

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 22020378-01
Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-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: T31092866 thru T31092881

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



July 20, 2023

Lee, Julius

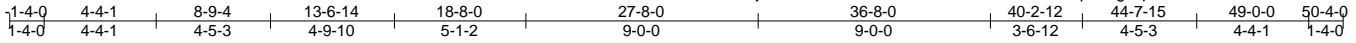
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss	Units: 1.0 Eng: D.R	T31092866
22020378-01	H1D	HIP	1	1	Job Reference (optional)		

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

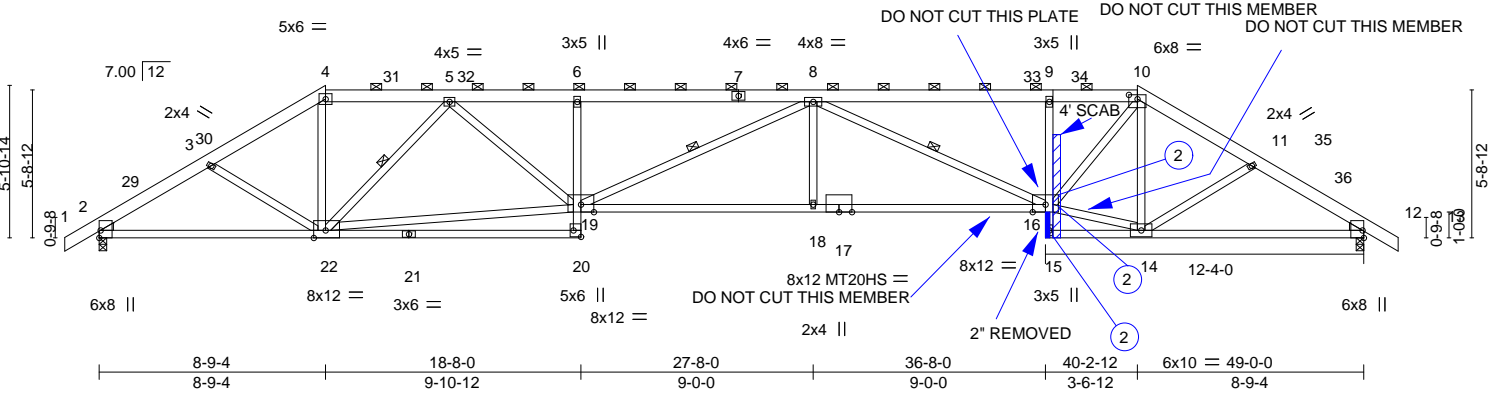
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:21 2023 Page 1

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Scale = 1:89.3

LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.



REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED.



APPLY 2 X 4 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FACE.

Plate Offsets (X,Y)-- [2:Edge,0-0-10], [10:0-4-0,0-2-0], [12:Edge,0-0-10], [20:Edge,0-3-8], [22:0-5-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.48	18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -1.04	18-19	>568	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.34	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS						
							Weight: 329 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 17-19: 2x4 SP 2400F 2.0E, 16-17: 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 14-16,19-22: 2x4 SP No.2

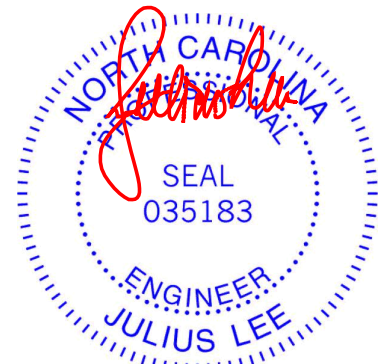
WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-99(LC 10)
 Max Uplift 2=-48(LC 12), 12=-48(LC 12)
 Max Grav 2=2040(LC 1), 12=2040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3118/59, 3-4=-3061/54, 4-5=-2649/68, 5-6=-5160/84, 6-8=-5240/81, 8-9=-4188/72,
 9-10=-4137/75, 10-11=-3044/61, 11-12=-3124/63
 BOT CHORD 2-22=0/2542, 20-22=0/417, 6-19=-452/93, 18-19=0/5531, 16-18=0/5531, 9-16=-464/86,
 12-14=0/2555
 WEBS 3-22=0/267, 4-22=0/1115, 8-19=-392/0, 8-18=0/411, 8-16=-1555/8, 14-16=0/2637,
 10-16=0/2401, 10-14=-645/17, 5-22=-1868/49, 19-22=0/3486, 5-19=0/1711

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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-9-4, Exterior(2R) 8-9-4 to 13-0-3, Interior(1) 13-0-3 to 40-2-12, Exterior(2R) 40-2-12 to 44-5-11, Interior(1) 44-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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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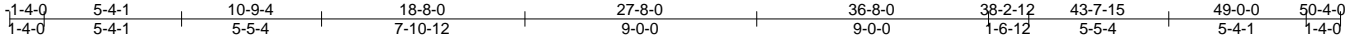
Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
22020378-01	H1C	HIP	1	1	T31092867

Job Reference (optional)

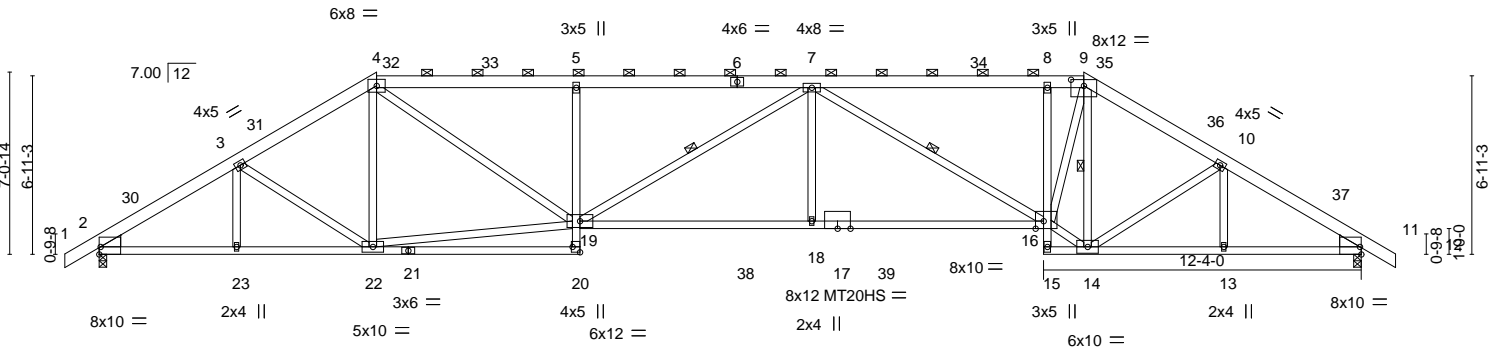
Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:19 2023 Page 1

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Scale = 1:89.5



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT15-16

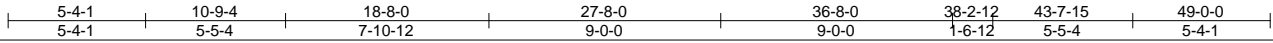


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [9:0-6-0,0-2-14], [11:Edge,0-3-8], [16:0-3-12,Edge], [20:Edge,0-3-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.47	18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.89	18-19	>664	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.32	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS						
							Weight: 345 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 5-20,8-15: 2x4 SP No.3, 17-19: 2x4 SP 2400F 2.0E
 20-21: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 19-22,7-19,7-16,14-16,9-16: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2 , Right: 2x6 SP No.2

REACTIONS.

