max Horz 1=105(LC 9)
Max Uplift 1=-7(LC 12), 3=-21(LC 9)
Max Grav 1=206(LC 1), 3=212(LC 17)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-8-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25, 2022

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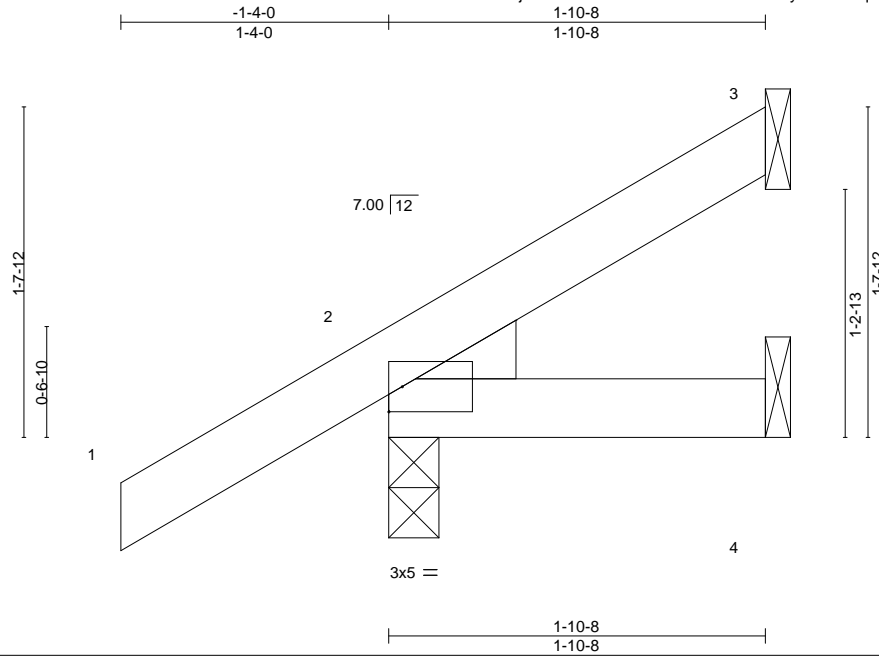


818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss J2	Truss Type JACK-OPEN	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228514
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:07 2022 Page 1
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Scale = 1:11.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 9 lb	FT = 20%

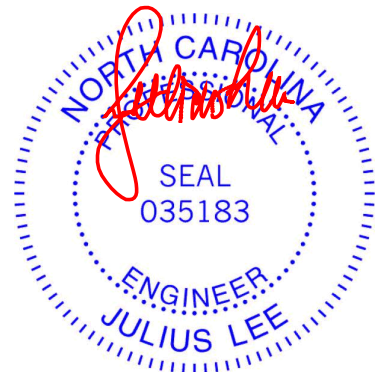
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-15(LC 12), 2=-70(LC 12), 4=-9(LC 9)
Max Grav 3=36(LC 17), 2=183(LC 1), 4=30(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25, 2022

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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 22020379-01	Truss M2GR	Truss Type JACK-OPEN GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228515
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:11 2022 Page 1
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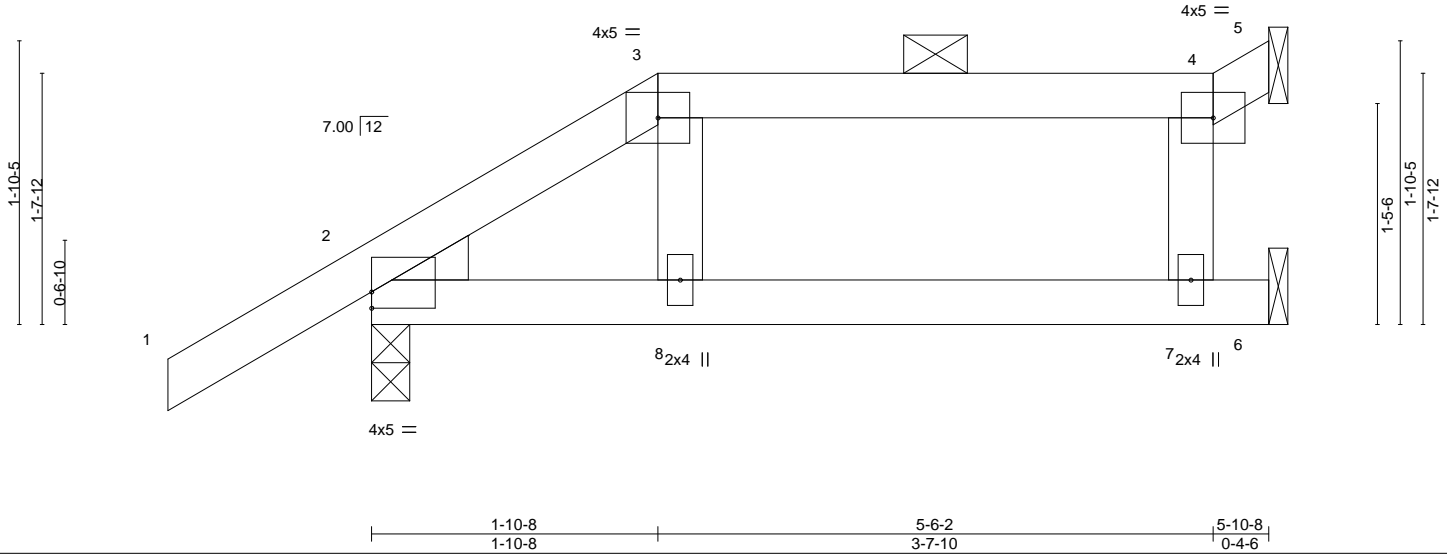


Plate Offsets (X,Y)-- [2:0-0-0,0-1-5]		1-10-8		5-6-2		5-10-8			
		1-10-8		3-7-10		0-4-6			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.19	7-8	>367	240	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.24	7-8	>291	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT) 0.11	5	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP							
								Weight: 25 lb	FT = 20%

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

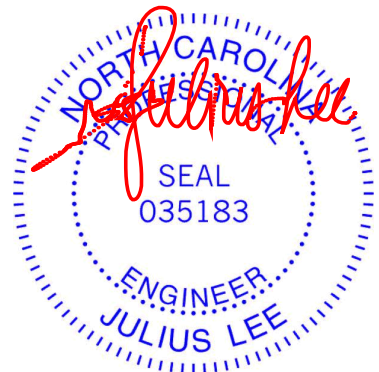
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-0, 6=Mechanical
Max Horz 2=70(LC 8)
Max Uplift 5=-4(LC 8), 2=-144(LC 8), 6=-105(LC 5)
Max Grav 5=9(LC 1), 2=356(LC 1), 6=232(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=105.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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) 100 lb down and 29 lb up at 1-10-8 on top chord, and 80 lb down and 78 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-60, 6-9=-20



March 25, 2022

Continued on page 2

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

Job 22020379-01	Truss M2GR	Truss Type JACK-OPEN GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228515
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:12 2022 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8--52(F)

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

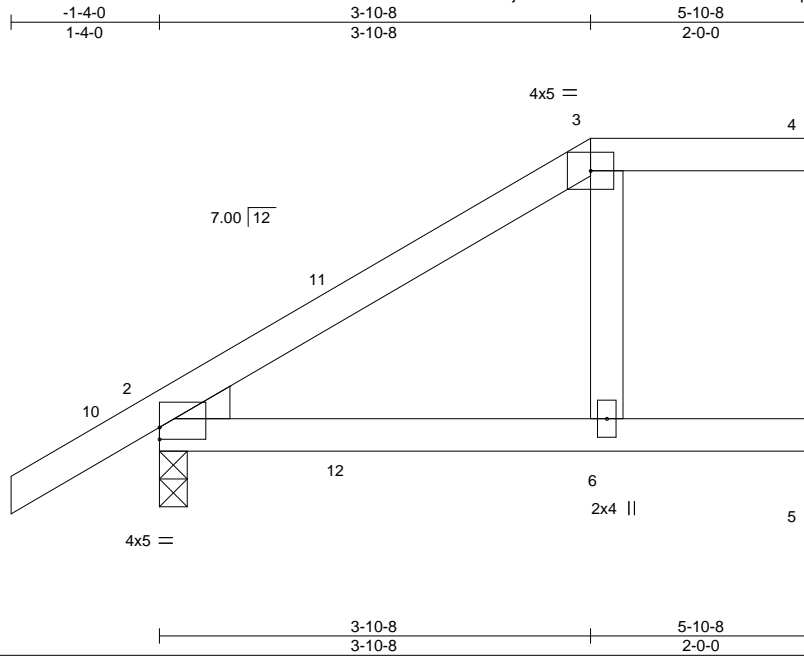
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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**

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818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss M2A	Truss Type JACK-OPEN	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228516
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:11 2022 Page 1
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					Job Reference (optional)



Scale = 1:20.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.21	6-9	>332	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.17	6-9	>404	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.13	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 25 lb	FT = 20%

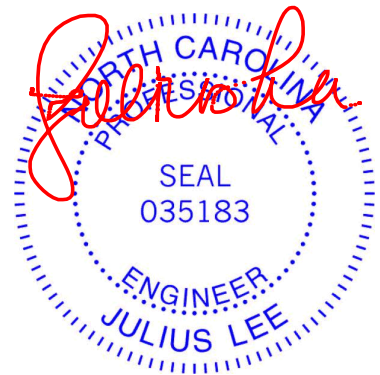
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0, 5=Mechanical
Max Horz 2=100(LC 12)
Max Uplift 4=-25(LC 8), 2=-104(LC 12), 5=-66(LC 12)
Max Grav 4=58(LC 1), 2=322(LC 1), 5=165(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-10-8, Exterior(2E) 3-10-8 to 5-9-12 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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



Job 22020379-01	Truss M2	Truss Type JACK-OPEN	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228517
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:10 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-yYgb6_q2UHLehnUTwSAv8TV_BbC4xUfNczjkdzzY?_N



Scale: 1/2"=1'

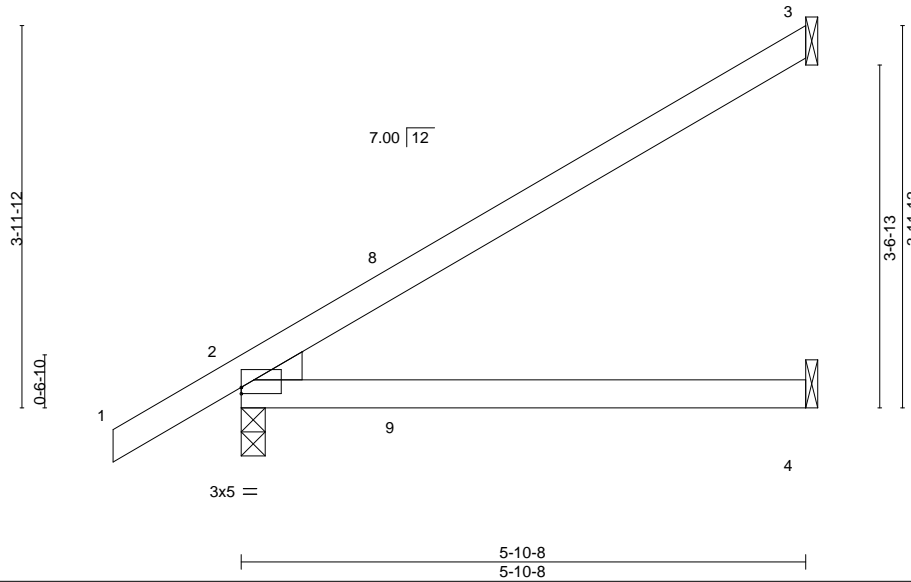


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	0.15 4-7	>456	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.12 4-7	>603	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 22 lb	FT = 20%

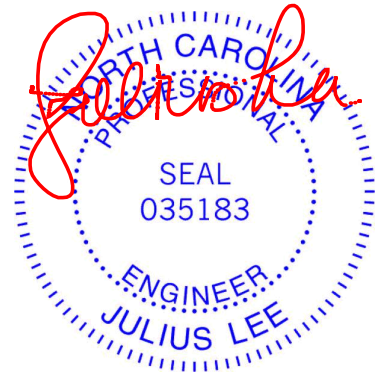
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=132(LC 12)
Max Uplift 3=-69(LC 12), 2=-87(LC 12), 4=-30(LC 12)
Max Grav 3=153(LC 1), 2=322(LC 1), 4=109(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-9-12 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25, 2022

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

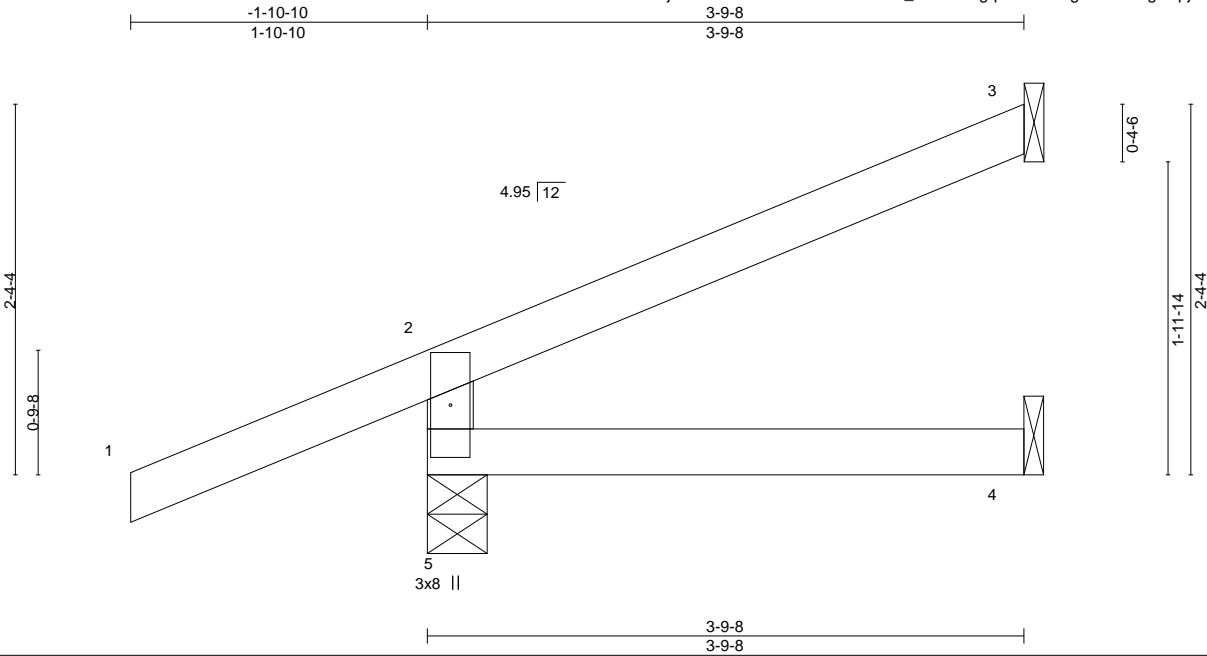
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss CJ1	Truss Type DIAGONAL HIP GIRDER	Qty 3	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228518
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:42 2022 Page 1
 ID:tQlj0K5bXobraOovdZu2Jztt7J5-n9_?EPUU4gqdKUL4HagL0ZLGDlg0NpjFACxGebzY?_p



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.02	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.04	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 15 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

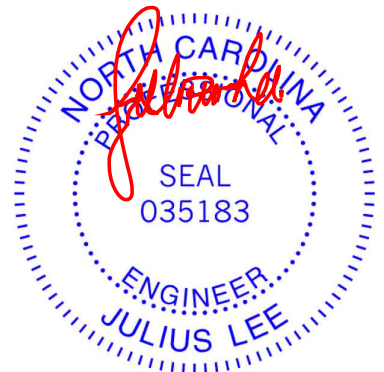
REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical
 Max Horz 5=92(LC 7)
 Max Uplift 5=-58(LC 17), 3=-3(LC 7), 4=-41(LC 5)
 Max Grav 5=134(LC 3), 3=55(LC 1), 4=168(LC 13)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1 lb down and 3 lb up at -1-10-10, and 1 lb down and 3 lb up at -1-10-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-20(F=40)
 Concentrated Loads (lb)
 Vert: 1=5(F=2, B=2)
 Trapezoidal Loads (plf)
 Vert: 1=40(F=70, B=30)-to-2=0(F=50, B=10), 5=-46(F=-13, B=-13)-to-4=-107(F=-44, B=-44)



March 25, 2022

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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 **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

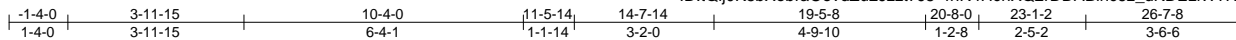
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 22020379-01	Truss H1SF	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228519
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:06 2022 Page 1

