

Trenco
818 Soundside Rd
Edenton, NC 27932

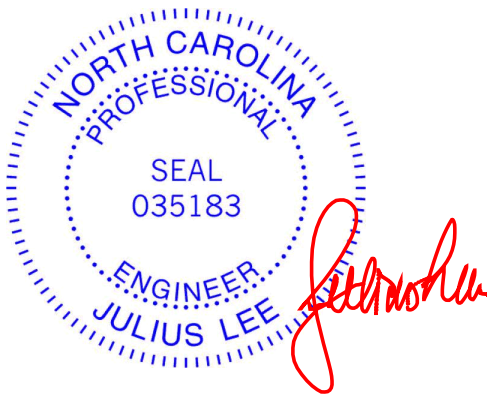
Re: 22020373-02
Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss

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: T27214672 thru T27214703

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

North Carolina COA: C-0844



March 24, 2022

Lee, Julius

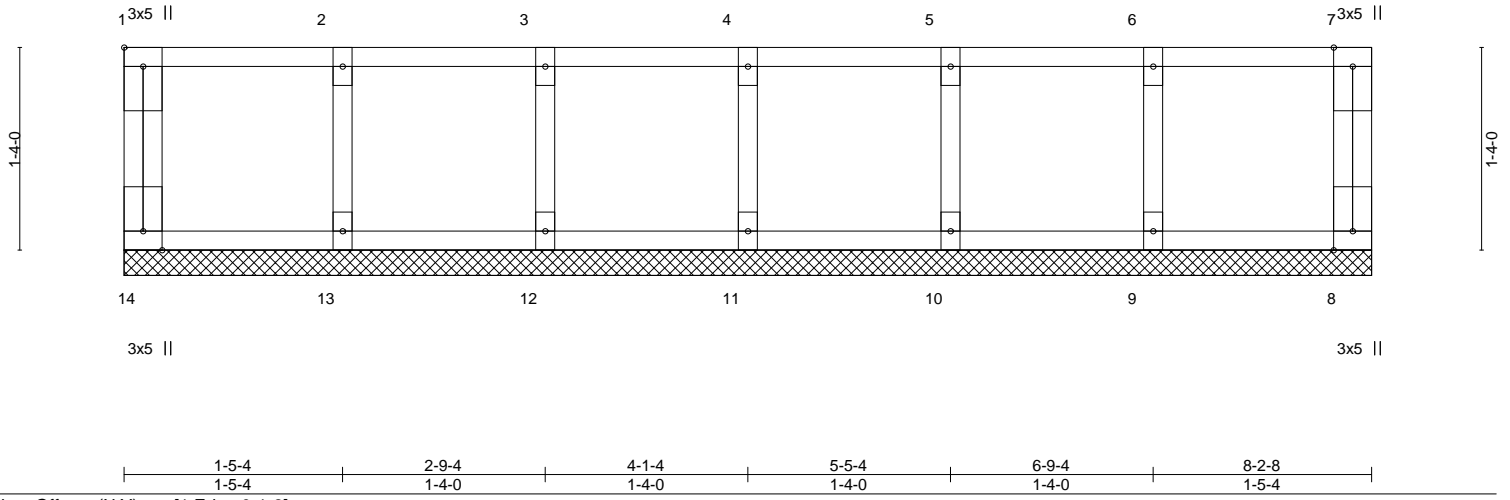
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job 22020373-02	Truss L1SA	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214672 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:56 2022 Page 1
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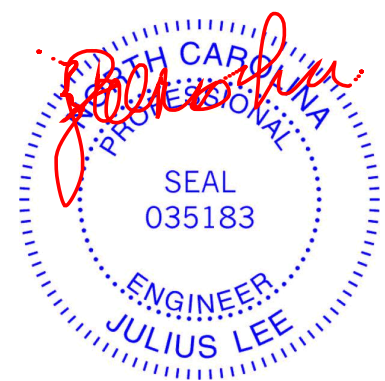
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R					Weight: 39 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 8-2-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11, 12, 13, 10, 9

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



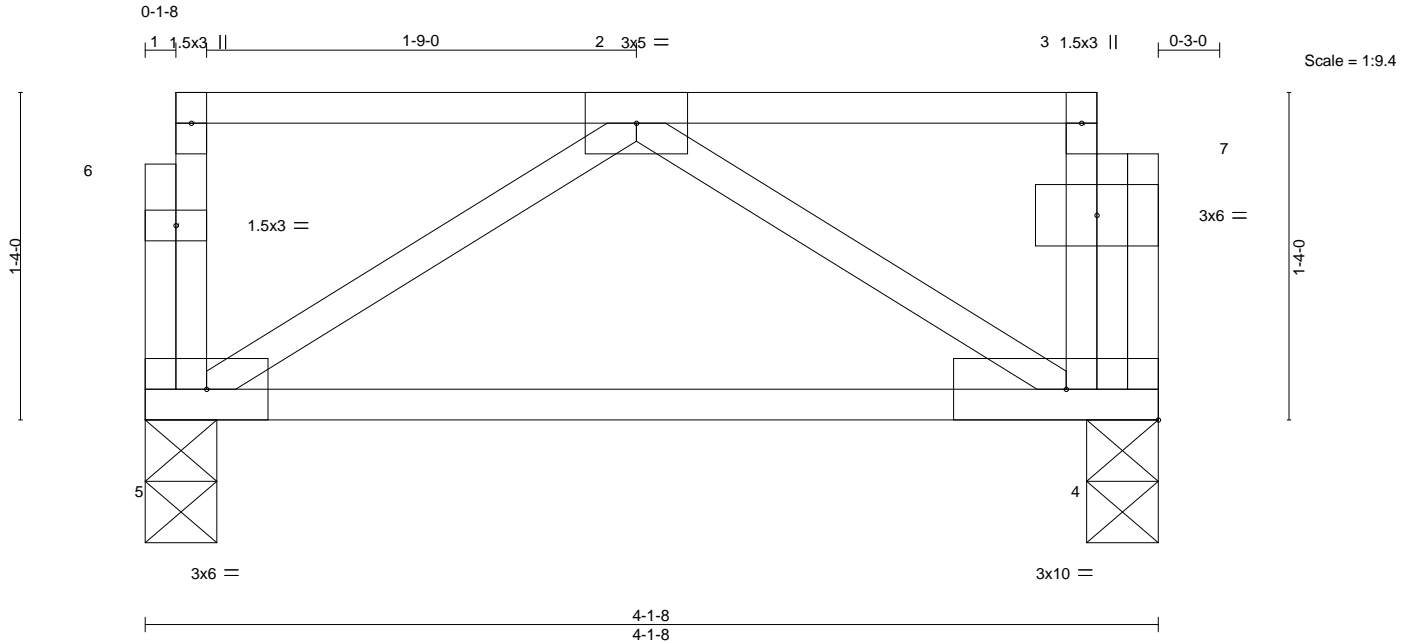
March 24, 2022

Job 22020373-02	Truss F1MB	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214673
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:45 2022 Page 1

ID:SyOeoqmDWZPys6ZdU1fppwypZbX-i4hyAc_oVcQxWOqkUjXEEvZqI0D0CMqQpbA4wCzYFDW



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.20	Vert(LL)	0.00	5 ****	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.18	Vert(CT)	-0.03	4-5 >999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4 n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P					Weight: 25 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

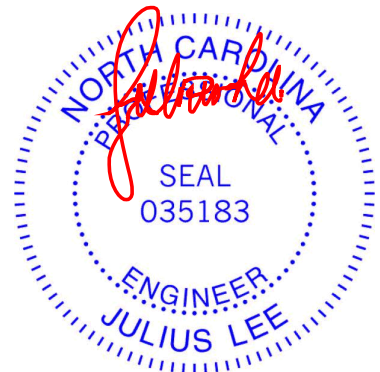
REACTIONS.

(size) 5=0-3-8, 4=0-3-8
Max Grav 5=203(LC 1), 4=197(LC 1)

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

NOTES-

- 1) 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.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 24, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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Edenton, NC 27932