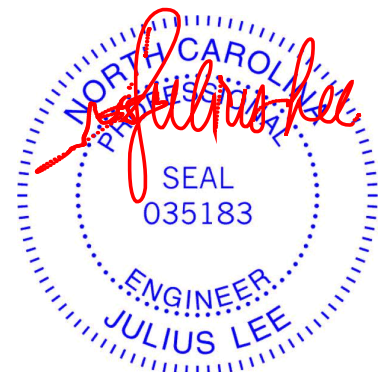
(size) 2=0-3-8, 11=0-3-8
 Max Horz 2=-119(LC 10)
 Max Uplift 2=-48(LC 12), 11=-48(LC 12)
 Max Grav 2=2246(LC 17), 11=2257(LC 18)

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

TOP CHORD 2-3=-3480/48, 3-4=-3267/79, 4-5=-4514/96, 5-7=-4550/92, 7-8=-3638/84, 8-9=-3594/87,
 9-10=-3281/85, 10-11=-3505/45
 BOT CHORD 2-23=0/2959, 22-23=0/2959, 5-19=-534/109, 18-19=0/4864, 16-18=0/4864, 8-16=-389/99,
 13-14=0/2891, 11-13=0/2891
 WEBS 19-22=0/2674, 4-19=-3/2113, 7-19=-415/0, 7-18=0/514, 7-16=-1486/4, 14-16=0/3308,
 9-16=0/2983, 9-14=-1533/0

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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-9-4, Exterior(2R) 10-9-4 to 15-0-3, Interior(1) 15-0-3 to 38-2-12, Exterior(2R) 38-2-12 to 42-5-11, Interior(1) 42-5-11 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.Opsf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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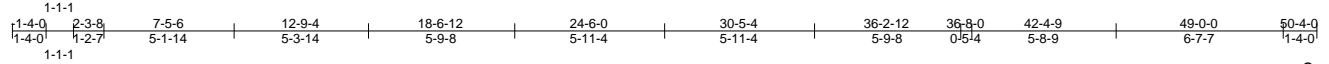
818 Soundside Road
 Edenton, NC 27932

Job 22020378-01	Truss H1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092868
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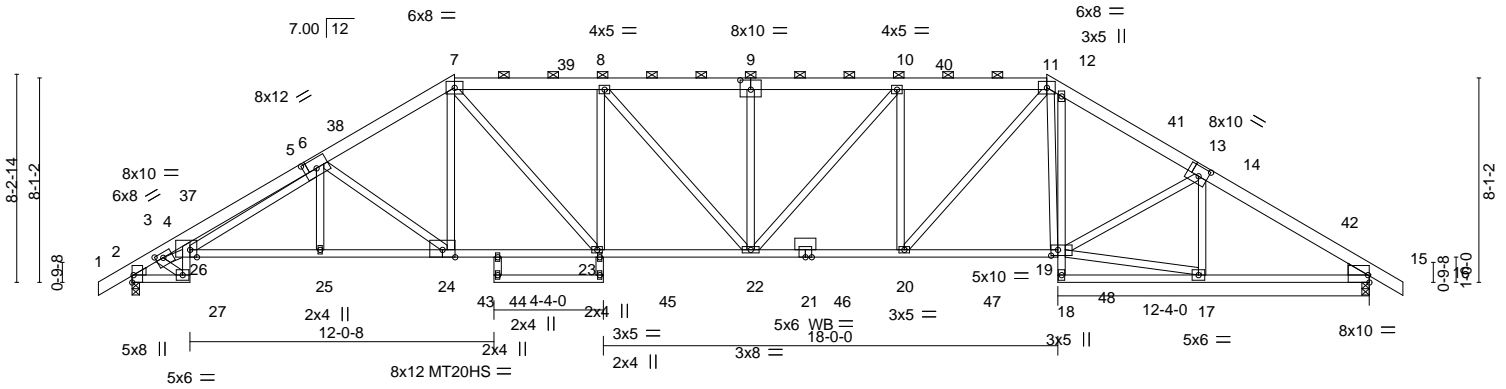
Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:17 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:91.3



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT18-19

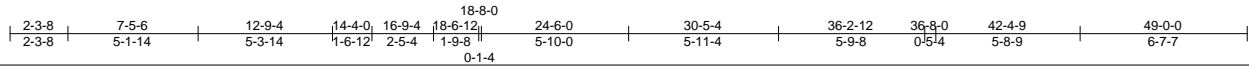


Plate Offsets (X,Y)-- [2:Edge,0-0-10], [3:0-3-8,0-2-4], [4:0-3-4,Edge], [5:0-6-0,0-4-8], [9:0-5-0,0-4-8], [13:0-4-4,0-4-8], [15:Edge,0-3-8], [19:0-3-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(LL) -0.35 22-23 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Vert(CT) -0.63 22-23 >930 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.40 15 n/a n/a		
				Weight: 377 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
13-16,1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1 *Except*
2-27: 2x4 SP No.2, 28-29,29-30,23-30,12-18: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
17-19,3-26: 2x4 SP No.2
OTHERS 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-6-8 max.): 7-11.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

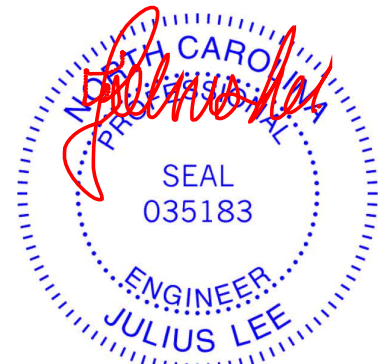
(size) 2=0-3-8, 15=0-3-8
Max Horz 2=-139(LC 10)
Max Uplift 2=-48(LC 12), 15=-48(LC 12)
Max Grav 2=2287(LC 17), 15=2287(LC 18)

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

TOP CHORD 2-3=-2718/13, 3-4=-5702/5, 4-6=-6095/39, 6-7=-3743/84, 7-8=-3833/99, 8-9=-4032/100,
9-10=-4032/100, 10-11=-3818/99, 11-12=-3496/104, 12-14=-3673/82, 14-15=-3574/51
BOT CHORD 2-27=0/1925, 26-27=0/1435, 4-26=0/577, 15-17=0/2951, 25-26=0/3973, 24-25=0/3976,
23-24=0/3184, 22-23=0/3885, 20-22=0/3835, 19-20=0/3085
WEBS 3-27=-1869/0, 6-24=-925/54, 17-19=0/2851, 14-19=0/326, 14-17=-378/64, 3-26=0/4105,
6-26=0/1750, 7-24=0/769, 9-22=-358/73, 8-23=-686/78, 10-20=-671/80, 7-23=-4/1178,
8-22=-3/403, 10-22=-3/402, 11-20=-2/1174, 11-19=-22/513

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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-9-4, Exterior(2R) 12-9-4 to 17-0-3, Interior(1) 17-0-3 to 36-2-12, Exterior(2R) 36-2-12 to 40-5-11, Interior(1) 40-5-11 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Continued on page 2

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



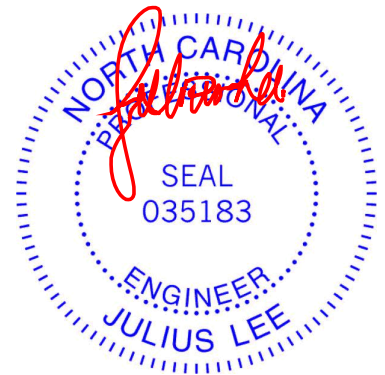
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
22020378-01	H1B	PIGGYBACK BASE	1	1	T31092868

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

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:17 2023 Page 2
 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

- NOTES-**
- 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.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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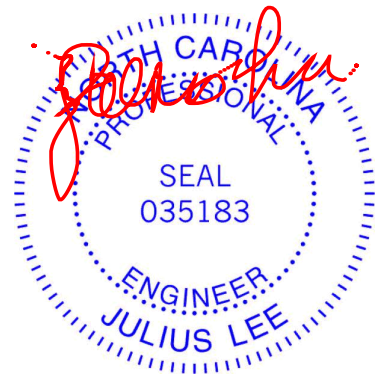
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
22020378-01	H1A	PIGGYBACK BASE	1	1	T31092869

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

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:15 2023 Page 2
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- NOTES-**
- 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.