ID:1Qij0K5bXobraOovdZu2Jzzt7J5-4nR4HcnXQ2DDABihc6z_dkDEziW?R1nhLiXUCzy?_R



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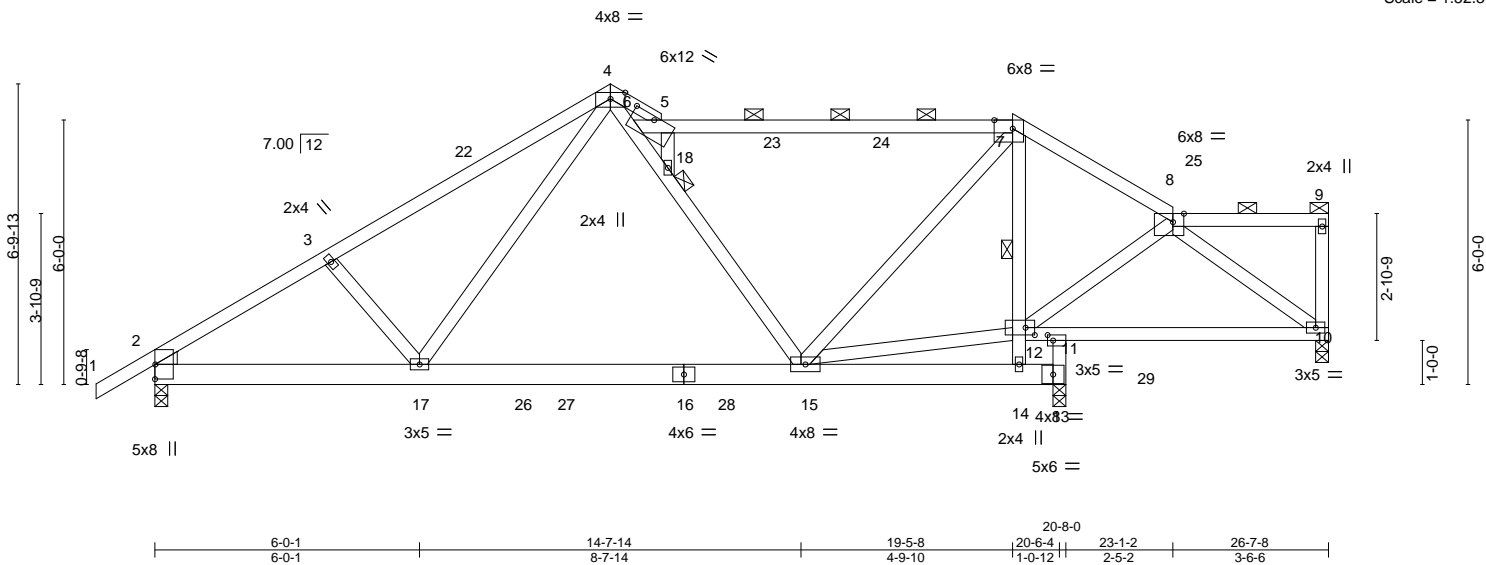


Plate Offsets (X,Y)-- [5:0-6-0,0-1-0], [7:0-5-0,Edge], [8:0-3-0,Edge], [11:0-1-8,0-1-8], [12:0-2-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.12 15-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.34 15-17	>718	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 176 lb	FT = 20%

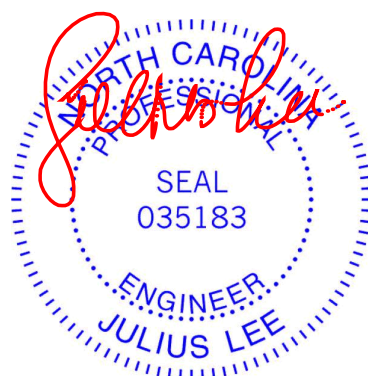
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
2-16,13-16: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-17,4-15: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-7, 8-9.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.
WEBS 1 Row at midpt 7-14
JOINTS 1 Brace at Jt(s): 9, 18

REACTIONS. (size) 10=0-3-8, 2=0-3-8, 13=0-3-8
Max Horz 2=165(LC 11)
Max Uplift 10=-73(LC 9)
Max Grav 10=66(LC 26), 2=1137(LC 17), 13=1580(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1648/0, 3-4=-1532/0, 4-5=-1246/0, 5-6=-19/408, 5-7=-753/0, 7-8=-40/350
BOT CHORD 2-17=0/1448, 15-17=0/906, 14-15=-1/519, 13-14=0/564, 11-13=-600/220, 11-12=-670/7
WEBS 4-17=0/728, 4-6=0/553, 6-18=0/355, 15-18=-356/156, 7-15=0/1442, 12-14=-1118/0, 7-12=-1580/0, 12-15=-721/80, 5-18=-736/64

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-4-0, Exterior(2E) 10-4-0 to 11-7-10, Interior(1) 11-7-10 to 19-5-8, Exterior(2R) 19-5-8 to 22-5-8, Interior(1) 22-5-8 to 26-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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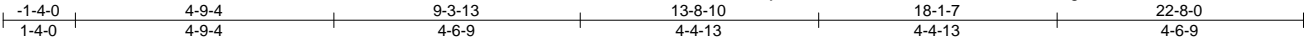


Job 22020379-01	Truss H1GRB	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228520
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:55 2022 Page 1

ID:Qlj0K5bXobraOovdZu2Jzzt7J5-ufGwzree0gSnOUraYoPO1JNQ0Y07wY7AA7aSBzLzY?_c



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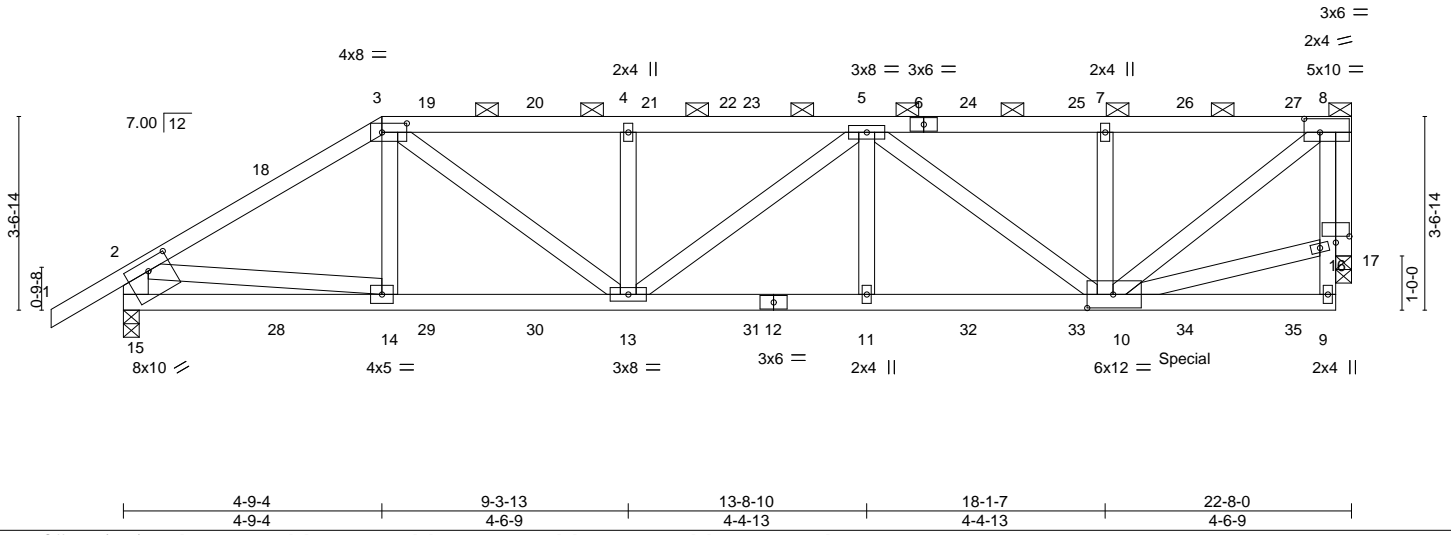


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0], [8:0-3-8,0-3-0], [10:0-5-12,0-3-0], [15:0-5-0,0-2-4], [16:0-3-0,0-1-6]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.09 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.18 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.69	Horz(CT)	0.03 17	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 139 lb	FT = 20%

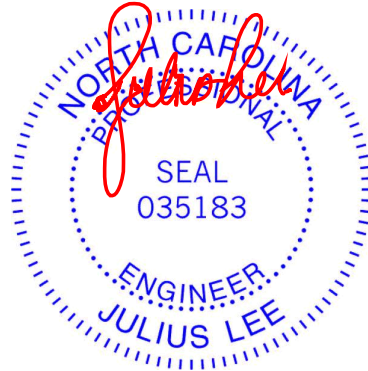
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-15: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-6 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 15=0-3-8, 17=0-3-8
Max Horz 15=111(LC 8)
Max Uplift 15=-242(LC 8), 17=-217(LC 5)
Max Grav 15=1527(LC 1), 17=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2021/276, 3-4=-2389/353, 4-5=-2389/353, 5-7=-1511/236, 7-8=-1473/220, 2-15=-1434/251
BOT CHORD 14-15=-154/359, 13-14=-263/1660, 11-13=-366/2337, 10-11=-366/2337
WEBS 3-13=-126/900, 4-13=-424/185, 5-11=0/285, 5-10=-1007/142, 7-10=-408/180, 8-10=-238/1673, 2-14=-159/1334, 8-17=-1400/219

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 17. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 72 lb up at 2-10-0, 88 lb down and 77 lb up at 4-9-4, 95 lb down and 74 lb up at 5-7-4, 97 lb down and 73 lb up at 7-7-4, 97 lb down and 73 lb up at 9-7-4, 97 lb down and 73 lb up at 11-7-4, 97 lb down and 73 lb up at 13-7-4, 97 lb down and 73 lb up at 15-7-4, 97 lb down and 73 lb up at 17-7-4, and 97 lb down and 73 lb up at 19-7-4, and 90 lb down and 73 lb up at 21-7-4 on top chord, and 102 lb down and 43 lb up at 2-10-0, 45 lb down at 4-10-0, 45 lb down at 5-7-4, 45 lb down at 7-7-4, 45 lb down at 9-7-4, 45 lb down at 11-7-4, 45 lb down at 13-7-4, 45 lb down at 15-7-4, 45 lb down at 17-7-4, and 45 lb down at 19-7-4, and 53 lb down at 21-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



March 25, 2022

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

Job 22020379-01	Truss H1GRB	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228520
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:55 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jztt7J5-ufGwzree0gSnOUraYoPO1JNQ0Y07wY7AA7aSbLzY?_c

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 3=-58(B) 14=-30(B) 13=-30(B) 4=-58(B) 11=-30(B) 5=-58(B) 18=-68(B) 19=-58(B) 20=-58(B) 23=-58(B) 24=-58(B) 25=-58(B) 26=-58(B) 27=-65(B) 28=-102(B)
29=-30(B) 30=-30(B) 31=-30(B) 32=-30(B) 33=-30(B) 34=-30(B) 35=-34(B)

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



818 Soundside Road
Edenton, NC 27932

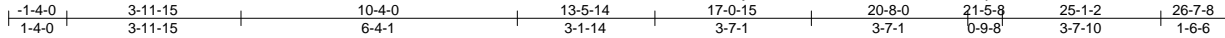
Job 22020379-01	Truss H1GRS	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228521
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Carter Components (Lexington), Lexington, NC - 27295,

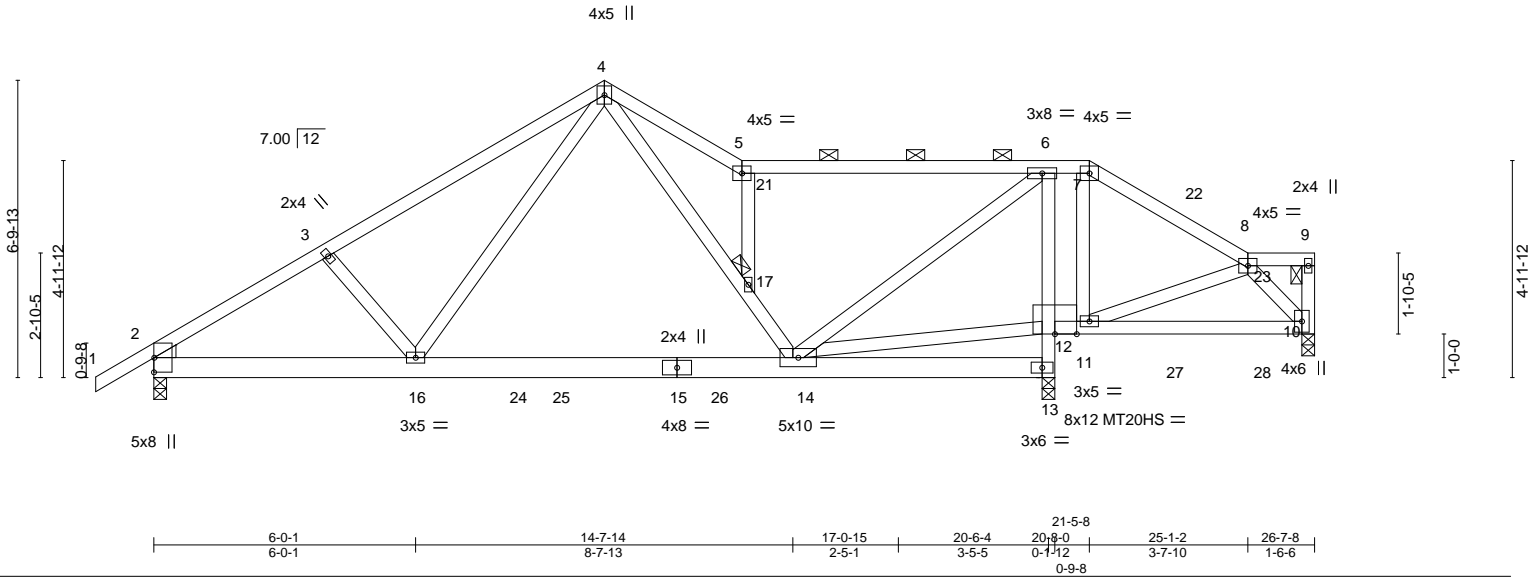
8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:56 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-NrqlABfGn_ad0eQn6WwdaWwYmxKAfzJOnK?7nzY?_b

Job Reference (optional)



Scale = 1:52.8



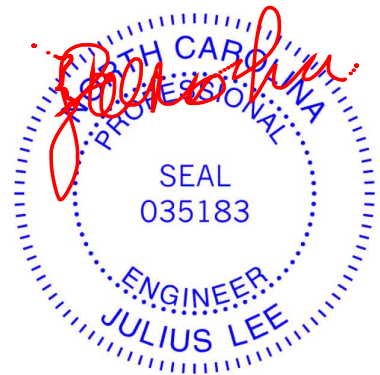
LOADING (psf)	SPACING-	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	Vert(LL) 0.10 10-11 >722 240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.86	Vert(CT) -0.33 14-16 >737 180	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Horz(CT) -0.02 10 n/a n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS		Weight: 176 lb	FT = 20%
	Code IRC2018/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-7: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7, 8-9.
BOT CHORD 2x6 SP No.2 *Except* 6-13,10-12: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 3-0-14 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-16,4-14: 2x4 SP No.1	JOINTS 1 Brace at Jt(s): 9, 17
WEDGE Left: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 10=0-3-8
 Max Horz 2=150(LC 7)
 Max Uplift 10=718(LC 13)
 Max Grav 2=973(LC 31), 13=2427(LC 2), 10=163(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1387/0, 3-4=-1266/0, 4-5=-541/0, 5-6=-467/0, 6-7=-13/1152, 7-8=-70/1342
 BOT CHORD 2-16=0/1234, 14-16=0/623, 13-14=-520/0, 12-13=-2415/0, 6-12=-1947/0,
 11-12=-1177/110, 10-11=-647/81
 WEBS 8-10=-33/961, 4-16=0/814, 3-16=-265/167, 4-17=-306/159, 14-17=-570/143,
 5-17=-385/18, 6-14=0/1892, 7-11=-286/19, 8-11=-567/39, 12-14=-756/192

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 13, 10 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) except (jt=lb) 10=718.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

Continued on page 2

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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Job 22020379-01	Truss H1GRS	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228521
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:56 2022 Page 2
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NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 94 lb up at 21-5-8, and 39 lb down and 47 lb up at 23-4-12, and 31 lb down and 10 lb up at 25-4-12 on top chord, and 69 lb down and 39 lb up at 21-4-12, and 145 lb down and 66 lb up at 23-4-12, and 212 lb down and 105 lb up at 25-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 5-7=-60, 7-8=-60, 8-9=-60, 13-18=-20, 10-12=-20

Concentrated Loads (lb)

Vert: 7=-93(F) 11=-51(F) 24=-175 26=-175 27=-145(F) 28=-212(F)

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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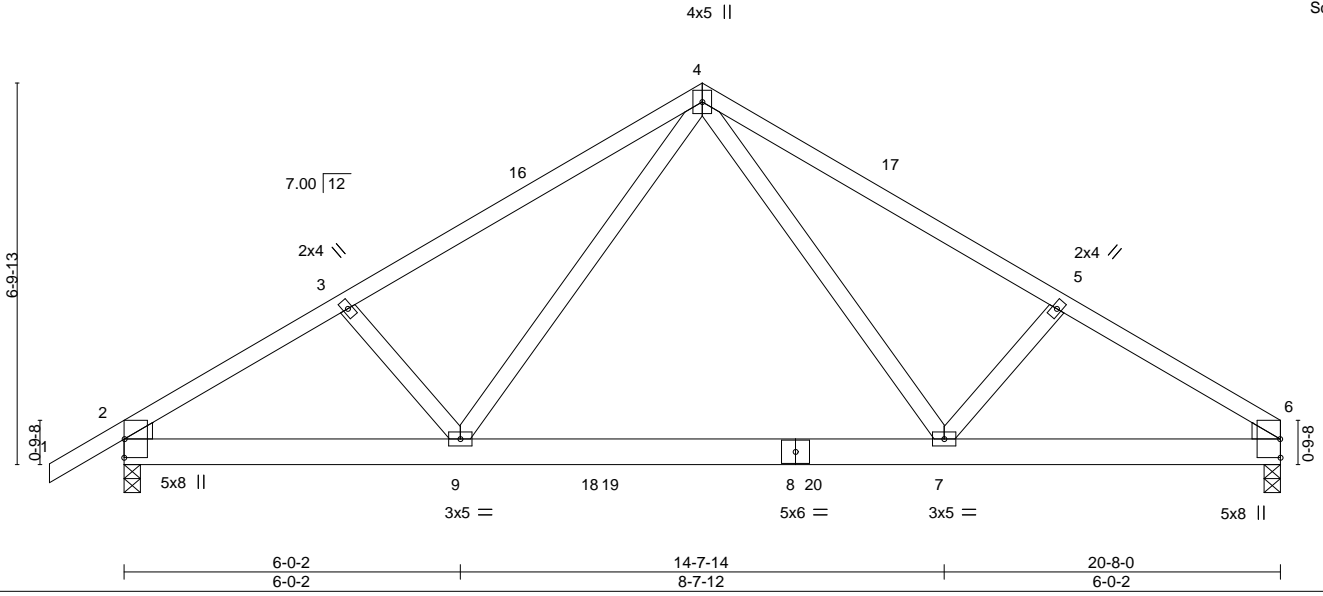
818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss T2	Truss Type COMMON	Qty 2	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228522
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:25 2022 Page 1
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Scale = 1:41.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.10 7-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.31 7-9 >802 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 119 lb	FT = 20%

