

Trenco
818 Soundside Rd
Edenton, NC 27932

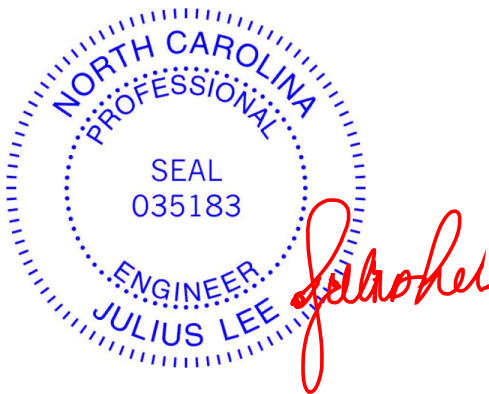
Re: 21110323-02
Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss

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: T26110743 thru T26110781

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

North Carolina COA: C-0844



November 30, 2021

Lee, Julius

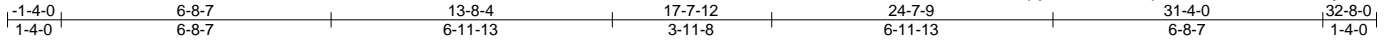
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 21110323-02	Truss H1	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110743
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:51:57 2021 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-H?qxjY_i5rl73zxfRopT2cWUuGGfif0eL_kQLyE4mW



Scale = 1:57.2

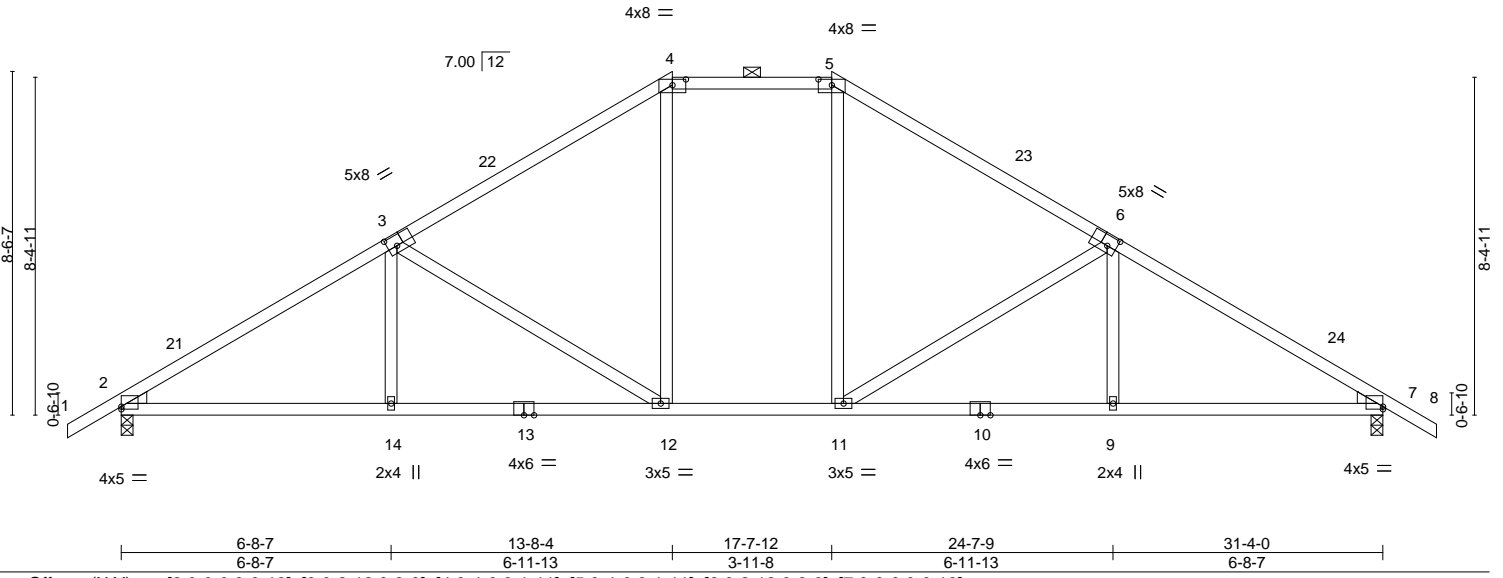


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-2-12,0-3-0], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-2-12,0-3-0], [7:0-0-0,0-0-13]
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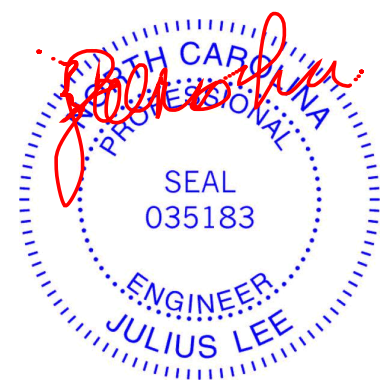
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.29 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.41 12-14 >922 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.09 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 164 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-11-0 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=148(LC 11)
 Max Uplift 2=-42(LC 12), 7=-42(LC 12)
 Max Grav 2=1474(LC 17), 7=1474(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2215/39, 3-4=-1648/91, 4-5=-1342/106, 5-6=-1648/91, 6-7=-2215/39
 BOT CHORD 2-14=0/1932, 12-14=0/1920, 11-12=0/1393, 9-11=0/1809, 7-9=0/1821
 WEBS 3-14=0/268, 3-12=-616/72, 4-12=0/517, 5-11=0/517, 6-11=-616/72, 6-9=0/268

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 13-8-4, Exterior(2E) 13-8-4 to 17-7-12, Exterior(2R) 17-7-12 to 21-10-11, Interior(1) 21-10-11 to 32-8-0 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

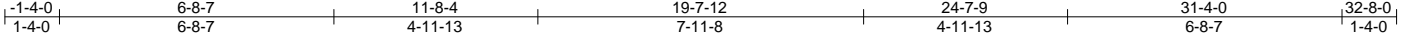
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss
21110323-02	H1A	HIP	1	1	T26110744

Carter Components (Lexington), Lexington, NC - 27295, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:51:59 2021 Page 1

ID:R1dAcVhN40z53bONvnm1Lzltw3-EOyh8RZEEi5TMM7JnsqHYTho1hxWAgdJ5fTrVEyE4mU



Scale = 1:56.3

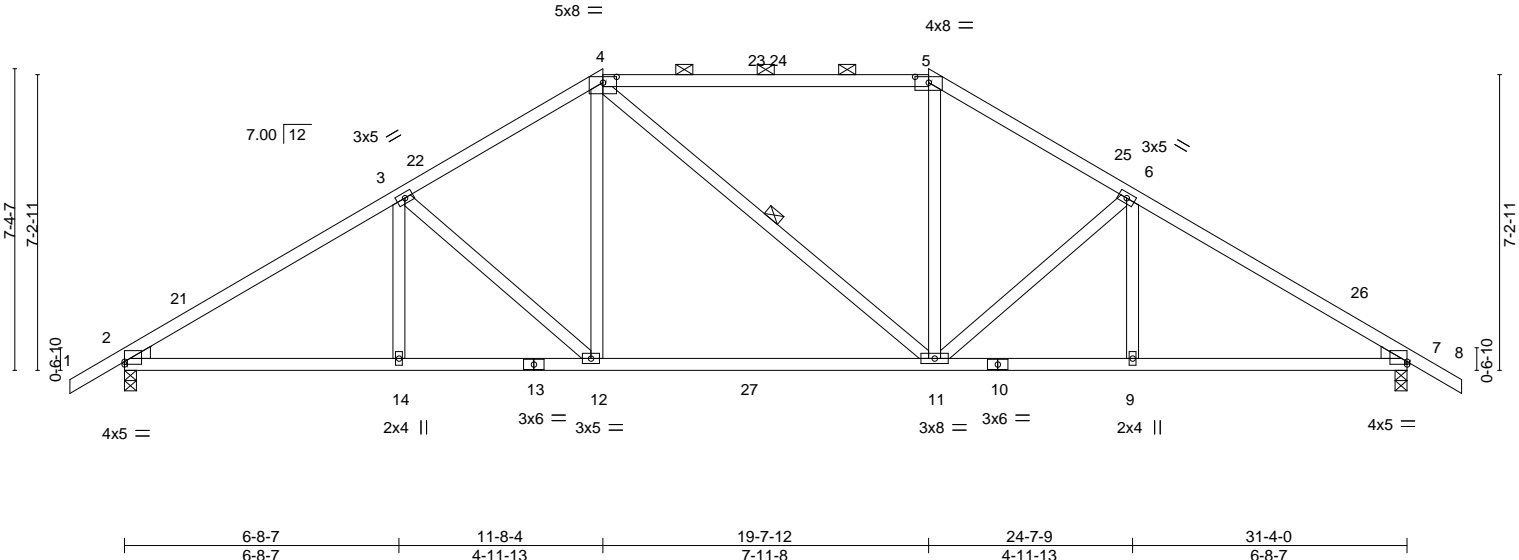


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [7:0-0-0,0-0-13]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.20 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.38 11-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.08 7 n/a n/a		
	Code IRC2018/TPI2014			Weight: 170 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-11: 2x4 SP No.2

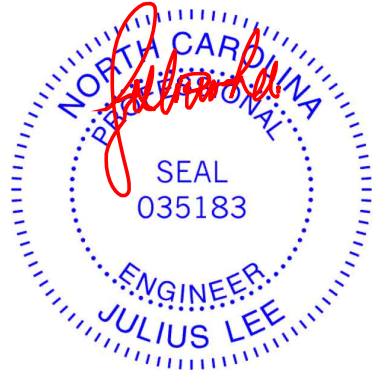
BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-2-10 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-11

WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-128(LC 10)
Max Uplift 2=-42(LC 12), 7=-42(LC 12)
Max Grav 2=1476(LC 17), 7=1468(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2181/41, 3-4=-1809/80, 4-5=-1507/91, 5-6=-1791/80, 6-7=-2167/41
BOT CHORD 2-14=0/1884, 12-14=0/1884, 11-12=0/1570, 9-11=0/1776, 7-9=0/1776
WEBS 3-12=-399/59, 4-12=0/564, 5-11=0/512, 6-11=-403/59

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 11-8-4, Exterior(2R) 11-8-4 to 15-11-3, Interior(1) 15-11-3 to 19-7-12, Exterior(2R) 19-7-12 to 23-10-11, Interior(1) 23-10-11 to 32-8-0 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
 - 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 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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Edenton, NC 27932

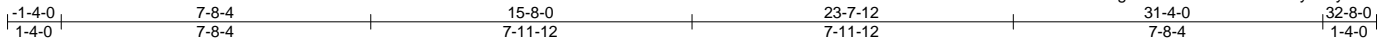
Job 21110323-02	Truss H1C	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110746
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:01 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-An3RY7bUmKLBcgGiuHsldum9VfkeZfcYzyxZ6yE4mS

Job Reference (optional)



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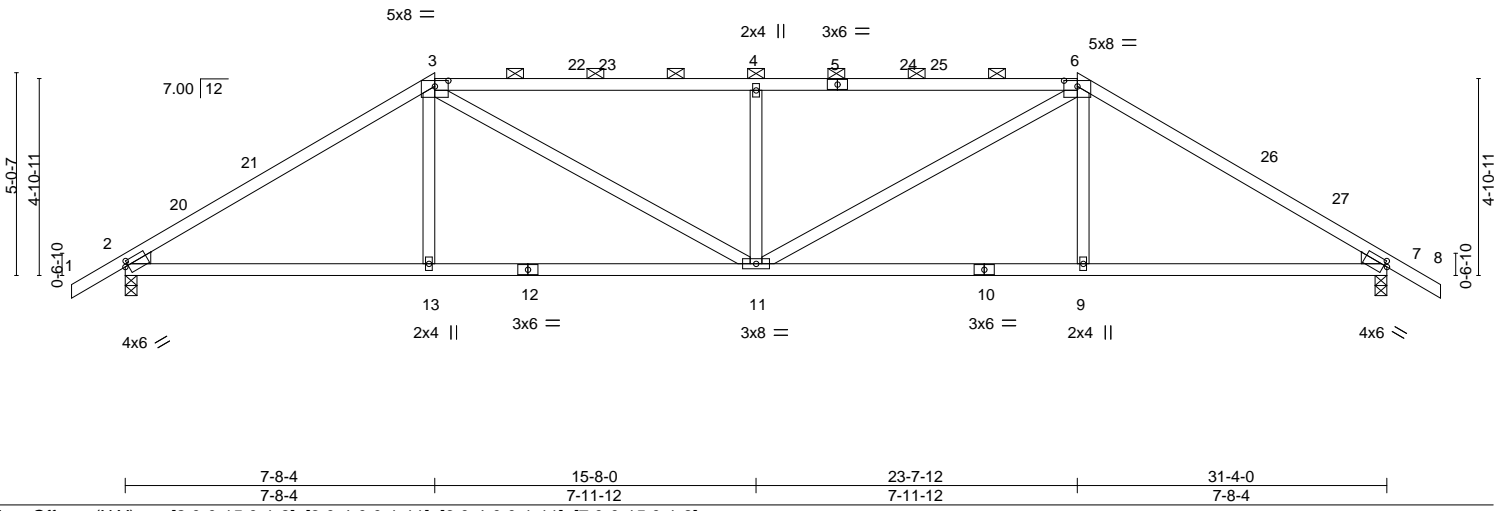


Plate Offsets (X, Y)--	[2:0-0-15,0-1-8], [3:0-4-0,0-1-11], [6:0-4-0,0-1-11], [7:0-0-15,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.12 9-11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.28 9-11 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.08 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 149 lb	FT = 20%

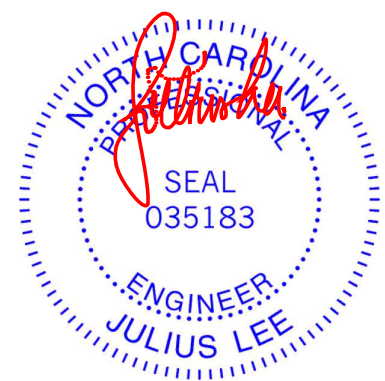
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5,5-6: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=88(LC 11)
Max Uplift 2=-42(LC 12), 7=-42(LC 12)
Max Grav 2=1333(LC 1), 7=1333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1985/36, 3-4=-2228/66, 4-6=-2227/66, 6-7=-1986/36
BOT CHORD 2-13=0/1617, 11-13=0/1613, 9-11=0/1614, 7-9=0/1619
WEBS 3-13=0/310, 3-11=-0/812, 4-11=-562/103, 6-11=-0/810, 6-9=0/310

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-8-4, Exterior(2R) 7-8-4 to 11-11-3, Interior(1) 11-11-3 to 23-7-12, Exterior(2R) 23-7-12 to 27-10-11, Interior(1) 27-10-11 to 32-8-0 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) 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) 2 and 7. 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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

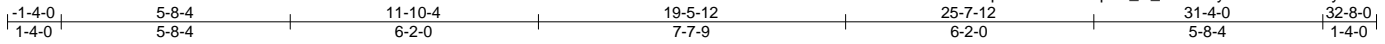
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 21110323-02	Truss H1D	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110747
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:02 2021 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-ezdmSc6WdT2DgruS_N_A5JJAvyLN?zmndiV5ZyE4mR



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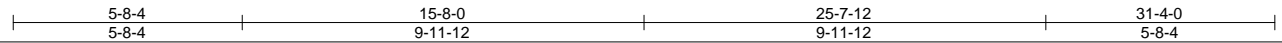
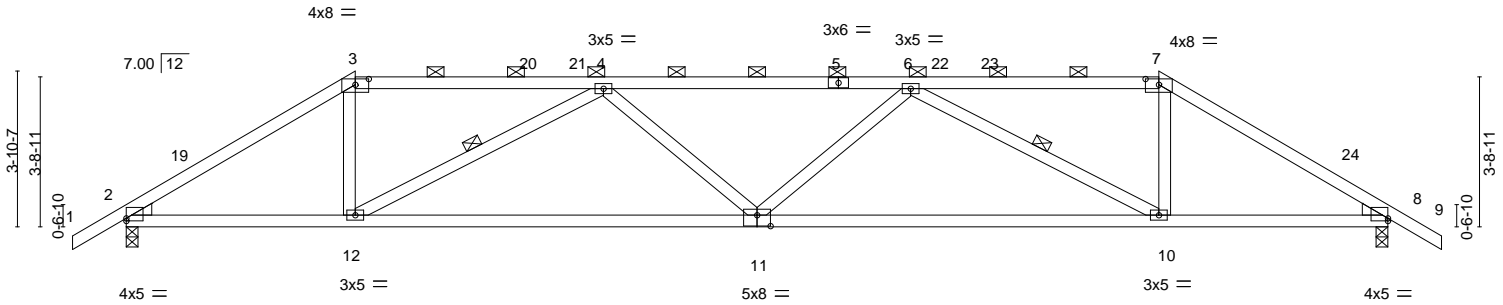


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [3:0-4-0,0-1-11], [7:0-4-0,0-1-11], [8:0-0-0,0-0-13], [11:0-4-0,0-3-4]

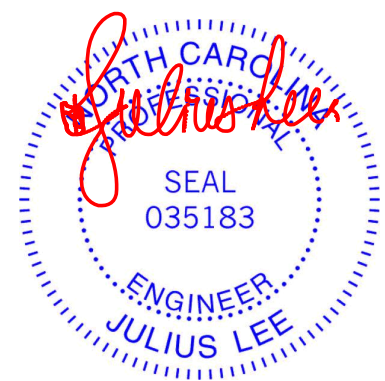
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.23	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.54	10-11	>697		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.11	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins (2-2-0 max.): 3-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 4-12, 6-10
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-68(LC 10)
 Max Uplift 2=-42(LC 12), 8=-42(LC 12)
 Max Grav 2=1333(LC 1), 8=1333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2070/12, 3-4=-1683/37, 4-6=-2848/10, 6-7=-1683/37, 7-8=-2070/0
 BOT CHORD 2-12=0/1711, 11-12=0/2724, 10-11=0/2724, 8-10=0/1711
 WEBS 3-12=0/719, 4-12=-1243/52, 4-11=0/328, 6-11=0/328, 6-10=-1243/52, 7-10=0/719

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 5-8-4, Exterior(2R) 5-8-4 to 9-11-3, Interior(1) 9-11-3 to 25-7-12, Exterior(2R) 25-7-12 to 29-10-11, Interior(1) 29-10-11 to 32-8-0 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) 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) 2 and 8. 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.
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 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



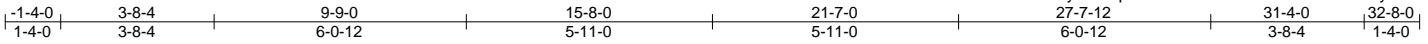
November 30, 2021

<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 <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21110323-02	Truss H1GR	Truss Type Hip Girder	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110748
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:05 2021 Page 1
ID:R1dAcVhN40z53bONtvm1Lzltw3-2YJyOUe?pYrd4HaT77xhokxru616allCTbw9ityE4mO