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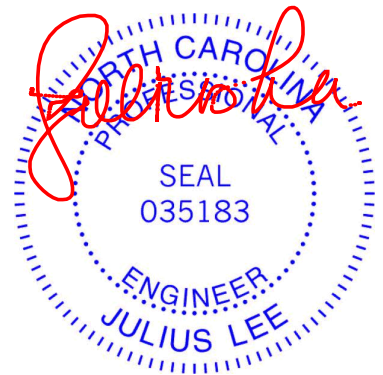
Job 22020378-01	Truss H1	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092870
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Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:13 2023 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

NOTES-

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2023

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
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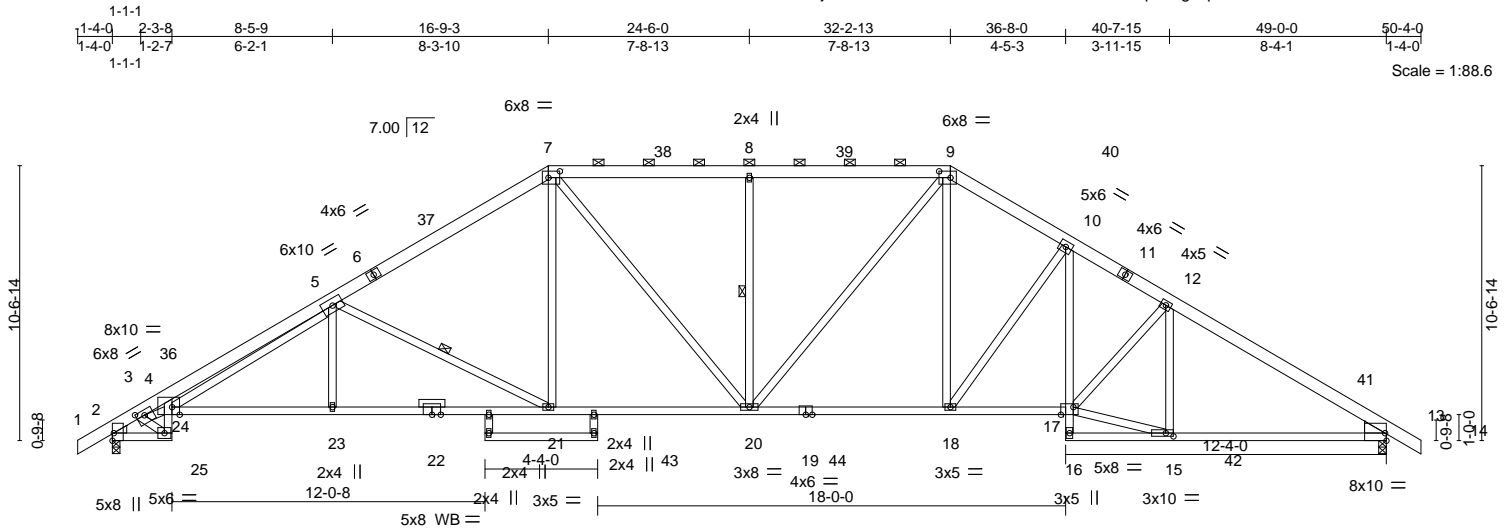
Job 22020378-01	Truss T1D	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092871
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Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:41 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzjt7J5-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:88.6



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT16-17

2-3-8	8-5-9	14-4-0	16-9-3	18-8-0	24-6-0	32-2-13	36-8-0	40-7-15	49-0-0
2-3-8	6-2-1	5-10-7	2-5-3	1-10-13	5-10-0	7-8-13	4-5-3	3-11-15	8-4-1

Plate Offsets (X,Y)-- [2:Edge,0-0-10], [3:0-3-12,0-2-4], [4:0-3-8,Edge], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [13:Edge,0-3-8], [15:0-3-8,0-1-8], [17:0-5-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.32	20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.56	21-23	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.39	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS						
							Weight: 372 lb	FT = 20%

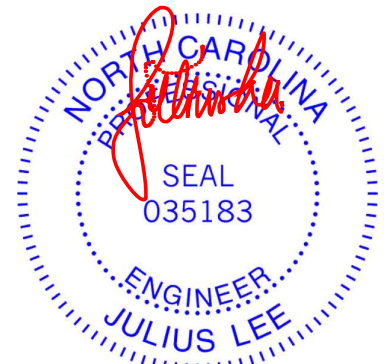
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-6,11-14: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1 *Except*
2-25: 2x4 SP No.2, 26-27,27-28,28-29,10-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
7-20,9-20,15-17,3-24: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-0-11 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-21, 8-20

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-180(LC 10)
Max Uplift 2=-48(LC 12), 13=-48(LC 12)
Max Grav 2=2288(LC 17), 13=2312(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2719/13, 3-4=-5707/3, 4-5=-6094/40, 5-7=-3255/103, 7-8=-2989/126,
8-9=-2989/126, 9-10=-3169/116, 10-12=-3677/96, 12-13=-3565/59
BOT CHORD 2-25=0/1957, 24-25=0/1466, 4-24=0/586, 10-17=-6/683, 13-15=0/2941, 23-24=0/3899,
21-23=0/3902, 20-21=0/2795, 18-20=0/2713, 17-18=0/3110
WEBS 3-25=-1913/0, 5-23=0/345, 5-21=-1256/84, 8-20=-511/100, 7-20=-16/595, 9-20=-14/583,
9-18=0/940, 10-18=-806/60, 15-17=0/2894, 12-17=0/342, 12-15=-569/59, 3-24=0/4123,
5-24=0/1844, 7-21=0/894

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum concrete be applied directly to the bottom chord.



July 20, 2023

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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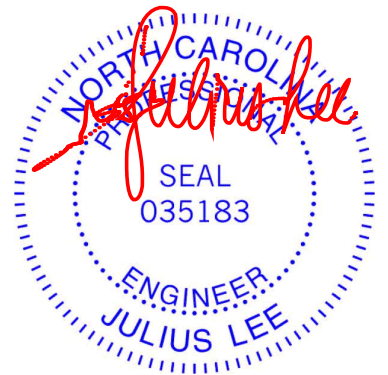
Job 22020378-01	Truss T1D	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092871
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Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:42 2023 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

NOTES-

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2023

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

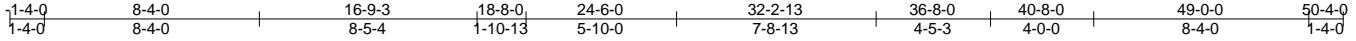


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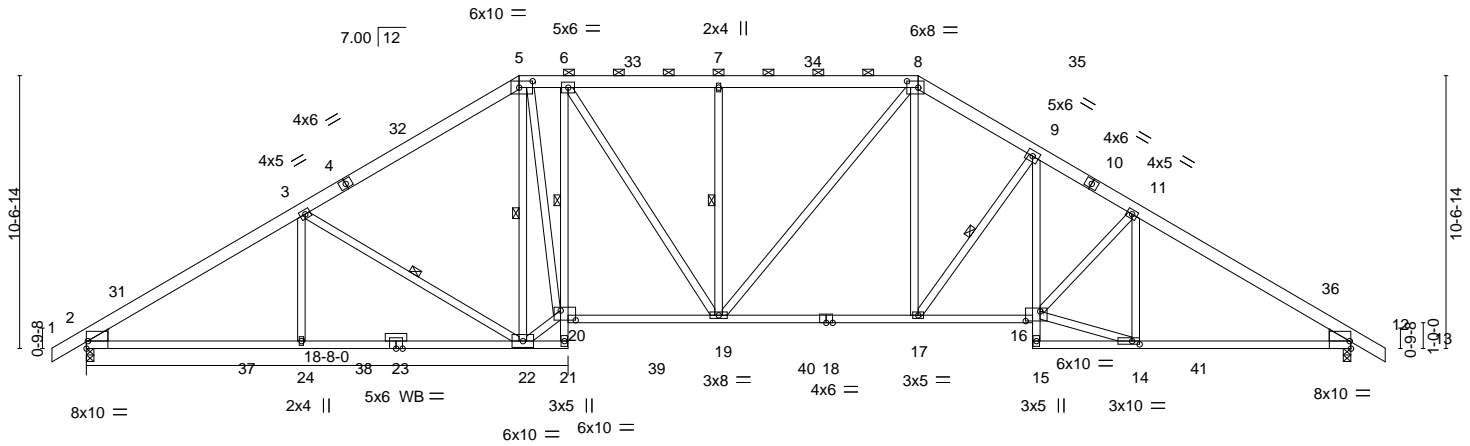
Job 22020378-01	Truss T1C	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092872
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Carter Components (Lexington), Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:40 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:89.3



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 15-16

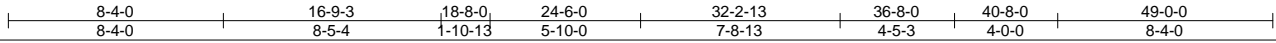


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-4,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [16:0-6-12,0-4-8], [20:0-7-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.31	17-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.55	17-19	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.27	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 381 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 6-21,9-15: 2x4 SP No.3, 18-20: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 20-22,6-19,8-19,14-16: 2x4 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-8 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied. Except:
 1 Row at midpt 6-20
 WEBS 1 Row at midpt 3-22, 5-22, 7-19, 9-17

REACTIONS.