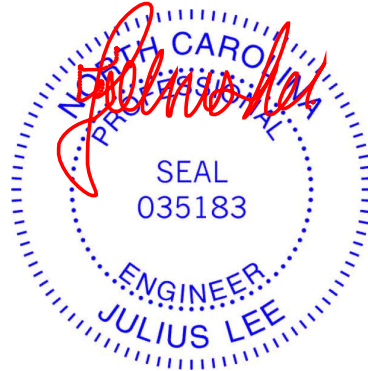
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=132(LC 11)
Max Grav 2=1178(LC 17), 6=1103(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1741/0, 3-4=-1621/0, 4-5=-1632/0, 5-6=-1752/0
BOT CHORD 2-9=0/1542, 7-9=0/957, 6-7=0/1463
WEBS 4-7=0/786, 5-7=-269/171, 4-9=0/772, 3-9=-264/171

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



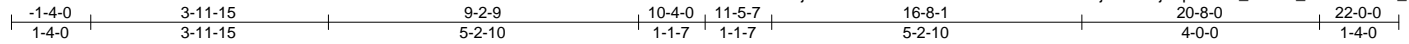
March 25, 2022

Job 22020379-01	Truss T2A	Truss Type COMMON	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228523
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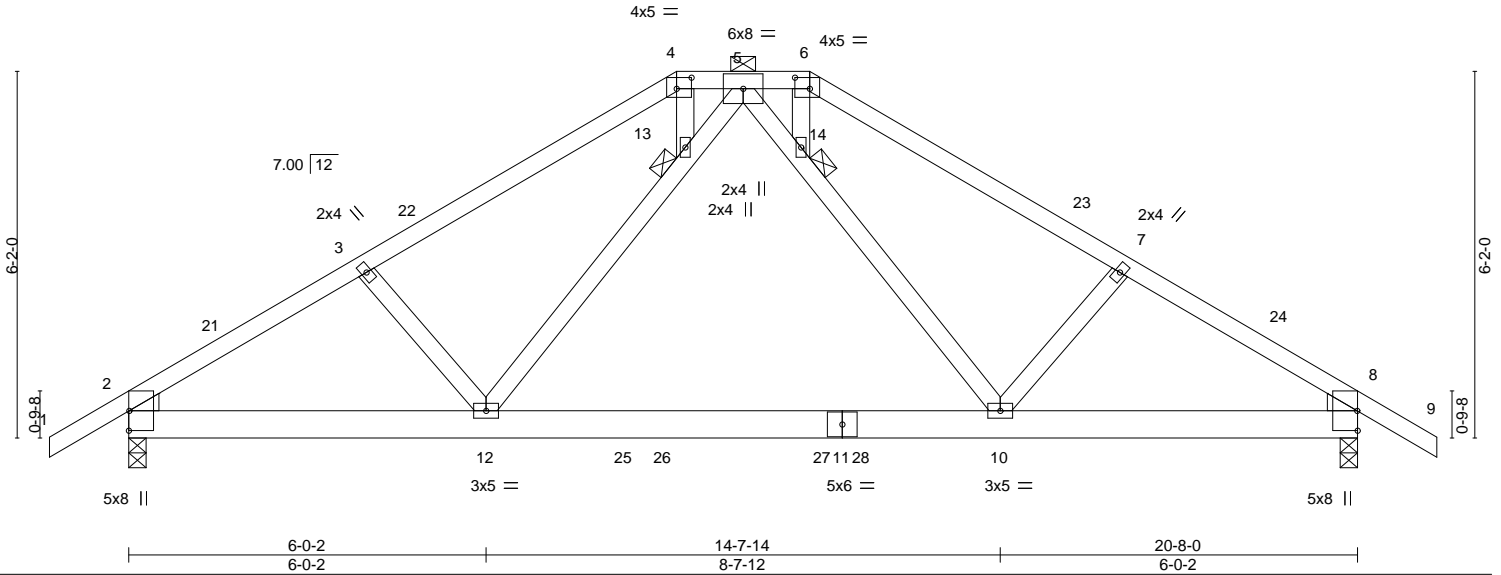
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:26 2022 Page 1

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Scale = 1:38.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.11 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.68	Vert(CT) -0.34 10-12 >736 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 123 lb	FT = 20%

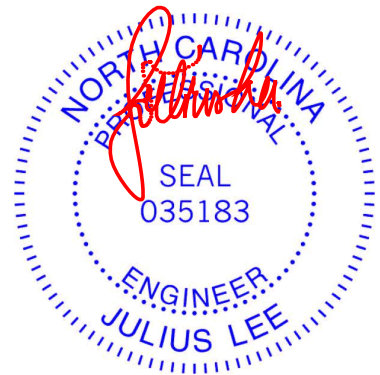
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 13, 14

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=123(LC 10)
Max Grav 2=1175(LC 17), 8=1175(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1701/0, 3-4=-1592/0, 6-7=-1592/0, 7-8=-1702/0, 4-5=-1341/0, 5-6=-1341/0
BOT CHORD 2-12=0/1491, 10-12=0/953, 8-10=0/1399
WEBS 5-14=0/696, 10-14=0/730, 12-13=0/730, 5-13=0/696

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-2-9, Exterior(2E) 9-2-9 to 11-5-7, Exterior(2R) 11-5-7 to 15-8-6, Interior(1) 15-8-6 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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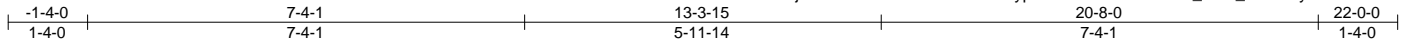
818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss T2GS	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228524
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:27 2022 Page 1

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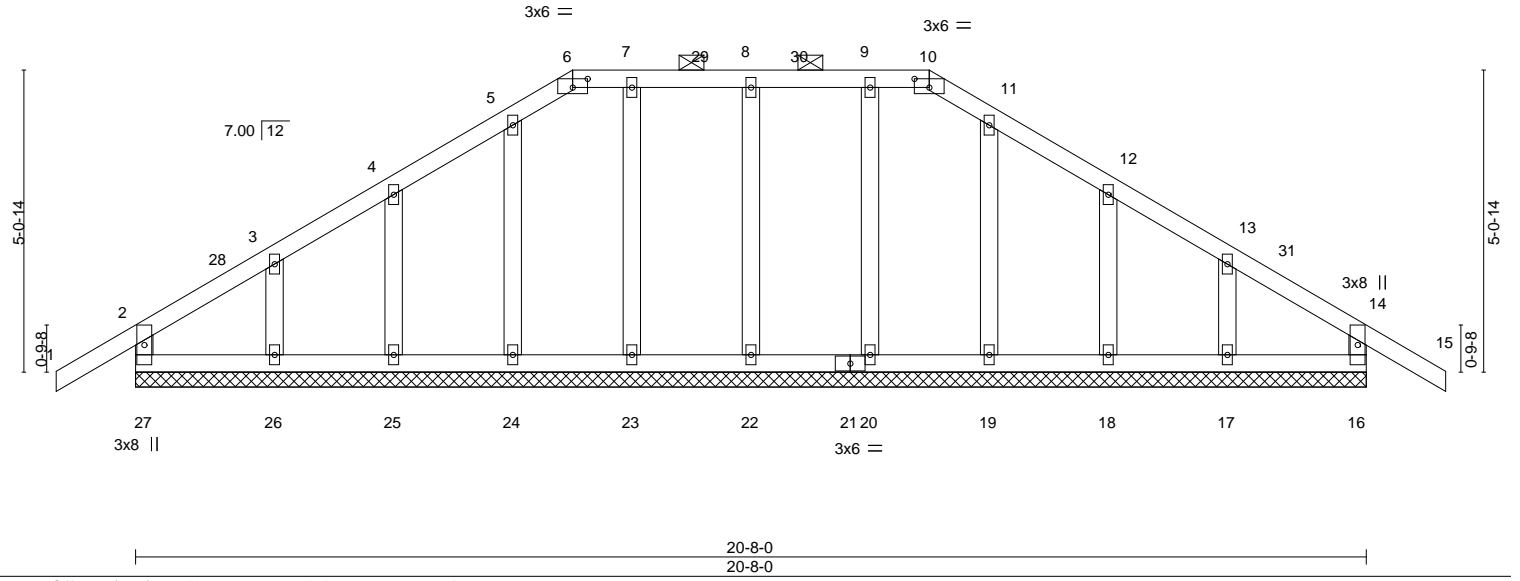


Plate Offsets (X,Y)-- [6:0-3-0,0-1-12], [10:0-3-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.01 15	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.01 15	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00 16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 116 lb	FT = 20%

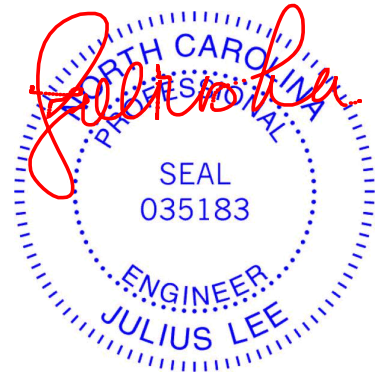
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 20-8-0.
 (lb) - Max Horz 27=120(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 27, 16, 22, 23, 25, 26, 20, 18, 17
 Max Grav All reactions 250 lb or less at joint(s) 27, 16, 22, 23, 24, 25, 26, 20, 19, 18, 17

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 7-4-1, Corner(3R) 7-4-1 to 10-4-0, Exterior(2N) 10-4-0 to 13-3-15, Corner(3R) 13-3-15 to 16-4-0, Exterior(2N) 16-4-0 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27, 16, 22, 23, 25, 26, 20, 18, and 17. This connection is for uplift only and does not consider lateral forces.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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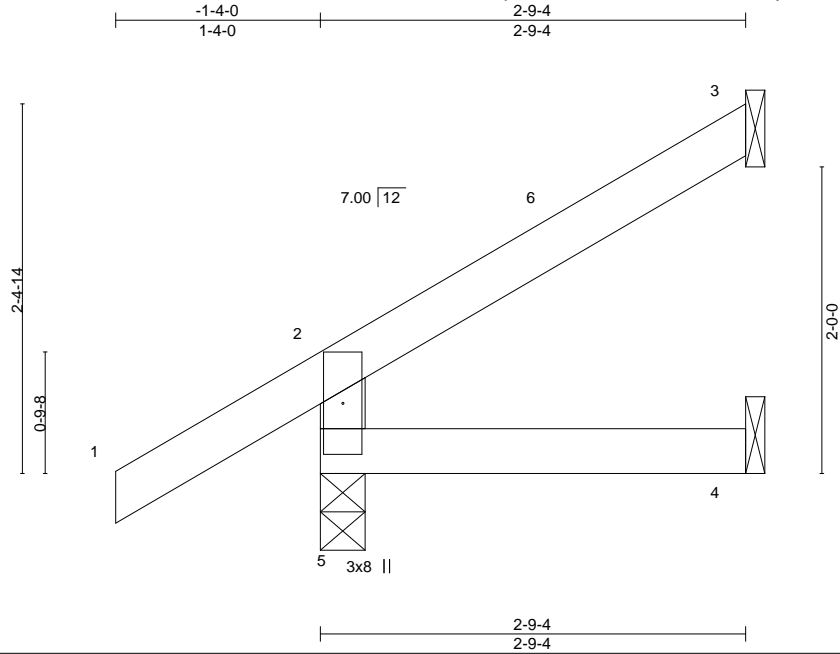


818 Soundside Road
 Edenton, NC 27932

Job 22020379-01	Truss J1	Truss Type JACK-OPEN	Qty 3	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228525
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:07 2022 Page 1
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Scale = 1:15.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 4-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 12 lb	FT = 20%

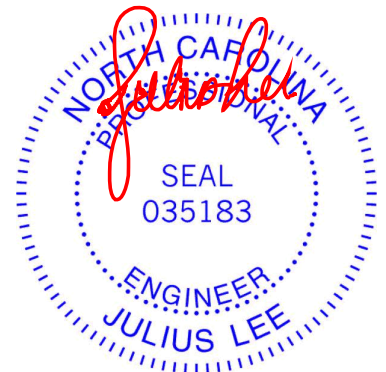
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=93(LC 12)
Max Uplift 5=-41(LC 12), 3=-27(LC 12)
Max Grav 5=217(LC 1), 3=60(LC 17), 4=46(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-8-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25, 2022

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 22020379-01	Truss M1GR	Truss Type JACK-OPEN GIRDER	Qty 3	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228526
Carter Components (Lexington), Lexington, NC - 27295,					8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:09 2022 Page 1
					ID:tQJj0K5bXobraOovdZu2Jzzt7J5-UL7DvcpQjzDn4dwHMlfgcGyssBsmC1ED0JzB5XzY?_O
Job Reference (optional)					

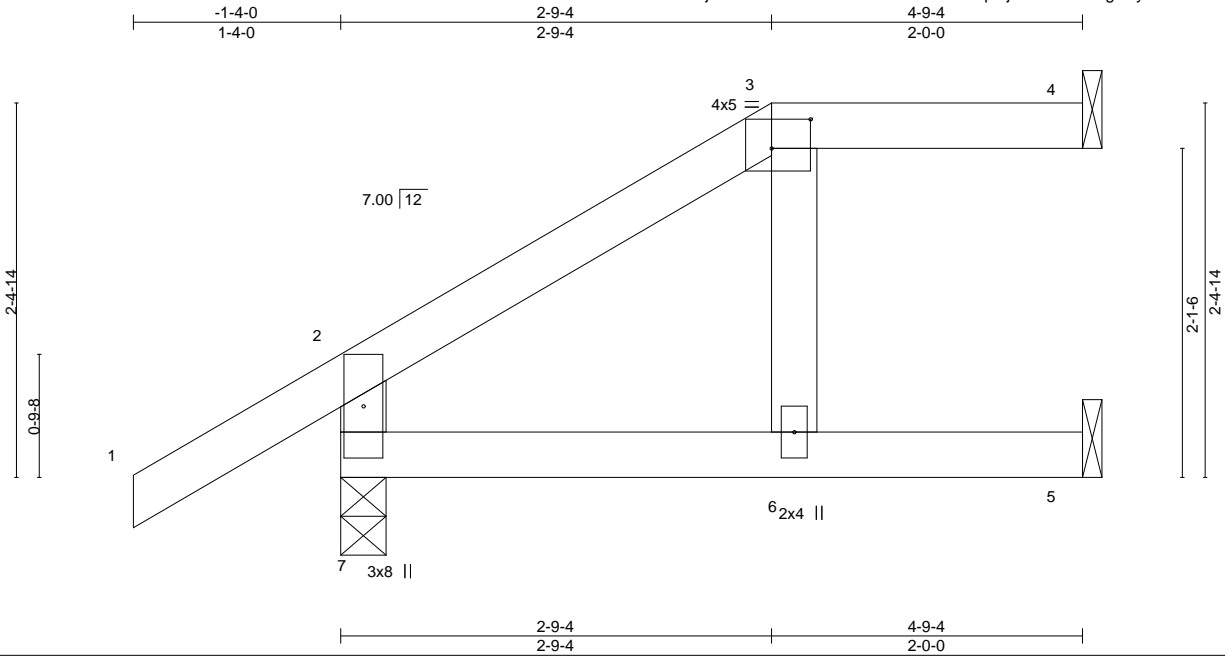


Plate Offsets (X,Y)-- [3:0-3-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.04 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.08 6-7	>710	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.07 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 21 lb	FT = 20%

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 4-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=95(LC 8)
Max Uplift 7=-74(LC 8), 4=-41(LC 5), 5=-22(LC 5)
Max Grav 7=339(LC 1), 4=128(LC 1), 5=132(LC 31)

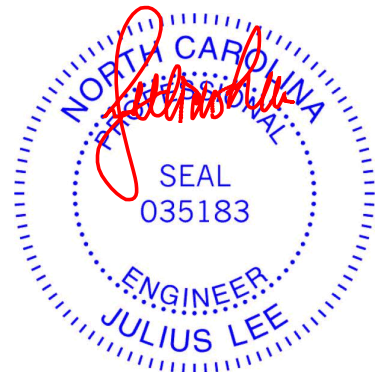
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 91 lb up at 2-9-4 on top chord, and 129 lb down and 70 lb up at 2-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-8(B) 6=-127(B)



March 25, 2022

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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



818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss M1S	Truss Type MONOPITCH	Qty 9	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228527
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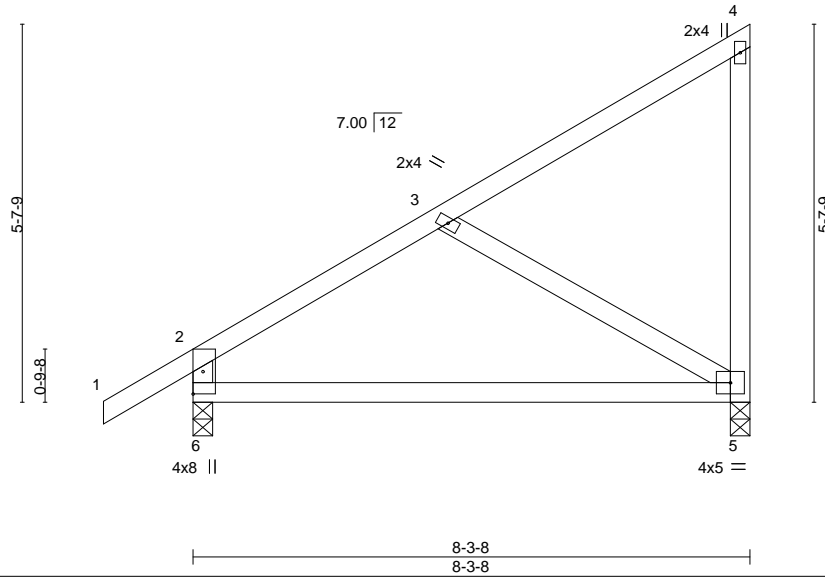
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:09 2022 Page 1

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Scale = 1:34.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) 0.34 5-6 >280 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.29 5-6 >329 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.00 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 44 lb	FT = 20%

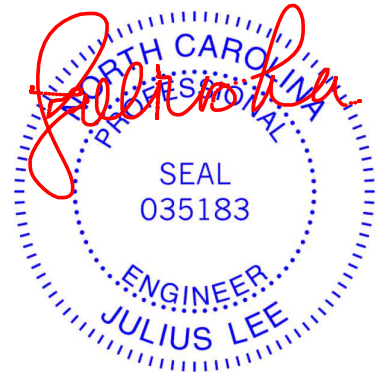
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.