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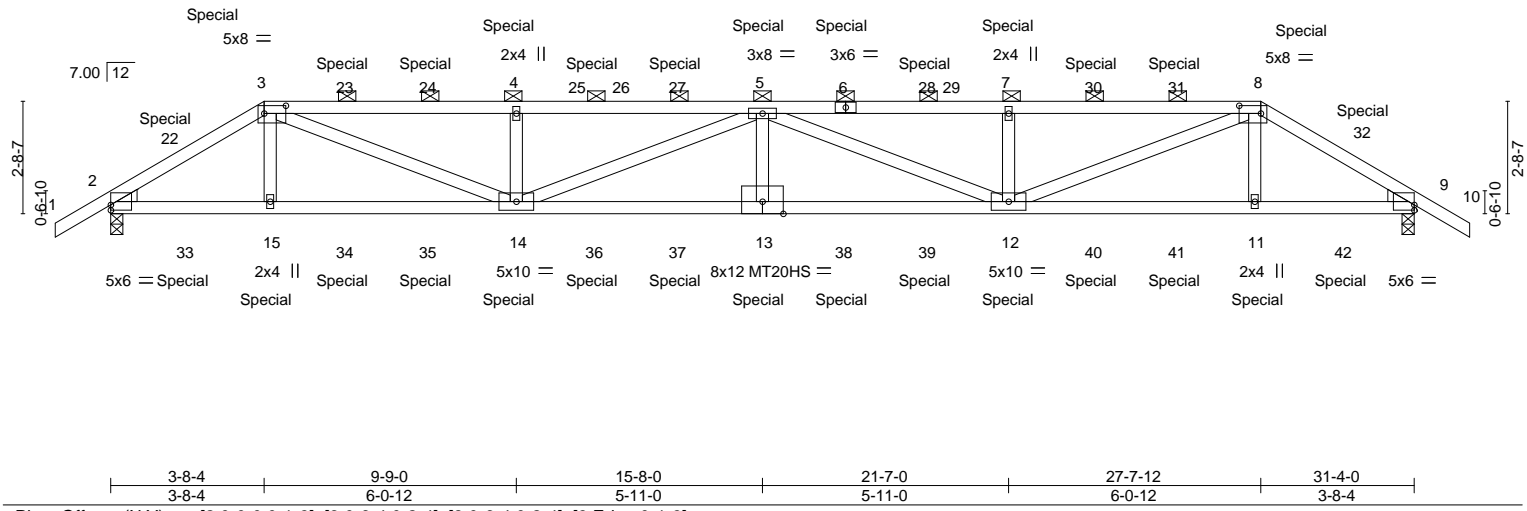


Plate Offsets (X, Y)--	[2:0-0,0,0-1-9], [3:0-6-4,0-2-4], [8:0-6-4,0-2-4], [9:Edge,0,1-9]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.34 13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.69 12-13 >543 180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) 0.12 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			
				Weight: 153 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-6,6-8: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 3-0-2 oc purlins, except 2-0-0 oc purlins (3-2-4 max.): 3-8.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-14,5-14,5-12,8-12: 2x4 SP No.2	

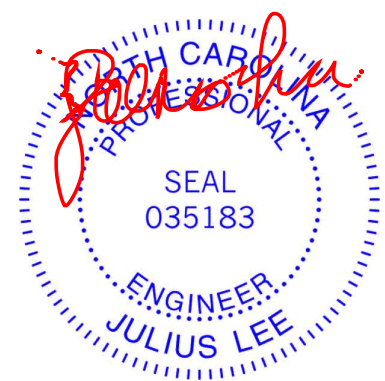
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-50(LC 6)
Max Uplift 2=-106(LC 8), 9=-106(LC 8)
Max Grav 2=1801(LC 1), 9=1799(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2749/108, 3-4=-4755/205, 4-5=-4755/205, 5-7=-4754/205, 7-8=-4754/205,
8-9=-2746/107
BOT CHORD 2-15=-31/2303, 14-15=-26/2309, 13-14=-149/5482, 12-13=-149/5482, 11-12=-35/2306,
9-11=-40/2300
WEBS 3-14=-108/2643, 4-14=-492/140, 5-14=-793/31, 5-13=0/306, 5-12=-794/31,
7-12=-493/140, 8-12=-108/2646

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 9. 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.



November 30, 2021

Continued on page 2

<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>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss
21110323-02	H1GR	Hip Girder	1	1	T26110748
					Job Reference (optional)

Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:05 2021 Page 2
 ID:R1dAcVhN40z53bONtvm1Lzltw3-2YjyOUe?pYrd4HaT77xhokxru616allCTbw9ityE4mO

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 40 lb up at 1-9-0, 64 lb down and 52 lb up at 3-8-4, 68 lb down and 49 lb up at 5-7-0, 68 lb down and 49 lb up at 7-7-0, 68 lb down and 49 lb up at 9-7-0, 64 lb down and 49 lb up at 11-7-0, 64 lb down and 49 lb up at 13-7-0, 64 lb down and 49 lb up at 15-7-0, 64 lb down and 49 lb up at 17-7-0, 64 lb down and 49 lb up at 19-7-0, 68 lb down and 49 lb up at 21-7-0, 68 lb down and 49 lb up at 23-7-0, 68 lb down and 49 lb up at 25-7-0, and 64 lb down and 52 lb up at 27-7-12, and 39 lb down and 40 lb up at 29-7-0 on top chord, and 140 lb down and 22 lb up at 1-9-0, 26 lb down at 3-9-0, 26 lb down at 5-7-0, 26 lb down at 7-7-0, 26 lb down at 9-7-0, 26 lb down at 11-7-0, 26 lb down at 13-7-0, 26 lb down at 15-7-0, 26 lb down at 17-7-0, 26 lb down at 19-7-0, 26 lb down at 21-7-0, 26 lb down at 23-7-0, 26 lb down at 25-7-0, and 26 lb down at 27-7-0, and 140 lb down and 22 lb up at 29-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 16-19=-20

Concentrated Loads (lb)

Vert: 3=-31(F) 6=-31(F) 8=-31(F) 15=-20(F) 14=-20(F) 4=-31(F) 13=-20(F) 5=-31(F) 7=-31(F) 12=-20(F) 11=-20(F) 23=-31(F) 24=-31(F) 26=-31(F) 27=-31(F) 28=-31(F) 30=-31(F) 31=-31(F) 33=-140(F) 34=-20(F) 35=-20(F) 36=-20(F) 37=-20(F) 38=-20(F) 39=-20(F) 40=-20(F) 41=-20(F) 42=-140(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 Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



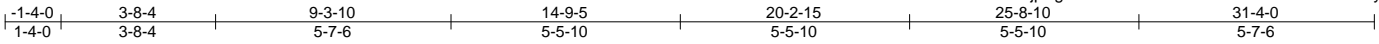
818 Soundside Road
 Edenton, NC 27932

Job 21110323-02	Truss H1GRA	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110749
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:07 2021 Page 1

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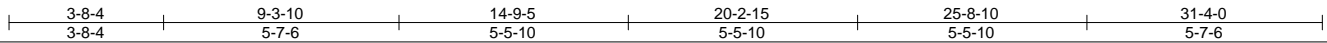
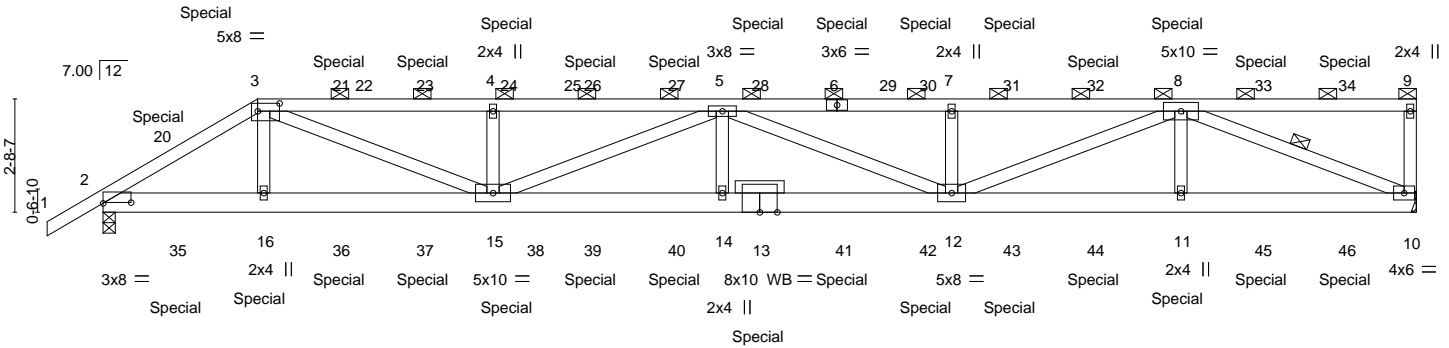


Plate Offsets (X, Y)--	[2:0-8-0,0-0-3], [3:0-6-4,0-2-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.29 12-14 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.60 12-14 >628 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) 0.09 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			
				Weight: 184 lb	FT = 20%

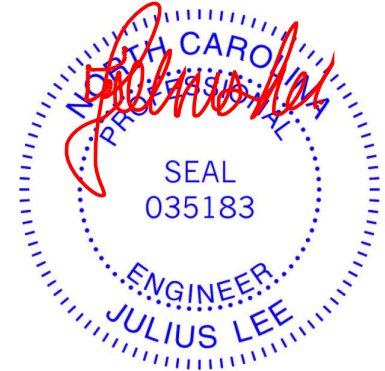
LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
3-15,5-15,5-12,8-12,8-10: 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=82(LC 8)
Max Uplift 10=-72(LC 5), 2=-104(LC 8)
Max Grav 10=1630(LC 1), 2=1790(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2822/108, 3-4=-4660/192, 4-5=-4660/192, 5-7=-5033/196, 7-8=-5033/196
BOT CHORD 2-16=-109/2387, 15-16=-105/2398, 14-15=-222/5568, 12-14=-222/5568, 11-12=-138/3269,
10-11=-138/3269
WEBS 3-16=0/268, 3-15=-94/2449, 4-15=-439/130, 5-15=-987/44, 5-14=0/316, 5-12=-581/35,
7-12=-395/113, 8-12=-76/1918, 8-11=0/313, 8-10=-3478/142

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 10.
 - 7) 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.
 - 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.



November 30, 2021

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



Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss
21110323-02	H1GRA	HALF HIP GIRDER	1	1	T26110749
					Job Reference (optional)

Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:07 2021 Page 2
 ID:R1dAcVhN40z53bONtvm1Lzltw3-?xRjpAgFL95KKbksFYz9t90DIwms2BEVxvPGnmyE4mM

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 16 lb down and 40 lb up at 1-9-0, 64 lb down and 52 lb up at 3-8-4, 68 lb down and 49 lb up at 5-7-12, 68 lb down and 49 lb up at 7-7-12, 68 lb down and 49 lb up at 9-7-12, 64 lb down and 49 lb up at 11-7-12, 64 lb down and 49 lb up at 13-7-12, 64 lb down and 49 lb up at 15-7-12, 64 lb down and 49 lb up at 17-7-12, 68 lb down and 49 lb up at 19-7-12, 68 lb down and 49 lb up at 21-7-12, 68 lb down and 49 lb up at 23-7-12, 68 lb down and 49 lb up at 25-7-12, and 68 lb down and 49 lb up at 27-7-12, and 68 lb down and 49 lb up at 29-7-12 on top chord, and 140 lb down and 22 lb up at 1-9-0, 26 lb down at 3-9-0, 26 lb down at 5-7-12, 26 lb down at 7-7-12, 26 lb down at 9-7-12, 26 lb down at 11-7-12, 26 lb down at 13-7-12, 26 lb down at 15-7-12, 26 lb down at 17-7-12, 26 lb down at 19-7-12, 26 lb down at 21-7-12, 26 lb down at 23-7-12, 26 lb down at 25-7-12, and 26 lb down at 27-7-12, and 26 lb down at 29-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-9=-60, 10-17=-20

Concentrated Loads (lb)

Vert: 3=-31(B) 6=-31(B) 13=-20(B) 16=-20(B) 11=-20(B) 8=-31(B) 21=-31(B) 23=-31(B) 24=-31(B) 26=-31(B) 27=-31(B) 28=-31(B) 30=-31(B) 31=-31(B) 32=-31(B) 33=-31(B) 34=-31(B) 35=-140(B) 36=-20(B) 37=-20(B) 38=-20(B) 39=-20(B) 40=-20(B) 41=-20(B) 42=-20(B) 43=-20(B) 44=-20(B) 45=-20(B) 46=-20(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



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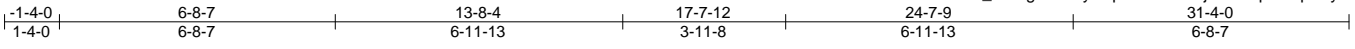
Job 21110323-02	Truss H1S	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110750
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:08 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-T7_50Wgt6TDBylJ2pFUOPMZPjJ0ondqe9Z9pJCyE4mL

Job Reference (optional)



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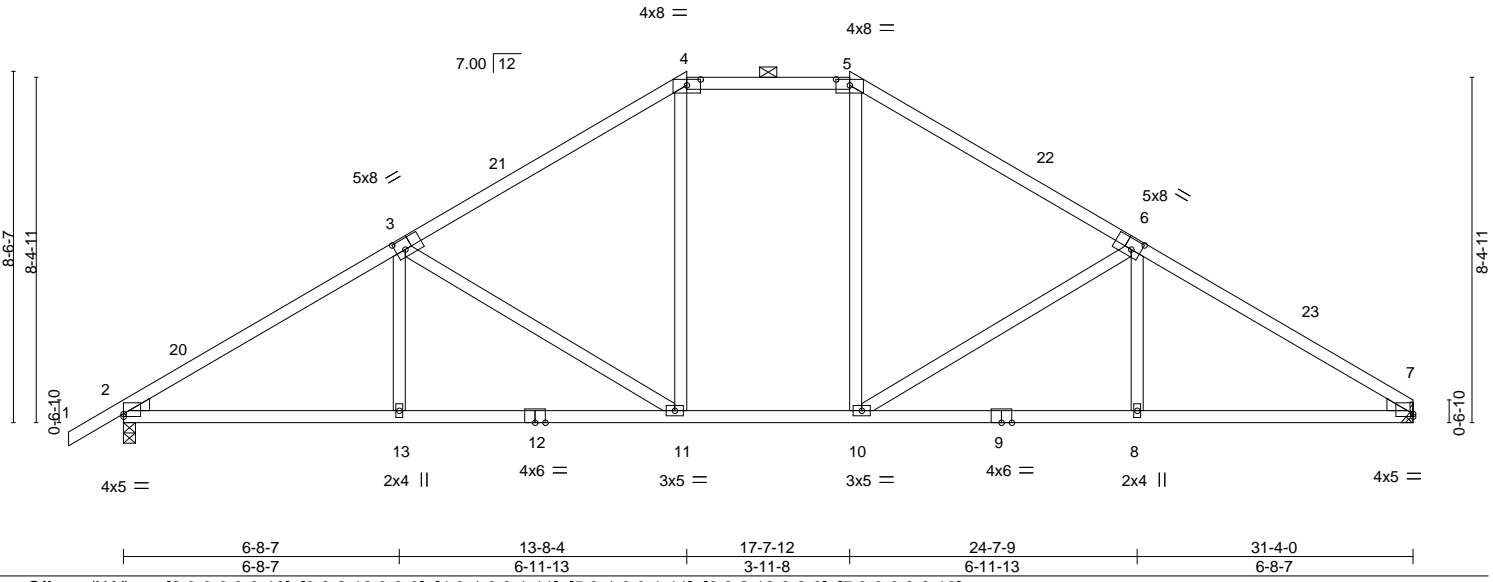


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-2-12,0-3-0], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-2-12,0-3-0], [7:0-0-0,0-0-13]
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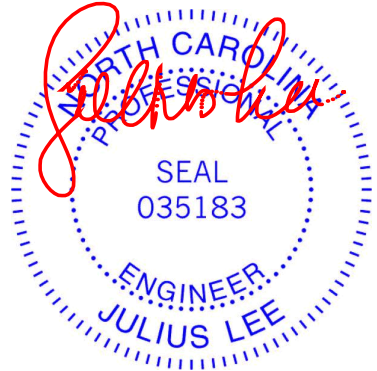
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.29 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.41 11-13	>923	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 162 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-10-15 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 7=Mechanical
 Max Horz 2=144(LC 11)
 Max Uplift 2=-43(LC 12), 7=-8(LC 12)
 Max Grav 2=1475(LC 17), 7=1402(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2217/40, 3-4=-1651/93, 4-5=-1344/107, 5-6=-1651/93, 6-7=-2227/45
 BOT CHORD 2-13=0/1926, 11-13=0/1914, 10-11=0/1388, 8-10=0/1823, 7-8=0/1836
 WEBS 3-13=0/268, 3-11=-615/72, 4-11=0/518, 5-10=0/521, 6-10=-626/78, 6-8=0/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 13-8-4, Exterior(2E) 13-8-4 to 17-7-12, Exterior(2R) 17-7-12 to 21-10-11, Interior(1) 21-10-11 to 31-4-0 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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

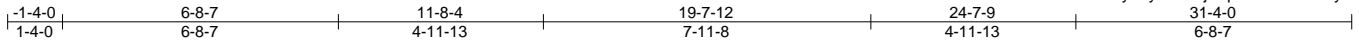
Job 21110323-02	Truss H1SA	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110751
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:09 2021 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-xJYTEshVtnL2ZvuEMy?dya6WUjMqWBznODuMrfyE4mK

Job Reference (optional)