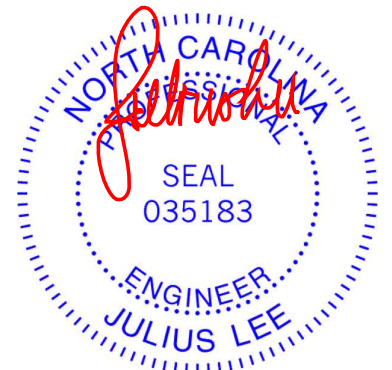
(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=180(LC 11)
 Max Uplift 2=48(LC 12), 12=48(LC 12)
 Max Grav 2=2334(LC 17), 12=2319(LC 18)

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

TOP CHORD 2-3=-3646/61, 3-5=-2955/120, 5-6=-2797/125, 6-7=-3005/126, 7-8=-3005/126, 8-9=-3176/115, 9-11=-3793/93, 11-12=-3579/60
 BOT CHORD 2-24=0/3153, 22-24=0/3153, 6-20=-457/49, 19-20=0/2878, 17-19=0/2728, 16-17=0/3201, 9-16=-1/838, 12-14=0/2954
 WEBS 3-24=0/391, 3-22=-706/89, 5-22=-829/0, 20-22=0/2932, 5-20=0/1750, 6-19=-8/514, 7-19=-483/94, 8-19=-13/584, 8-17=0/941, 9-17=-932/55, 14-16=0/2960, 11-16=0/440, 11-14=-679/56

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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.Opsf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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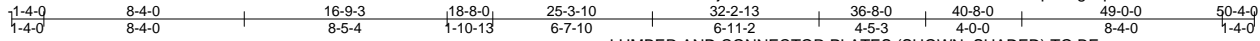
818 Soundside Road
Edenton, NC 27932

Job 22020378-01	Truss T1A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss Units: 1.0 Eng: D.R	T31092873
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Carter Components (Lexington), Lexington, NC - 27295,

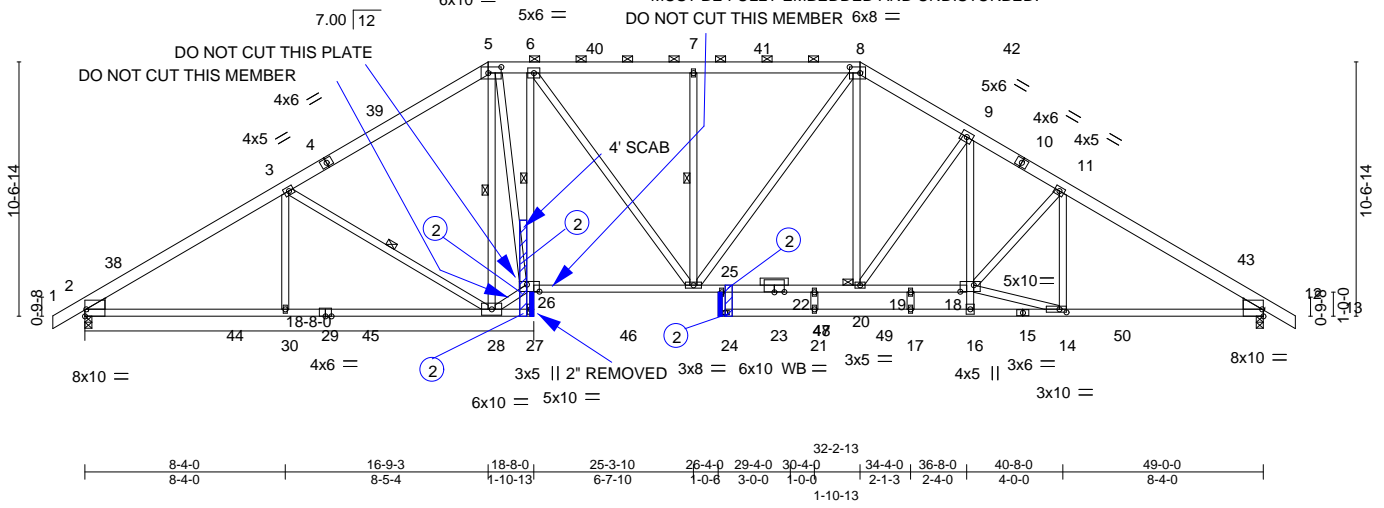
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:36 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f



LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.
DO NOT CUT THIS MEMBER 6x8 =

Scale: 1/8"=1'



REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED.



APPLY 2 X 4 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FACE.

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.63	24	>938	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-1.15	24	>513		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.25	12	n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS					Weight: 400 lb	FT = 20%

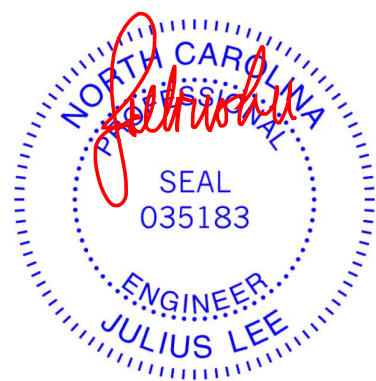
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E *Except*
6-27,9-16: 2x4 SP No.3, 27-29: 2x4 SP No.1, 15-24: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
26-28,6-25,8-25,14-18: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-9-12 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-26
10-0-0 oc bracing: 22-25
WEBS 1 Row at midpt 3-28, 5-28, 7-25
JOINTS 1 Brace at Jt(s): 20

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 2=-29(LC 12), 12=-22(LC 12)
Max Grav 2=2442(LC 17), 12=2495(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3843/26, 3-5=-3161/84, 5-6=-3018/90, 6-7=-3300/72, 7-8=-3300/72, 8-9=-3566/53,
9-11=-4046/44, 11-12=-3898/0
BOT CHORD 2-30=0/3321, 28-30=0/3321, 6-26=-525/40, 25-26=0/3100, 22-25=0/3055, 20-22=0/3055,
19-20=0/3429, 18-19=0/3429, 9-18=-24/635, 14-16=0/316, 12-14=0/3226
WEBS 3-30=0/386, 3-28=-695/91, 5-28=-932/0, 26-28=0/3120, 5-26=0/1982, 6-25=0/610,
7-25=-466/91, 8-25=-12/595, 14-18=0/3013, 11-18=0/400, 11-14=-581/52, 8-20=0/1165,
9-20=-774/77, 21-22=0/361

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



July 20,2023

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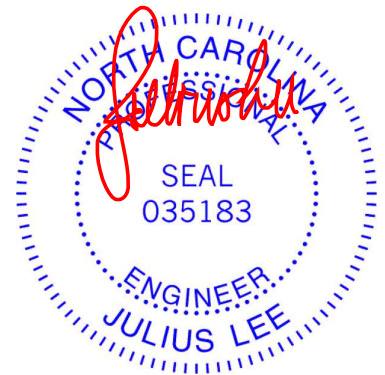
Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
22020378-01	T1A	PIGGYBACK BASE	1	1	T31092873

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

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:36 2023 Page 2
 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2023

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

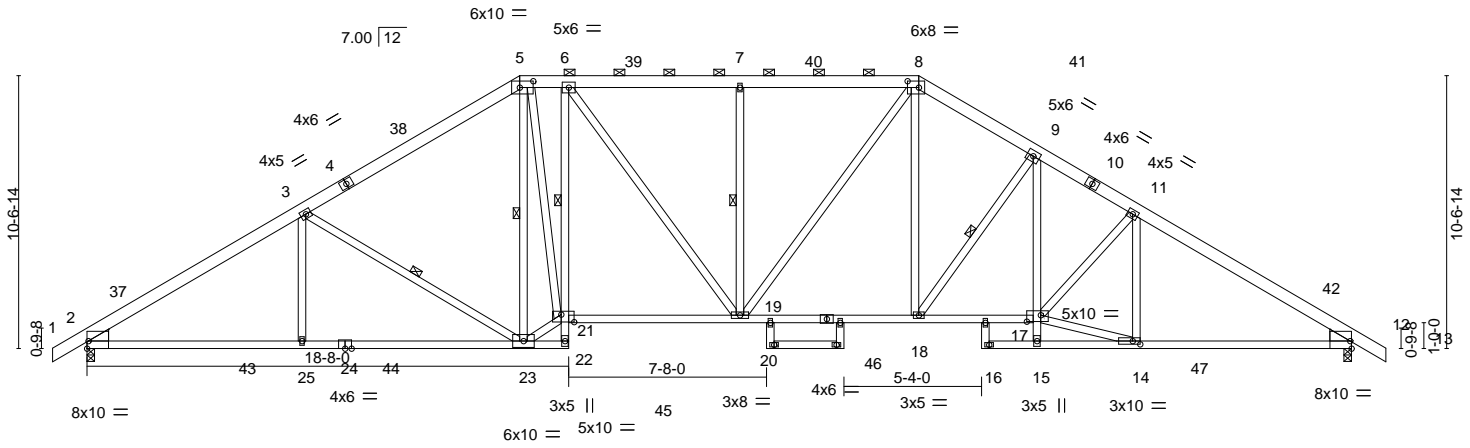
Job 22020378-01	Truss T1	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092874
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Carter Components (Lexington), Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:34 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:89.3



SEE DWG T31092873 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 19-20 AND JNT 21-22.