REACTIONS. (size) 6=0-3-8, 5=0-3-8
 Max Horz 6=185(LC 12)
 Max Uplift 6=-100(LC 12), 5=-145(LC 12)
 Max Grav 6=417(LC 1), 5=312(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-317/104, 2-6=-331/144
 BOT CHORD 5-6=-282/225
 WEBS 3-5=-251/291

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-1-12 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 5. This connection is for uplift only and does not consider lateral forces.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25, 2022

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



Job 22020379-01	Truss M1	Truss Type JACK-OPEN	Qty 22	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228528
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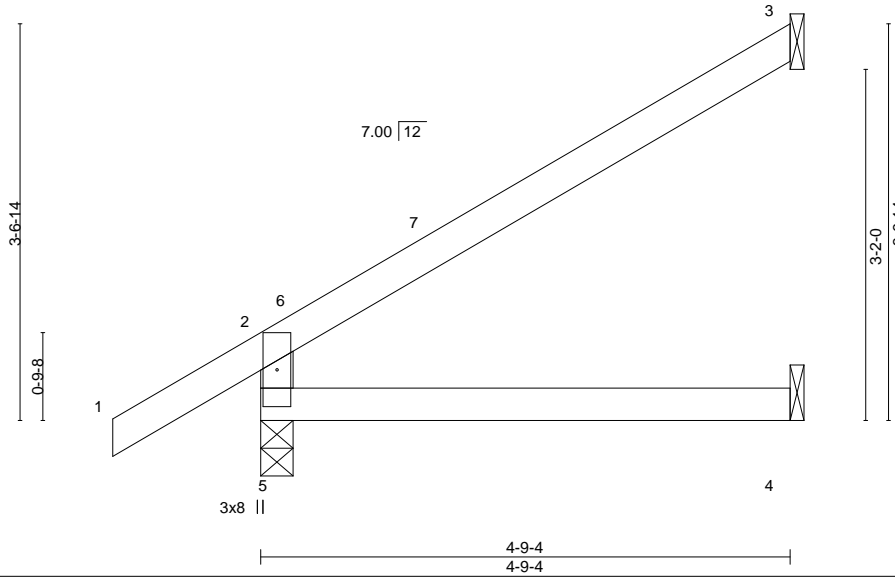
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:08 2022 Page 1

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Scale = 1:20.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.02 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.04 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR					Weight: 18 lb	FT = 20%

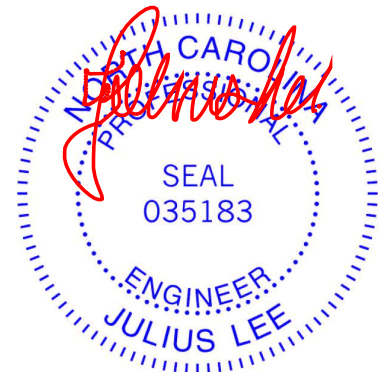
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=127(LC 12)
Max Uplift 5=-32(LC 12), 3=-52(LC 12)
Max Grav 5=286(LC 1), 3=121(LC 17), 4=85(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 25, 2022

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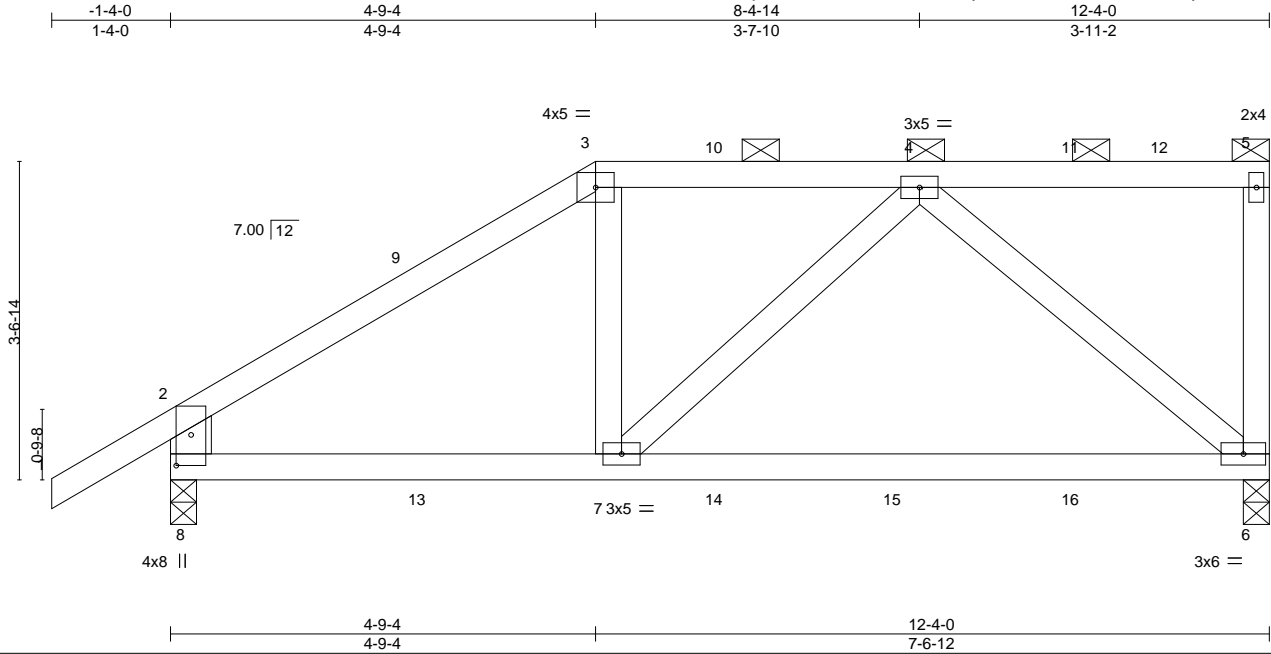


818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1GRA	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228529
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:53 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-yG9AYAcNU3C39AhCQONwyl?CkJdSjUt5pLXSzY?_e



Scale = 1:25.9

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.13 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.28 6-7	>507	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.01 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8: 2x6 SP No.2

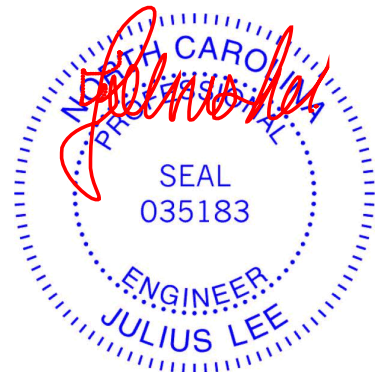
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=127(LC 5)
Max Uplift 8=158(LC 8), 6=168(LC 5)
Max Grav 8=853(LC 1), 6=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-952/113, 3-4=-722/124, 2-8=-755/156
BOT CHORD 7-8=-151/715, 6-7=-176/603
WEBS 3-7=0/262, 4-6=-757/212

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 72 lb up at 2-10-0, 89 lb down and 77 lb up at 4-9-4, 97 lb down and 73 lb up at 6-2-0, and 97 lb down and 73 lb up at 8-2-0, and 97 lb down and 73 lb up at 10-2-0 on top chord, and 102 lb down and 43 lb up at 2-10-0, 45 lb down at 4-10-0, 45 lb down at 6-2-0, and 45 lb down at 8-2-0, and 45 lb down at 10-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-8=-20



March 25, 2022

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1GRA	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228529
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:53 2022 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)

Vert: 3=-58(F) 5=-87(F) 7=-30(F) 4=-58(F) 9=-68(F) 10=-58(F) 11=-58(F) 13=-102(F) 14=-30(F) 15=-30(F) 16=-30(F)

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 22020379-01	Truss H1GR	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228530
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:52 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-U4bnKqclj4CX06?tgshQglrFKxOjCjT9Mo_0zY?_f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 3=-58(B) 9=-30(B) 11=-68(B) 13=-58(B) 14=-58(B) 15=-58(B) 17=-58(B) 18=-58(B) 19=-58(B) 20=-102(B) 21=-30(B) 22=-30(B) 23=-30(B) 24=-30(B) 25=-30(B) 26=-30(B)

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



818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1E	Truss Type HALF HIP	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228531
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:51 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-0u1P7Ub7yRyLvsXpJzKStTCgWwL_pBaFVcESazY?_g



Scale = 1:35.1

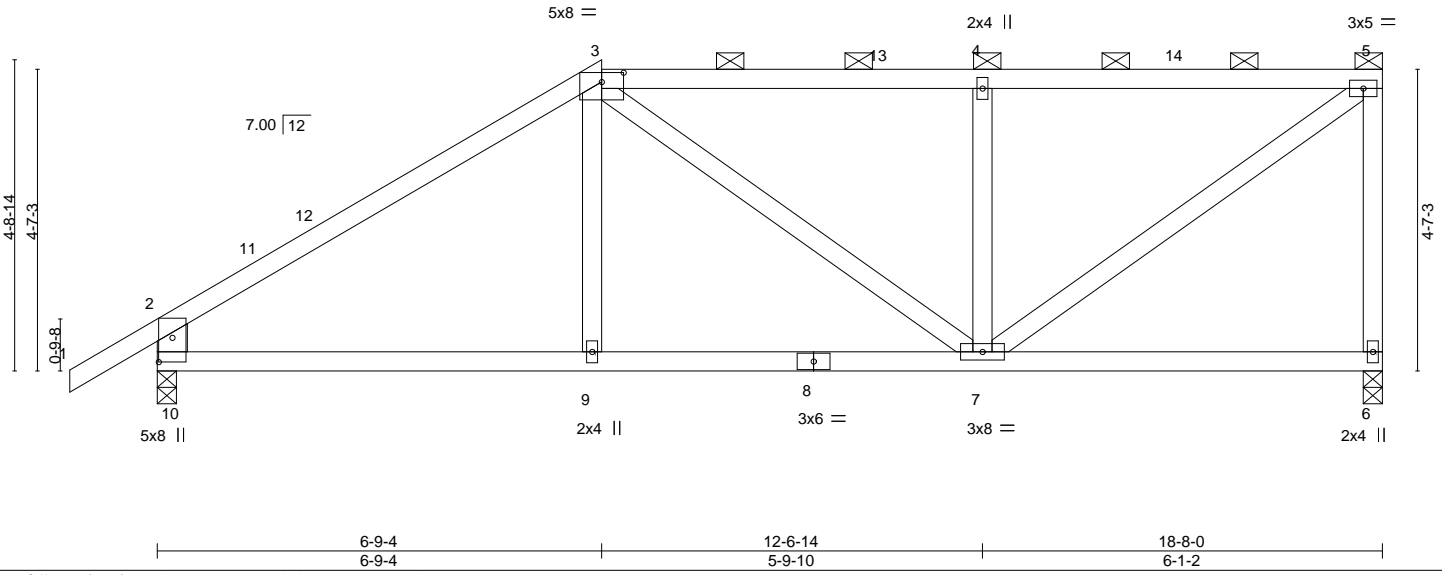


Plate Offsets (X,Y)-- [3:0-4-0,0-1-11], [10:0-4-7,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.05	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.11	7-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 99 lb	FT = 20%

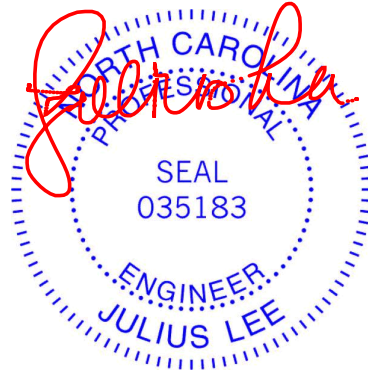
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-10: 2x6 SP No.2

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

REACTIONS. (size) 6=0-3-8, 10=0-3-8
Max Horz 10=163(LC 11)
Max Uplift 6=-122(LC 9), 10=-92(LC 12)
Max Grav 6=728(LC 1), 10=829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-951/73, 3-4=-745/96, 4-5=-743/95, 5-6=-675/150, 2-10=-751/134
BOT CHORD 9-10=-148/720, 7-9=-150/716
WEBS 4-7=-424/177, 5-7=-150/893

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-9-4, Exterior(2R) 6-9-4 to 11-0-3, Interior(1) 11-0-3 to 18-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

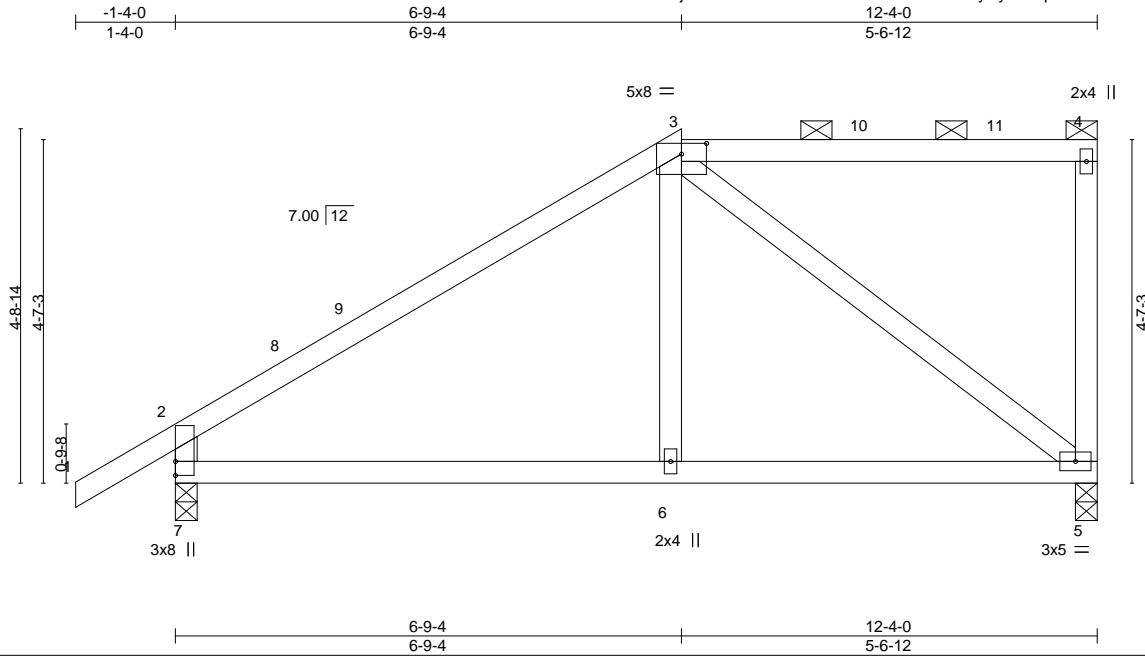
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



Job 22020379-01	Truss H1EA	Truss Type HALF HIP	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228532
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:51 2022. Page 1
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-0u1P7Ub7yRyLvsXpJzKStTCi9wkr_oUaFVcESazY?_g



Scale = 1:30.8

Plate Offsets (X,Y)-- [3:0-4-0,0-1-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.04 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.08 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 63 lb	FT = 20%

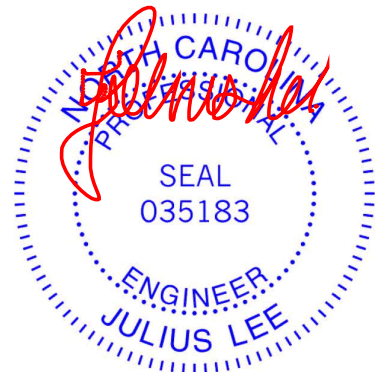
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 7=0-3-8, 5=0-3-8
Max Horz 7=162(LC 11)
Max Uplift 7=-74(LC 12), 5=-77(LC 9)
Max Grav 7=576(LC 1), 5=476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-533/81, 2-7=-517/162
BOT CHORD 6-7=-152/372, 5-6=-154/368
WEBS 3-6=0/273, 3-5=-444/140

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-9-4, Exterior(2R) 6-9-4 to 11-0-3, Interior(1) 11-0-3 to 12-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