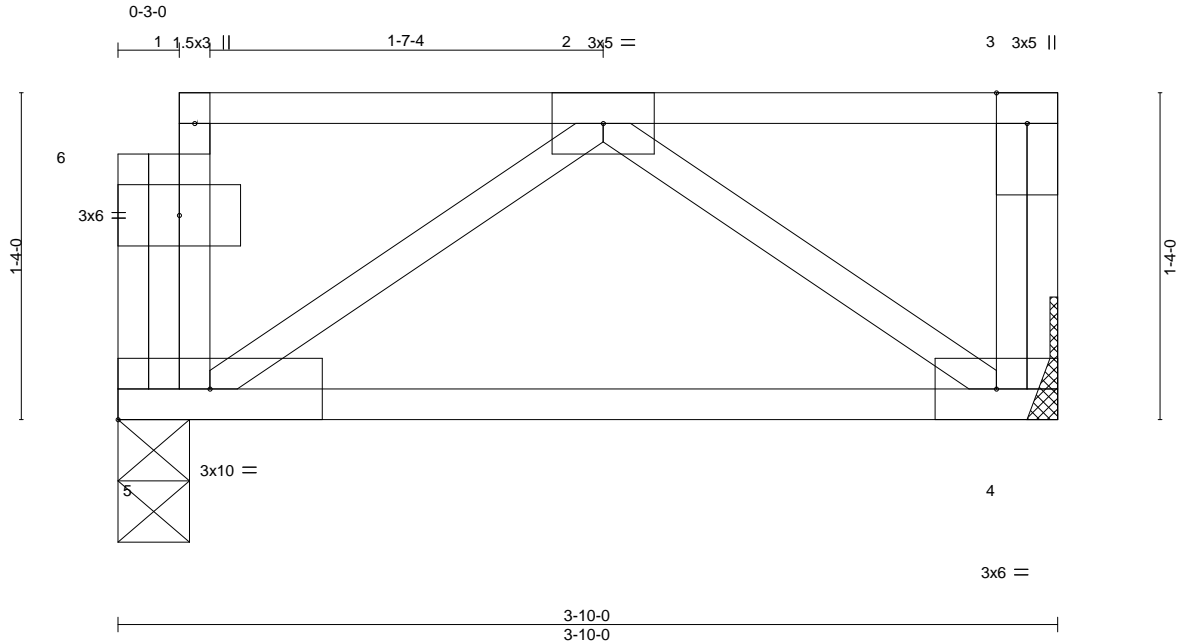
Job 22020373-02	Truss F1MA	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214674
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Carter Components (Lexington),

Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:45 2022 Page 1

ID:SyOeoqmDWZPys6ZdU1fppwypZbX-i4hyAc_oVcQxWOqkUjXEEvZr80DRCMwQpbA4wCzYFDW



Scale = 1:9.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.17	Vert(LL)	0.00	5	****	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.15	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.05	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 24 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

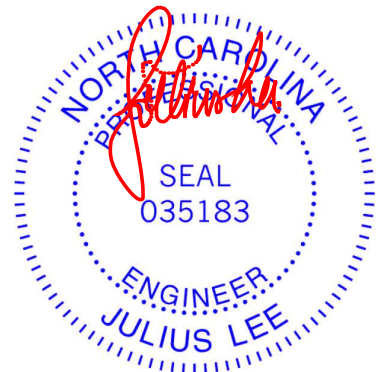
REACTIONS.

(size) 4=Mechanical, 5=0-3-8
 Max Grav 4=193(LC 1), 5=181(LC 1)

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

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.



March 24, 2022

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

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

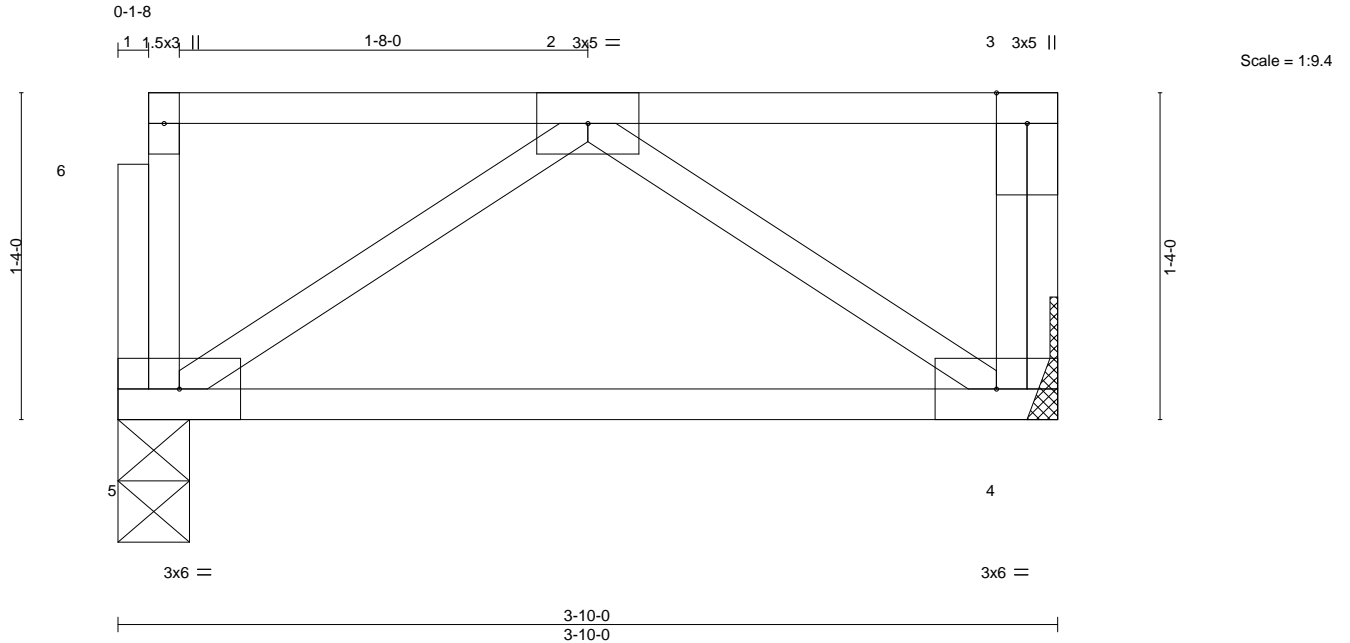


818 Soundside Road
 Edenton, NC 27932

Job 22020373-02	Truss F1M	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214675
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:44 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-Et7azGz9kJI4vEFYw?0?ii0hBct6TvfGaxRXNmzYFDX



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.19	Vert(LL)	0.00	5 ****	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.16	Vert(CT)	-0.03	4-5 >999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4 n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 23 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

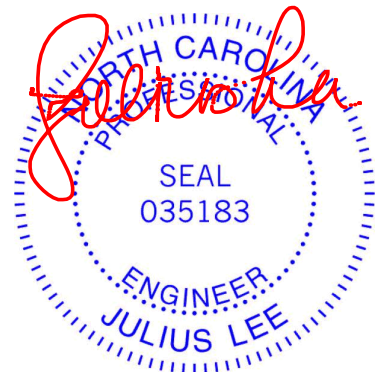
REACTIONS.

(size) 5=0-3-8, 4=Mechanical
Max Grav 5=191(LC 1), 4=197(LC 1)

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

NOTES-

- 1) Attach ribbon block to truss with 3-10d nails applied to flat face.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



March 24, 2022

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

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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 22020373-02	Truss L1S	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214676
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:56 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-tBr7UN6hv?pNL4AsdXEpBEWlrS?7HKu1LpLao3zYFDL

Scale = 1:10.9

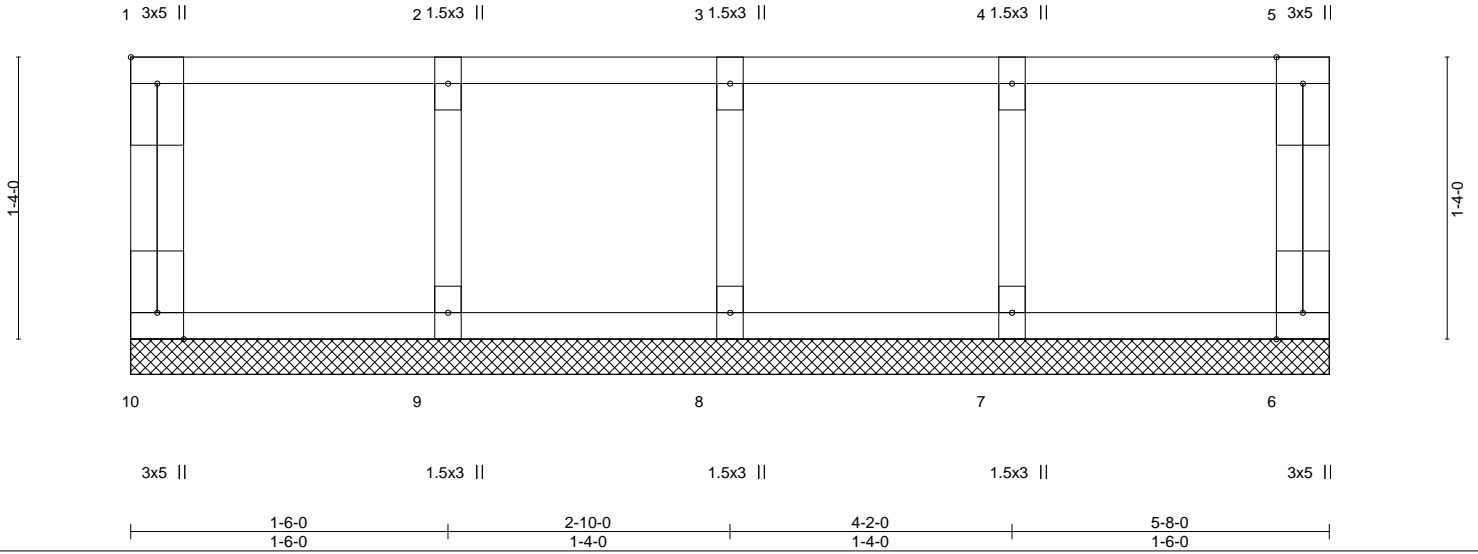


Plate Offsets (X, Y)-- [1:Edge,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL 1.00		TC 0.08	Vert(LL) n/a - n/a	999
TCDL 10.0	Lumber DOL 1.00		BC 0.02	Vert(CT) n/a - n/a	999
BCLL 0.0	Rep Stress Incr YES		WB 0.03	Horz(CT) 0.00 6 n/a	n/a
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R		
				PLATES	GRIP
				MT20	244/190
				Weight: 28 lb	FT = 20%F, 11%E