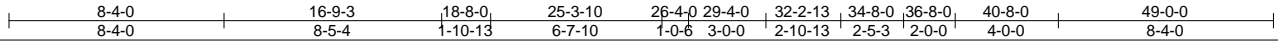


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-6-4,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [17:0-6-8,0-3-0], [21:0-6-0,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.30	20-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.54	20-21	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.27	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 391 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 6-22,9-15,26-28: 2x4 SP No.3, 17-19: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 21-23,6-20,8-20,14-17: 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-11-15 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied. Except:
 1 Row at midpt 6-21
 10-0-0 oc bracing: 15-17
 WEBS 1 Row at midpt 3-23, 5-23, 7-20, 9-18

REACTIONS.

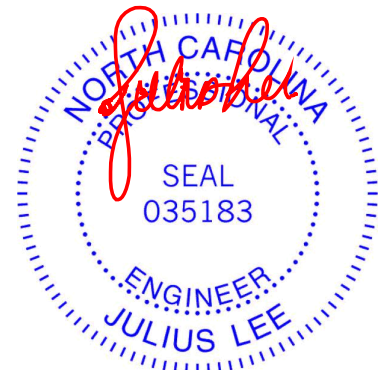
(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-180(LC 10)
 Max Uplift 2=-42(LC 12), 12=-31(LC 12)
 Max Grav 2=2353(LC 17), 12=2366(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3679/50, 3-5=-2990/108, 5-6=-2844/114, 6-7=-3047/109, 7-8=-3047/109,
 8-9=-3247/93, 9-11=-3811/57, 11-12=-3662/30
 BOT CHORD 2-25=0/3181, 23-25=0/3181, 6-21=-495/56, 20-21=0/2926, 18-20=0/2778, 17-18=0/3226,
 9-17=0/779, 12-14=0/3025
 WEBS 3-25=0/390, 3-23=-704/90, 5-23=-864/0, 21-23=0/3005, 5-21=0/1839, 6-20=-4/476,
 7-20=-467/91, 8-20=-16/600, 14-17=0/3016, 11-17=0/389, 11-14=-602/44, 8-18=0/972,
 9-18=-894/36

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.Opsf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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

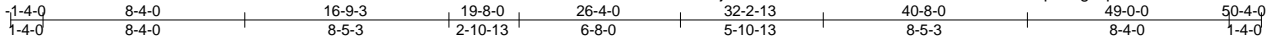


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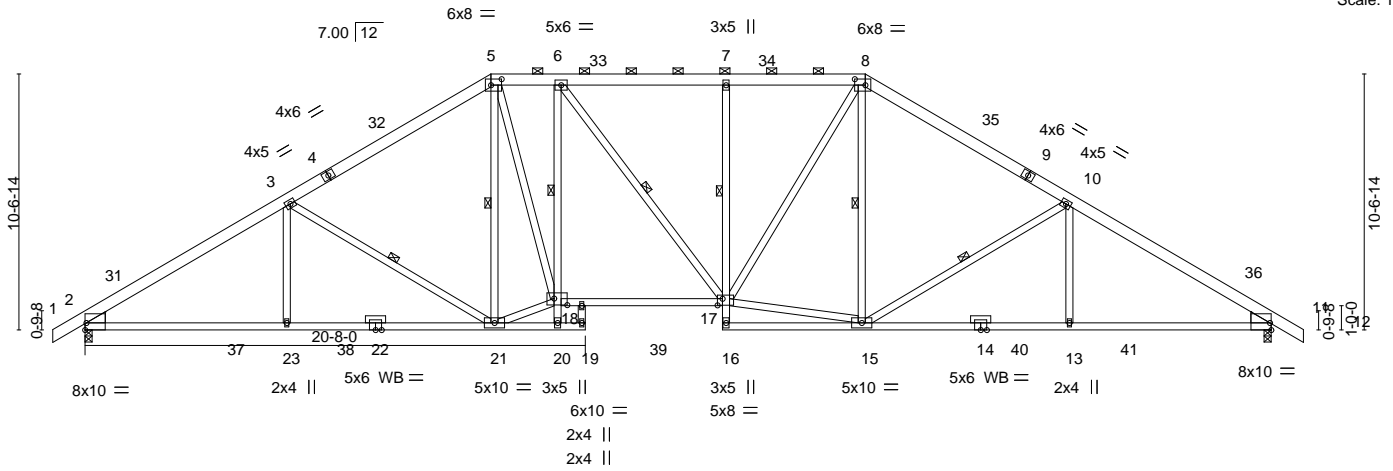
Job 22020378-01	Truss T1B	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092875
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Carter Components (Lexington), Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:38 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale: 1/8"=1'



SEE DWG T31092873 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 16-17 AND JNT 18-19.

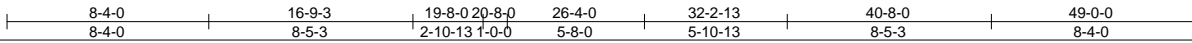


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-5-4,0-3-0], [8:0-5-4,0-3-0], [11:Edge,0-3-8], [17:0-2-8,0-3-4], [18:0-6-8,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.31	17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.56	17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.24	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 376 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-11-13 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied. Except:
 1 Row at midpt 6-18, 7-17
 10-0-0 oc bracing: 18-20
 WEBS 1 Row at midpt 3-21, 5-21, 6-17, 8-15, 10-15

REACTIONS.

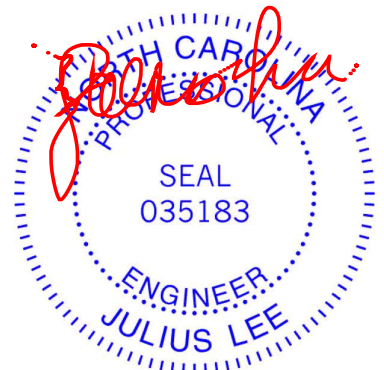
(size) 2=0-3-8, 11=0-3-8
 Max Horz 2=180(LC 11)
 Max Uplift 2=39(LC 12), 11=42(LC 12)
 Max Grav 2=2353(LC 17), 11=2335(LC 18)

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

TOP CHORD 2-3=-3684/46, 3-5=-2983/105, 5-6=-2935/106, 6-7=-2982/112, 7-8=-2971/113,
 8-10=-2954/109, 10-11=-3653/51
 BOT CHORD 2-23=0/3185, 21-23=0/3185, 6-18=-481/75, 17-18=0/3016, 7-17=-408/77, 13-15=0/3024,
 11-13=0/3024
 WEBS 3-23=0/397, 3-21=-720/90, 5-21=-445/0, 18-21=0/2850, 5-18=0/1559, 6-17=-33/271,
 15-17=0/2465, 8-17=0/1068, 8-15=-28/255, 10-15=-726/91, 10-13=0/396

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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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



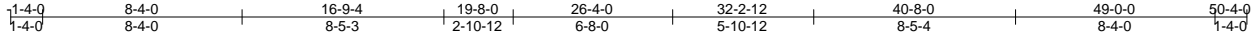
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss	T31092876
22020378-01	H1S	HIP	1	1	Job Reference (optional)	