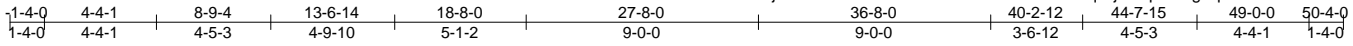
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1D	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228533
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:50 2022 Page 1
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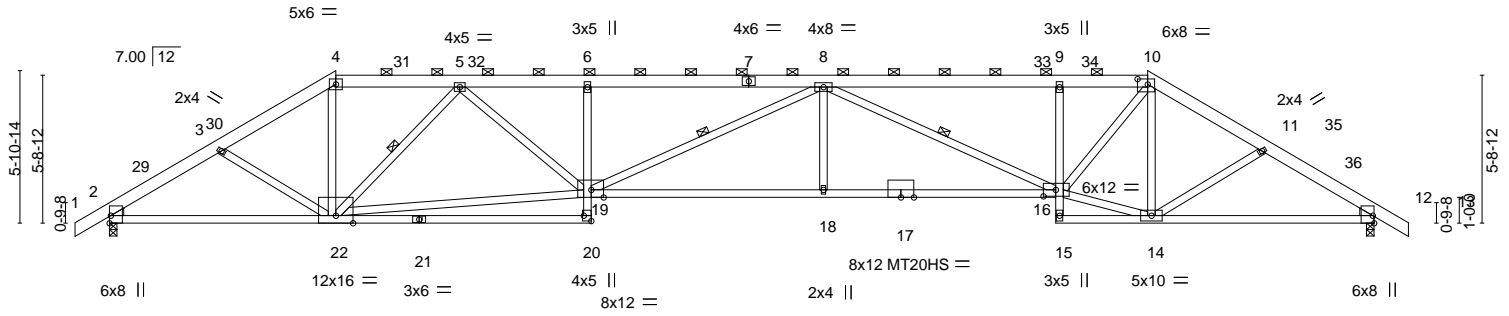


Plate Offsets (X,Y)--	[2:Edge,0-0-10], [10:0-4-12,0-2-8], [12:Edge,0-0-10], [16:0-5-12,0-3-0], [19:0-5-12,Edge], [20:Edge,0-3-8]
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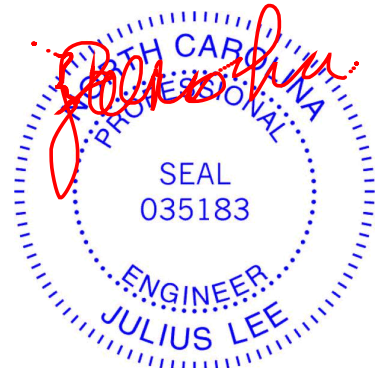
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.46 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-1.00 18-19	>588	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.32 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 329 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except 2-0-0 oc purlins (2-8-6 max.): 4-10.
BOT CHORD 2x4 SP No.2 *Except* 2-21,17-19,16-17: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-14.
WEBS 2x4 SP No.3 *Except* 14-16,10-16,19-22: 2x4 SP No.2	WEBS 1 Row at midpt 8-19, 8-16, 5-22
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=116(LC 11)
Max Uplift 2=-161(LC 12), 12=-161(LC 12)
Max Grav 2=2040(LC 1), 12=2040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3137/226, 3-4=-3064/215, 4-5=-2643/214, 5-6=-5166/369, 6-8=-5236/371,
8-9=-4182/306, 9-10=-4142/306, 10-11=-3043/226, 11-12=-3130/232
BOT CHORD 2-22=-104/2565, 20-22=0/359, 6-19=-450/125, 18-19=-204/5535, 16-18=-204/5535,
9-16=-475/120, 12-14=-104/2563
WEBS 4-22=-17/1144, 8-19=-401/12, 8-18=0/421, 8-16=-1567/83, 14-16=-3/2634,
10-16=-132/2445, 10-14=-654/51, 5-22=-1880/156, 19-22=-143/3548, 5-19=-68/1712

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-9-4, Exterior(2R) 8-9-4 to 13-0-3, Interior(1) 13-0-3 to 40-2-12, Exterior(2R) 40-2-12 to 44-5-11, Interior(1) 44-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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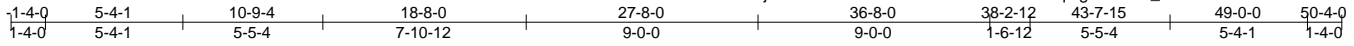


Job 22020379-01	Truss H1C	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228534
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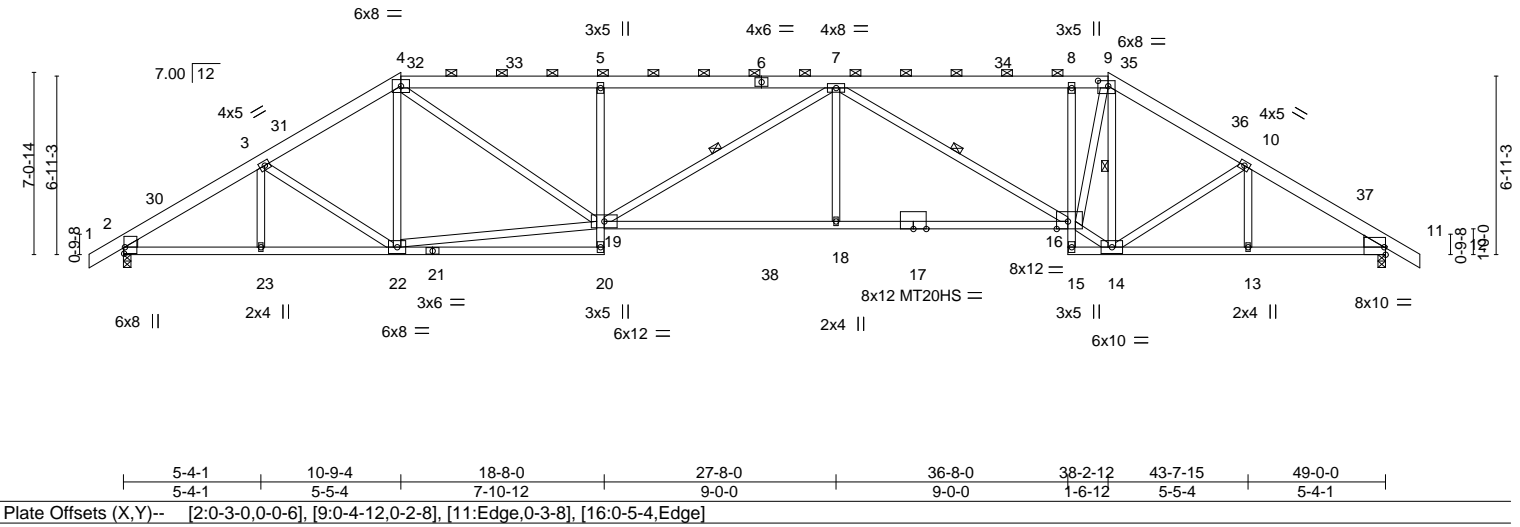
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:49 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzjt7J5-4VvfioZtQqjdgZORBYI_o27O47xVWnmHnC77OhzY?_i



Scale = 1:89.5



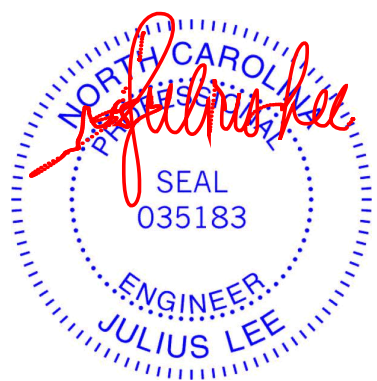
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.46 18-19 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.87 18-19 >673 180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.30 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 344 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins, except 2-0-0 oc purlins (3-1-11 max.): 4-9.
BOT CHORD 2x4 SP 2400F 2.0E *Except* 5-20,8-15: 2x4 SP No.3, 11-15: 2x4 SP No.1, 20-21: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.
WEBS 2x4 SP No.3 *Except* 19-22,7-19,7-16,14-16,9-16: 2x4 SP No.2	WEBS 1 Row at midpt 7-19, 7-16, 9-14
WEDGE Left: 2x4 SP No.3, Right: 2x6 SP No.2	

REACTIONS.	(size)
Max Horz	2=-139(LC 10)
Max Uplift	2=-161(LC 12), 11=-161(LC 12)
Max Grav	2=2258(LC 17), 11=2270(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3494/216, 3-4=-3286/239, 4-5=-4532/328, 5-7=-4561/326, 7-8=-3646/272, 8-9=-3612/273, 9-10=-3294/248, 10-11=-3526/212
BOT CHORD	2-23=-90/2994, 22-23=-90/2994, 5-19=-544/149, 18-19=-117/4886, 16-18=-117/4886, 8-16=-431/129, 13-14=-87/2911, 11-13=-87/2911
WEBS	19-22=-25/2729, 4-19=-108/2129, 7-19=-426/6, 7-18=0/529, 7-16=-1500/67, 14-16=0/3290, 9-16=-115/3033, 9-14=-1512/11

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-9-4, Exterior(2R) 10-9-4 to 15-0-3, Interior(1) 15-0-3 to 38-2-12, Exterior(2R) 38-2-12 to 42-5-11, Interior(1) 42-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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 22020379-01	Truss H1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228535
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:47 2022 Page 1

ID:1Q1j0K5bXobraOovdZu2Jzzt7J5-77nuH6YcvDSvRFE247GwJd233Jfj2sb_Kue1JozY?_k

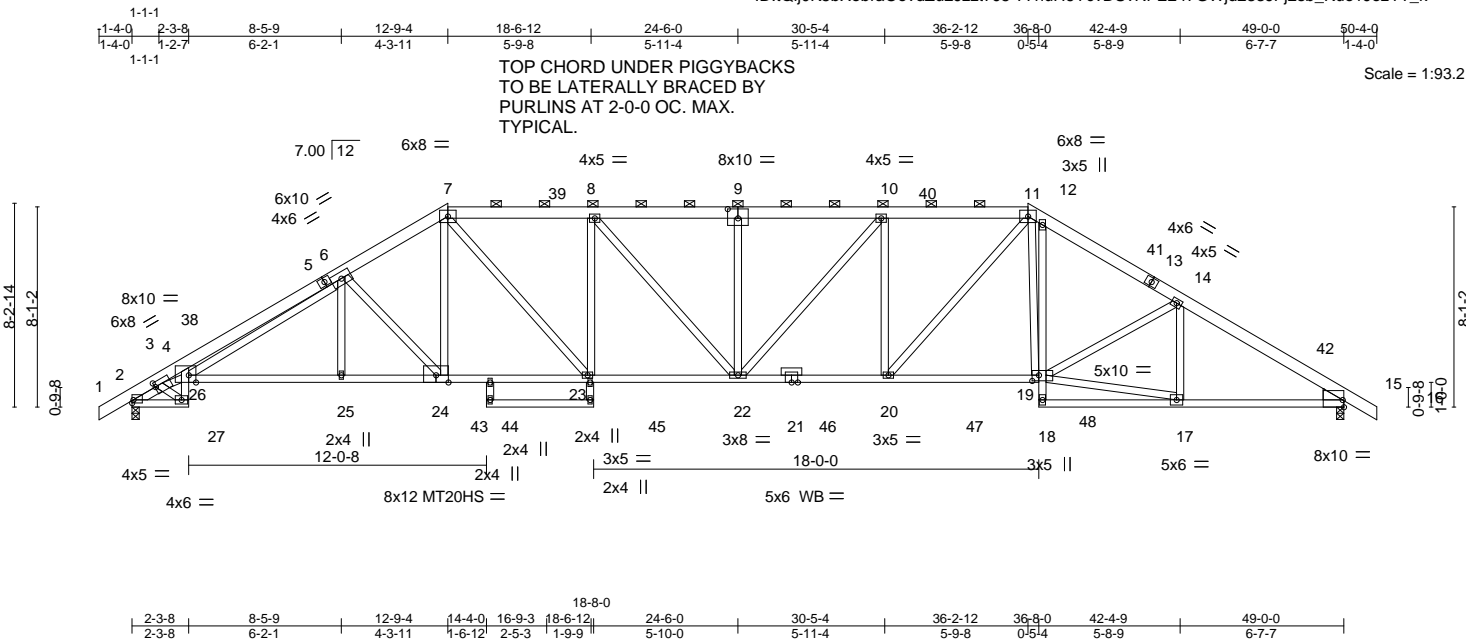


Plate Offsets (X,Y)-- [2:Edge,0-1-8], [3:0-0-5,0-2-4], [4:0-3-8,Edge], [5:0-0-1,0-0-0], [9:0-5-0,0-4-8], [15:Edge,0-3-8], [19:0-3-4,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.34	22-23	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.62	22-23	>949	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.41	15	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 380 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-5,13-16: 2x6 SP 2400F 2.0E BOT CHORD 2x4 SP No.1 *Except* 2-27: 2x4 SP No.2, 28-29,29-30,23-30,12-18: 2x4 SP No.3 WEBS 2x4 SP No.3 *Except* 17-19,3-26: 2x4 SP No.2 OTHERS 2x4 SP No.3 WEDGE Right: 2x6 SP No.2 SLIDER Left 2x4 SP No.3 1-2-3	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except 2-0-0 oc purlins (3-6-11 max.): 7-11. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS. (size) 2=0-3-8, 15=0-3-8 Max Horz 2=163(LC 11) Max Uplift 2=-165(LC 12), 15=-160(LC 12) Max Grav 2=2299(LC 17), 15=2292(LC 18)	

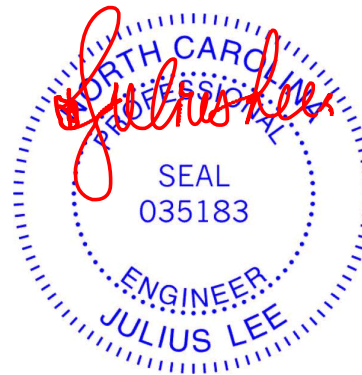
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=	3-4=	4-6=	6-7=	7-8=	8-9=	9-10=	10-11=	11-12=	12-14=	14-15=
	1627/66	5493/262	5991/338	3707/270	3813/291	4011/303	4011/303	3808/291	3512/287	3664/259	3578/217

BOT CHORD	2-27=	26-27=	4-26=	15-17=	25-26=	24-25=	3-27=	6-24=	9-22=	17-19=	14-19=	14-17=	8-22=	7-23=	10-22=	10-20=	11-20=																	
	23/1680	0/1292	0/460	78/2953	72/3770	71/3773	5/3161	45/3875	45/3827	19/20=	10/3071	1653/0	828/96	352/97	72/2879	0/321	377/89	150/4047	104/1843	14/795	8-23=	695/123	8-22=	19/407	7-23=	60/1195	10-22=	19/390	10-20=	672/120	11-20=	54/1177	11-19=	62/565

WEBS	3-27=	6-24=	9-22=	17-19=	14-19=	14-17=	8-22=	7-23=	10-22=	10-20=	11-20=												
	1653/0	828/96	352/97	72/2879	0/321	377/89	150/4047	104/1843	14/795	8-23=	695/123	8-22=	19/407	7-23=	60/1195	10-22=	19/390	10-20=	672/120	11-20=	54/1177	11-19=	62/565

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-9-4, Exterior(2R) 12-9-4 to 17-0-3, Interior(1) 17-0-3 to 36-2-12, Exterior(2R) 36-2-12 to 40-5-11, Interior(1) 40-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.