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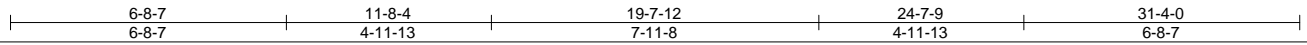
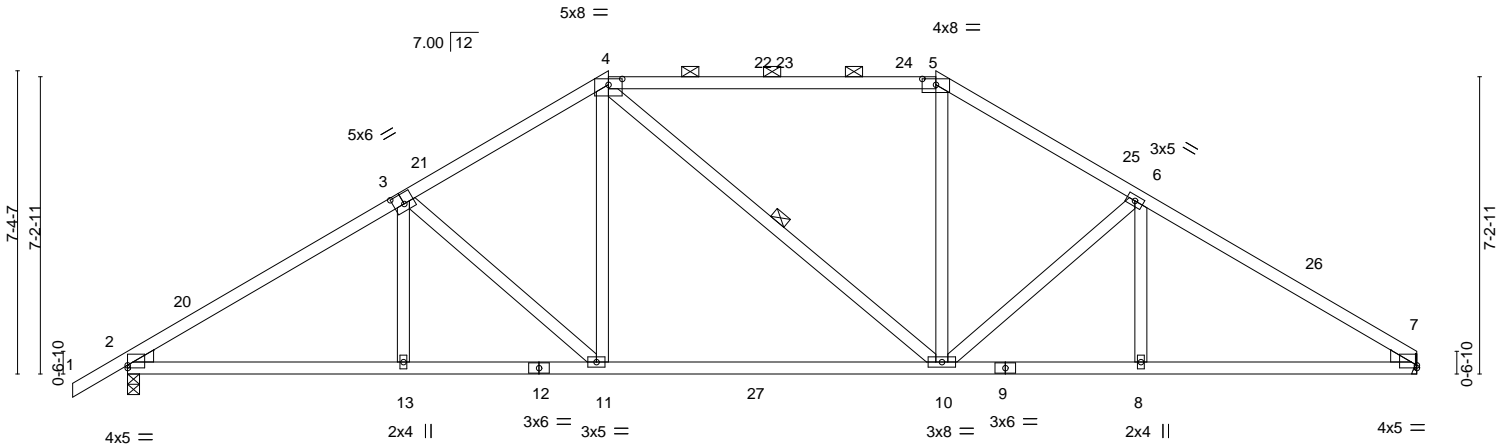


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-3-0,0-3-0], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [7:0-0-0,0-0-13]
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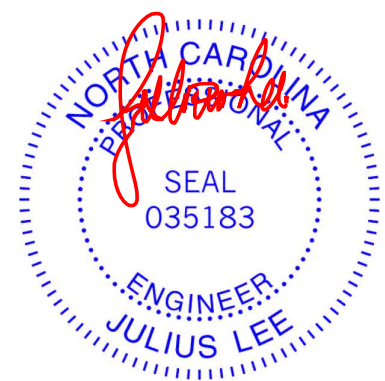
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.20 10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.38 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 168 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-2-6 max.): 4-5.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 4-10: 2x4 SP No.2	WEBS 1 Row at midpt 4-10
WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 7=Mechanical, 2=0-3-8
 Max Horz 2=125(LC 11)
 Max Uplift 7=8(LC 12), 2=43(LC 12)
 Max Grav 7=1395(LC 18), 2=1477(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2184/43, 3-4=-1812/81, 4-5=-1511/93, 5-6=-1797/83, 6-7=-2179/48
 BOT CHORD 2-13=0/1880, 11-13=0/1882, 10-11=0/1564, 8-10=0/1791, 7-8=0/1791
 WEBS 3-11=-400/58, 4-11=0/563, 5-10=0/516, 6-10=-414/65

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 11-8-4, Exterior(2R) 11-8-4 to 15-11-3, Interior(1) 15-11-3 to 19-7-12, Exterior(2R) 19-7-12 to 23-10-11, Interior(1) 23-10-11 to 31-4-0 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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

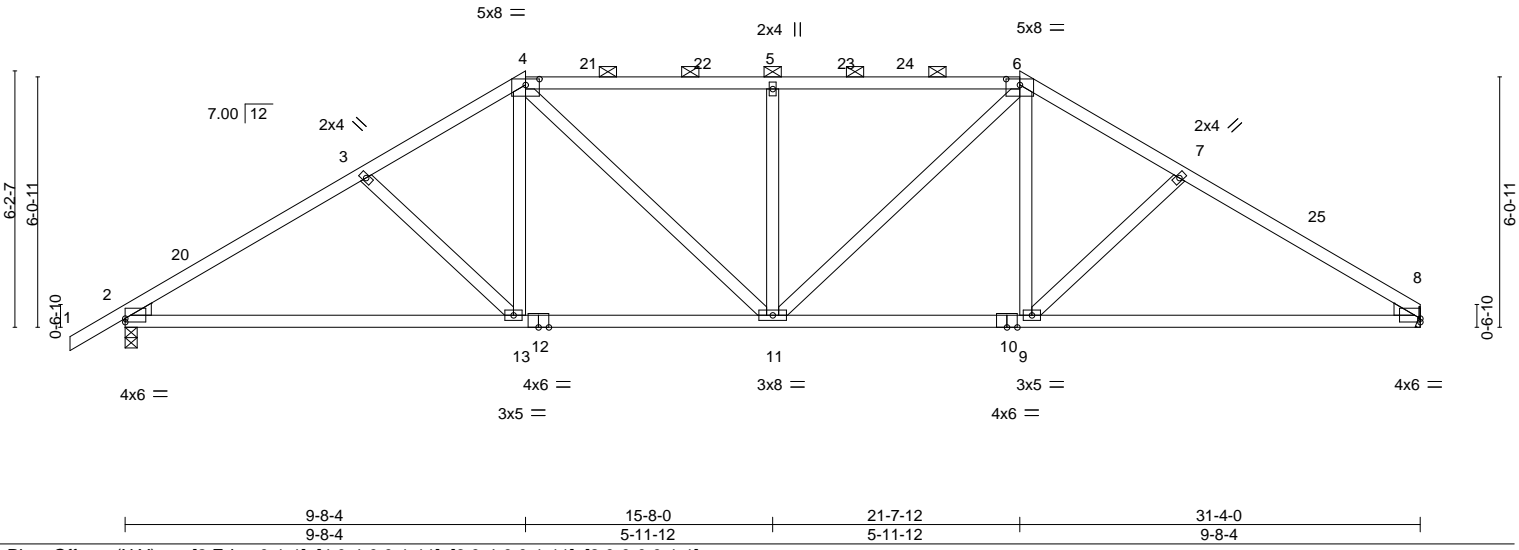
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 21110323-02	Truss H1SB	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110752
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Carter Components (Lexington), Lexington, NC - 27295, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:10 2021 Page 1
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Scale = 1:55.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.16	9-16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.34	9-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 165 lb	FT = 20%

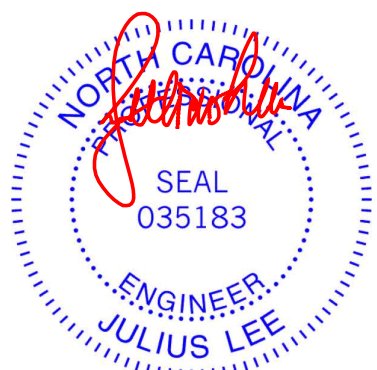
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=105(LC 11)
 Max Uplift 8=8(LC 12), 2=43(LC 12)
 Max Grav 8=1252(LC 1), 2=1335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1980/60, 3-4=-1751/60, 4-5=-1742/86, 5-6=-1742/86, 6-7=-1757/64, 7-8=-1990/65
 BOT CHORD 2-13=0/1627, 11-13=0/1468, 9-11=0/1472, 8-9=0/1638
 WEBS 4-13=0/390, 4-11=-22/465, 5-11=-426/83, 6-11=-19/462, 6-9=0/393

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 9-8-4, Exterior(2R) 9-8-4 to 13-11-3, Interior(1) 13-11-3 to 21-7-12, Exterior(2R) 21-7-12 to 25-7-6, Interior(1) 25-7-6 to 31-4-0 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) 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 8.
 - 8) 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.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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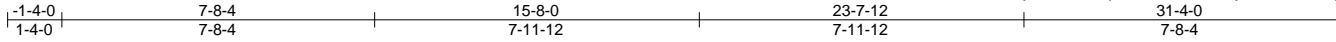
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss
21110323-02	H1SC	Hip	1	1	T26110753

Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:12 2021 Page 1

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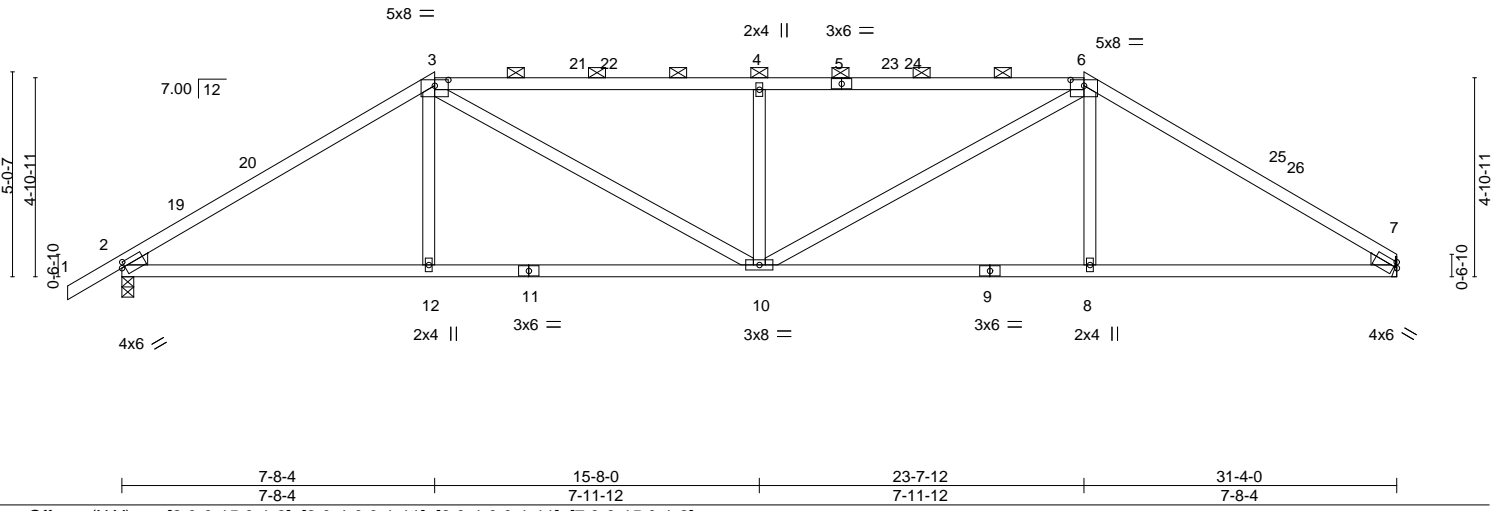


Plate Offsets (X,Y)--	[2:0-0-15,0-1-8], [3:0-4-0,0-1-11], [6:0-4-0,0-1-11], [7:0-0-15,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.12 8-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.28 10-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.08 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 147 lb	FT = 20%

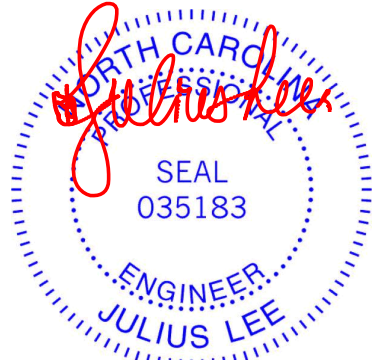
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5,5-6: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=85(LC 11)
Max Uplift 7=8(LC 12), 2=43(LC 12)
Max Grav 7=1252(LC 1), 2=1335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1989/37, 3-4=-2234/69, 4-6=-2233/68, 6-7=-1997/41
BOT CHORD 2-12=0/1620, 10-12=0/1615, 8-10=0/1625, 7-8=0/1630
WEBS 3-12=0/310, 3-10=-2/815, 4-10=-562/102, 6-10=0/808, 6-8=0/312

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-8-4, Exterior(2R) 7-8-4 to 11-11-3, Interior(1) 11-11-3 to 23-7-12, Exterior(2R) 23-7-12 to 27-10-11, Interior(1) 27-10-11 to 31-4-0 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) 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7.
 - 8) 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.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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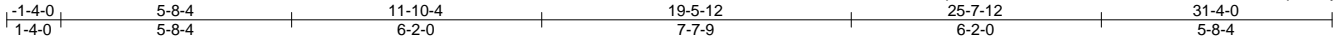
818 Soundside Road
Edenton, NC 27932

Job 21110323-02	Truss H1SD	Truss Type Hip	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110754
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:13 2021 Page 1

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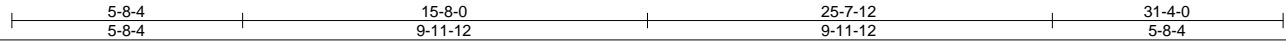
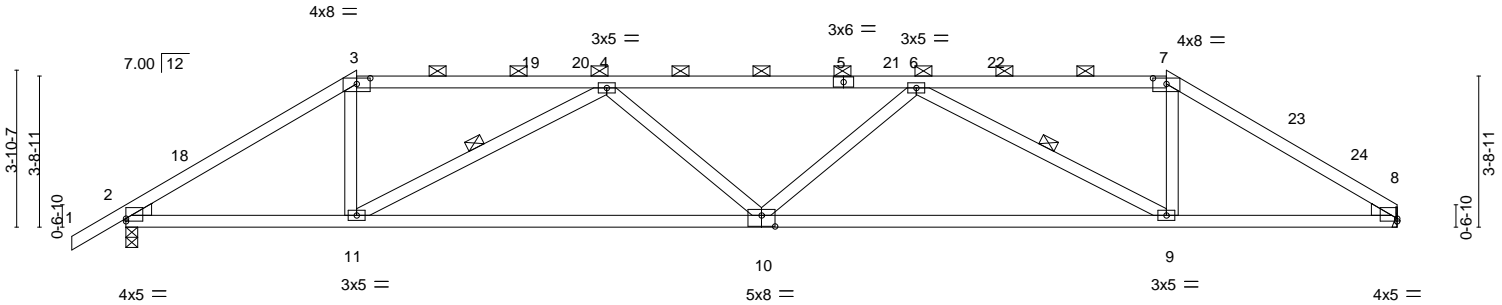


Plate Offsets (X, Y)--	[2:0-0-0,0-0-13], [3:0-4-0,0-1-11], [7:0-4-0,0-1-11], [8:0-0-0,0-0-13], [10:0-4-0,0-3-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.23 9-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.54 10-11 >697 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.11 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 145 lb	FT = 20%

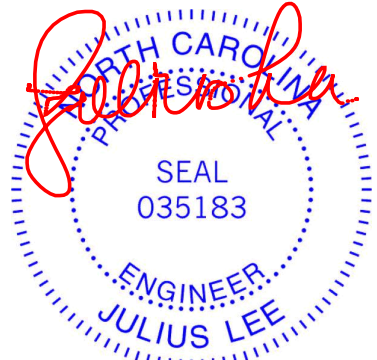
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (2-2-0 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-11, 6-9

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=65(LC 11)
 Max Uplift 8=8(LC 12), 2=43(LC 12)
 Max Grav 8=1252(LC 1), 2=1335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2073/14, 3-4=-1686/39, 4-6=-2855/13, 6-7=-1698/45, 7-8=-2085/20
 BOT CHORD 2-11=0/1714, 10-11=-7/2730, 9-10=-9/2734, 8-9=0/1726
 WEBS 3-11=0/721, 4-11=-1246/54, 4-10=0/328, 6-10=0/327, 6-9=-1241/49, 7-9=0/720

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 5-8-4, Exterior(2R) 5-8-4 to 9-11-3 , Interior(1) 9-11-3 to 25-7-12, Exterior(2R) 25-7-12 to 29-10-11, Interior(1) 29-10-11 to 31-4-0 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) 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 8.
 - 8) 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.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

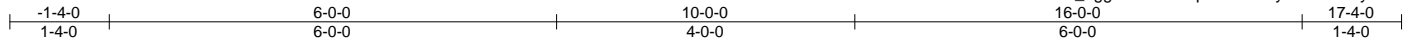
Job 21110323-02	Truss H4	Truss Type HIP	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110755
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Carter Components (Lexington), Lexington, NC - 27295,

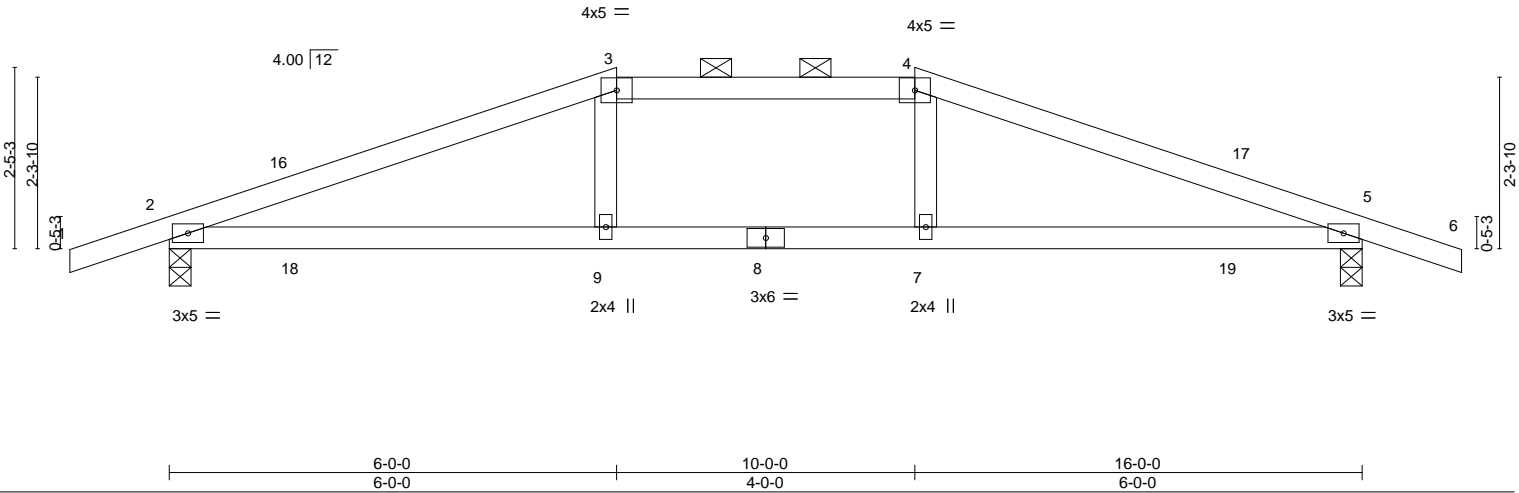
8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:14 2021 Page 1

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Job Reference (optional)



Scale = 1:30.9



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 0.42	Vert(LL)	0.14 9-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.17 9-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.03 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 58 lb	FT = 20%

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

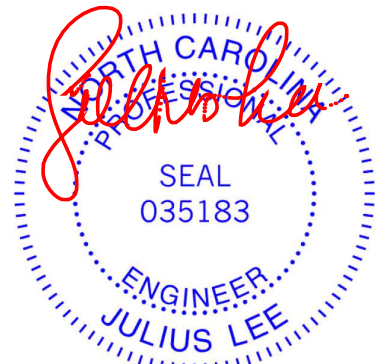
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (5-3-12 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
 Max Horz 2=-21(LC 10)
 Max Uplift 2=-174(LC 12), 5=-174(LC 12)
 Max Grav 2=720(LC 1), 5=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1311/1206, 3-4=-1191/1164, 4-5=-1311/1220
 BOT CHORD 2-9=-1091/1198, 7-9=-1076/1191, 5-7=-1092/1198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 6-0-0, Exterior(2E) 6-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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) 2 and 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30, 2021