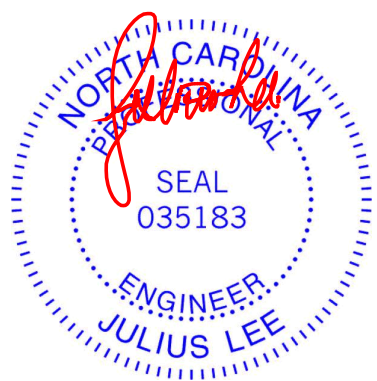
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 5-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 8, 9, 7

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

- NOTES-**
- 1) Gable requires continuous bottom chord bearing.
 - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 24, 2022

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

Job 22020373-02	Truss F1N	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214677
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:45 2022 Page 1
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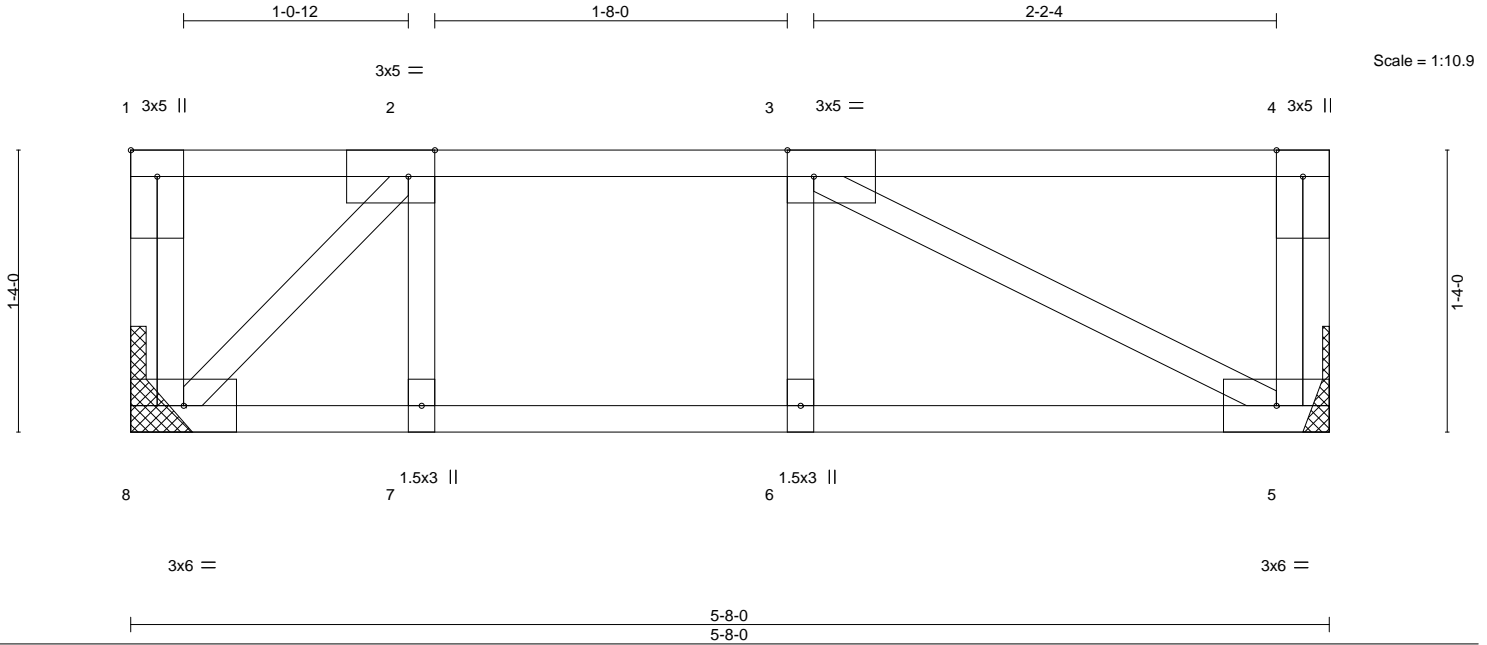


Plate Offsets (X, Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.46	Vert(LL)	-0.04	5-6	>999	MT20	244/190
TCDL 17.0	Lumber DOL	1.00	BC 0.45	Vert(CT)	-0.06	5-6	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						

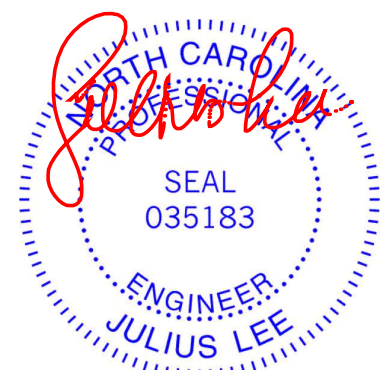
Weight: 32 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=336(LC 1), 5=336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-361/0
BOT CHORD 7-8=0/361, 6-7=0/361, 5-6=0/361
WEBS 2-8=-502/0, 3-5=-405/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 24, 2022

Job 22020373-02	Truss F1S	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214678
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:49 2022 Page 1
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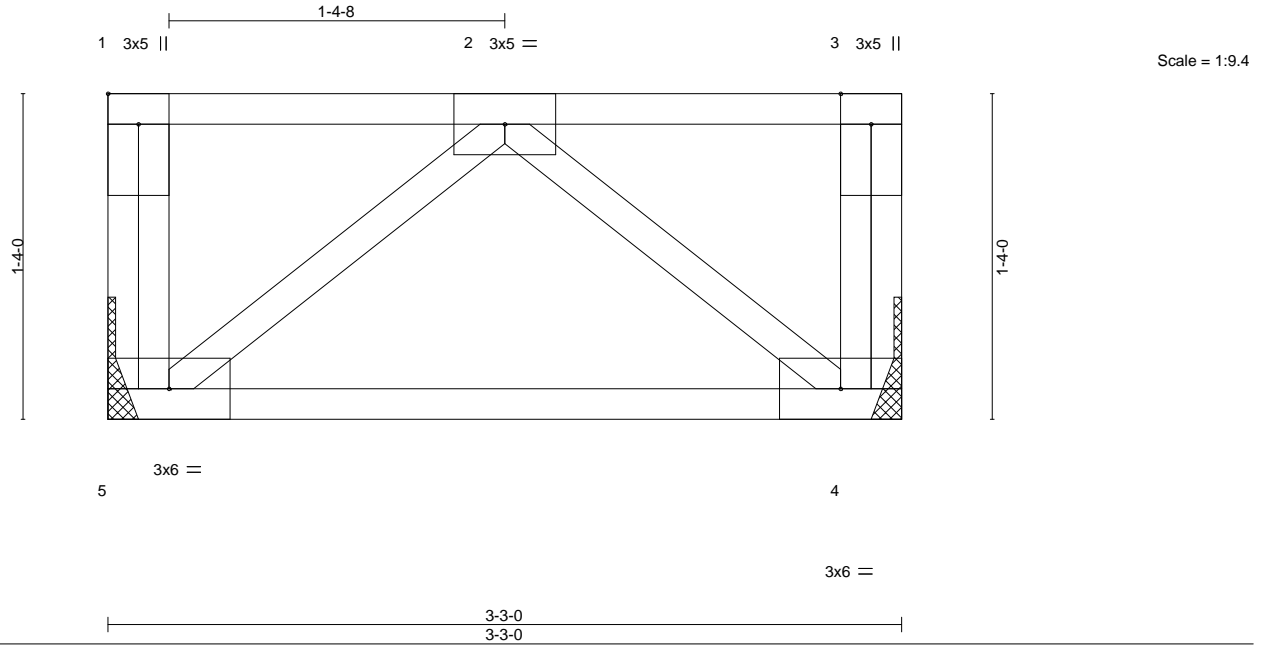


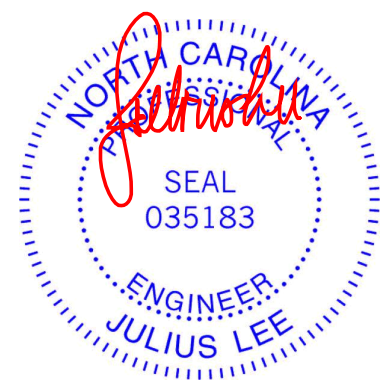
Plate Offsets (X,Y)-- [1:Edge,0-1-8]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	TC	0.14	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 40.0	Plate Grip DOL 1.00	BC	0.11	Vert(LL)	0.00	5	****		
TCDL 10.0	Lumber DOL 1.00	WB	0.04	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0	Rep Stress Incr YES	Matrix-P		Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2018/TPI2014							Weight: 21 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 5=Mechanical, 4=Mechanical
Max Grav 5=165(LC 1), 4=165(LC 1)

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

NOTES-
 1) Refer to girder(s) for truss to truss connections.
 2) 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.
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