March 25, 2022

Continued on page 2

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



818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228535
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:47 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-77nuH6YcvDSvRFE247GWj0d233JFj2sb_Kue1JozY?_k

NOTES-

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical 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/TPI1 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 22020379-01	Truss H1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228536
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:46 2022 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-fwEW4nX_8vK2p5fsWQHAPVtmvtkJPvr5EvTnMzY?_I

NOTES-

8) 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

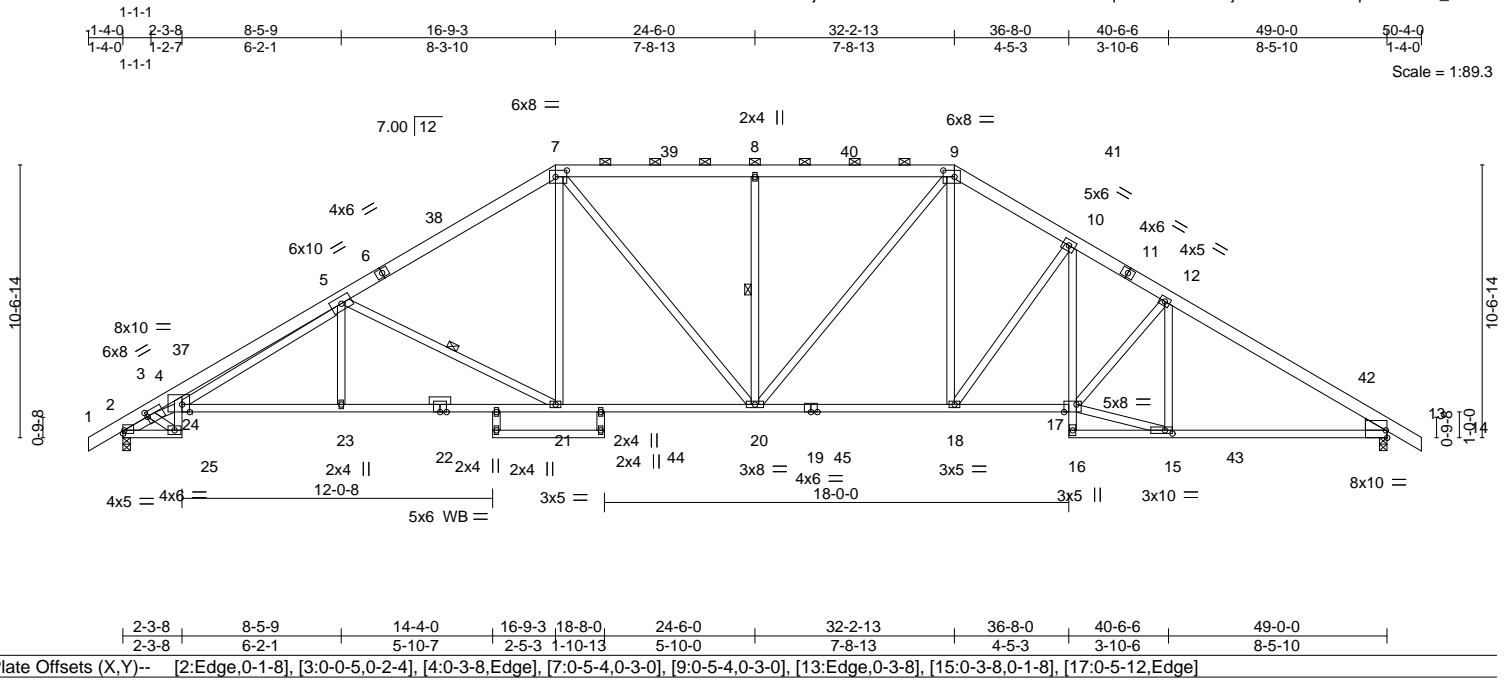


818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss T1D	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228538
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:24 2022 Page 1
ID:tQlj0K5bXobraOovdZu2Jzjt7J5-YEXu2m?qBa6fNz9IQBjQ4NdEs1DaYRq86U79zY?_9



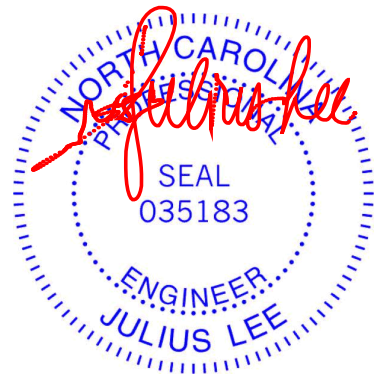
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.30 20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.54 21-23	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.38 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 372 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-6,11-14: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except 2-0-0 oc purlins (4-0-6 max.): 7-9.
BOT CHORD 2x4 SP No.1 *Except* 2-25: 2x4 SP No.2, 26-27,27-28,28-29,10-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-20,9-20,15-17,3-24: 2x4 SP No.2	WEBS 1 Row at midpt 5-21, 8-20
OTHERS WEDGE Right: 2x6 SP No.2 SLIDER Left 2x4 SP No.3 1-2-3	

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=212(LC 11)
Max Uplift 2=-165(LC 12), 13=-160(LC 12)
Max Grav 2=2301(LC 17), 13=2319(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1629/65, 3-4=-5512/237, 4-5=-5974/300, 5-7=-3235/259, 7-8=-2978/286,
8-9=-2978/286, 9-10=-3165/275, 10-12=-3693/279, 12-13=-3568/224
BOT CHORD 2-25=-25/1714, 24-25=0/1319, 4-24=0/469, 10-17=-43/707, 13-15=-63/2941,
23-24=-88/3872, 21-23=-87/3875, 20-21=0/2790, 18-20=0/2705, 17-18=-14/3106
WEBS 3-25=-1689/8, 5-23=0/340, 5-21=-1231/155, 8-20=-528/141, 7-20=-42/611,
9-20=-40/585, 9-18=-9/958, 10-18=-835/111, 15-17=-55/2932, 12-17=0/357,
12-15=-592/93, 3-24=-124/4080, 5-24=-56/1762, 7-21=0/885

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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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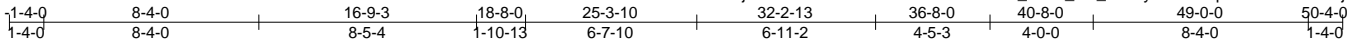
818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss T1C	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228539
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:23 2022 Page 1

ID:tQIj0K5bXobraOovdZu2Jzzt7J5-42zVrQ_CQG_oln_zBhvyADXBOqVTUB0HcUMwbjzY?_A



Scale = 1:89.3

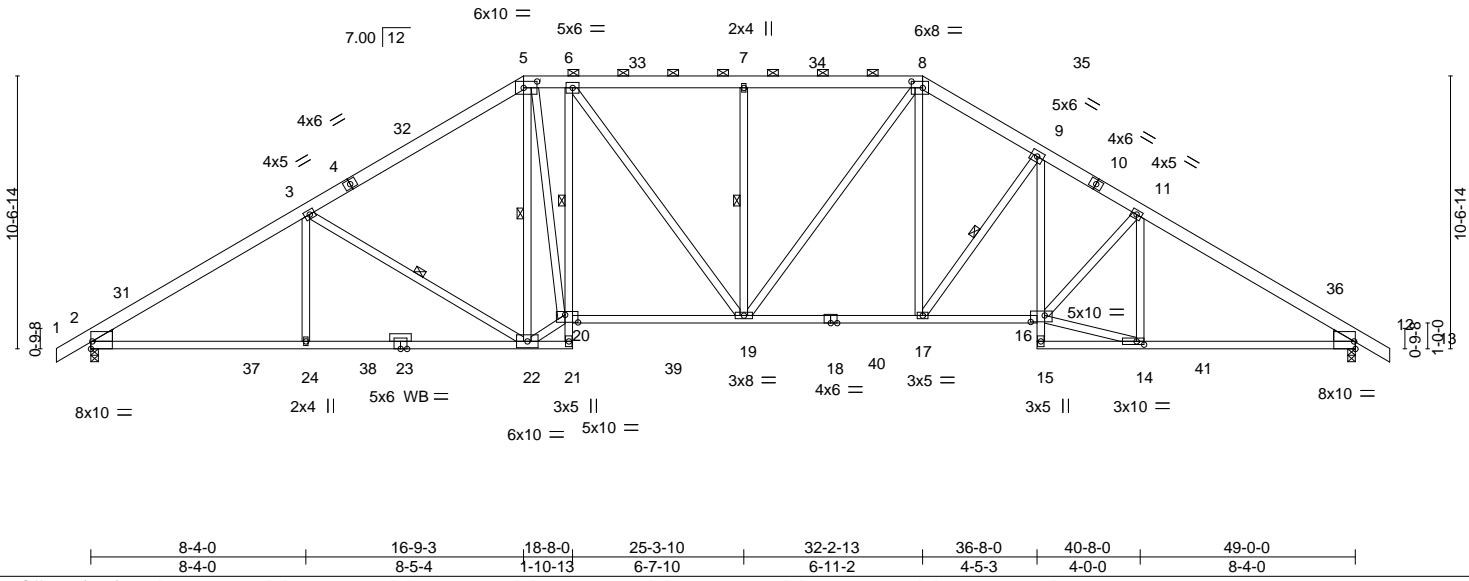


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-4,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [16:0-6-8,0-3-0], [20:0-6-0,0-3-8]

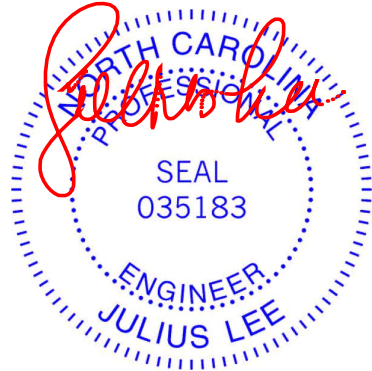
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.31 19-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.55 19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.27 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 381 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins, except
BOT CHORD 2x4 SP No.1 *Except* 6-21,9-15: 2x4 SP No.3, 16-18: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 20-22,6-19,8-19,14-16: 2x4 SP No.2	WEBS 1 Row at midpt 6-20 3-22, 5-22, 7-19, 9-17
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=211(LC 11)
 Max Uplift 2=-161(LC 12), 12=-161(LC 12)
 Max Grav 2=2347(LC 17), 12=2330(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3665/228, 3-5=-2963/265, 5-6=-2819/276, 6-7=-3004/285, 7-8=-3004/285,
 8-9=-3185/277, 9-11=-3725/278, 11-12=-3592/225
 BOT CHORD 2-24=-72/3194, 22-24=-72/3194, 6-20=-519/82, 19-20=0/2910, 17-19=0/2721,
 16-17=-14/3134, 9-16=-36/720, 12-14=-65/2964
 WEBS 3-24=0/387, 3-22=-737/136, 5-22=-832/0, 20-22=0/2980, 5-20=-13/1848, 6-19=-29/460,
 7-19=-475/126, 8-19=-35/630, 8-17=-17/935, 9-17=-853/109, 14-16=-56/2953,
 11-16=0/353, 11-14=-585/91

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020379-01	Truss T1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228540
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:20 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-gTHNDPxJ7LcEuKFOWZMFYavglidV7Hm7rVW8G_OzY?_D



Scale = 1:89.3

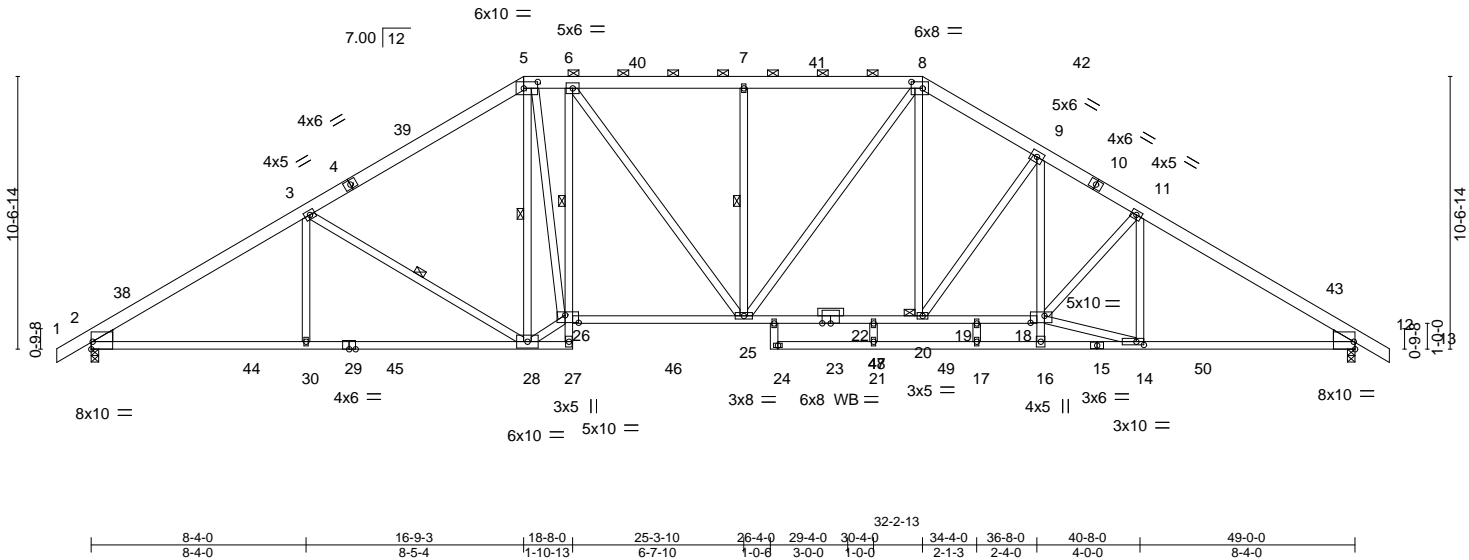


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-8,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [18:0-6-8,0-3-4], [23:0-3-15,0-0-1], [26:0-6-4,0-3-8]

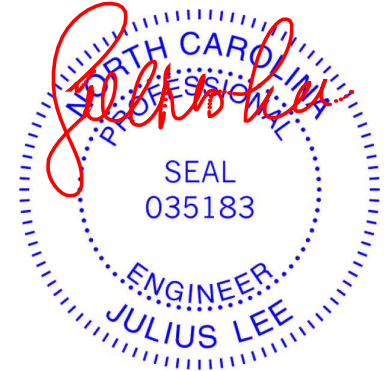
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.63	24	>931	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-1.16	24	>508		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.25	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 400 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except
BOT CHORD 2x4 SP 2400F 2.0E *Except* 6-27,9-16: 2x4 SP No.3, 27-29: 2x4 SP No.1, 15-24: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-27. 1 Row at midpt 6-26 10-0-0 oc bracing: 22-25
WEBS 2x4 SP No.3 *Except* 26-28,6-25,8-25,14-18: 2x4 SP No.2	WEBS 1 Row at midpt 3-28, 5-28, 7-25
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 20
WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=211(LC 11)
 Max Uplift 2=-142(LC 12), 12=-135(LC 12)
 Max Grav 2=2454(LC 17), 12=2507(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3861/193, 3-5=-3167/230, 5-6=-3028/239, 6-7=-3305/232, 7-8=-3305/232,
 8-9=-3573/214, 9-11=-4076/225, 11-12=-3912/178
 BOT CHORD 2-30=-43/3361, 28-30=-43/3361, 6-26=-556/61, 25-26=0/3120, 22-25=0/3059,
 20-22=0/3059, 19-20=0/3439, 18-19=0/3439, 9-18=-55/655, 14-16=0/283,
 12-14=-25/3237
 WEBS 3-30=0/381, 3-28=-726/138, 5-28=-920/0, 26-28=0/3139, 5-26=0/2030, 6-25=-0/614,
 7-25=-475/126, 8-25=-38/603, 14-18=-33/3058, 11-18=0/406, 11-14=-594/83,
 8-20=0/1182, 9-20=-803/125, 21-22=0/361

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

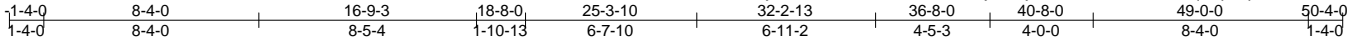


Job 22020379-01	Truss T1	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228541
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:18 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-j49dojw3bkMWf06?O8JnT9qLYpocpvZYSCfAvVzY?_F



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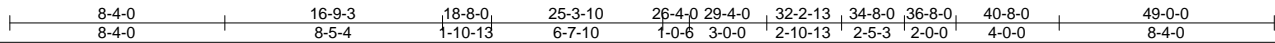
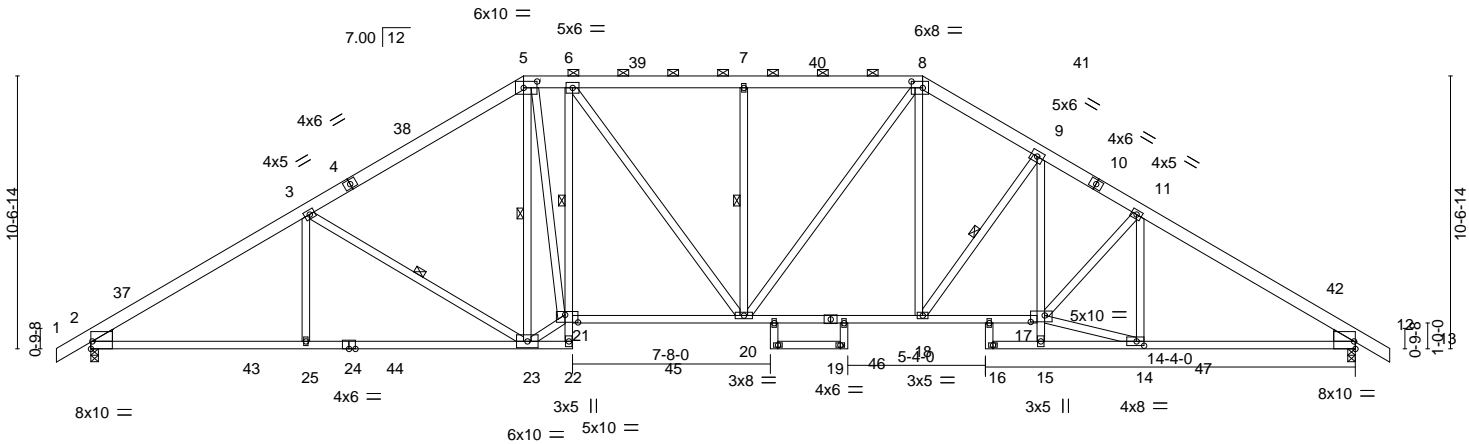


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-4,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-2-0], [17:0-6-8,0-3-0], [21:0-6-0,0-3-8]

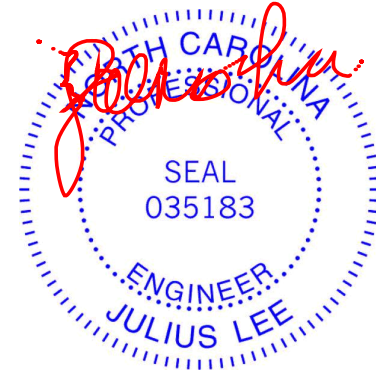
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.31 20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.55 20-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.27 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 391 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins, except 2-0-0 oc purlins (4-0-0 max.): 5-8.
BOT CHORD 2x4 SP No.1 *Except* 6-22,9-15,26-28: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 1 Row at midpt 6-21 10-0-0 oc bracing: 15-17
WEBS 2x4 SP No.3 *Except* 21-23,6-20,8-20,14-17: 2x4 SP No.2	WEBS 1 Row at midpt 3-23, 5-23, 7-20, 9-18
WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=211(LC 11)
 Max Uplift 2=-155(LC 12), 12=-144(LC 12)
 Max Grav 2=2364(LC 17), 12=2378(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=3697/217, 3-5=2996/254, 5-6=2853/264, 6-7=3051/269, 7-8=3051/269,
 8-9=3255/253, 9-11=3837/239, 11-12=3676/195
 BOT CHORD 2-25=63/3221, 23-25=63/3221, 6-21=527/77, 20-21=0/2945, 18-20=0/2782,
 17-18=0/3232, 9-17=-11/791, 12-14=-40/3036
 WEBS 3-25=0/386, 3-23=735/137, 5-23=-849/0, 21-23=0/3012, 5-21=-3/1880, 6-20=-21/482,
 7-20=-475/126, 8-20=-42/607, 14-17=-18/3031, 11-17=0/393, 11-14=-607/78,
 8-18=0/989, 9-18=-917/87