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



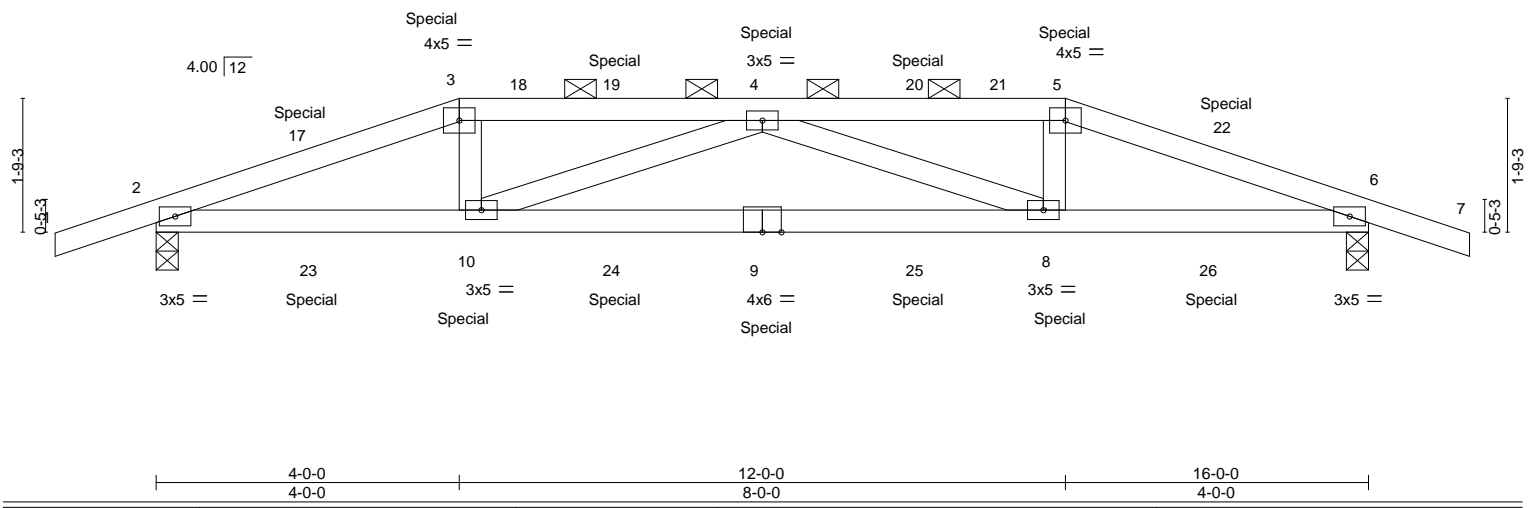
818 Soundside Road
 Edenton, NC 27932

Job 21110323-02	Truss H4GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110756
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:16 2021 Page 1
ID:R1dAcVhN40z53bONTvnm1Lzltw3-Eft6iFnuDwE3vzwaHxdGk2uoRYmlfNYp?o5EblyE4mD



Scale = 1:30.4



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 0.43	Vert(LL)	0.18 8-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.32 8-10	>601	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 68 lb	FT = 20%

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

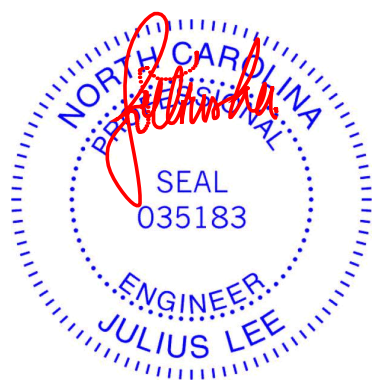
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except
2-0-0 oc purlins (3-8-11 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 7-9-9 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-16(LC 6)
Max Uplift 2=-277(LC 4), 6=-277(LC 5)
Max Grav 2=1048(LC 1), 6=1049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2162/557, 3-4=-2055/545, 4-5=-2058/546, 5-6=-2165/557
BOT CHORD 2-10=-506/2013, 8-10=-643/2520, 6-8=-500/2016
WEBS 3-10=-117/466, 4-10=-527/141, 4-8=-524/141, 5-8=-117/466

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 left and right exposed; 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) 2 and 6. 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) 39 lb down and 32 lb up at 2-0-12, 57 lb down and 45 lb up at 4-0-0, 39 lb down and 45 lb up at 6-0-12, 39 lb down and 45 lb up at 8-0-12, 39 lb down and 45 lb up at 10-0-12, and 57 lb down and 45 lb up at 12-0-0, and 39 lb down and 32 lb up at 13-11-4 on top chord, and 169 lb down and 60 lb up at 2-0-12, 30 lb down and 21 lb up at 4-0-12, 30 lb down and 21 lb up at 6-0-12, 30 lb down and 21 lb up at 8-0-12, 30 lb down and 21 lb up at 10-0-12, and 30 lb down and 21 lb up at 11-11-4, and 169 lb down and 60 lb up at 13-11-4 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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 11-14=-20




November 30, 2021

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 21110323-02	Truss H4GR	Truss Type HIP GIRDER	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110756 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:16 2021 Page 2
ID:R1dAcVhN40z53bONtvm1Lzltw3-Eft6iFnuDwE3vzwaHxdGk2uoRYmIfNYp?o5EblyE4mD

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-39(F) 5=-39(F) 9=-25(F) 10=-25(F) 4=-39(F) 8=-25(F) 19=-39(F) 20=-39(F) 23=-169(F) 24=-25(F) 25=-25(F) 26=-169(F)

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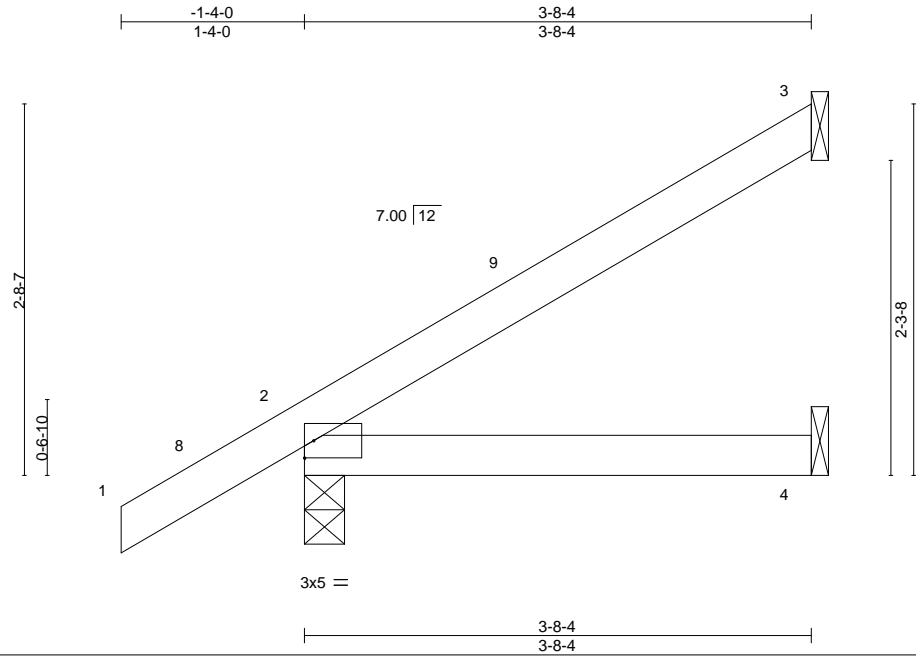
Job 21110323-02	Truss J1	Truss Type Jack-Open	Qty 27	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110757
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Carter Components (Lexington),

Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:16 2021 Page 1

ID:R1dAcVhN40z53bONtvnm1Lzltw3-EFT6iFnuDwE3vzwaHxdGk2usXYvofQcp?o5EblyE4mD



Scale = 1:16.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.01 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02 4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

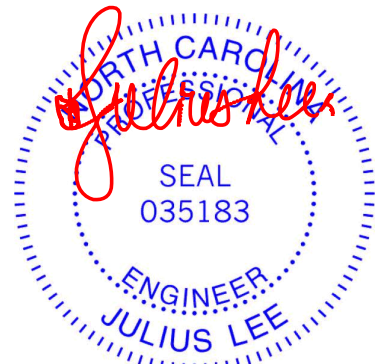
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=81(LC 12)
Max Uplift 3=-28(LC 12), 2=-23(LC 12)
Max Grav 3=91(LC 1), 2=240(LC 1), 4=66(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 3-7-8 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 28 lb uplift at joint 3.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 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.



November 30, 2021

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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



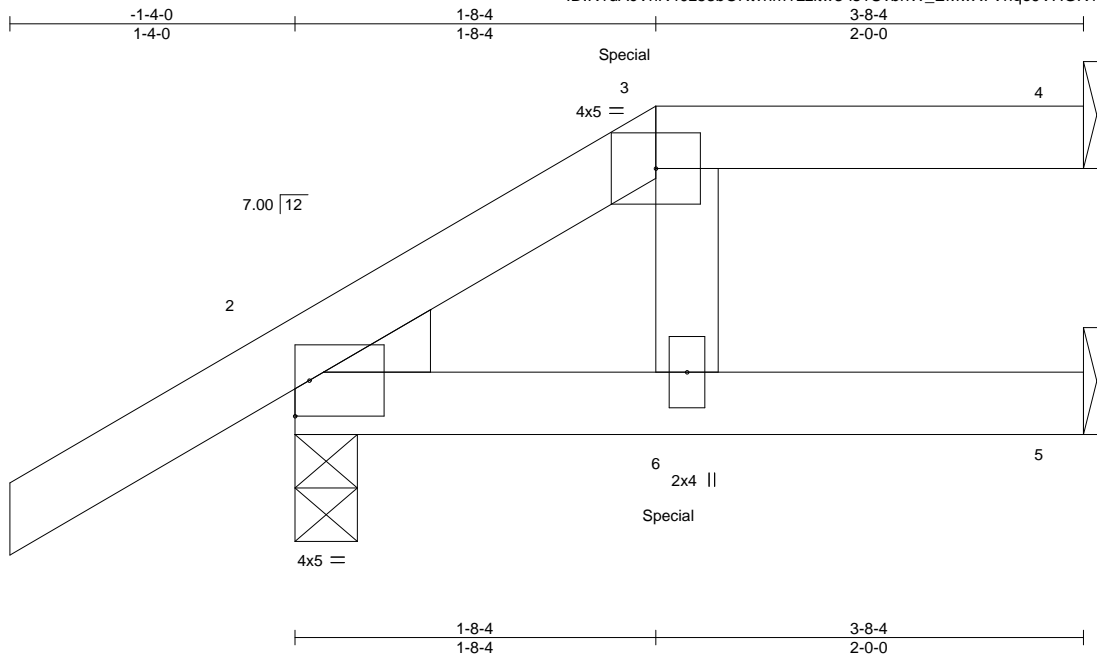
818 Soundside Road
Edenton, NC 27932

Job 21110323-02	Truss J1A	Truss Type Jack-Open Girder	Qty 3	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110758
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:17 2021 Page 1

ID:R1dAcVhN40z53bONTvnm1Lzltw3-is1UvbnW_EMwX7Vnqe9VHGR1my60Ot4zESro7ByE4mC



Scale = 1:10.8

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 0.14	Vert(LL)	-0.03	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.06	6	>718		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.04	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 16 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 3-8-4 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=0-3-8, 5=Mechanical
 Max Horz 2=54(LC 8)
 Max Uplift 4=-20(LC 4), 2=-38(LC 8), 5=-2(LC 5)
 Max Grav 4=58(LC 1), 2=337(LC 1), 5=160(LC 1)

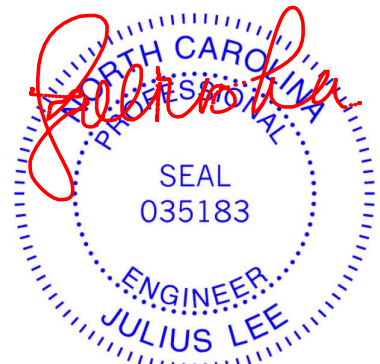
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-256/42

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 2 lb uplift at joint 5.
- 8) 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.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 145 lb down and 15 lb up at 1-8-4 on top chord, and 46 lb down and 5 lb up at 1-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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, 5-7=-20



November 30, 2021

Continued on page 2

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 Edenton, NC 27932

Job 21110323-02	Truss J1A	Truss Type Jack-Open Girder	Qty 3	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110758 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:18 2021 Page 2
ID:R1dAcVhN40z53bONtvnm1Lzltw3-A2bt7xo9YUn8H4zOLgkpTzCWLSF7KK6T6aLgdyE4mB

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-145(F) 6=-41(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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ENGINEERING BY
TRENCO
A MiTek Affiliate

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Edenton, NC 27932

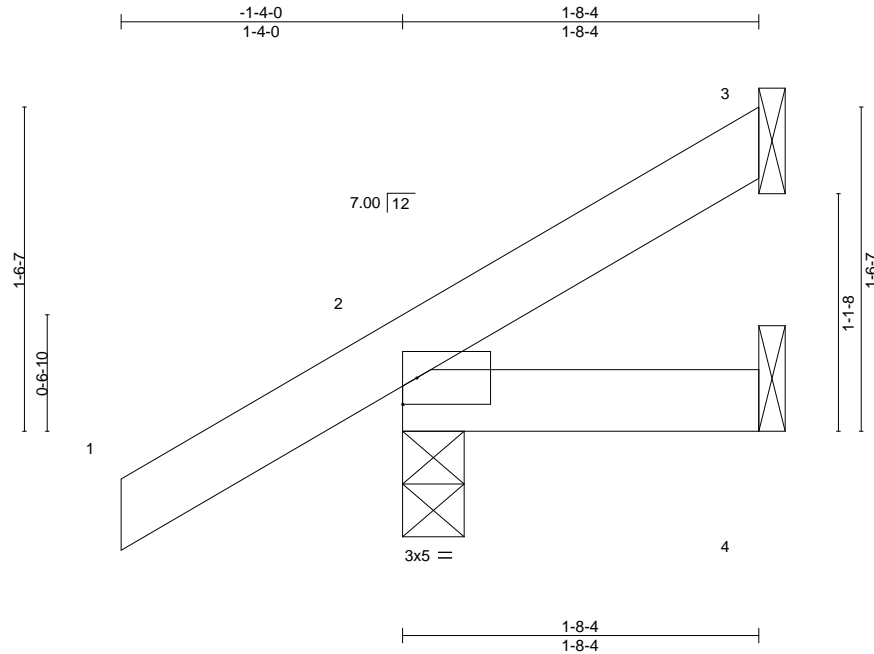
Job 21110323-02	Truss J2	Truss Type JACK-OPEN	Qty 3	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110759
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Carter Components (Lexington),

Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:18 2021 Page 1

ID:R1dAcVhN40z53bONtvnm1Lzltw3-A2bt7xo9lYUn8H4zOLgkpTzDoLcm7K66T6aLgdyE4mB



Scale = 1:10.9

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 0.12	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP							
									Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

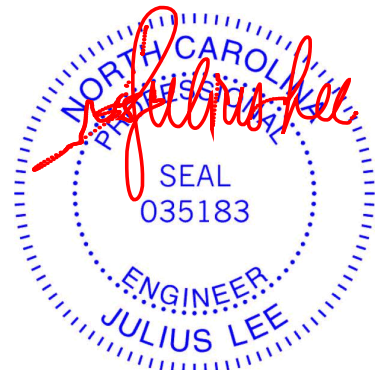
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=53(LC 12)
Max Uplift 3=7(LC 12), 2=39(LC 12)
Max Grav 3=31(LC 17), 2=179(LC 1), 4=26(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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) 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 7 lb uplift at joint 3.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 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.



November 30, 2021

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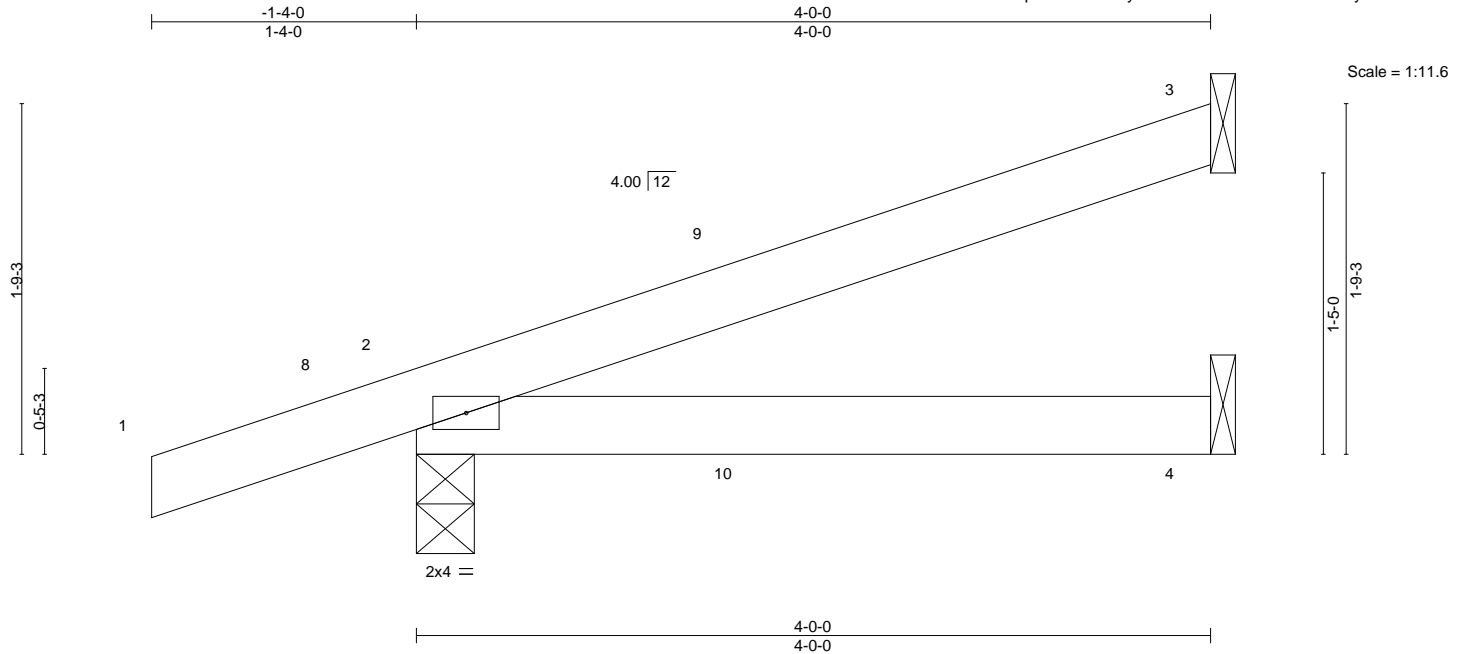
Job 21110323-02	Truss J4	Truss Type JACK-OPEN	Qty 5	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110760
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Carter Components (Lexington), Lexington, NC - 27295,