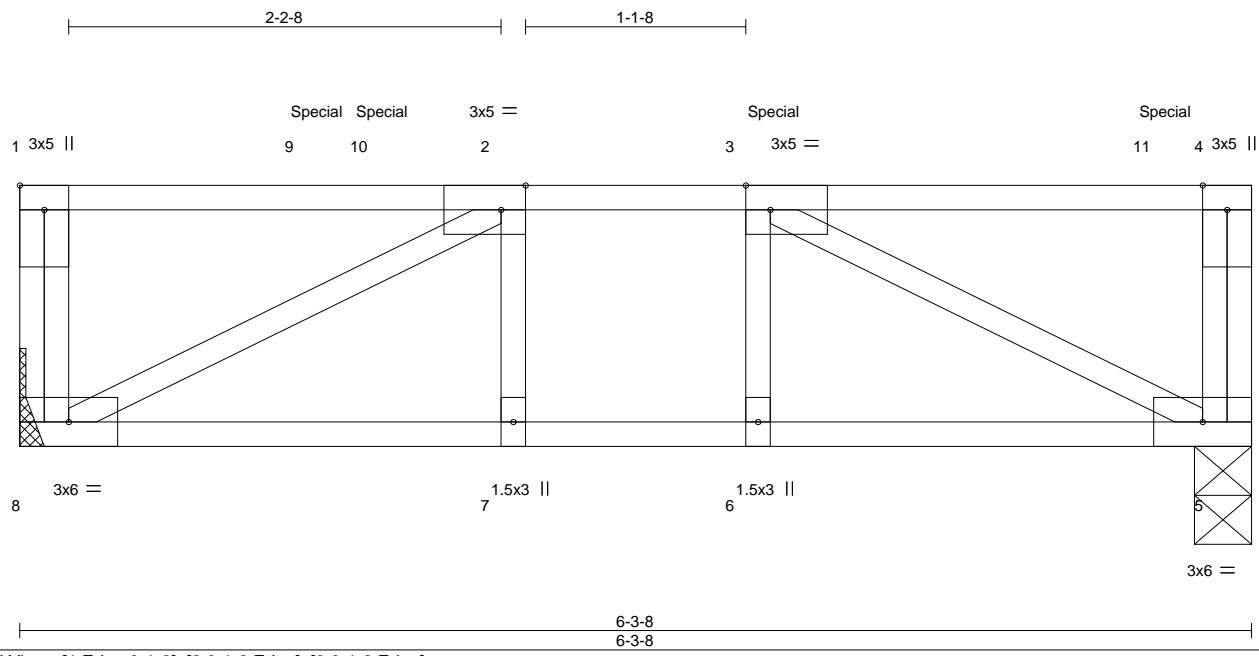


March 24, 2022

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1GRB	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214679
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:40 2022 Page 1
 ID:SyOeoqmDWZPys6ZdU1fppwypZbX-L6u37vwfh4oeQdynhAx3Xssqv?SAX2JhfJTKE_zYFDb



Scale = 1:11.8

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.85	Vert(LL) -0.03 7-8 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.35	Vert(CT) -0.04 7-8 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.20	Horz(CT) 0.01 5 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 36 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=Mechanical, 5=0-3-8
 Max Grav 8=497(LC 1), 5=555(LC 1)

"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.

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

TOP CHORD 2-3=-674/0
 BOT CHORD 7-8=0/674, 6-7=0/674, 5-6=0/674
 WEBS 3-5=-755/0, 2-8=-755/0

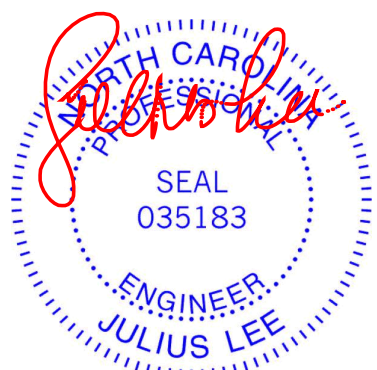
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 145 lb down at 1-6-4, 164 lb down at 1-10-4, and 140 lb down at 3-10-4, and 180 lb down at 5-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 6) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)
 Vert: 5-8=-10, 1-4=-100

Concentrated Loads (lb)
 Vert: 3=-97(F) 9=-65(B) 10=-97(F) 11=-128(F)



March 24, 2022

Job 22020373-02	Truss F1GRA	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214680
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:39 2022 Page 1

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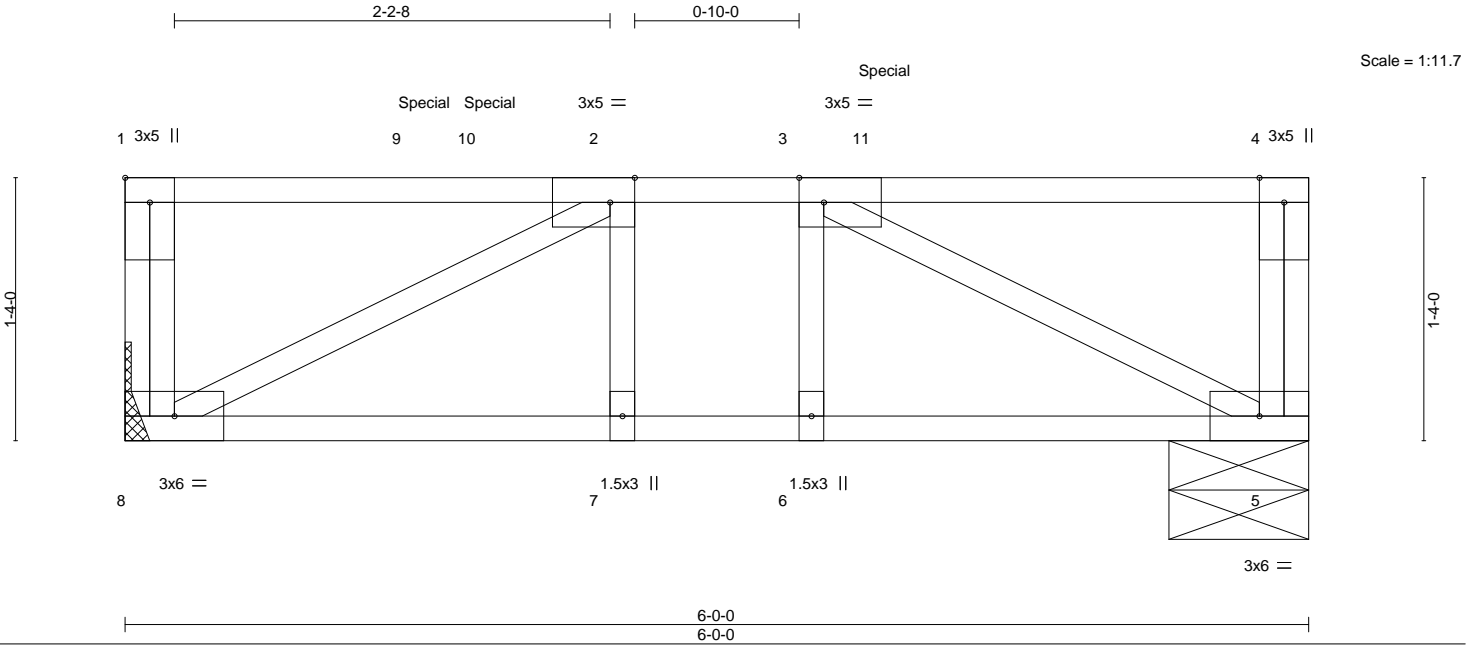


Plate Offsets (X, Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.80	Vert(LL)	-0.02	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.41	Vert(CT)	-0.04	7-8	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01	5	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 35 lb	FT = 20%F, 11%E

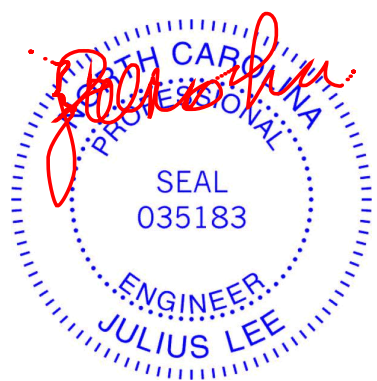
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=Mechanical, 5=0-8-8
Max Grav 8=613(LC 1), 5=556(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-855/0
BOT CHORD 7-8=0/855, 6-7=0/855, 5-6=0/855
WEBS 3-5=-958/0, 2-8=-958/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 145 lb down at 1-6-4, and 303 lb down at 1-10-4, and 291 lb down at 3-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 9=-65(F) 10=-236(B) 11=-236(B)