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

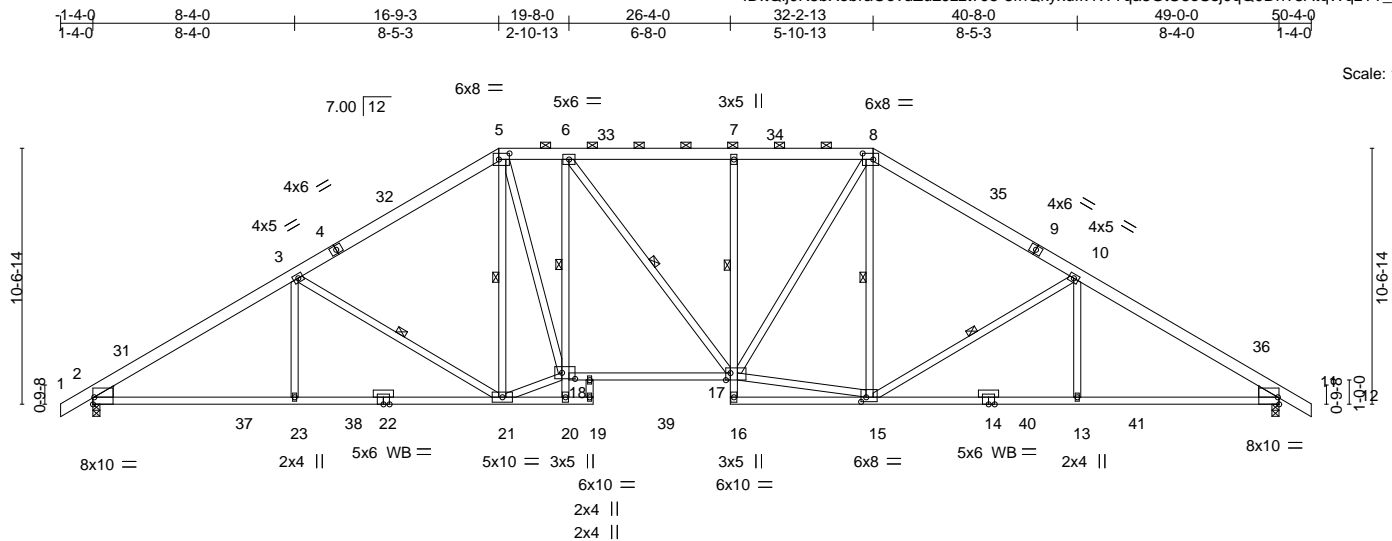
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 22020379-01	Truss T1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228542
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:21 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-8friQkyxufk4WTqa3GtU5oSsj0qQ0Dh?8AtqWqzY?_C



Scale: 1/8"=1'

Plate Offsets (X,Y)--	[2:Edge,0-3-8], [5:0-5-4,0-3-0], [8:0-5-4,0-3-0], [11:Edge,0-3-8], [15:0-2-8,0-2-4], [17:0-2-4,Edge], [18:0-6-8,0-3-0]
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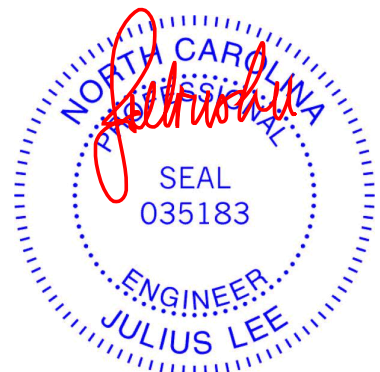
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.33	17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.59	17-18	>997	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.24	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 376 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except 2-0-0 oc purlins (3-11-15 max.): 5-8.
BOT CHORD 2x4 SP No.1 *Except* 6-20,7-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 1 Row at midpt 6-18, 7-17 10-0-0 oc bracing: 18-20
WEBS 2x4 SP No.3 *Except* 18-21,6-17,8-17: 2x4 SP No.2	WEBS 1 Row at midpt 3-21, 5-21, 6-17, 8-15, 10-15
OTHERS 2x4 SP No.3	
WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS.
(size) 2=0-3-8, 11=0-3-8
Max Horz 2=211(LC 11)
Max Uplift 2=153(LC 12), 11=155(LC 12)
Max Grav 2=2365(LC 17), 11=2347(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3701/213, 3-5=-2989/250, 5-6=-2944/260, 6-7=-2984/271, 7-8=-2975/272, 8-10=-2961/255, 10-11=-3670/218
BOT CHORD	2-23=-60/3224, 21-23=-60/3224, 6-18=-496/99, 17-18=0/3034, 7-17=-417/107, 13-15=-64/3039, 11-13=-64/3039
WEBS	3-23=0/393, 3-21=-749/137, 5-21=-436/0, 18-21=0/2848, 5-18=-2/1578, 6-17=-45/273, 15-17=0/2471, 8-17=-16/1089, 8-15=-20/266, 10-15=-752/139, 10-13=0/392

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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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 **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



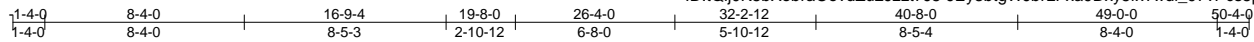
818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1S	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228543
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:58 2022 Page 1

ID:QlJ0K5bXobraOovdZu2Jzzt7J5-JEy3btgWJbrLFxa9Dxy5fx?wdl_97vPcs5p6CgzY?_Z



Scale: 1/8"=1'

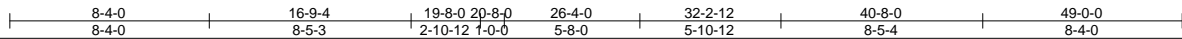
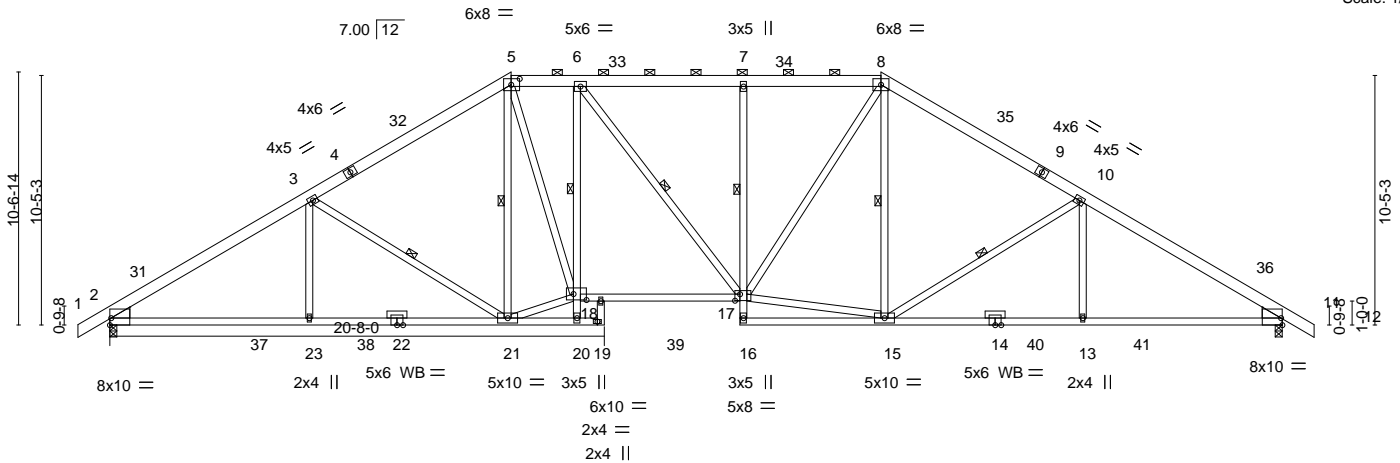


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-4-4,0-3-0], [11:Edge,0-3-8], [17:0-2-8,0-3-4], [18:0-6-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.32 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.58 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.24 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 375 lb	FT = 20%

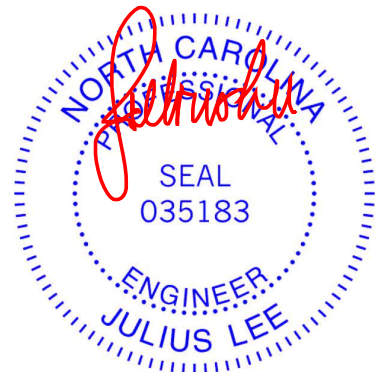
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
6-20,7-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
18-21,6-17,15-17,8-17: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except 2-0-0 oc purlins (3-11-11 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt 6-18, 7-17
10-0-0 oc bracing: 18-20
WEBS 1 Row at midpt 3-21, 5-21, 6-17, 8-15, 10-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-209(LC 10)
Max Uplift 2=-155(LC 12), 11=-156(LC 12)
Max Grav 2=2355(LC 17), 11=2340(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3679/217, 3-5=-3000/255, 5-6=-2966/266, 6-7=-3013/275, 7-8=-3006/276,
8-10=-2978/258, 10-11=-3651/221
BOT CHORD 2-23=-63/3202, 21-23=-63/3202, 6-18=-532/96, 17-18=0/3056, 7-17=-432/109,
13-15=-66/3022, 11-13=-66/3022
WEBS 3-23=0/386, 3-21=-703/134, 5-21=-392/0, 18-21=0/2826, 5-18=-10/1535, 6-17=-43/280,
15-17=0/2480, 8-17=-19/1097, 8-15=-24/264, 10-15=-705/136, 10-13=0/383

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-4, Exterior(2R) 16-9-4 to 21-0-3, Interior(1) 21-0-3 to 32-2-12, Exterior(2R) 32-2-12 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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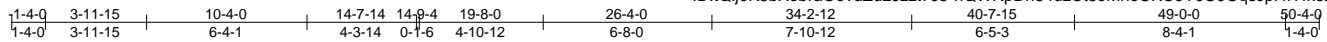
818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1SA	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228544
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:44:59 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-nQWRpDh84uzCt59MneUKC9YU9OqsJpl4Yfk6zY?_Y



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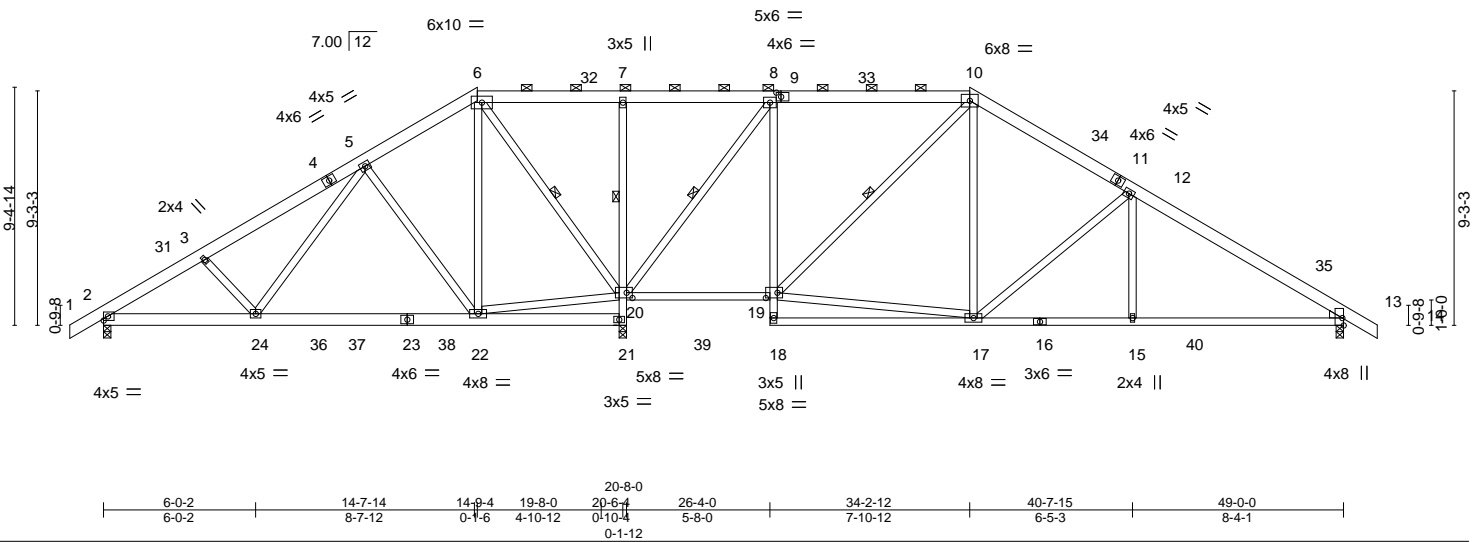


Plate Offsets (X,Y)-- [9:0-2-4,0-2-0], [13:Edge,0-0-10], [19:0-5-8,0-2-8], [20:0-2-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.13 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.26 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 383 lb	FT = 20%

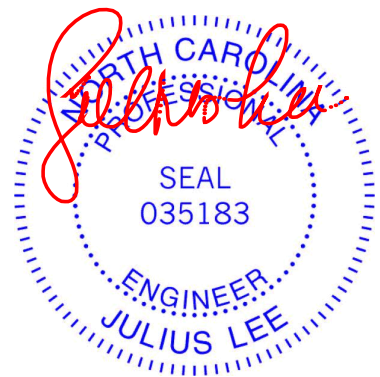
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-23,21-23: 2x6 SP No.2, 7-21,8-18: 2x4 SP No.3
 WEBS 2x4 SP No.3 *Except*
 10-19: 2x4 SP No.2
 WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-9-10 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 6-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 21-22
 2-8-15 oc bracing: 20-21.
 1 Row at midpt 7-20
 WEBS 1 Row at midpt 10-19, 6-20, 8-20

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 21=0-3-8
 Max Horz 2=-186(LC 10)
 Max Uplift 13=-131(LC 12)
 Max Grav 2=911(LC 17), 13=1209(LC 18), 21=2854(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1299/0, 3-5=-1177/0, 5-6=-286/33, 6-7=0/713, 7-8=0/713, 8-10=-287/212,
 10-12=-996/209, 12-13=-1552/173
 BOT CHORD 2-24=0/1192, 22-24=0/602, 20-21=-2830/0, 7-20=-364/96, 19-20=0/282, 8-19=0/848,
 15-17=-22/1241, 13-15=-22/1241
 WEBS 5-24=0/802, 5-22=-673/32, 17-19=0/666, 10-19=-704/0, 10-17=0/614, 12-17=-674/119,
 12-15=0/309, 6-22=0/1036, 20-22=0/338, 6-20=-1454/0, 8-20=-1527/52

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-9-4, Exterior(2R) 14-9-4 to 19-0-3, Interior(1) 19-0-3 to 34-2-12, Exterior(2R) 34-2-12 to 38-5-11, Interior(1) 38-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

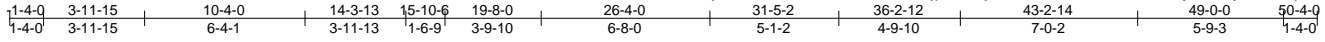


Job 22020379-01	Truss H1SB	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228545
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:01 2022 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-jpeBDvjOcWDw6PIku3WoHadVQy1_KCy2Y31mp_zY?_W



Scale = 1:91.0

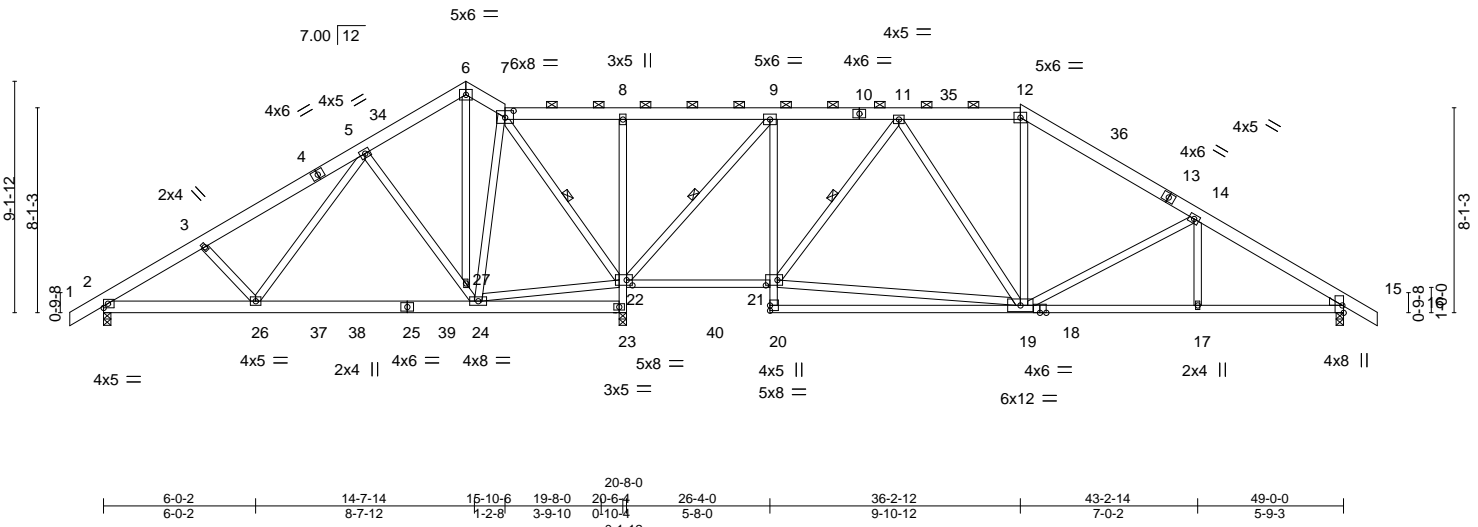


Plate Offsets (X,Y)-- [7:0-4-0,0-3-4], [15:Edge,0-0-10], [21:0-5-8,0-2-8], [22:0-2-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.25 19-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.50 19-20	>678	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.04 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 394 lb	FT = 20%