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ID:R1dAcVhN40z53bONTvnm1Lzltw3-eE9FKHpnrWrcemRe9y3BzMhWNUvlsmMGhmKuC4yE4mA

Job Reference (optional)



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.03 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	0.03 4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 14 lb	FT = 20%

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

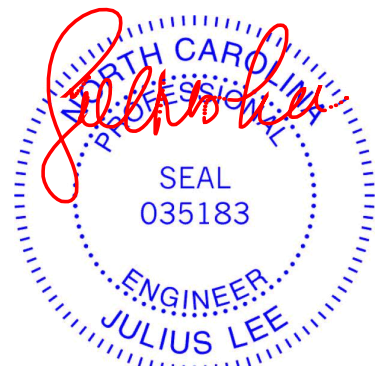
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=49(LC 12)
Max Uplift 3=-24(LC 12), 2=-68(LC 12), 4=-11(LC 9)
Max Grav 3=99(LC 1), 2=251(LC 1), 4=70(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 3-11-4 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 24 lb uplift at joint 3 and 11 lb uplift at joint 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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

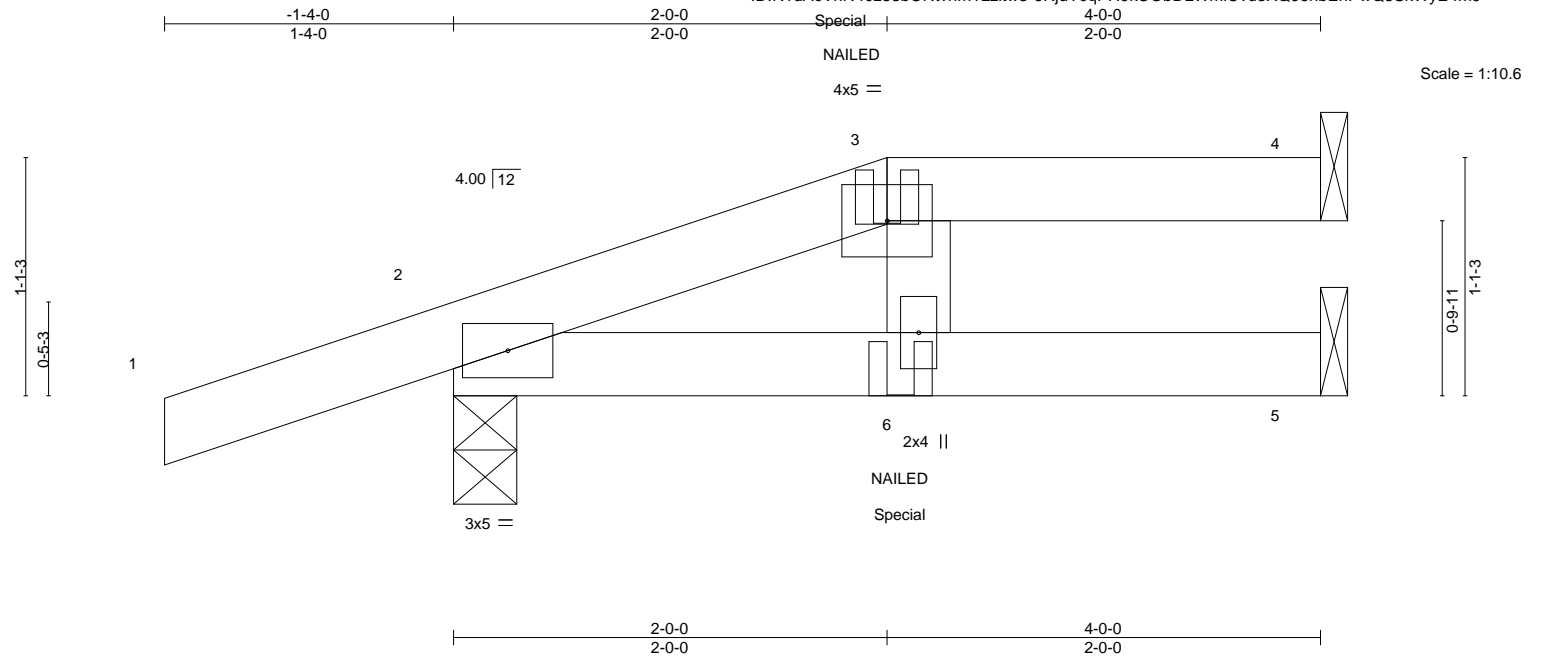


818 Soundside Road
Edenton, NC 27932

Job 21110323-02	Truss J4A	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110761
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:20 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-6RjdYcqPH9kUObDLWmiCvu3XQ96hbEhPwQ3SkWyE4m9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.05	6	>923	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.08	6	>577		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.03	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

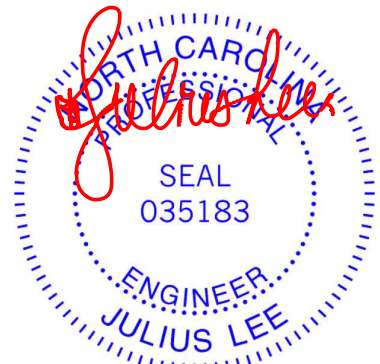
REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=33(LC 8)
 Max Uplift 4=20(LC 4), 2=-97(LC 4), 5=-57(LC 5)
 Max Grav 4=58(LC 1), 2=347(LC 1), 5=189(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-303/91

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 20 lb uplift at joint 4 and 57 lb uplift at joint 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.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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: 1-3=-60, 3-4=-60, 5-7=-20
 Concentrated Loads (lb)
 Vert: 3=-150(F) 6=-49(F=-50, B=1)



November 30, 2021

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 21110323-02	Truss M1	Truss Type MONOPIITCH	Qty 10	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110763
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:22 2021 Page 1
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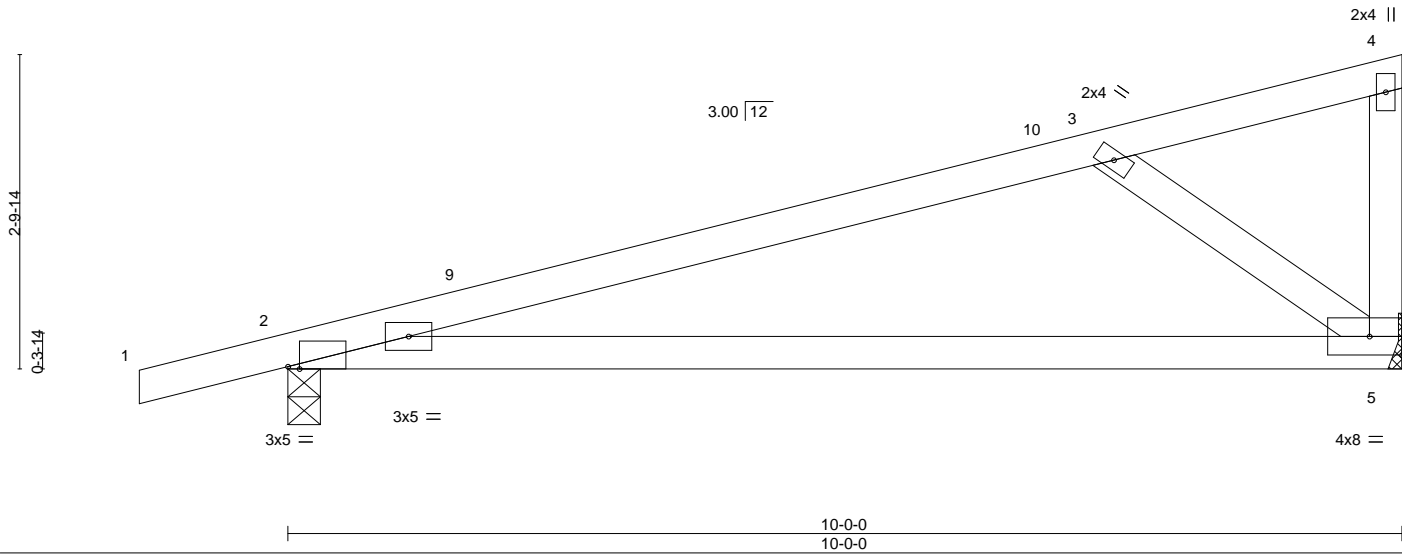


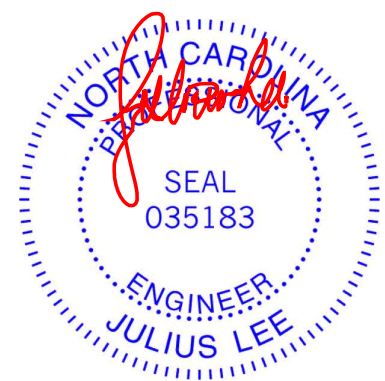
Plate Offsets (X,Y)--	[2:0-1-4,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.19	5-8	>624	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.42	5-8	>281	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 40 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 5=Mechanical
 Max Horz 2=80(LC 8)
 Max Uplift 2=-46(LC 8), 5=-21(LC 8)
 Max Grav 2=480(LC 1), 5=389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-542/129
 BOT CHORD 2-5=-179/506
 WEBS 3-5=-558/242

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 9-10-4 zone; cantilever left and right exposed ; end vertical 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 21 lb uplift at joint 5.
 - 6) Two SBP4 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

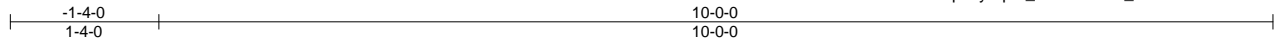
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>818 Soundside Road Edenton, NC 27932</p>
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Job 21110323-02	Truss M1G	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110764
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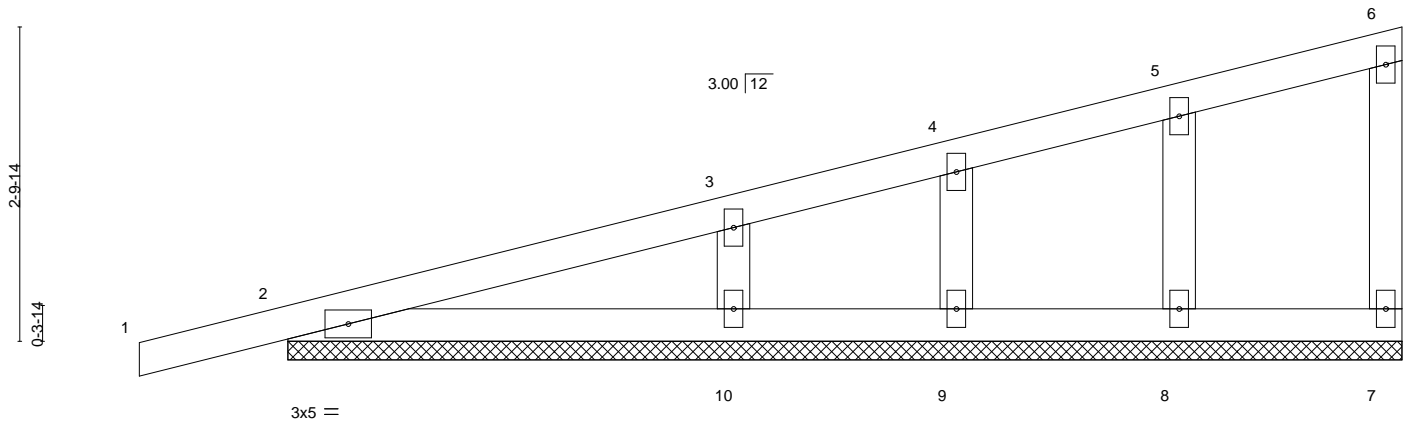
Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:22 2021 Page 1

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Scale = 1:20.7



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)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 41 lb	FT = 20%

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

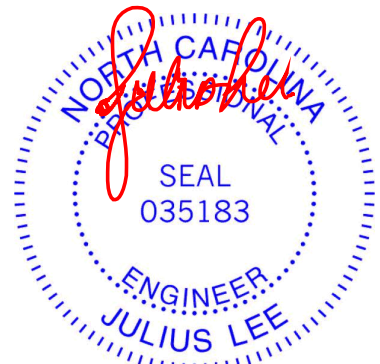
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-0-0.
(lb) - Max Horz 2=79(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=299(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=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 9-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 30, 2021

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

Job 21110323-02	Truss M2	Truss Type MONOPITCH	Qty 5	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110765
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:23 2021 Page 1
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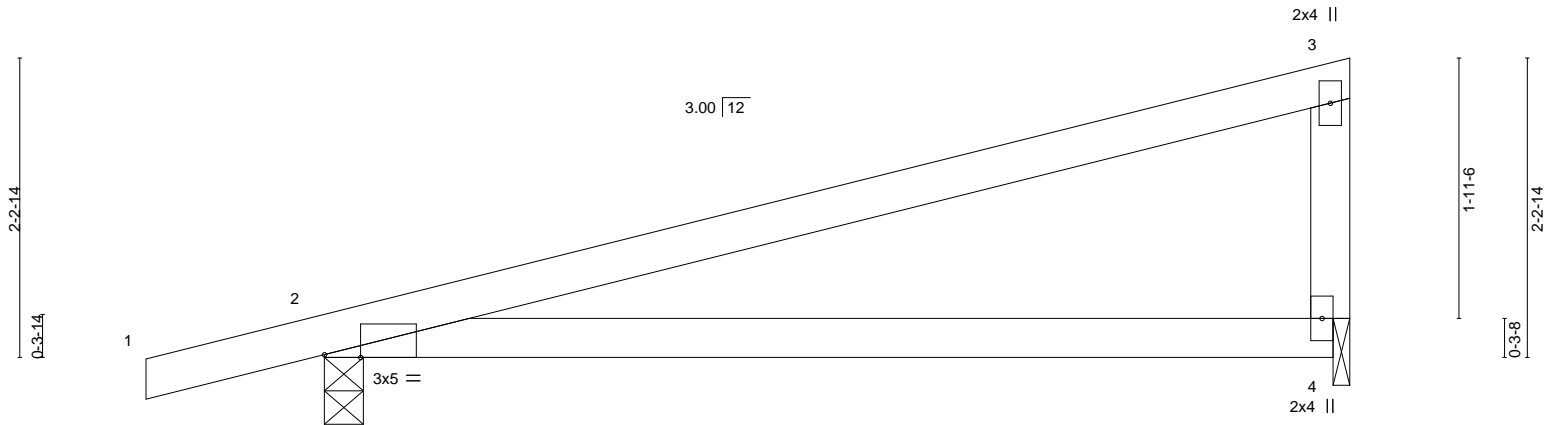


Plate Offsets (X, Y)-- [2:0-3-4, Edge]

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 0.77	Vert(LL)	0.13	4-7	>704	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.29	4-7	>311		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 28 lb	FT = 20%

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

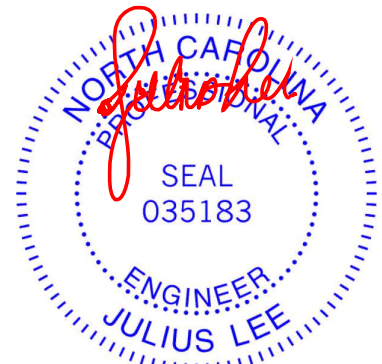
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-1-8
Max Horz 2=64(LC 8)
Max Uplift 2=-45(LC 8), 4=-14(LC 8)
Max Grav 2=388(LC 1), 4=294(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-6-4 zone; cantilever left and right exposed; end vertical 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) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Two SBP4 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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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 21110323-02	Truss M2A	Truss Type MONOPICH	Qty 3	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110766
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:24 2021 Page 1
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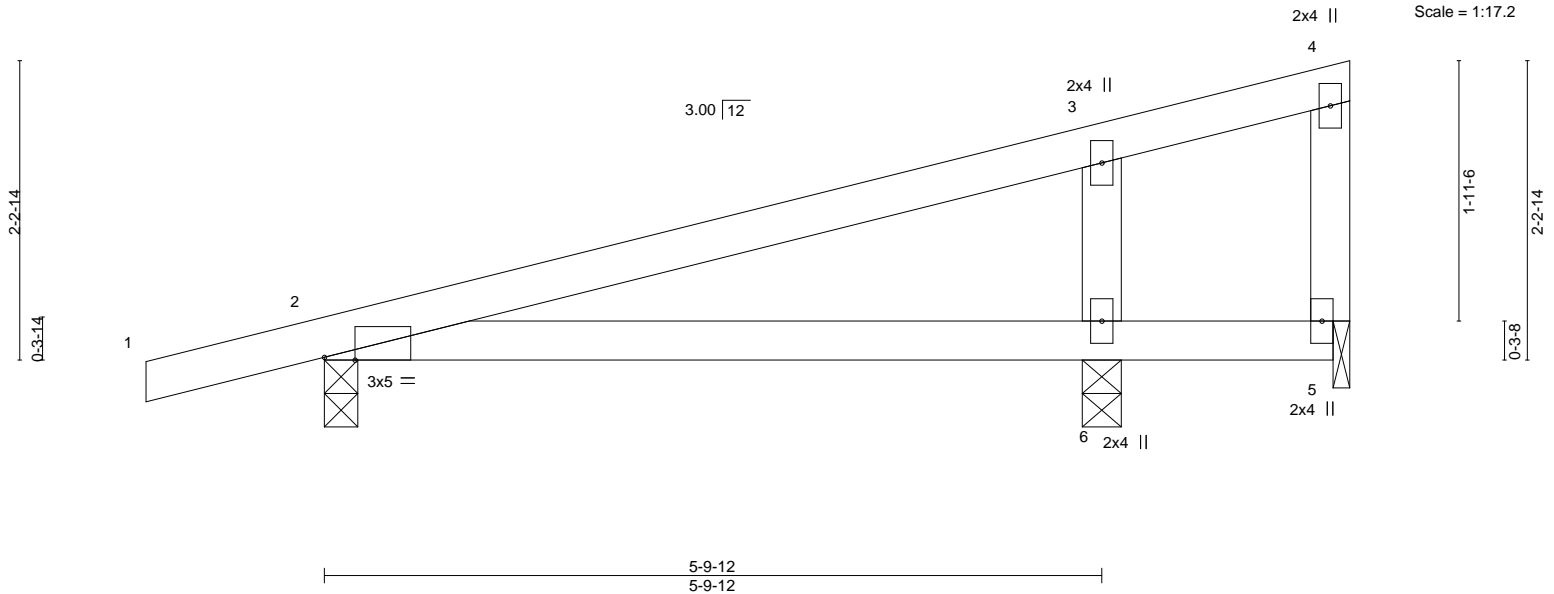
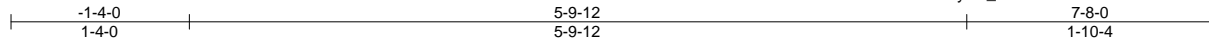