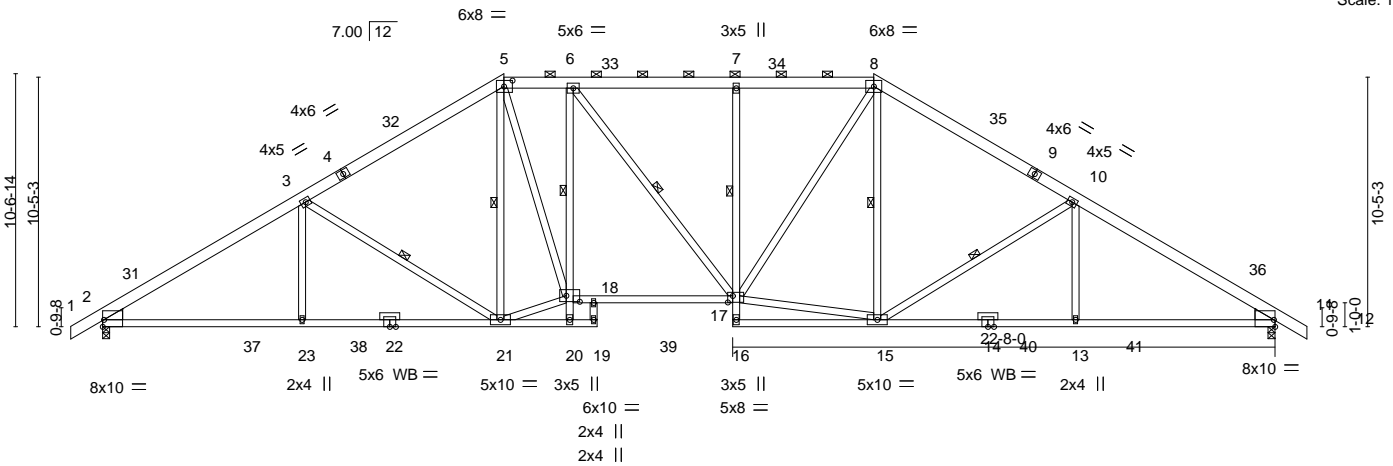
Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:22 2023 Page 1

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDoi7J4zJC?f



Scale: 1/8"=1'



SEE DWG T31092873 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 16-17 AND JNT 18-19.

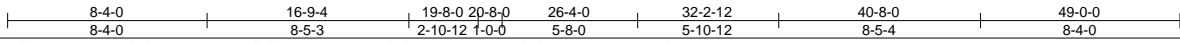


Plate Offsets (X,Y)-- [2:Edge,0-3-8], [5:0-4-4,0-3-0], [11:Edge,0-3-8], [17:0-2-8,0-3-4], [18:0-6-12,0-3-0]

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 0.87	Vert(LL) -0.31 17-18 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.56 17-18 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.23 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 375 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

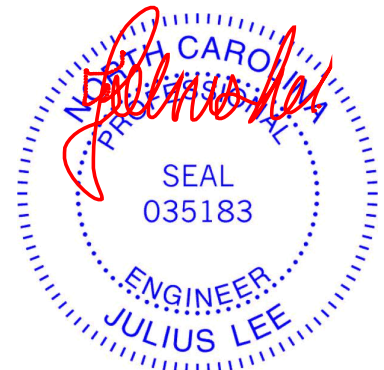
(size) 2=0-3-8, 11=0-3-8
 Max Horz 2=-178(LC 10)
 Max Uplift 2=-39(LC 12), 11=-42(LC 12)
 Max Grav 2=2352(LC 17), 11=2334(LC 18)

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

TOP CHORD 2-3=-3677/46, 3-5=-3009/104, 5-6=-2978/105, 6-7=-3026/111, 7-8=-3016/112,
 8-10=-2981/109, 10-11=-3645/51
 BOT CHORD 2-23=0/3177, 21-23=0/3177, 6-18=-514/72, 17-18=0/3058, 7-17=-424/78, 13-15=0/3017,
 11-13=0/3017
 WEBS 3-23=0/390, 3-21=-675/89, 5-21=-405/0, 18-21=0/2851, 5-18=0/1535, 6-17=-33/274,
 15-17=0/2473, 8-17=0/1085, 8-15=-31/251, 10-15=-678/90, 10-13=0/387

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-4, Exterior(2R) 16-9-4 to 21-0-3, Interior(1) 21-0-3 to 32-2-12, Exterior(2R) 32-2-12 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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 Edenton, NC 27932

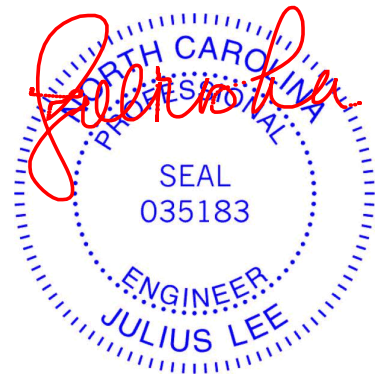
Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
22020378-01	H1SA	HIP	1	1	T31092877

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

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:24 2023 Page 2
 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

NOTES-

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2023

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

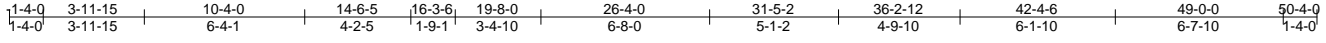
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



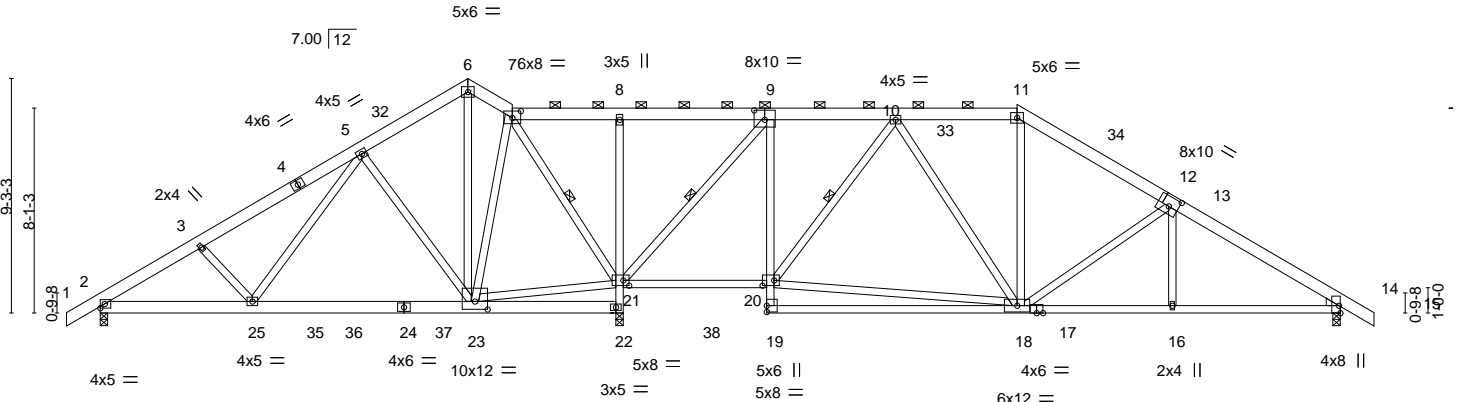
818 Soundside Road
 Edenton, NC 27932

Job 22020378-01	Truss H1SB	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092878
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Carter Components (Lexington), Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:26 2023 Page 1



Scale = 1:91.0



SEE DWG T31092877 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 19-20 AND JNT 21-22.

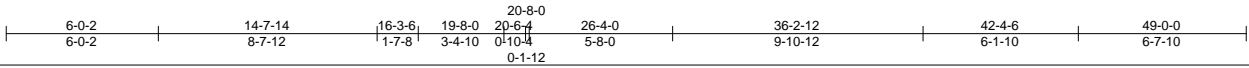


Plate Offsets (X,Y)-- [7:0-4-0,0-3-4], [9:0-5-0,0-4-8], [12:0-4-8,0-4-8], [14:Edge,0-0-10], [20:0-5-8,0-2-8], [21:0-2-12,0-2-8], [23:0-6-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.22 18-19 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.45 18-19 >752 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.04 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 394 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-24,22-24: 2x6 SP No.2, 8-22,9-19: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 7-11.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 10-20, 7-21, 9-21

REACTIONS.