March 24, 2022

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1GRE	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214681
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:42 2022 Page 1
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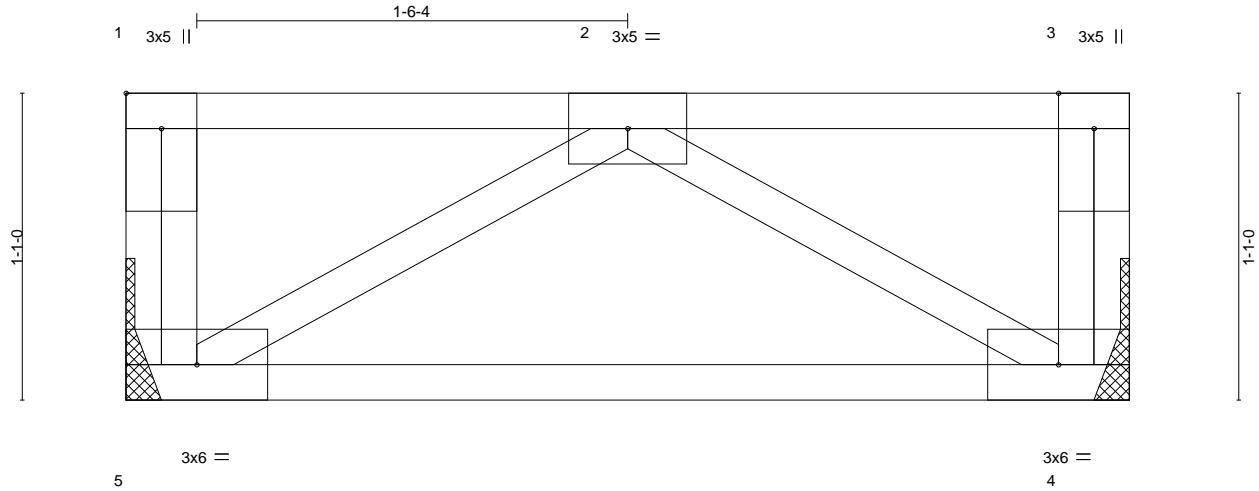


Plate Offsets (X,Y)--	[1:Edge,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.16	Vert(LL) 0.00	5	****	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.35	Vert(CT) -0.02	4-5	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.24	Horz(CT) 0.00	4	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 21 lb	FT = 20%F, 11%E

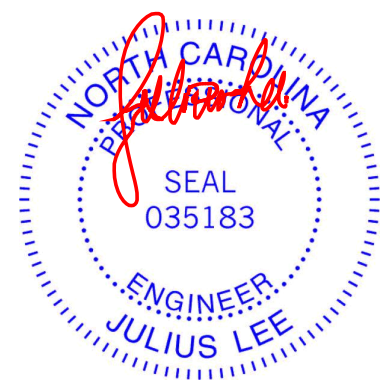
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 5=Mechanical, 4=Mechanical
Max Grav 5=593(LC 1), 4=593(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=0/875
WEBS 2-5=-1012/0, 2-4=-1012/0

- NOTES-**
- 1) Refer to girder(s) for truss to truss connections.
 - 2) 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.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-825



March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss L1	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214682 Job Reference (optional)
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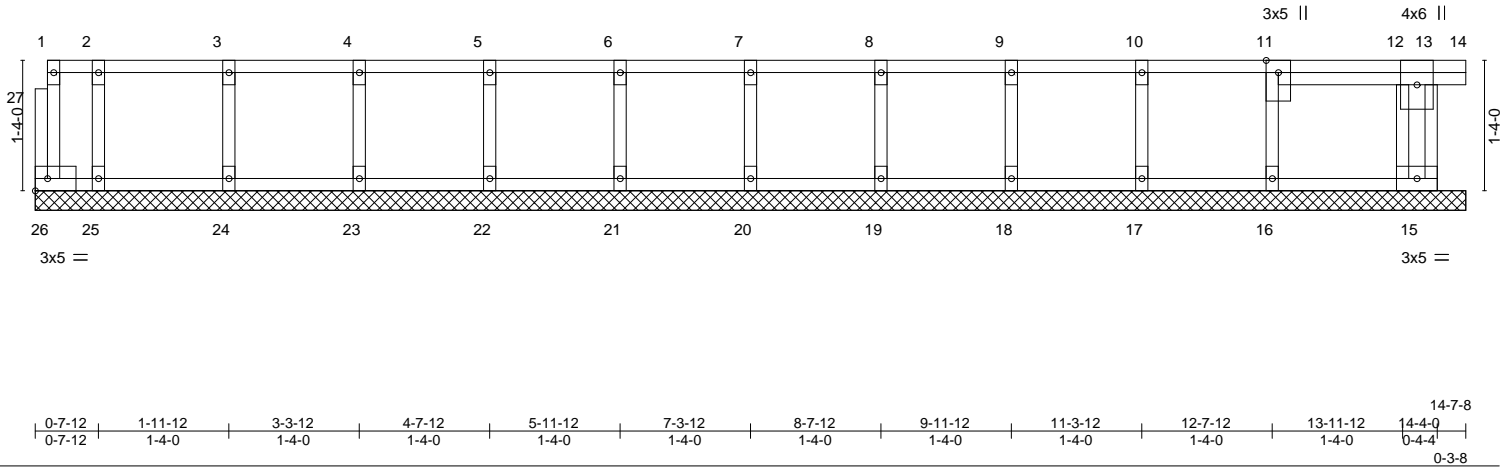
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:53 2022 Page 1
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0-1-8

0-3-8

Scale = 1:23.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	0.00	13	n/r	180	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	0.00	13	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	15	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R							
									Weight: 68 lb	FT = 20%F, 11%E

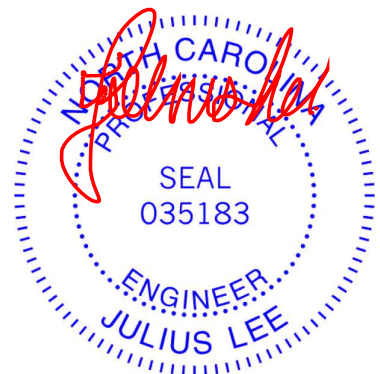
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 14-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 15, 20, 21, 22, 23, 24, 25, 19, 18, 17, 16

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.



March 24, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



818 Soundside Road
Edenton, NC 27932

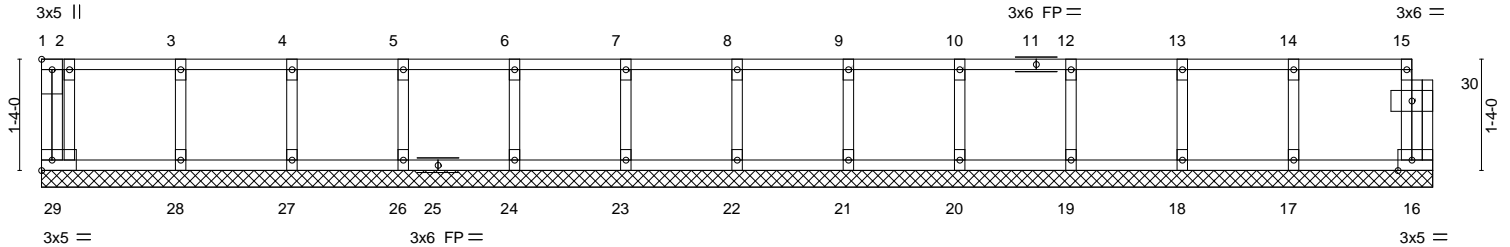
Job 22020373-02	Truss L1A	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214683 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:53 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-TcA_rL4pd4QoUdRHyoG6ZbuDJEzO4z7bfr6WCkzYFDO

0-3-0

Scale = 1:27.6



0-4-0	1-8-0	3-0-0	4-4-0	5-8-0	7-0-0	8-4-0	9-8-0	11-0-0	12-4-0	13-8-0	15-0-0	16-8-0
0-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-8-0

Plate Offsets (X, Y)-- [1:Edge,0-1-8], [16:0-2-0,Edge]

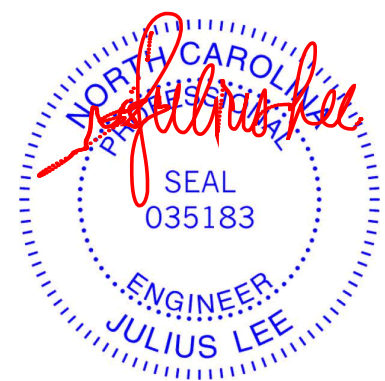
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	16	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 76 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 16-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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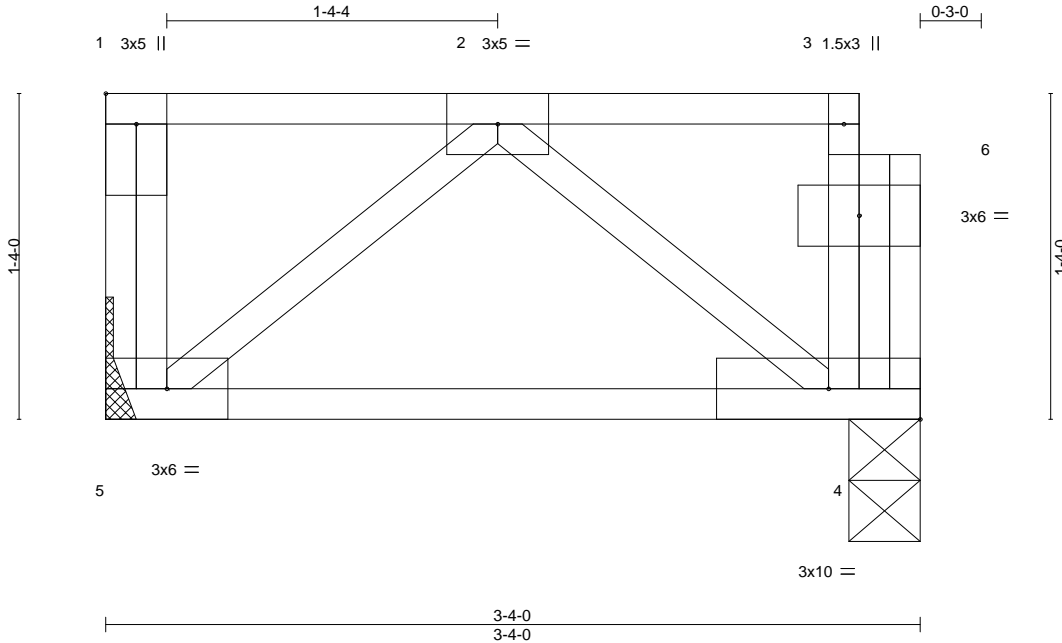
Job 22020373-02	Truss F1K	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214684
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:43 2022 Page 1