Plate Offsets (X,Y)--	[2:0-2-12,Edge]					PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl	L/d	MT20	244/190	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) 0.07 6-9 >999	240			
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.05 6-9 >999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 2 n/a n/a				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					
					Weight: 29 lb	FT = 20%	

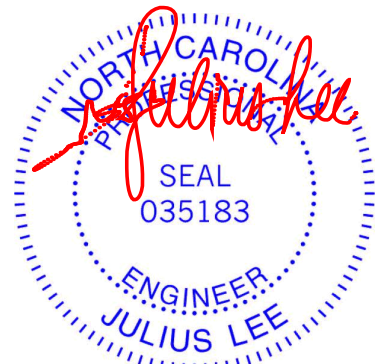
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 6=0-3-8, 5=0-1-8
Max Horz 2=64(LC 8)
Max Uplift 2=-81(LC 8), 6=-108(LC 8), 5=-72(LC 1)
Max Grav 2=280(LC 1), 6=473(LC 1), 5=31(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-317/288

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-6-4 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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 7) 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.
 - 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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 21110323-02	Truss M2AA	Truss Type MONOPICH	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110767
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:25 2021 Page 1
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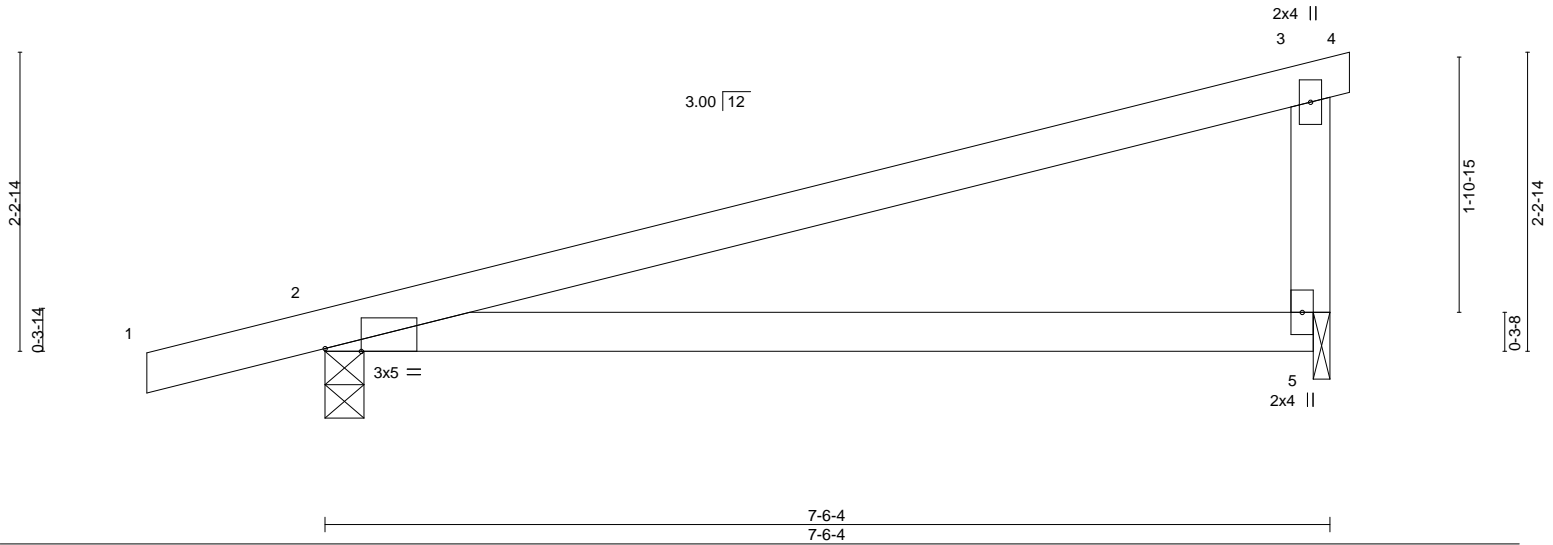


Plate Offsets (X, Y)--	[2:0-3-4, Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	0.33	5-8	>267	240
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.27	5-8	>329	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					
								PLATES
								MT20
								GRIP
								244/190
								Weight: 27 lb
								FT = 20%

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

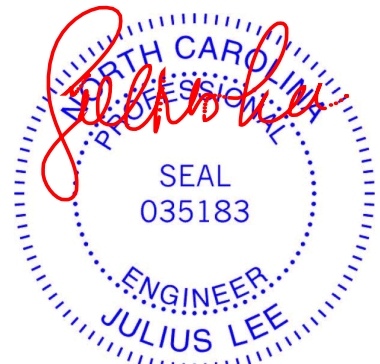
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-1-8
 Max Horz 2=65(LC 8)
 Max Uplift 2=-107(LC 8), 5=-80(LC 8)
 Max Grav 2=382(LC 1), 5=294(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-8-0 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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Two SBP4 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) 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.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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 21110323-02	Truss M2B	Truss Type MONOPICH	Qty 2	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110768
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:25 2021 Page 1
ID:R1dAcVhN40z53bONtvm1Lzltw3-TOWWbKuY6hMnUM6JKIOcymG_AsxGUr84inDPjyE4m4



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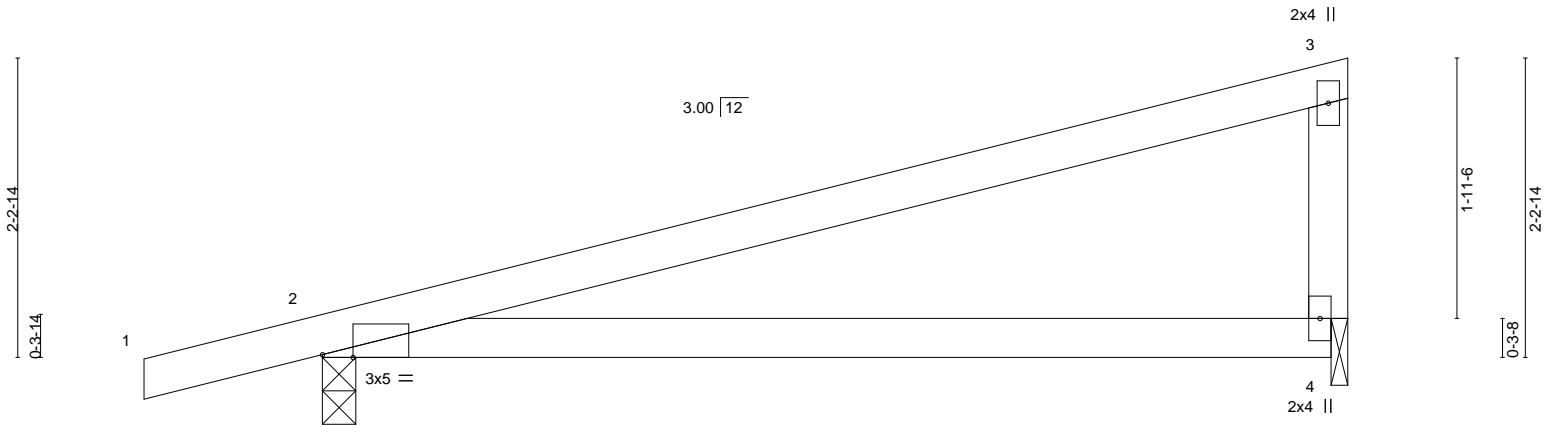


Plate Offsets (X, Y)-- [2:0-2-12,Edge]		LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.77	Vert(LL)	0.36	in	(loc)	l/defl	L/d	MT20	244/190		
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.29	4-7	>252	240					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4-7	>311	180					
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS				2	n/a	n/a					
														Weight: 28 lb	FT = 20%

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

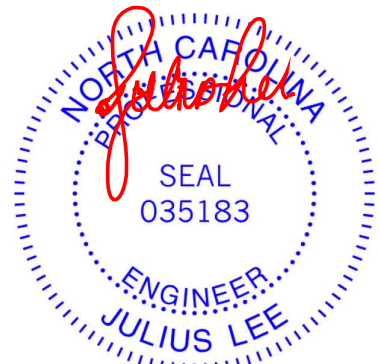
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=64(LC 8)
Max Uplift 2=-109(LC 8), 4=-78(LC 8)
Max Grav 2=388(LC 1), 4=294(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-6-4 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) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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 21110323-02	Truss M2G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110769
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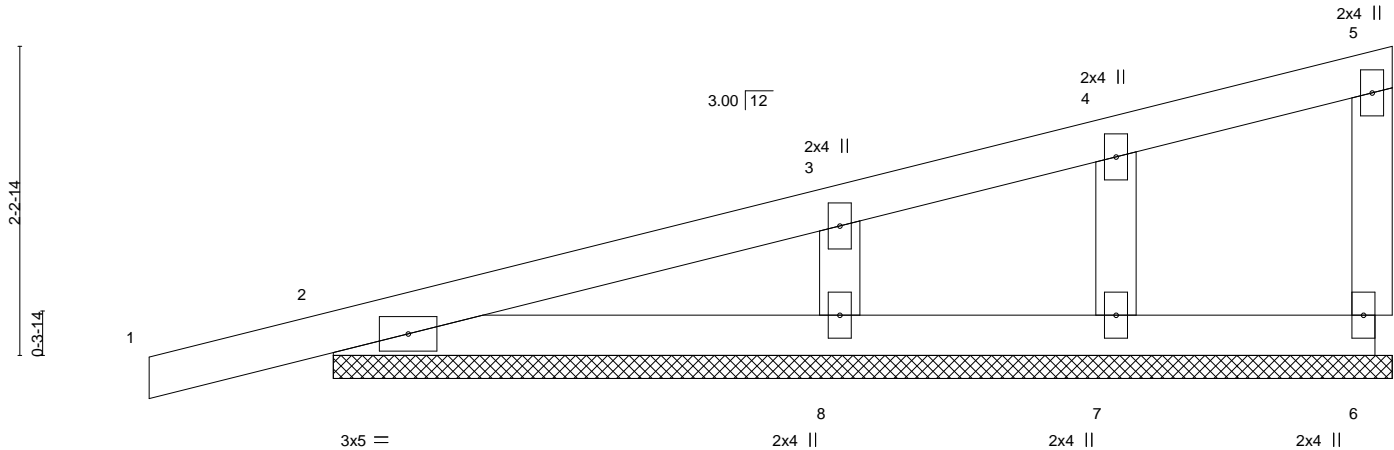
Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:26 2021 Page 1

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Scale = 1:16.7



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	1	n/r	120	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	1	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 30 lb	FT = 20%

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

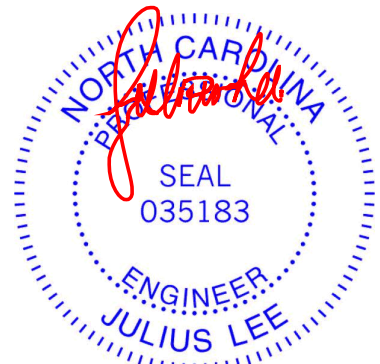
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-8-0.
 (lb) - Max Horz 2=62(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=266(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 7-6-4 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 8) N/A
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 30, 2021

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



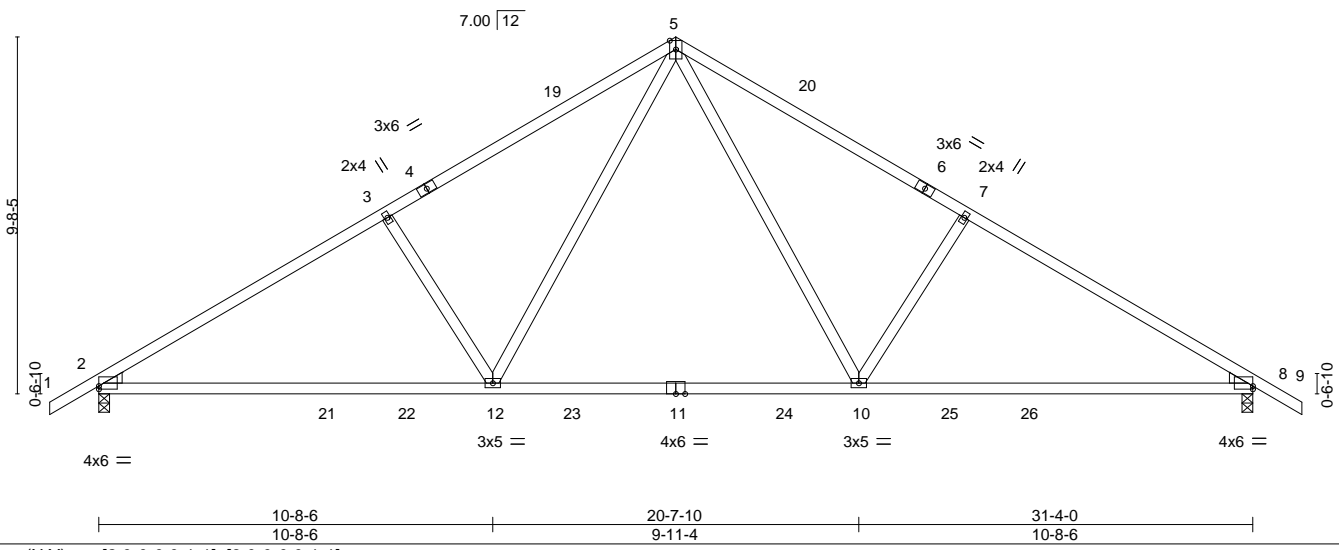
818 Soundside Road
 Edenton, NC 27932

Job 21110323-02	Truss T1	Truss Type Common	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110770
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:27 2021 Page 1
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Scale = 1:62.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.89	Vert(LL) -0.27 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.45 10-18 >828 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 154 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 7-10,3-12: 2x4 SP No.3
WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

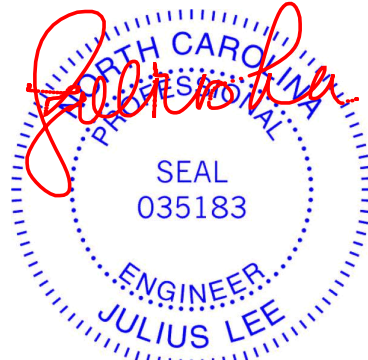
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-169(LC 10)
 Max Uplift 2=-42(LC 12), 8=-42(LC 12)
 Max Grav 2=1514(LC 17), 8=1514(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2179/84, 3-5=-1976/128, 5-7=-1976/128, 7-8=-2179/84
 BOT CHORD 2-12=0/1919, 10-12=0/1263, 8-10=0/1793
 WEBS 5-10=-3/912, 7-10=-446/148, 5-12=-3/912, 3-12=-446/148

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 32-8-0 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) 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, with BCDL = 10.0psf.
- 5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30,2021

Job 21110323-02	Truss T1A	Truss Type COMMON	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110771
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:29 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-L9m1Qhx29wtDzzP4X9MKmoxz2n9mCEQK_KIQYUyE4m0



4x6 ||

Scale = 1:61.8

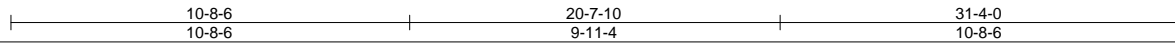
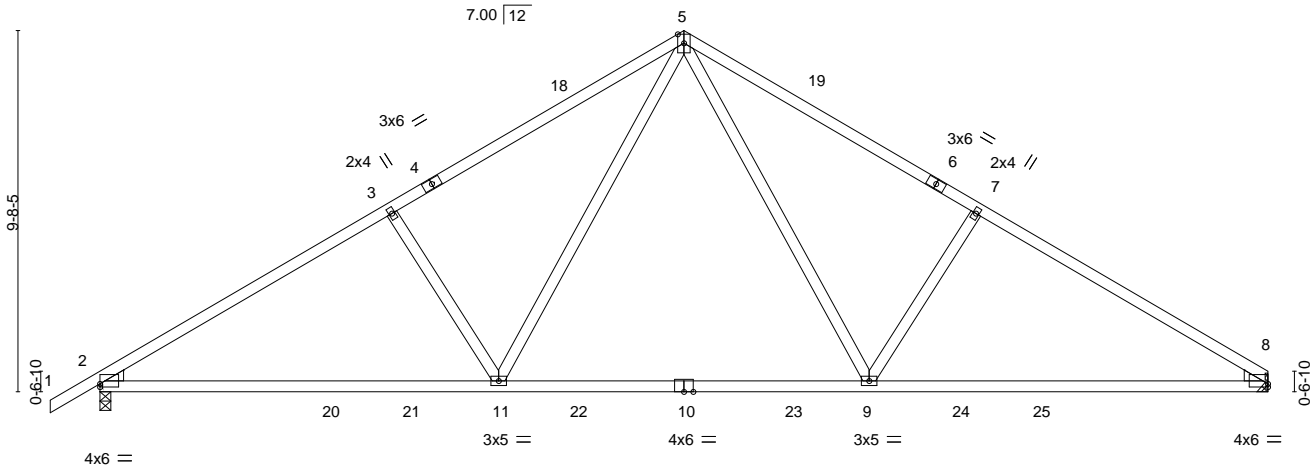


Plate Offsets (X, Y)--	[2:0-0-0,0-1-1], [8:0-0-0,0-1-1]
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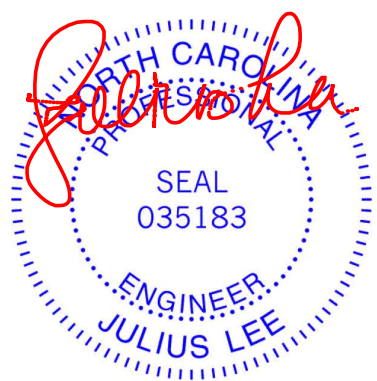
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.26 9-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.46 9-17 >816 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 7-9,3-11: 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3	


REACTIONS.	(size) 2=0-3-8, 8=Mechanical
	Max Horz 2=165(LC 11)
	Max Uplift 2=-43(LC 12), 8=-8(LC 12)
	Max Grav 2=1515(LC 17), 8=1441(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2181/84, 3-5=-1978/129, 5-7=-1984/133, 7-8=-2187/89
BOT CHORD	2-11=-4/1914, 9-11=0/1258, 8-9=-1/1804
WEBS	5-9=-5/920, 7-9=-452/149, 5-11=-2/911, 3-11=-446/148

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 31-4-0 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) 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
 - 7) 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.
 - 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

<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>818 Soundside Road Edenton, NC 27932</p>
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Job 21110323-02	Truss T1S	Truss Type COMMON	Qty 4	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110772
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:30 2021 Page 1
 ID:R1dAcVhN40z53bONtvm1Lzltw3-qMKPe1xgwE?4a7_G5ttZJ?T6IBTXxfStD_U_5xyE4m?