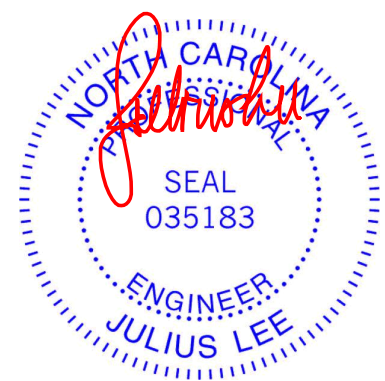
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-25,23-25: 2x6 SP No.2, 8-23,9-20: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 2-8-15 oc bracing.
WEBS 1 Row at midpt 11-21, 7-22, 9-22

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 23=0-3-8
Max Horz 2=182(LC 11)
Max Uplift 15=-124(LC 12)
Max Grav 2=893(LC 17), 15=1160(LC 18), 23=2860(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1267/0, 3-5=-1147/0, 5-6=-267/17, 7-8=0/872, 8-9=0/871, 9-11=-265/189,
11-12=-896/203, 12-14=-1108/187, 14-15=-1586/173
BOT CHORD 2-26=0/1162, 24-26=0/570, 22-23=-2839/0, 8-22=-367/95, 21-22=-60/269, 9-21=0/921,
17-19=-69/1289, 15-17=-69/1289
WEBS 19-21=-16/554, 11-21=-727/56, 11-19=0/421, 14-19=-513/122, 5-26=0/804,
5-27=-673/41, 24-27=-648/64, 22-24=-23/262, 7-22=-1486/0, 7-24=0/1051,
9-22=-1596/71

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-3-13, Exterior(2E) 14-3-13 to 15-10-6, Interior(1) 15-10-6 to 36-2-12, Exterior(2R) 36-2-12 to 39-2-12, Interior(1) 39-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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



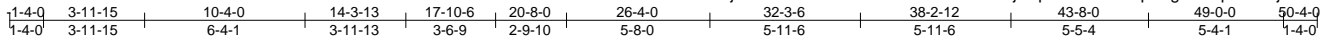
818 Soundside Road
Edenton, NC 27932

Job 22020379-01	Truss H1SC	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228546
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:02 2022 Page 1

ID: tQlj0K5bXobraOovdZu2Jzzt7J5-B?BZRFj1NpLnkZtwSn11pnAg0MRq3dCCnjlRzY?_V



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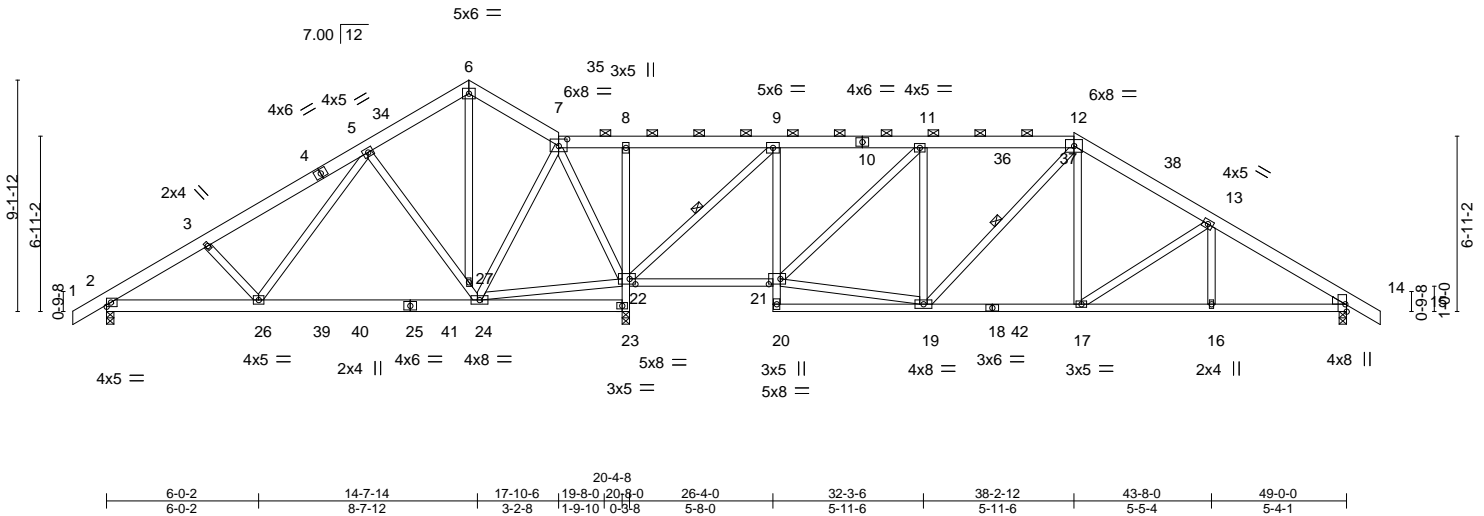


Plate Offsets (X,Y)-- [7:0-4,0-3-4], [14:Edge,0-0-10], [21:0-5-8,0-2-8], [22:0-2-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.07 17-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.22 24-26	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.04 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 383 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-25,23-25: 2x6 SP No.2, 8-23,9-20: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 7-12.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 23-24,21-22
 2-9-6 oc bracing: 22-23.
 WEBS 1 Row at midpt 12-19, 9-22

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 23=0-3-8
 Max Horz 2=-182(LC 10)
 Max Uplift 14=-127(LC 12)
 Max Grav 2=908(LC 17), 14=1182(LC 18), 23=2807(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1292/0, 3-5=-1166/0, 5-6=-285/30, 7-8=0/981, 8-9=0/982, 9-11=-388/204,
 11-12=-911/217, 12-13=-1264/200, 13-14=-1624/173
 BOT CHORD 2-26=0/1183, 24-26=0/595, 22-23=-2791/0, 8-22=-329/74, 21-22=-46/392, 9-21=0/884,
 17-19=0/1003, 16-17=-71/1316, 14-16=-71/1316
 WEBS 5-26=0/800, 19-21=-5/874, 11-21=-801/20, 11-19=0/290, 12-17=0/445, 13-17=-373/86,
 5-27=-669/41, 24-27=-658/81, 7-24=0/1234, 22-24=-254/188, 7-22=-1410/0,
 9-22=-1710/75

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-3-13, Exterior(2R) 14-3-13 to 17-3-13, Interior(1) 17-3-13 to 38-2-12, Exterior(2R) 38-2-12 to 41-2-12, Interior(1) 41-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

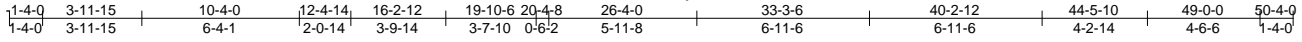
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



818 Soundside Road
 Edenton, NC 27932

Job 22020379-01	Truss H1SD	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228547
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Carter Components (Lexington), Lexington, NC - 27295, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:04 2022 Page 1
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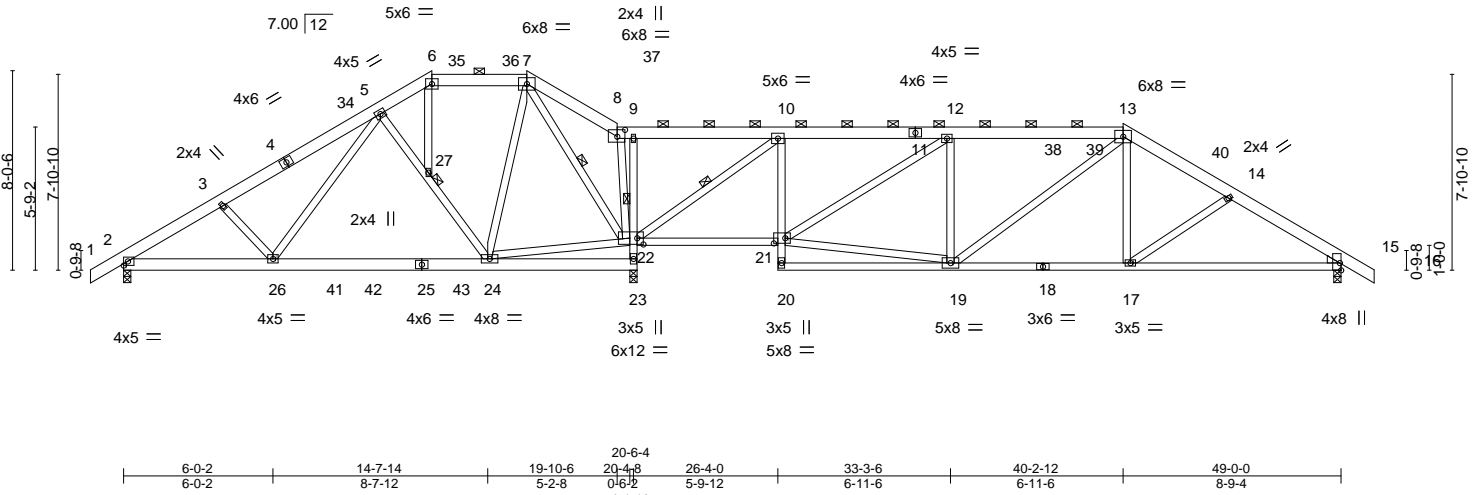


Plate Offsets (X,Y)-- [8:0-3-12,0-3-5], [15:Edge,0-0-10], [21:0-5-8,0-2-8], [22:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.09 19-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.23 24-26	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.06 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 372 lb	FT = 20%

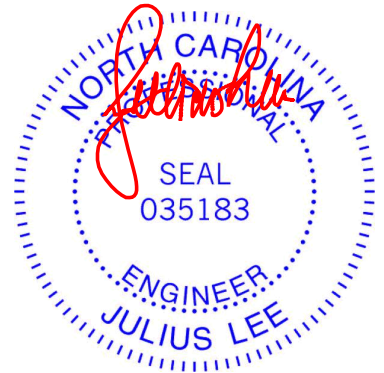
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-25,23-25: 2x6 SP No.2, 10-20: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7, 8-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24.
 WEBS 1 Row at midpt 7-22, 9-23, 10-22
 JOINTS 1 Brace at Jt(s): 27

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 23=0-3-8
 Max Horz 2=-158(LC 10)
 Max Uplift 15=-109(LC 12)
 Max Grav 2=1019(LC 17), 15=1221(LC 18), 23=2591(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1497/0, 3-5=-1380/0, 5-6=-516/0, 6-7=-431/0, 7-8=0/912, 8-9=0/729, 9-10=0/730, 10-12=-751/132, 12-13=-1339/177, 13-14=-1476/153, 14-15=-1649/164
 BOT CHORD 2-26=0/1336, 24-26=0/750, 23-24=-411/0, 21-22=0/762, 10-21=0/790, 17-19=0/1214, 15-17=-65/1350
 WEBS 19-21=-3/1251, 12-21=-715/57, 13-17=0/343, 5-26=0/794, 5-27=-589/67, 24-27=-556/75, 7-24=0/904, 22-24=0/661, 7-22=-1726/0, 22-23=-2594/0, 10-22=-1831/104, 8-22=0/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-4-14, Exterior(2R) 12-4-14 to 15-4-14, Interior(1) 15-4-14 to 16-2-12, Exterior(2R) 16-2-12 to 19-2-12, Interior(1) 19-2-12 to 40-2-12, Exterior(2R) 40-2-12 to 43-2-12, Interior(1) 43-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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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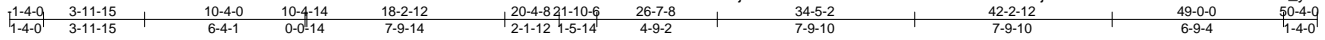


Job 22020379-01	Truss H1SE	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Cameron Woods Lot 4-2316 Elev 'A' Permit-Roof Truss T27228548
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Mar 23 16:45:05 2022 Page 1

ID: tQlj0K5bXobraOovdZu2Jzzt7J5-cati3GmvfkjMb0cV7vakRQoAaaRTG1neTh?_ymzy?_S



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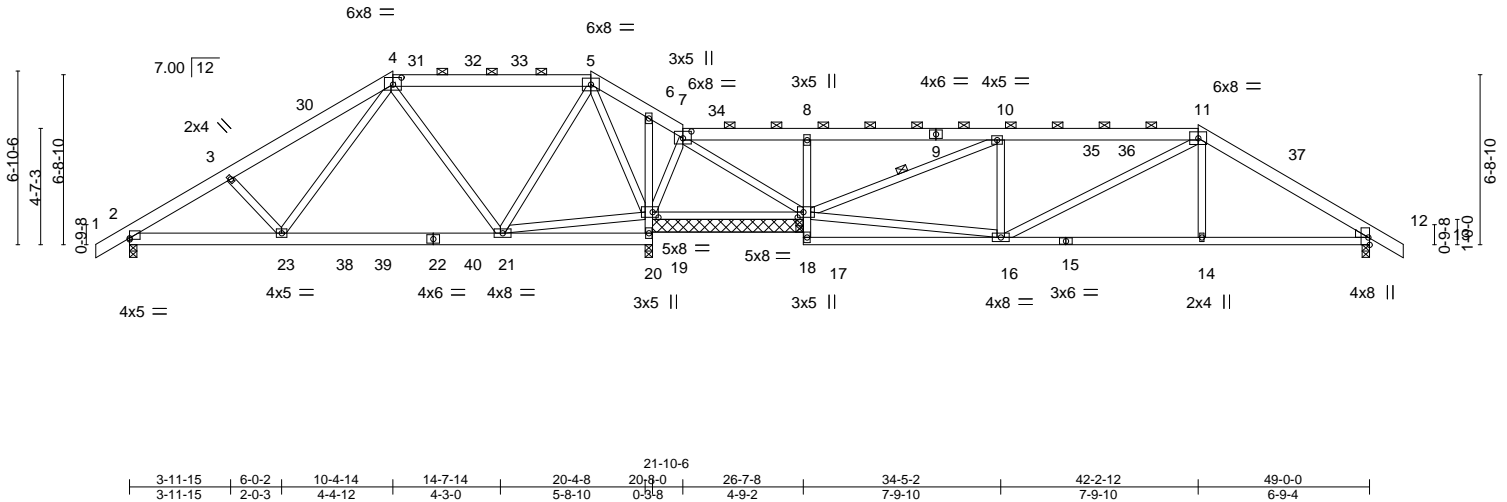


Plate Offsets (X,Y)-- [2:0-0,0,0-9], [4:0-4,0,0-3-5], [7:0-4,0,0-3-4], [12:Edge,0-0,10], [18:0-2,12,0-2-8], [19:0-2,12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.09 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.22 21-23	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 348 lb	FT = 20%

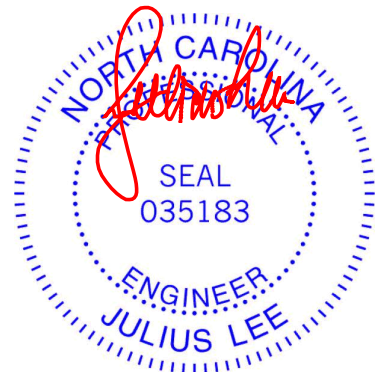
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-22,20-22: 2x6 SP No.2, 6-20,8-17: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5, 7-11.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,18-19.
 WEBS 1 Row at midpt 10-18

REACTIONS. All bearings 0-3-8 except (jt=length) 19=5-11-8, 18=5-11-8, 18=5-11-8.
 (lb) - Max Horz 2=135(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 20 except 18=-106(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 20 except 2=1140(LC 17), 19=1309(LC 17), 18=1366(LC 18), 18=1278(LC 1), 12=1004(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1707/0, 3-4=-1584/0, 4-5=-691/0, 5-6=0/305, 6-7=0/293, 7-8=0/370, 8-10=0/379, 10-11=-1056/140, 11-12=-1279/115
 BOT CHORD 2-23=0/1498, 21-23=0/938, 8-18=-417/114, 14-16=-7/1011, 12-14=-4/1020
 WEBS 19-21=0/413, 5-19=-1265/0, 16-18=-17/960, 10-18=-1500/94, 11-14=0/275, 4-23=0/769, 4-21=-353/74, 5-21=0/880

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-4-14, Exterior(2R) 10-4-14 to 13-4-14, Interior(1) 13-4-14 to 18-2-12, Exterior(2R) 18-2-12 to 21-2-12, Interior(1) 21-2-12 to 42-2-12, Exterior(2R) 42-2-12 to 45-2-12, Interior(1) 45-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 12, and 20. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2022

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

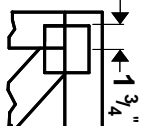
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



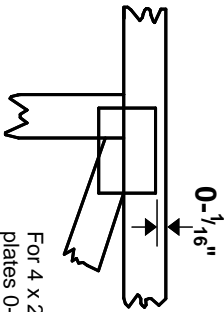
818 Soundside Road
Edenton, NC 27932

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

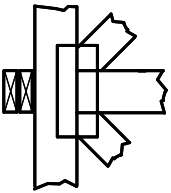
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



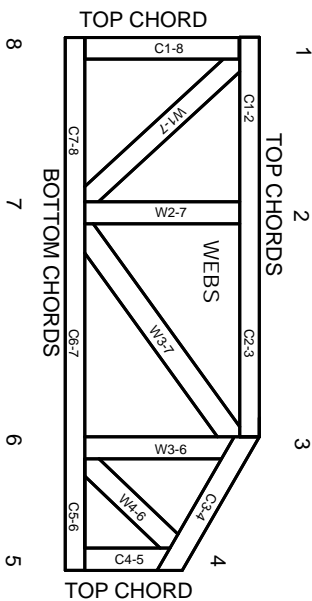
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-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 stack 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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 noted.
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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.