ID:SyOeoqmDWZPys6ZdU1fppwypZbX-mhZClwyXz?ADH4gMMiV9UUXPCYdkSc7MHh_rJzYFDY

Job Reference (optional)



Scale = 1:9.4

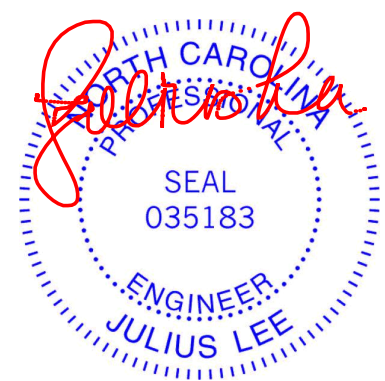
Plate Offsets (X,Y)-- [1:Edge,0-1-8]		CSL		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	TC	0.13	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 40.0	Plate Grip DOL 1.00	BC	0.11	Vert(LL)	0.00	5	****		
TCDL 10.0	Lumber DOL 1.00	WB	0.04	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0	Rep Stress Incr YES	Matrix-P		Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2018/TPI2014							Weight: 22 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 5=Mechanical, 4=0-3-8
Max Grav 5=166(LC 1), 4=154(LC 1)

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

- NOTES-**
- 1) Refer to girder(s) for truss to truss connections.
 - 2) 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.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



March 24, 2022

Job 22020373-02	Truss L1C	Truss Type GABLE	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214685 Job Reference (optional)
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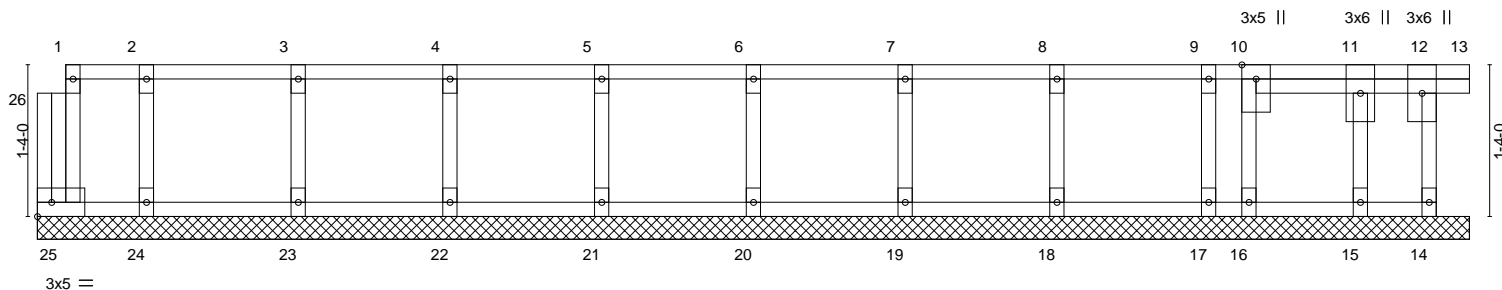
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:55 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-P?lkG1539hgWjwbf3pia0za62f0Yteu69bcGdzYFDM

0-3-0

0-3-8

Scale = 1:20.2



0-11-8	2-3-8	3-7-8	4-11-8	6-3-8	7-7-8	8-11-8	10-3-8	10-7-0	11-7-8	12-3-8	12-7-0
0-11-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-3-8	1-0-8	0-8-0	0-3-8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	-0.00	12	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 61 lb	FT = 20%F, 11%E

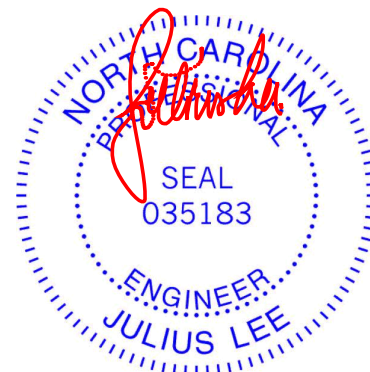
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 12-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 20, 21, 22, 23, 24, 19, 18, 17, 15, 16

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.



March 24, 2022

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



818 Soundside Road
Edenton, NC 27932

Job 22020373-02	Truss F1H	Truss Type FLOOR	Qty 6	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214686
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:42 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-HV?qYbxvCh2Mfx59ob_XdHxA9p0s?vm_7dyQJtzYFDZ

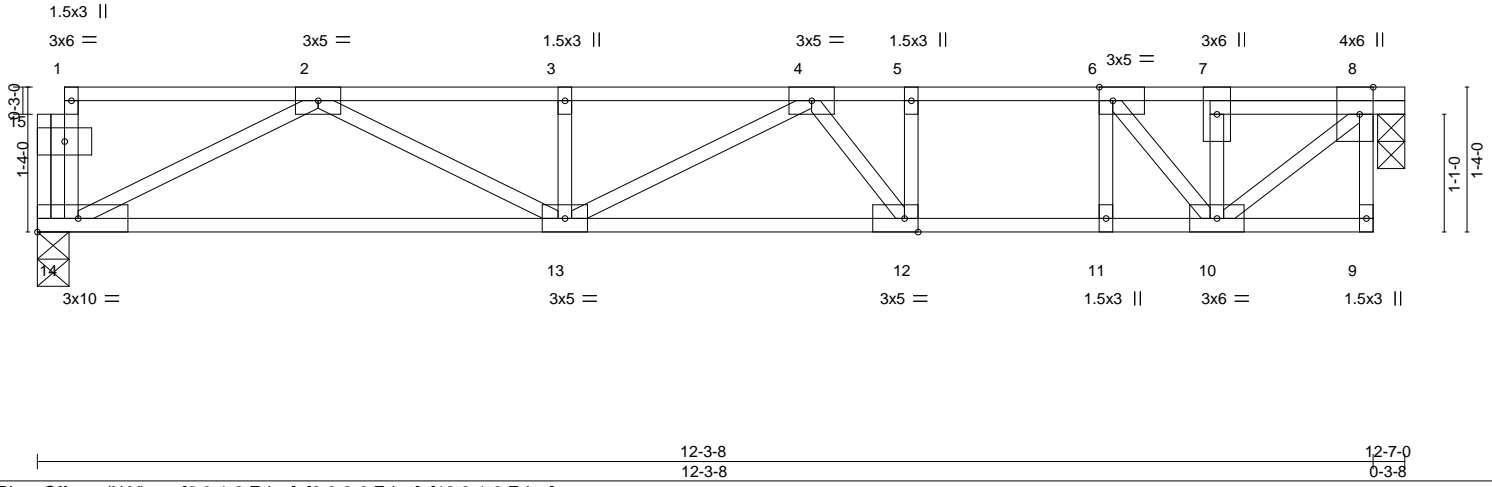


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [8:0-3-0,Edge], [12:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.86	Vert(LL) -0.17 12-13 >849 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.23 12-13 >623 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.02 8 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 69 lb	FT = 20%F, 11%E

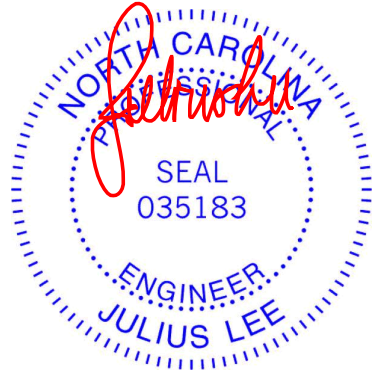
LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except*
7-8: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 8=0-3-0, 14=0-3-8
Max Grav 8=662(LC 1), 14=650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1619/0, 3-4=-1619/0, 4-5=-1306/0, 5-6=-1306/0, 6-7=-625/0, 7-8=-635/0
BOT CHORD 13-14=0/1085, 12-13=0/1603, 11-12=0/1306, 10-11=0/1306
WEBS 8-10=0/827, 5-12=0/284, 6-11=0/301, 2-14=-1205/0, 2-13=0/605, 4-12=-534/0, 6-10=-1064/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) 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.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.