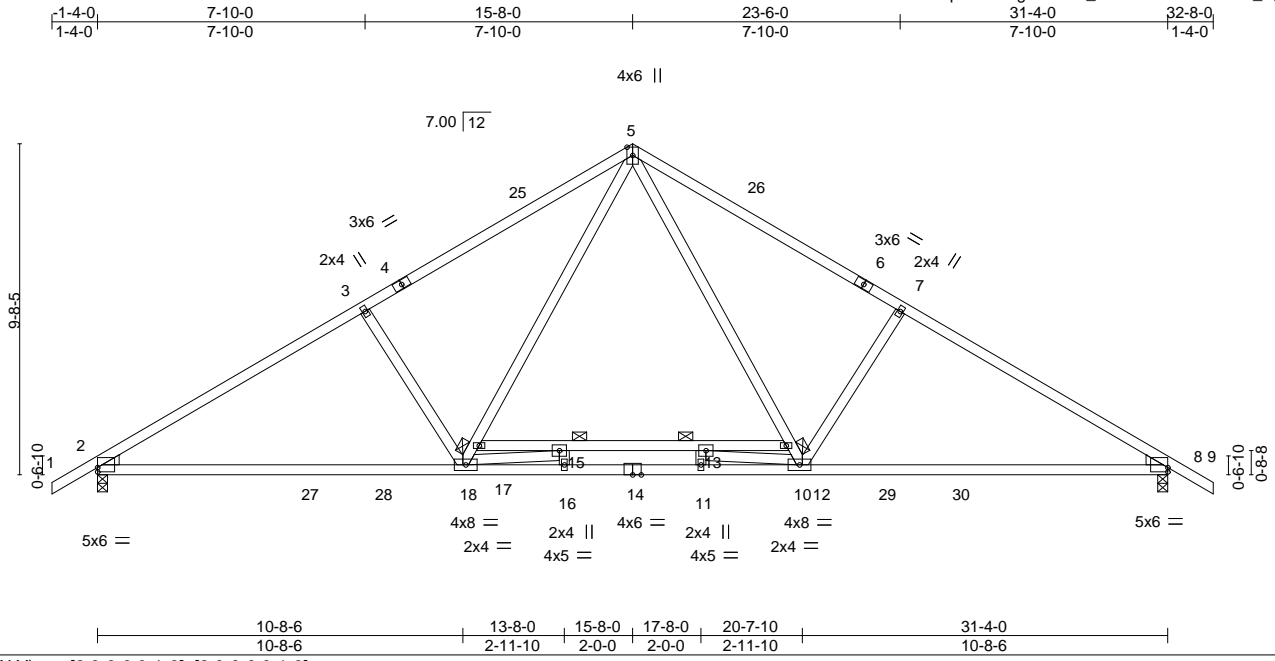


Plate Offsets (X, Y)--	[2:0-0-0,0-1-9], [8:0-0-0,0-1-9]
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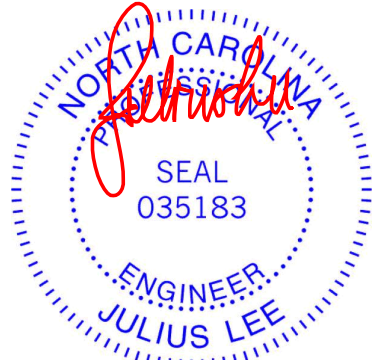
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.29 10-24 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.52 10-24 >728 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.10 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 176 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 12-17: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 4-6-0 oc bracing: 12-17
WEBS 2x4 SP No.3 *Except* 5-10,5-18: 2x4 SP No.2	
WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS.
(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-169(LC 10)
Max Grav 2=1809(LC 17), 8=1809(LC 18)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2728/0, 3-5=-2521/0, 5-7=-2521/0, 7-8=-2728/0
BOT CHORD 2-18=0/2389, 16-18=0/2803, 11-16=0/2803, 10-11=0/2803, 8-10=0/2263, 13-15=-1455/0
WEBS 5-12=0/1219, 10-12=0/1092, 7-10=-432/160, 17-18=0/1092, 5-17=0/1219, 3-18=-432/160, 15-18=-1340/0, 10-13=-1383/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 32-8-0 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
 - 350.0lb AC unit load placed on the bottom chord, 15-8-0 from left end, supported at two points, 4-0-0 apart.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

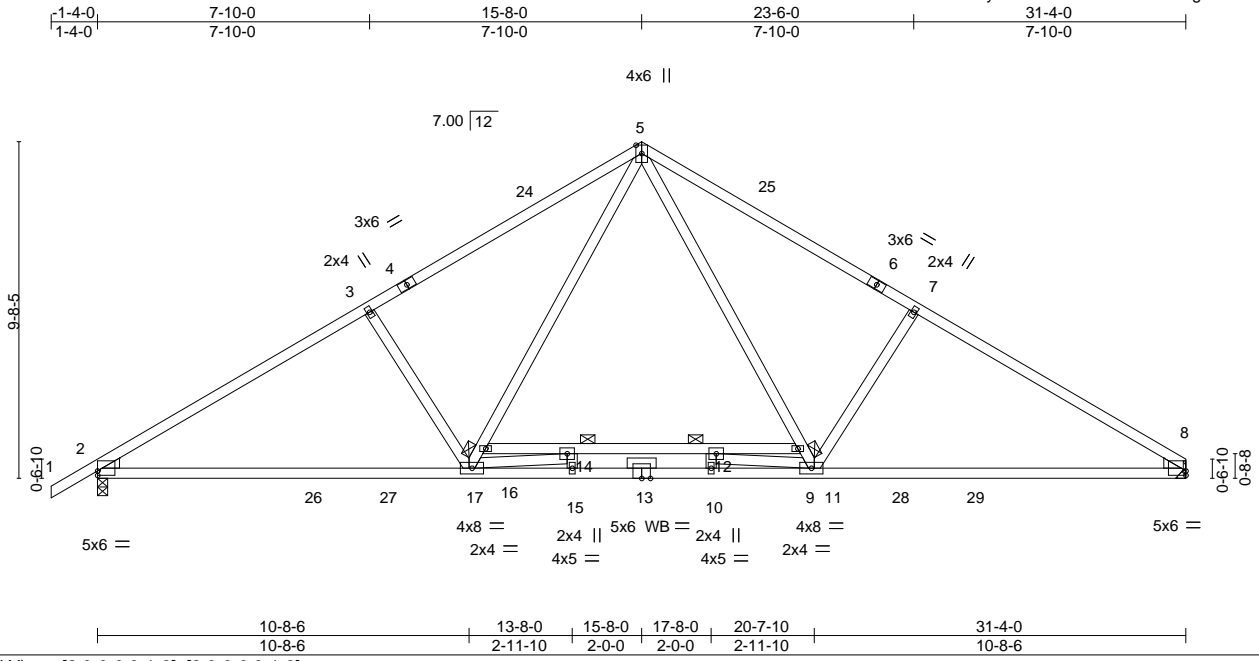
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 21110323-02	Truss T1SA	Truss Type COMMON	Qty 2	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110773
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:31 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-1YtnrNylhX7xCHZTfaPorD0H2bv0g611SeEXdNyE4m_



Scale = 1:66.3

Plate Offsets (X,Y)--	[2:0-0,0,0-1-9], [8:0-0,0,0-1-9]
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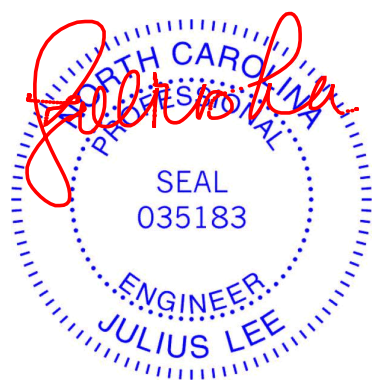
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.24 9-23 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.44 9-23 >862 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP 2400F 2.0E *Except* 11-16: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 4-7-0 oc bracing: 11-16
WEBS 2x4 SP No.3 *Except* 5-9,5-17: 2x4 SP No.2	
OTHERS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS.
(size) 2=0-3-8, 8=Mechanical
Max Horz 2=165(LC 11)
Max Grav 2=1810(LC 17), 8=1736(LC 18)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2731/0, 3-5=-2523/0, 5-7=-2529/0, 7-8=-2737/0
BOT CHORD 2-17=0/2384, 15-17=0/2802, 10-15=0/2802, 9-10=0/2802, 8-9=0/2274, 12-14=-1458/0
WEBS 5-11=0/1228, 9-11=0/1100, 7-9=-437/160, 16-17=0/1092, 5-16=0/1219, 3-17=-432/160, 14-17=-1335/0, 9-12=-1376/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 15-8-0, Exterior(2R) 15-8-0 to 18-8-0, Interior(1) 18-8-0 to 31-4-0 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) 350.0lb AC unit load placed on the bottom chord, 15-8-0 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) Refer to girder(s) for truss to truss connections.
 - 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

<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>818 Soundside Road Edenton, NC 27932</p>
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Job 21110323-02	Truss T2	Truss Type Common	Qty 4	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110774
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:32 2021 Page 1
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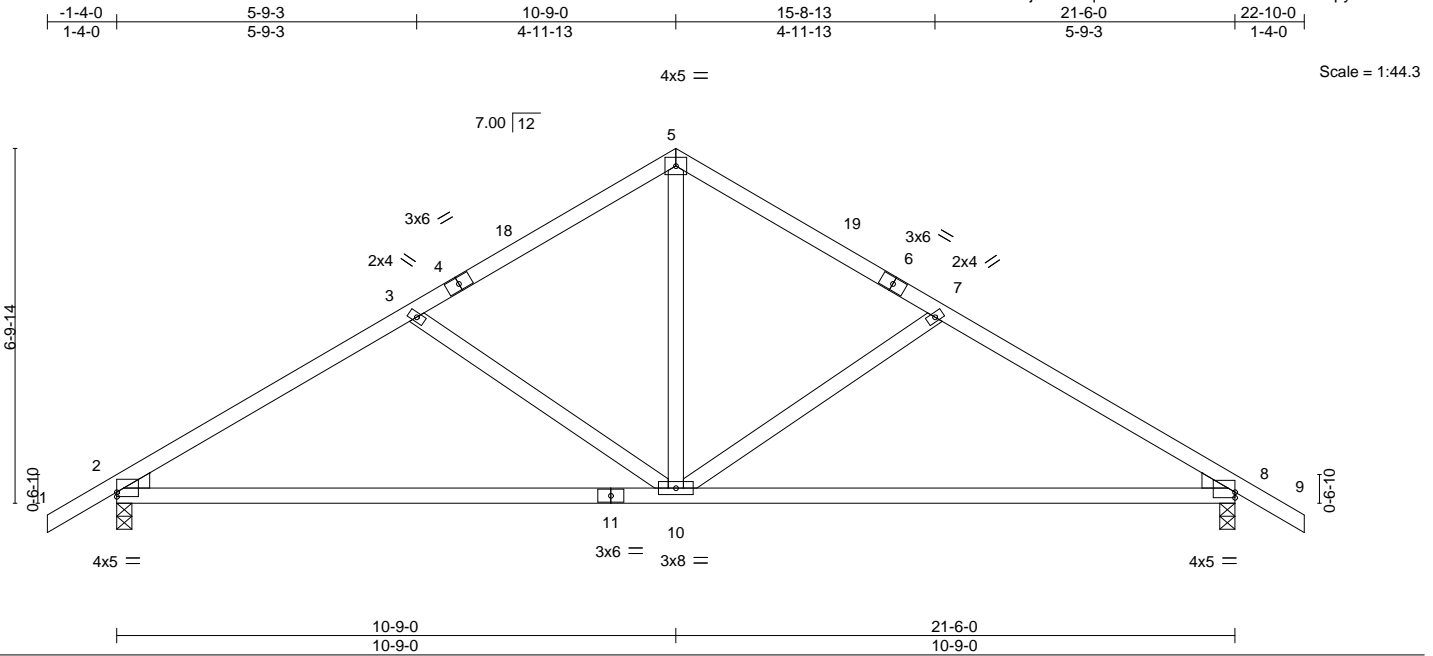


Plate Offsets (X, Y)--	[2:0-0-0,0-1-1], [8:0-0-0,0-1-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.20 10-14 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.40 10-14 >638 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 102 lb	FT = 20%

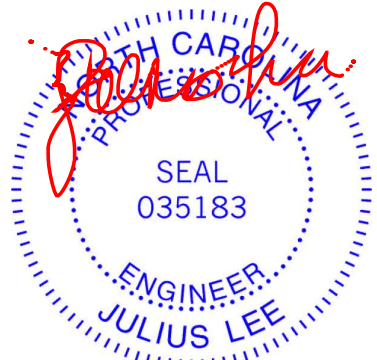
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-11: 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-120(LC 10)
Max Uplift 2=-40(LC 12), 8=-40(LC 12)
Max Grav 2=940(LC 1), 8=940(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1252/75, 3-5=-948/67, 5-7=-948/67, 7-8=-1252/75
BOT CHORD 2-10=0/1013, 8-10=0/1013
WEBS 5-10=0/626, 7-10=-340/103, 3-10=-341/103

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 10-9-0, Exterior(2R) 10-9-0 to 13-9-0, Interior(1) 13-9-0 to 22-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) 2 and 8. 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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 21110323-02	Truss T2G	Truss Type GABLE	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110775
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:34 2021 Page 1
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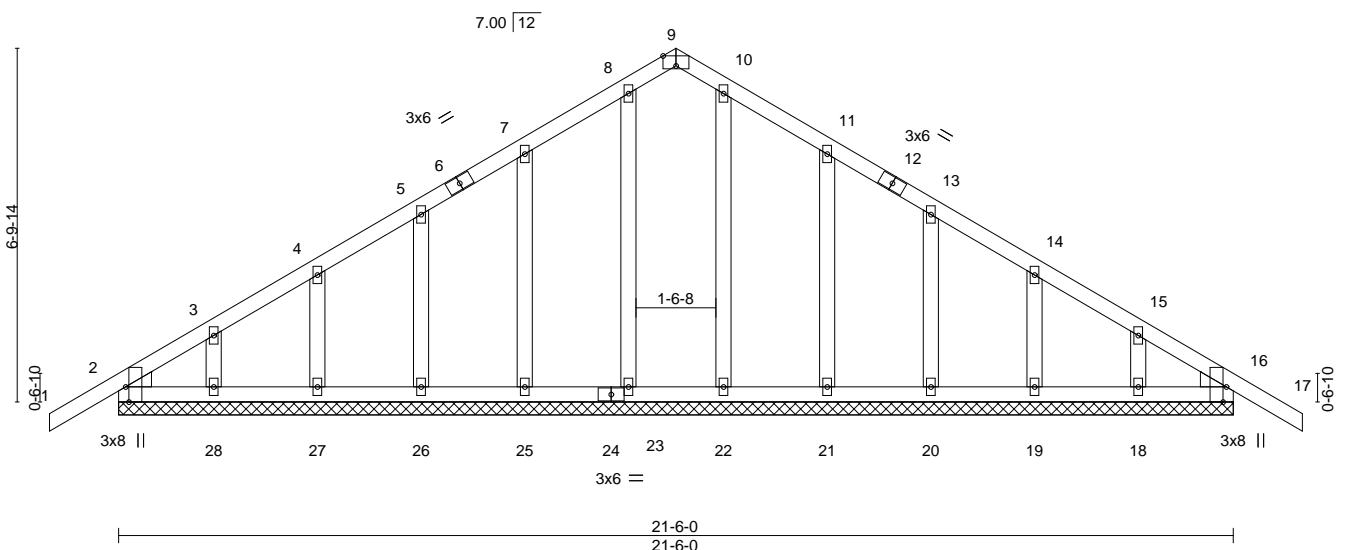


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [9:0-3-0,Edge], [16:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.01 17 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.01 17 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 16 n/a n/a		
	Code IRC2018/TPI2014			Weight: 126 lb	FT = 20%

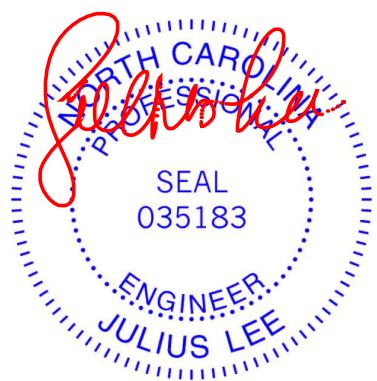
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. All bearings 21-6-0.
(lb) - Max Horz 2=-120(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 21, 20, 19, 18, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 23, 25, 26, 27, 28, 22, 21, 20, 19, 18, 16

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=120mph (3-second gust) Vasd=95mph; 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 1-10-0, Exterior(2N) 1-10-0 to 10-9-0, Corner(3R) 10-9-0 to 13-8-0, Exterior(2N) 13-8-0 to 22-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) N/A
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 30, 2021

Job 21110323-02	Truss T2GR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110776
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Carter Components (Lexington), Lexington, NC - 27295, 8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:36 2021 Page 1
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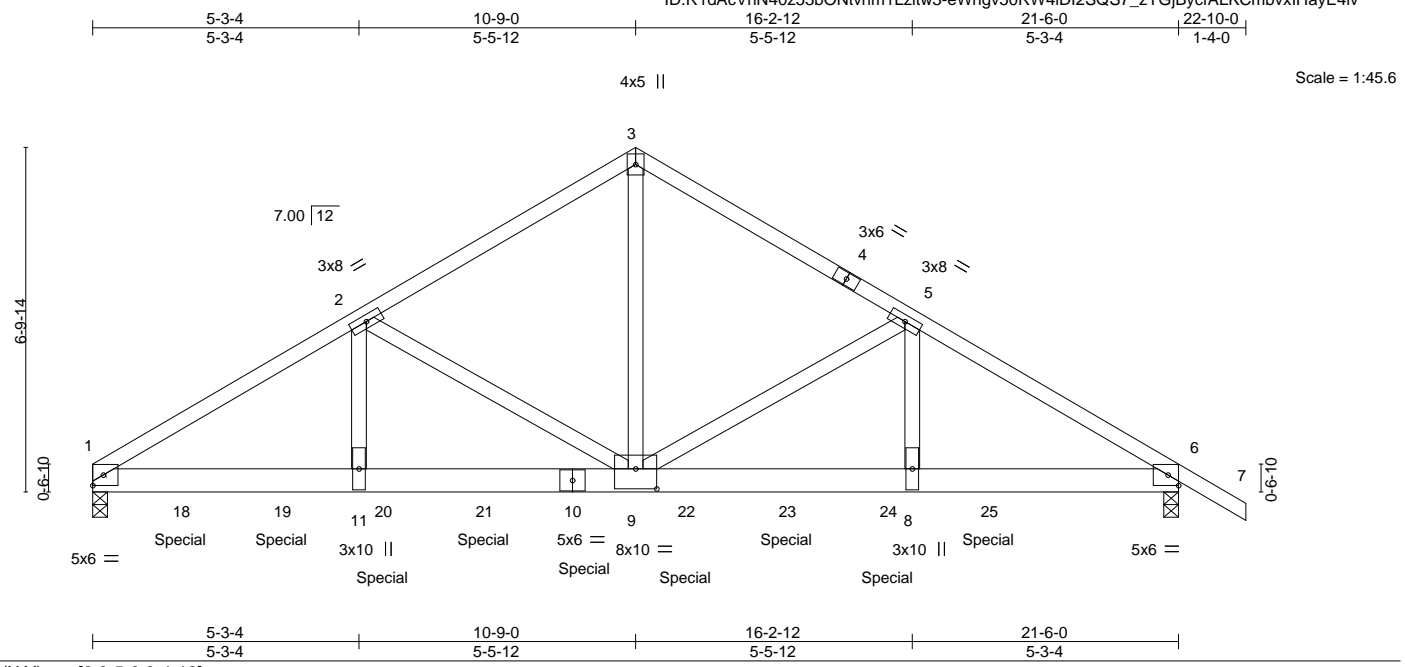