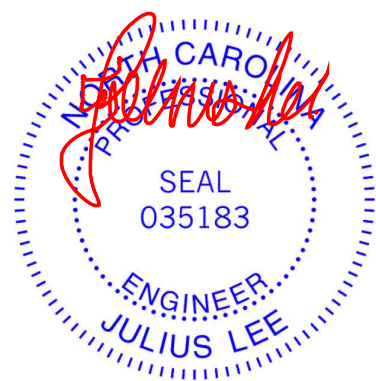
(size) 2=0-3-8, 14=0-3-8, 22=0-3-8
 Max Horz 2=157(LC 11)
 Max Uplift 14=60(LC 12)
 Max Grav 2=920(LC 17), 14=1170(LC 18), 22=2795(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1328/0, 3-5=-1197/0, 5-6=-342/0, 6-7=-283/0, 7-8=0/766, 8-9=0/763,
 9-10=-319/150, 10-11=-917/139, 11-13=-1124/127, 13-14=-1562/92
 BOT CHORD 2-25=0/1176, 23-25=0/613, 21-22=-2776/0, 8-21=-348/67, 20-21=0/325, 9-20=0/892,
 16-18=0/1262, 14-16=0/1262
 WEBS 18-20=-7541, 10-20=-684/21, 10-18=0/377, 13-18=-483/80, 5-25=0/780, 5-23=-674/0,
 7-21=-1409/0, 7-23=0/966, 9-21=-1559/0

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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2E) 14-6-5 to 16-3-6, Interior(1) 16-3-6 to 36-2-12, Exterior(2R) 36-2-12 to 39-2-12, Interior(1) 39-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

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



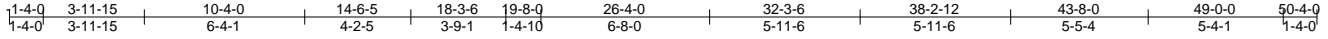
818 Soundside Road
 Edenton, NC 27932

Job 22020378-01	Truss H1SC	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092879
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Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:28 2023 Page 1

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Scale = 1:91.0

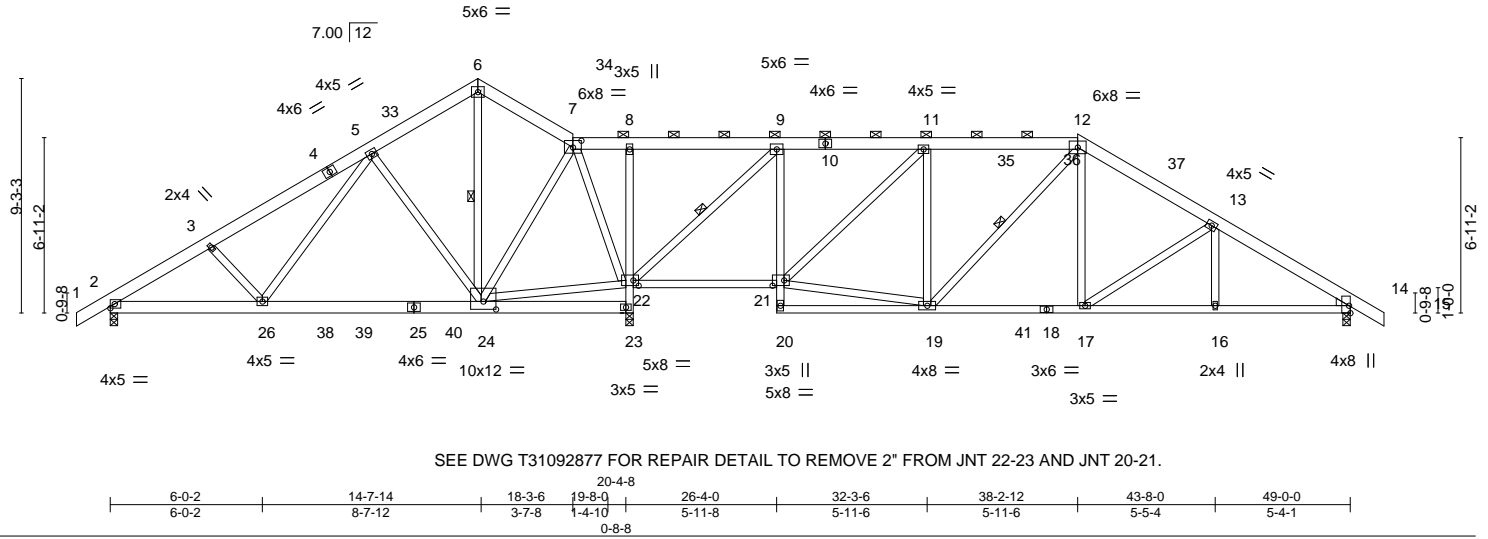


Plate Offsets (X,Y)-- [7:0-4-0,0-3-4], [14:Edge,0-0-10], [21:0-5-8,0-2-8], [22:0-2-8,0-2-8], [24:0-6-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.07	17-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.21	24-26	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.04	14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 384 lb	FT = 20%

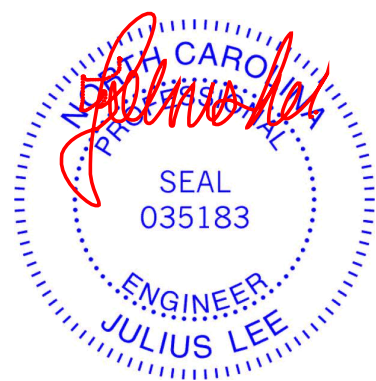
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-25,23-25: 2x6 SP No.2, 8-23,9-20: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 23=0-3-8
Max Horz 2=-157(LC 10)
Max Uplift 14=-60(LC 12)
Max Grav 2=927(LC 17), 14=1186(LC 18), 23=2757(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1341/0, 3-5=-1210/0, 5-6=-359/0, 6-7=-298/0, 7-8=0/879, 8-9=0/879,
9-11=-400/147, 11-12=-939/141, 12-13=-1269/121, 13-14=-1633/82
BOT CHORD 2-26=0/1188, 24-26=0/624, 22-23=-2742/0, 8-22=-324/49, 21-22=0/405, 9-21=0/860,
17-19=0/1024, 16-17=-3/1324, 14-16=-3/1324
WEBS 5-26=0/779, 19-21=0/879, 11-21=-763/0, 11-19=0/260, 12-17=0/434, 13-17=-351/58,
5-24=-663/0, 7-24=0/1211, 7-22=-1339/0, 9-22=-1677/2

- 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=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 38-2-12, Exterior(2R) 38-2-12 to 41-2-12, Interior(1) 41-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.

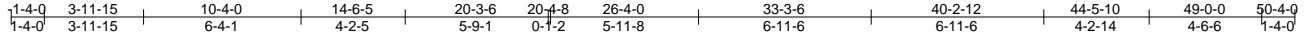


July 20,2023

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 22020378-01	Truss H1SD	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092880
Carter Components (Lexington), Lexington, NC - 27295,			8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:30 2023 Page 1		
			ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f		
			Units: 1.0 Eng: D.R.		



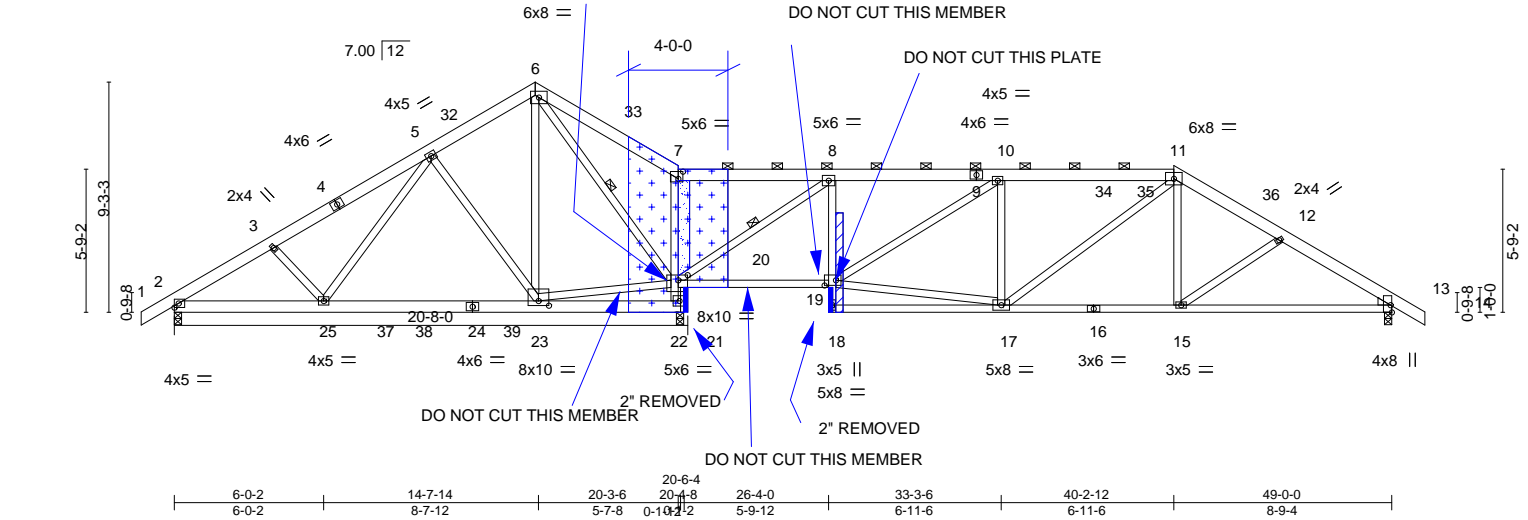
LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.