March 24, 2022

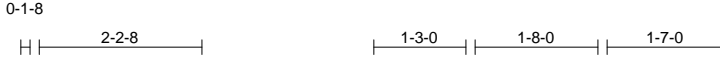
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1G	Truss Type FLOOR	Qty 6	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214688
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:38 2022 Page 1

ID:SyOeoqmDWZPys6ZdU1fppwypZbX-PkmJiDuP9TXwBJoOZlvbSRmVuBg43iIOC0_DA6zYFDd



0-3-0
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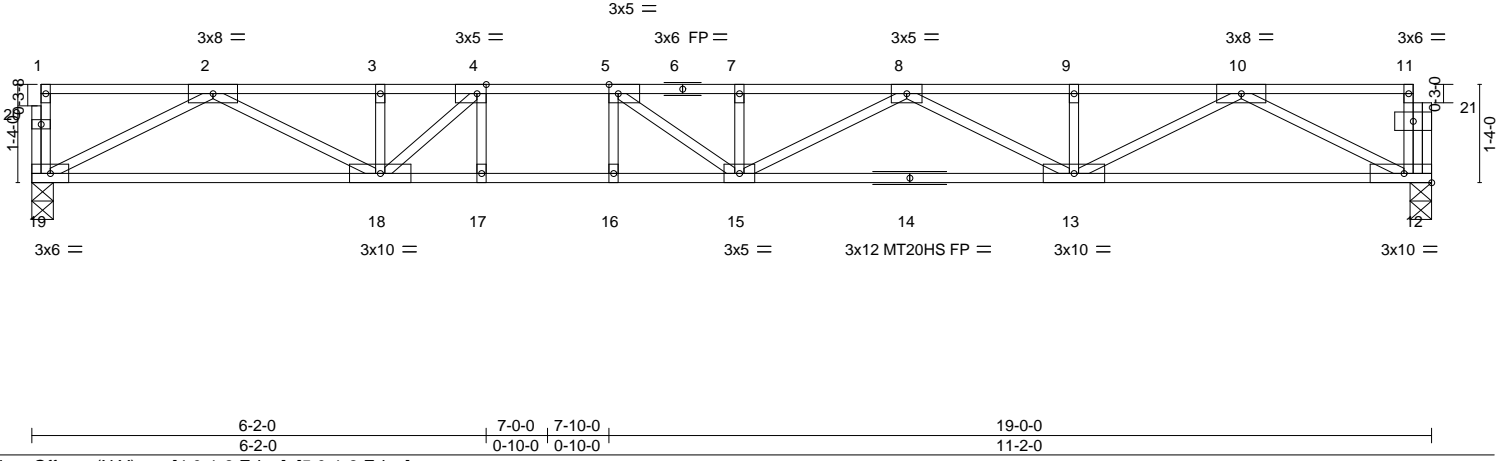


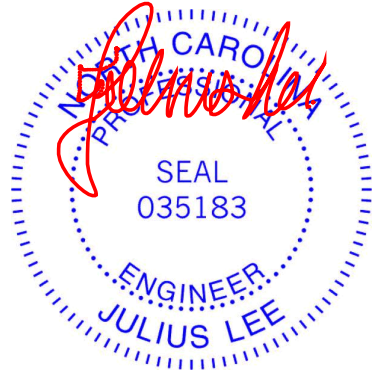
Plate Offsets (X, Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.82	Vert(LL) -0.35 15-16 >635 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT) -0.49 15-16 >462 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 99 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat) *Except* 6-11: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* 12-14: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 12=0-3-8
Max Grav 19=1022(LC 1), 12=1015(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2943/0, 3-4=-2943/0, 4-5=-3673/0, 5-7=-4024/0, 7-8=-4024/0, 8-9=-3013/0, 9-10=-3013/0
BOT CHORD 18-19=0/1762, 17-18=0/3673, 16-17=0/3673, 15-16=0/3673, 13-15=0/3729, 12-13=0/1799
WEBS 4-17=0/337, 5-16=-290/1, 2-19=-1979/0, 2-18=0/1338, 4-18=-1116/0, 10-12=-2005/0, 10-13=0/1375, 8-13=-810/0, 8-15=0/367, 7-15=-307/0, 5-15=-177/642

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



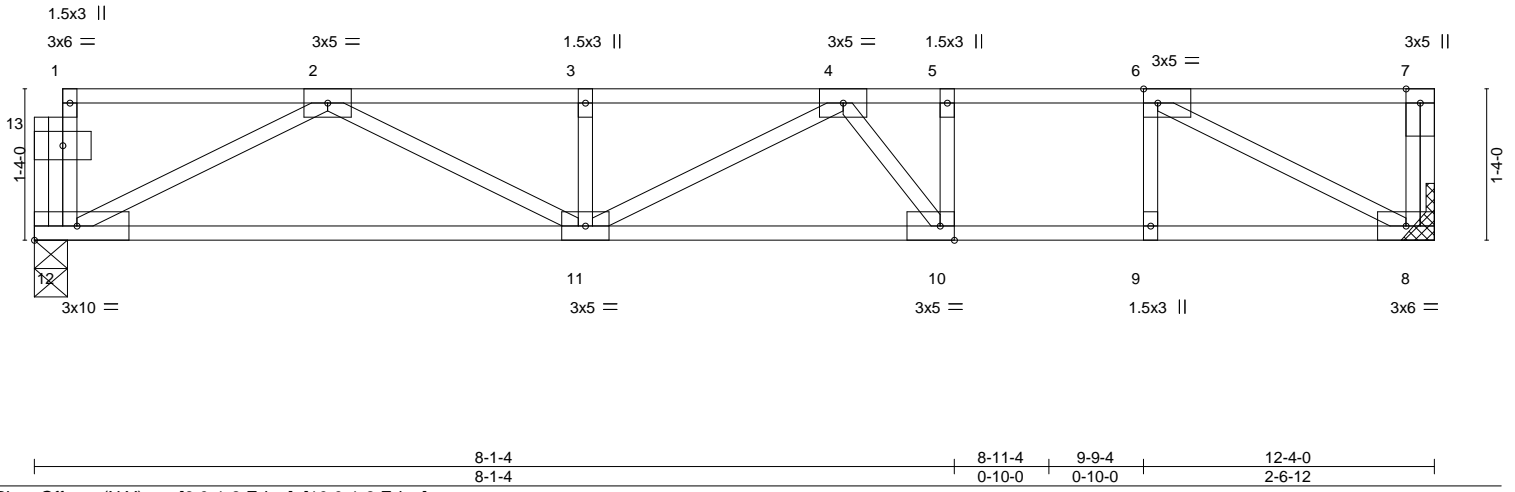
March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1J	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214689
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:43 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-mhZClwyXz?ADH4gMMIVm9UULCCNMkNK7MHh_rJzYFDY



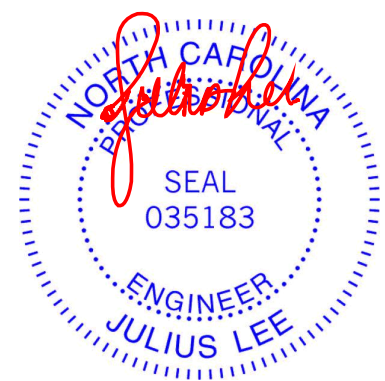
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.83	Vert(LL) -0.22 10-11 >670 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.37	Vert(CT) -0.29 10-11 >501 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 65 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=Mechanical, 12=0-3-8
Max Grav 8=661(LC 1), 12=649(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1616/0, 3-4=-1616/0, 4-5=-1270/0, 5-6=-1270/0
BOT CHORD 11-12=0/1084, 10-11=0/1594, 9-10=0/1270, 8-9=0/1270
WEBS 5-10=0/319, 2-12=-1203/0, 2-11=0/602, 4-10=-591/0, 6-8=-1425/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



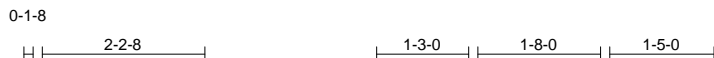
March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1FA	Truss Type FLOOR	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214690
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:37 2022 Page 1
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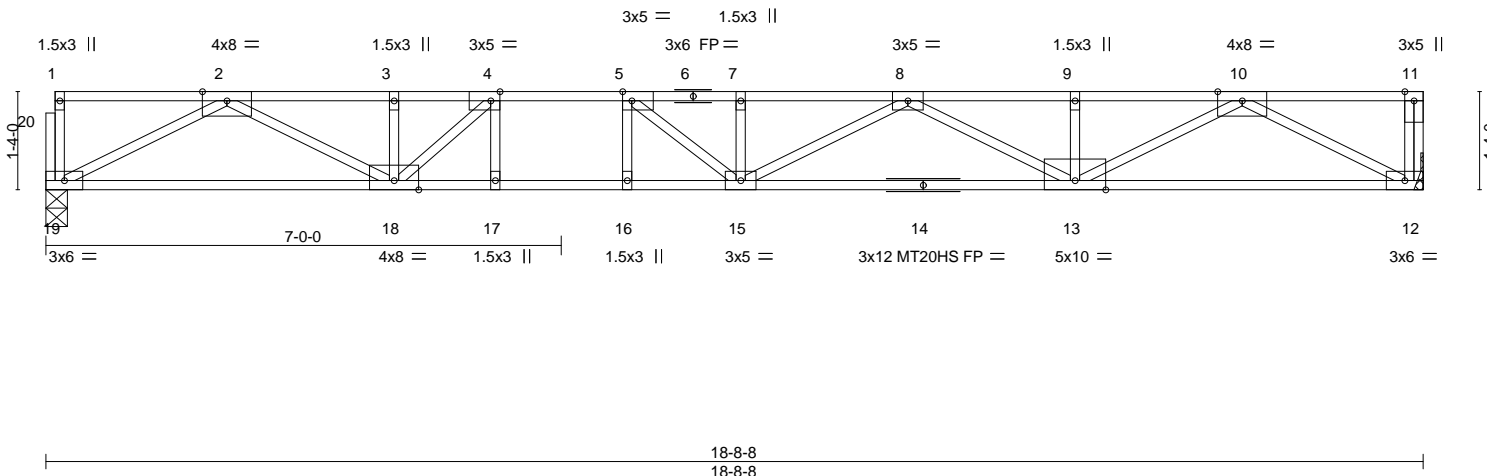