Plate Offsets (X, Y)--	[9:0-5-0,0-4-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.11	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.21	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.05	6	n/a		
BCDL 10.0	Code IRC2018/TP12014		Matrix-MS						
								Weight: 376 lb	FT = 20%

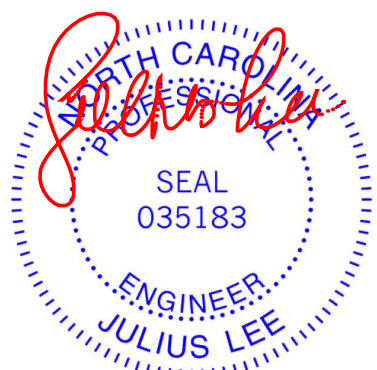
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 3-9: 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-8, 6=0-3-8
 Max Horz 1=-117(LC 25)
 Max Uplift 6=-19(LC 8)
 Max Grav 1=7709(LC 2), 6=6336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-11758/0, 2-3=-7699/0, 3-5=-7678/0, 5-6=-10878/0
 BOT CHORD 1-11=0/10120, 9-11=0/10120, 8-9=0/9318, 6-8=0/9318
 WEBS 3-9=0/7325, 5-9=-3194/135, 5-8=-24/2959, 2-9=-4297/0, 2-11=0/4072

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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
 - 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) 6. 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/TP1 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1681 lb down at 1-9-0, 1681 lb down at 3-9-0, 1386 lb down and 28 lb up at 5-9-0, 1342 lb down and 28 lb up at 7-9-0, 1334 lb down and 28 lb up at 9-9-0, 1232 lb down and 28 lb up at 11-9-0, 1232 lb down and 28 lb up at 13-9-0, and 1232 lb down and 28 lb up at 15-9-0, and 1610 lb down and 92 lb up at 17-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



LOAD CASE(S) Standard
 November 30, 2021

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/TP1 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 21110323-02	Truss T2GR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110776 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:36 2021 Page 2
ID:R1dAcVhN40z53bONtvm1Lzltw3-eWhgv50RW4IDI2SQS7_zYGjBycfALKCmbvxlHayE4lv

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 10=-1232(B) 18=-1500(B) 19=-1500(B) 20=-1232(B) 21=-1232(B) 22=-1232(B) 23=-1232(B) 24=-1232(B) 25=-1610(B)

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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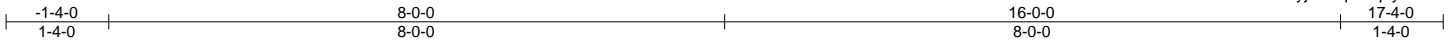
818 Soundside Road
Edenton, NC 27932

Job 21110323-02	Truss T4	Truss Type COMMON	Qty 3	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110777
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:37 2021 Page 1

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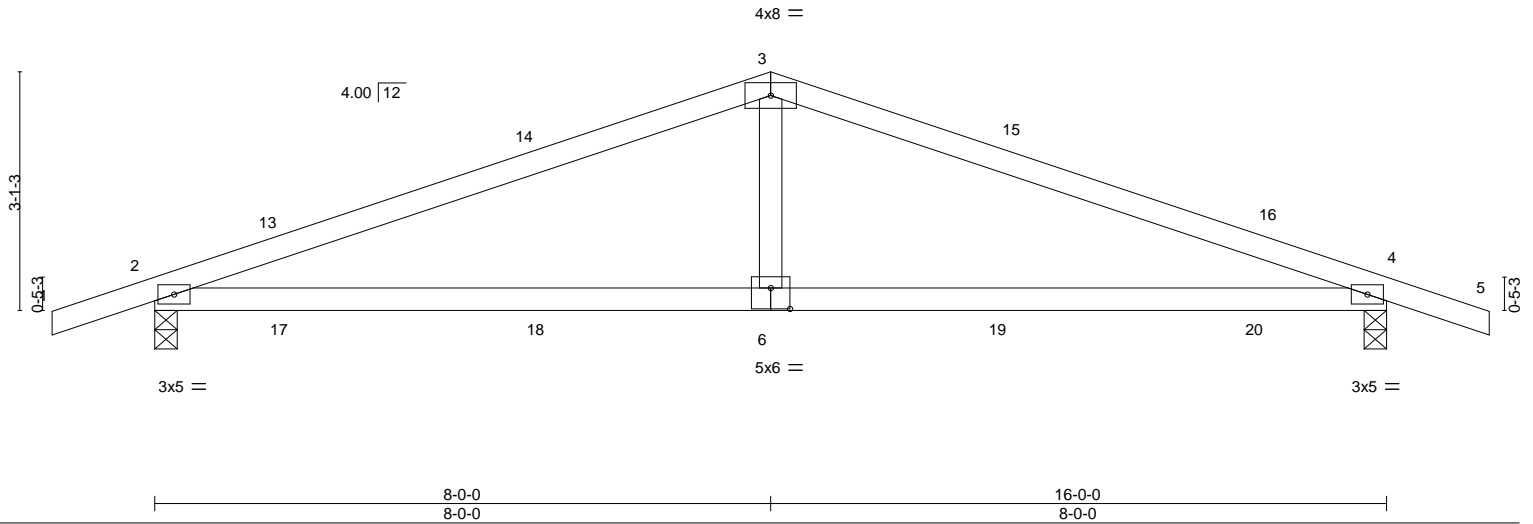


Plate Offsets (X,Y)--	[6:0-3-0,0-3-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) 0.18 6-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.20 6-12 >973 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 57 lb	FT = 20%

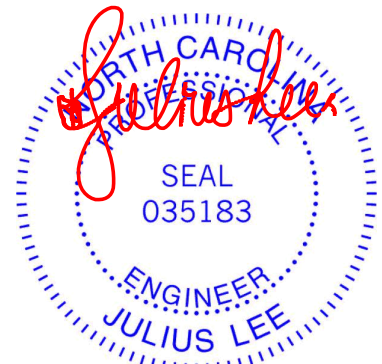
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=-28(LC 10)
 Max Uplift 2=-174(LC 12), 4=-174(LC 12)
 Max Grav 2=720(LC 1), 4=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1167/940, 3-4=-1167/940
 BOT CHORD 2-6=-814/1045, 4-6=-814/1045
 WEBS 3-6=-368/349

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 30, 2021

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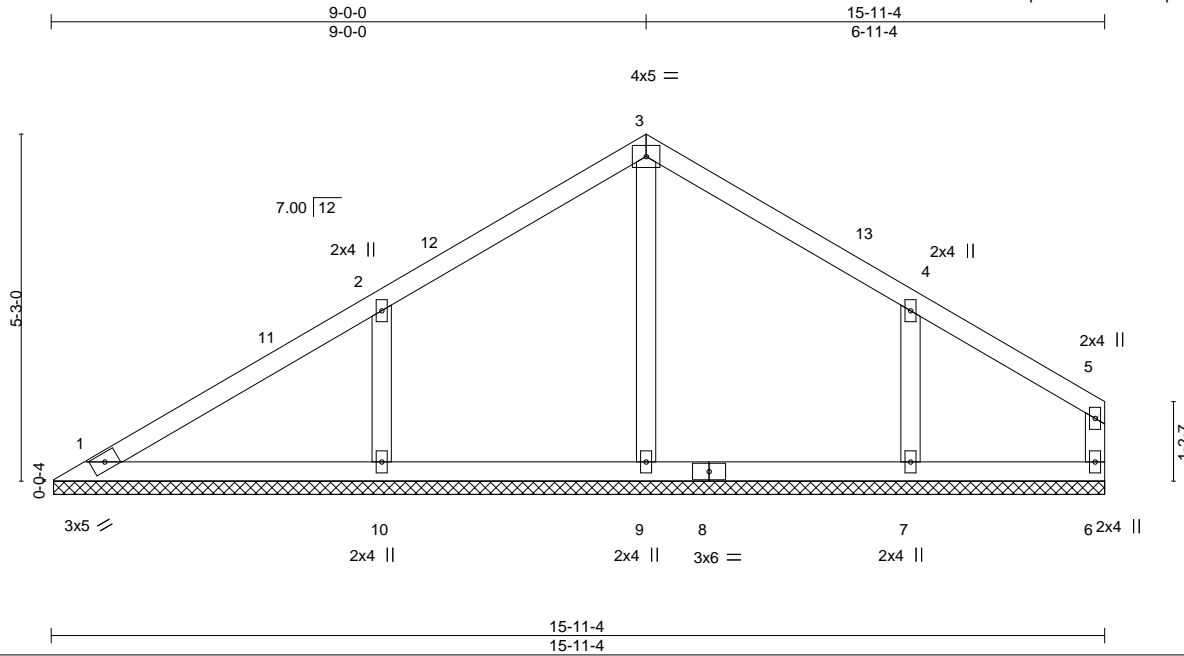


Job 21110323-02	Truss V2	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110778
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:38 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-buoRJm2h2h?xYMbpZY1RdhobQPPVpMd3DQPMTyE4t



Scale = 1:34.9

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 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 65 lb	FT = 20%

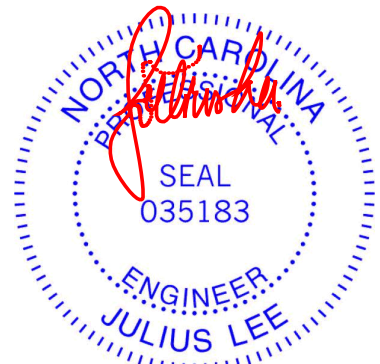
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-10-13.
 (lb) - Max Horz 1=96(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 10, 7
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 9=265(LC 1), 10=406(LC 23), 7=319(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-10=302/119

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 15-9-8 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
 - 3) Gable requires continuous bottom chord bearing.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 7) N/A
 - 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.



November 30, 2021

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 21110323-02	Truss V2B	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110780
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Carter Components (Lexington), Lexington, NC - 27295,

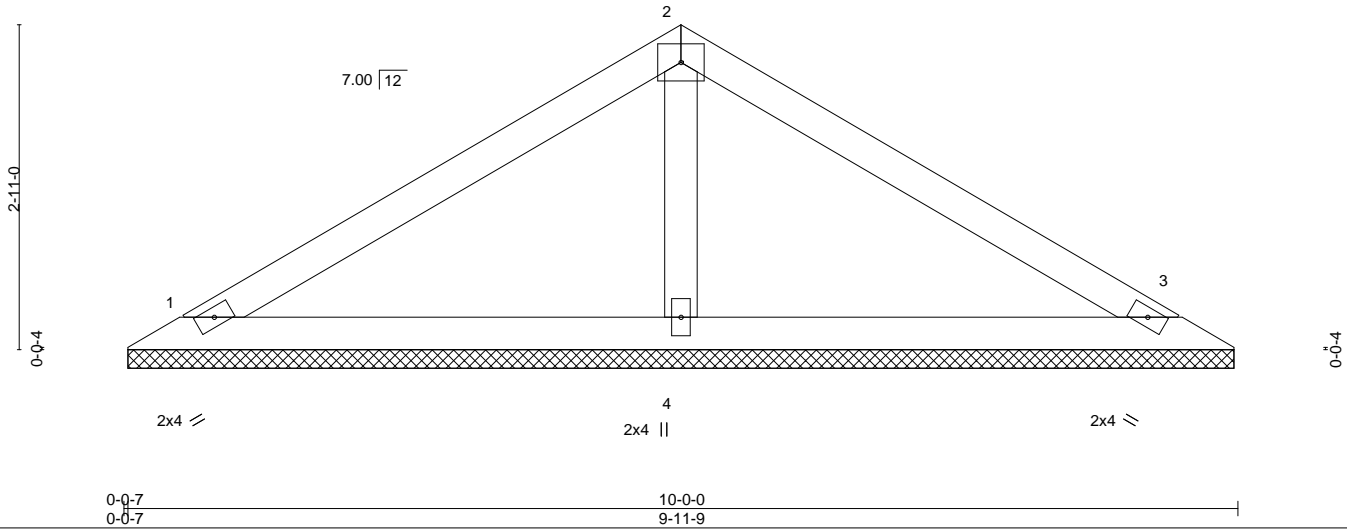
8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:39 2021 Page 1

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4x5 =

Scale = 1:20.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 34 lb	FT = 20%
	Code IRC2018/TPI2014							

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

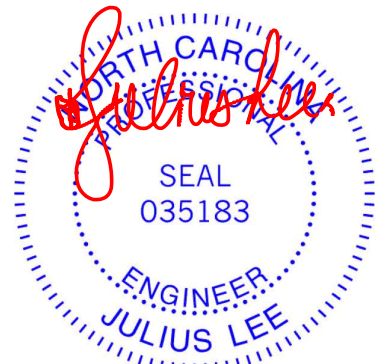
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-11-2, 3=9-11-2, 4=9-11-2
 Max Horz 1=44(LC 10)
 Max Uplift 1=-11(LC 12), 3=-11(LC 12)
 Max Grav 1=169(LC 1), 3=169(LC 1), 4=376(LC 1)

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=120mph (3-second gust) Vasd=95mph; 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 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 9-5-8 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
- 3) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



November 30, 2021

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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



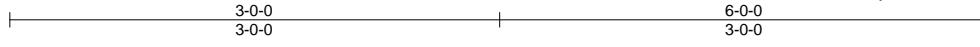
818 Soundside Road
 Edenton, NC 27932

Job 21110323-02	Truss V2C	Truss Type Valley	Qty 1	Ply 1	Cameron Woods Lot 13- 3130 elev A PERMIT-roof truss T26110781
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Carter Components (Lexington), Lexington, NC - 27295,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Nov 30 05:52:40 2021 Page 1

ID:R1dAcVhN40z53bONtvm1Lzltw3-XHwBkS3yalFfnfBhz3vi6u_UD3bHHZLWXvVQMMyE4lr



3x6 =

Scale = 1:14.1

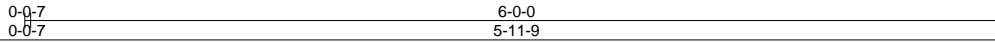
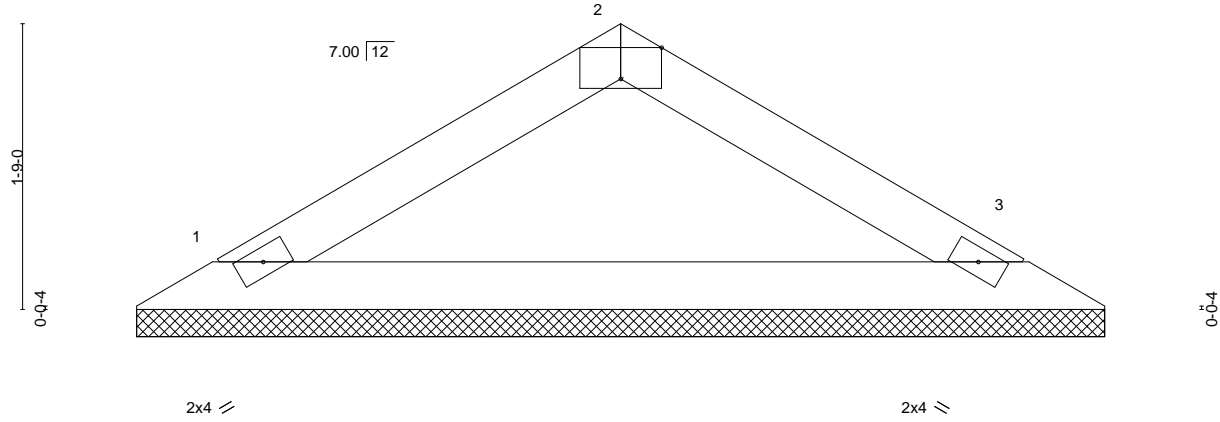


Plate Offsets (X,Y)--	[2:0-3-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

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

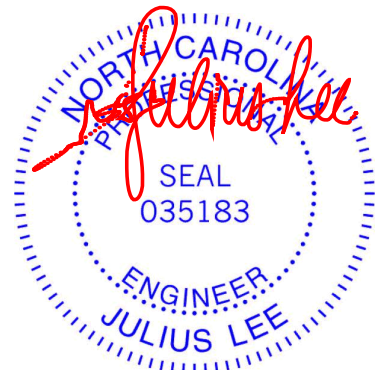
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-11-2, 3=5-11-2
Max Horz 1=24(LC 10)
Max Uplift 1=-1(LC 12), 3=-1(LC 12)
Max Grav 1=197(LC 1), 3=197(LC 1)

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=120mph (3-second gust) Vasd=95mph; 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
- 3) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



November 30, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

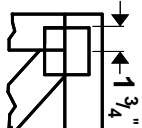
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



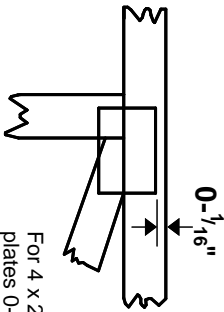
818 Soundside Road
Edenton, NC 27932

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

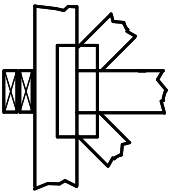
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



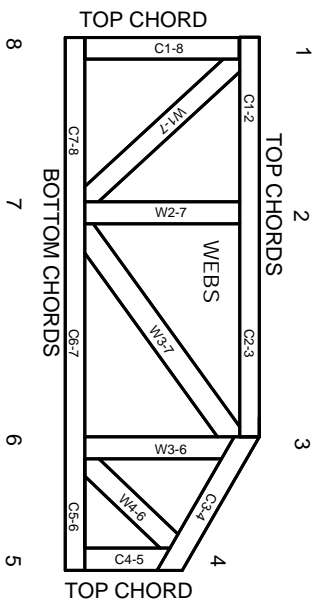
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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: Mill-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.