DO NOT CUT THIS PLATE

DO NOT CUT THIS MEMBER

DO NOT CUT THIS PLATE

Scale = 1:92.7



REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED.



INSTALL 2 X 6 SP NO.2 CUT TO FIT TIGHT.



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.



APPLY 2 X 4 X 4-0-0 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FACE.

Plate Offsets (X, Y)-- [7:0-2-4-0-3-8], [13:Edge,0-0-10], [19:0-5-8-0-2-8], [20:0-4-8-0-2-8], [23:0-5-0-0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.08 17-18 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.22 23-25 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 13 n/a n/a		
	Code IRC2018/TPI2014			Weight: 368 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-24,21-24: 2x6 SP No.2, 8-18,20-21: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-20, 6-20

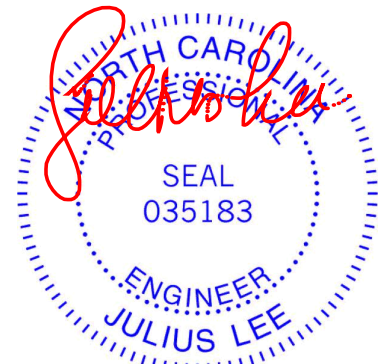
REACTIONS. (size) 2=0-3-8, 13=0-3-8, 21=0-3-8
Max Horz 2=-157(LC 10)
Max Uplift 13=-37(LC 12)
Max Grav 2=1047(LC 17), 13=1238(LC 18), 21=2527(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1532/0, 3-5=-1397/0, 5-6=-570/0, 6-7=0/722, 7-8=0/561, 8-10=-864/40,
10-11=-1407/72, 11-12=-1518/60, 12-13=-1679/63
BOT CHORD 2-25=0/1366, 23-25=0/819, 19-20=0/892, 8-19=0/740, 15-17=0/1261, 13-15=0/1374,
20-21=-2198/0
WEBS 17-19=0/1274, 10-19=-644/41, 11-15=0/330, 5-25=0/756, 5-23=-645/0, 8-20=-1776/33,
20-23=0/552, 6-20=-1624/0, 6-23=0/1002, 20-22=-396/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 40-2-12, Exterior(2R) 40-2-12 to 43-2-12, Interior(1) 43-2-12 to 50-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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) **WARNING** - Any design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-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

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

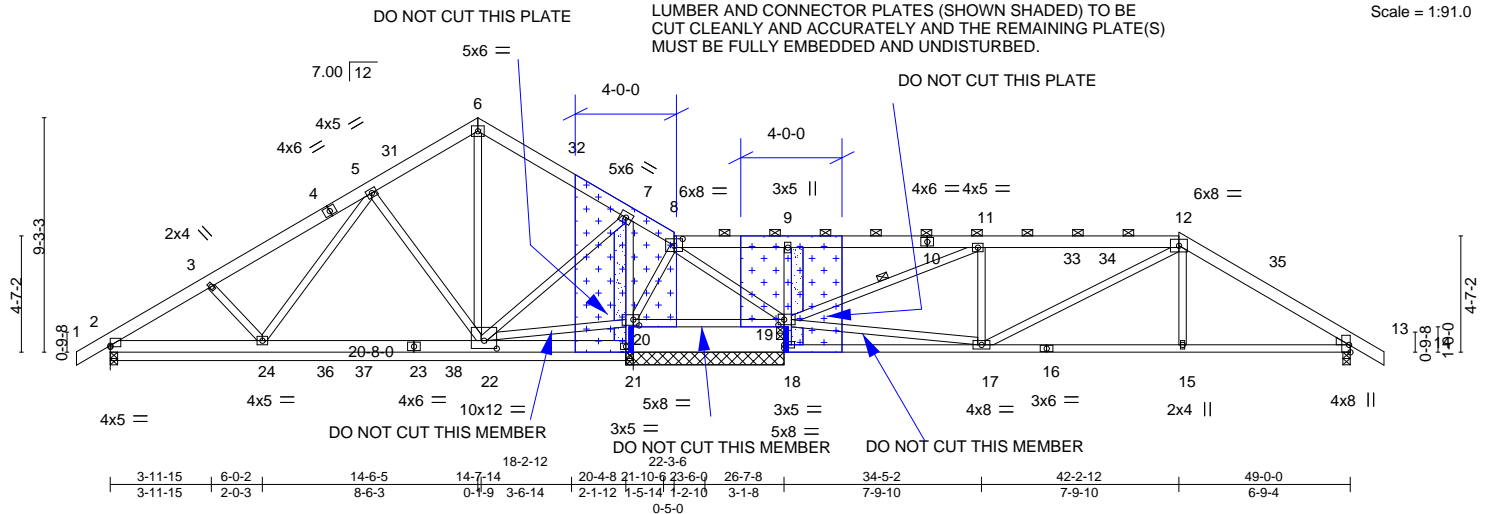
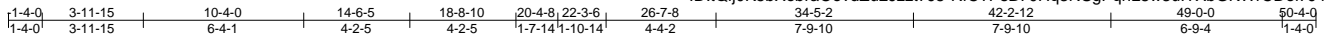


July 20, 2023



818 Soundside Road
Edenton, NC 27932

Job 22020378-01	Truss H1SE	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092881
Carter Components (Lexington), Lexington, NC - 27295,			8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:31 2023 Page 1		
			Job Reference (optional) Units: 1.0 Eng: D.R		



REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED.



INSTALL 2 X 6 SP NO.2 CUT TO FIT TIGHT.



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [8:0-4-0,0-3-4], [13:Edge,0-0-10], [19:0-2-12,0-2-8], [20:0-2-12,0-2-12], [22:0-6-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(LL) -0.08 15-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Vert(CT) -0.23 22-24 >999 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.03 13 n/a n/a		
				Weight: 355 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-23,21-23: 2x6 SP No.2, 7-21,9-18: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 8-12.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 11-19

REACTIONS.

All bearings 6-3-0 except (jt=length) 2=0-3-8, 13=0-3-8, 19=0-3-8.
 (lb) - Max Horz 2=157(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 21, 19
 Max Grav All reactions 250 lb or less at joint(s) 18, 21 except 2=1136(LC 17),
 20=1286(LC 17), 13=997(LC 18), 19=1258(LC 26)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1694/0, 3-5=-1559/0, 5-6=-688/0, 6-7=-718/0, 8-9=0/356, 9-11=0/364,
 11-12=-1052/76, 12-13=-1282/54
 BOT CHORD 2-24=0/1500, 22-24=0/961, 7-20=-1274/0, 9-19=-407/86, 15-17=0/1019, 13-15=0/1027
 WEBS 17-19=0/937, 11-19=-1488/19, 12-15=0/277, 5-24=0/759, 5-22=-645/0, 7-22=0/968,
 6-22=0/440

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 42-2-12, Exterior(2R) 42-2-12 to 45-2-12, Interior(1) 45-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 20, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 21. This connection is for uplift only and does not consider lateral forces.
- Two SBP4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. 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.



July 20, 2023

Continued on page 2. 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 ANSITPI1 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

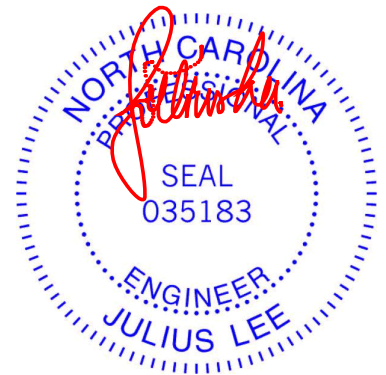
Job 22020378-01	Truss H1SE	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092881
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Job Reference (optional)

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

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:32 2023 Page 2
ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

- NOTES-**
- 12) 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.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2023

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

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/TFP 1: 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
BCSI: 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.