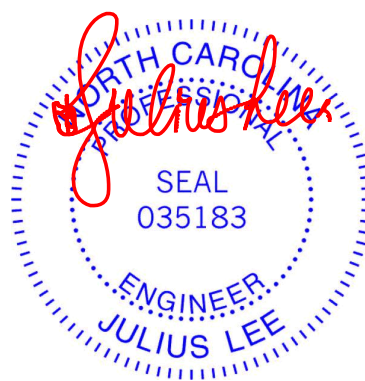
Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.66	Vert(LL) -0.29 15-16 >776 480	MT20	244/190
TCDL 22.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.48 15-16 >464 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.07 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S			
				Weight: 97 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 12=Mechanical
Max Grav 19=1229(LC 1), 12=1237(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3526/0, 3-4=-3526/0, 4-5=-4381/0, 5-7=-4784/0, 7-8=-4784/0, 8-9=-3577/0, 9-10=-3577/0
BOT CHORD 18-19=0/2121, 17-18=0/4381, 16-17=0/4381, 15-16=0/4381, 13-15=0/4438, 12-13=0/2120
WEBS 4-17=0/337, 5-16=-309/0, 2-19=-2382/0, 2-18=0/1592, 4-18=-1283/0, 10-12=-2388/0, 10-13=0/1650, 9-13=-273/0, 8-13=-975/0, 8-15=0/434, 7-15=-392/0, 5-15=-82/722

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



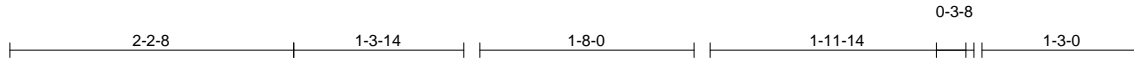
March 24, 2022

<p>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</p>	 818 Soundside Road Edenton, NC 27932
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Job 22020373-02	Truss F1L	Truss Type FLOOR	Qty 10	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214691
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:44 2022 Page 1
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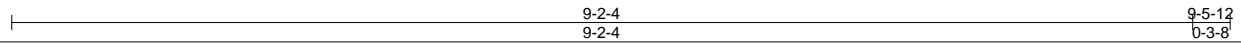
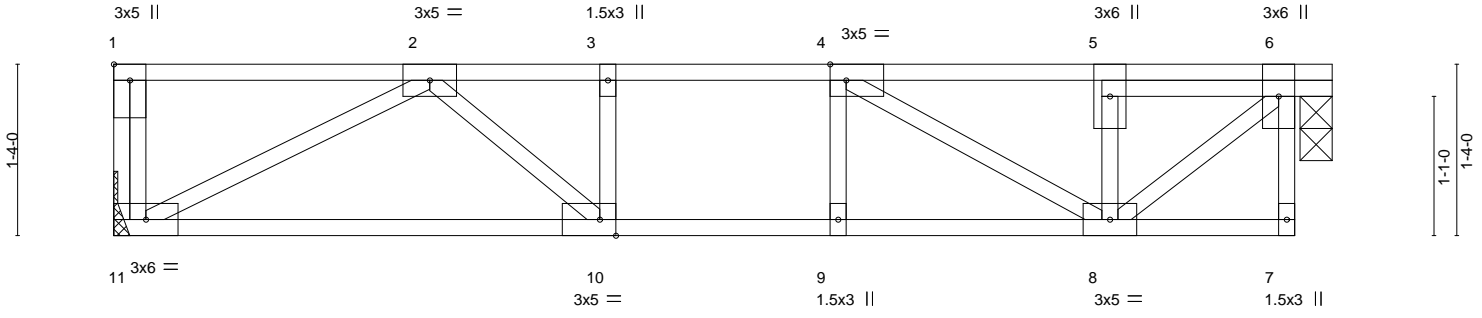


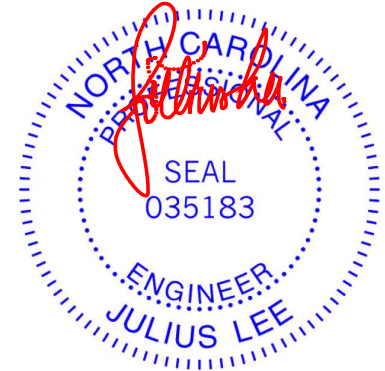
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-1-8,Edge], [10:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.05 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.37	Vert(CT) -0.07 10-11 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.01 6 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 52 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2(flat)		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)			

REACTIONS. (size) 11=Mechanical, 6=0-3-0
Max Grav 11=495(LC 1), 6=495(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-906/0, 3-4=-906/0, 4-5=-537/0, 5-6=-534/0
BOT CHORD 10-11=0/737, 9-10=0/906, 8-9=0/906
WEBS 6-8=0/695, 2-11=-830/0, 2-10=0/330, 4-8=-477/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 6) CAUTION, Do not erect truss backwards.

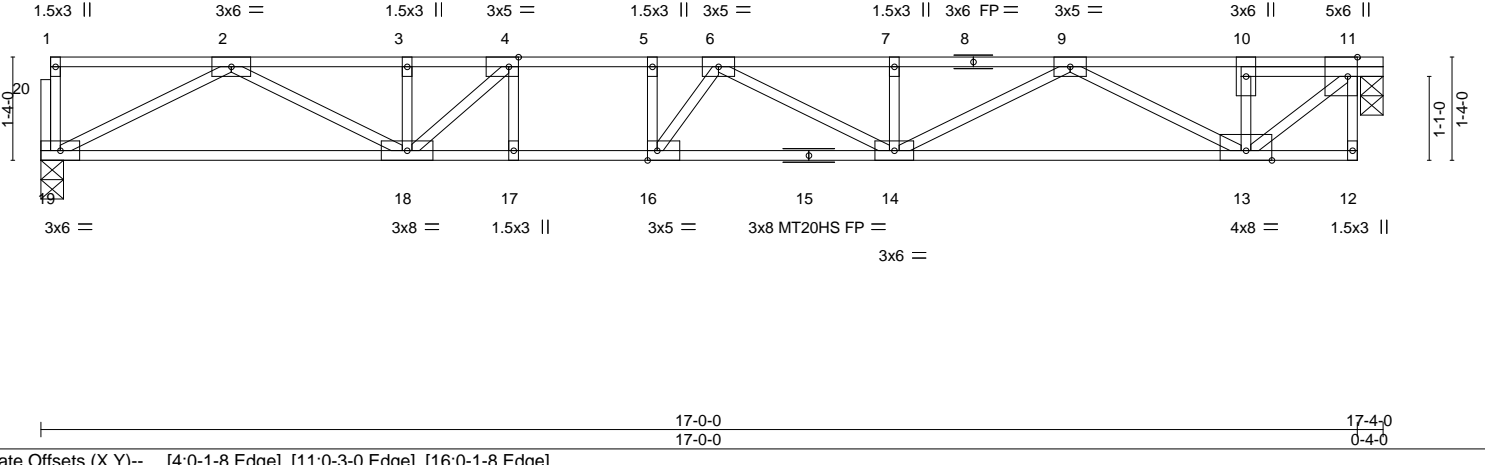


March 24, 2022

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1FB	Truss Type Floor	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214693
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:37 2022 Page 1
 ID:SyOeoqmDWZPys6ZdU1fppwypZbX-xXCxVtmO9P3Z9DC01OMwEEHaoHuKaPEzMEfdgzYFDe



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.96	Vert(LL) -0.27 14-16 >754 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.66	Vert(CT) -0.37 14-16 >544 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 91 lb	FT = 20%F, 11%E

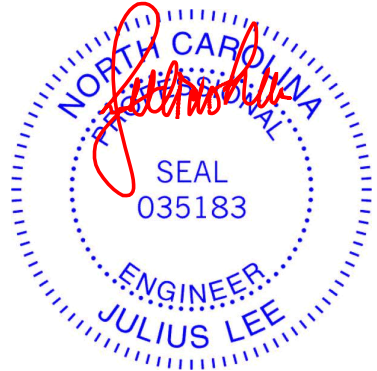
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.1(flat) *Except*
 12-15: 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 19=0-3-8, 11=0-3-8
 Max Grav 19=918(LC 1), 11=925(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2564/0, 3-4=-2564/0, 4-5=-3083/0, 5-6=-3083/0, 6-7=-2978/0, 7-9=-2978/0,
 9-10=-1064/0, 10-11=-1060/0
 BOT CHORD 18-19=0/1565, 17-18=0/3083, 16-17=0/3083, 14-16=0/3206, 13-14=0/2206
 WEBS 11-13=0/1380, 2-19=-1757/0, 2-18=0/1131, 4-18=-860/0, 9-13=-1298/0, 9-14=0/874,
 6-14=-374/0, 6-16=-405/224

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.

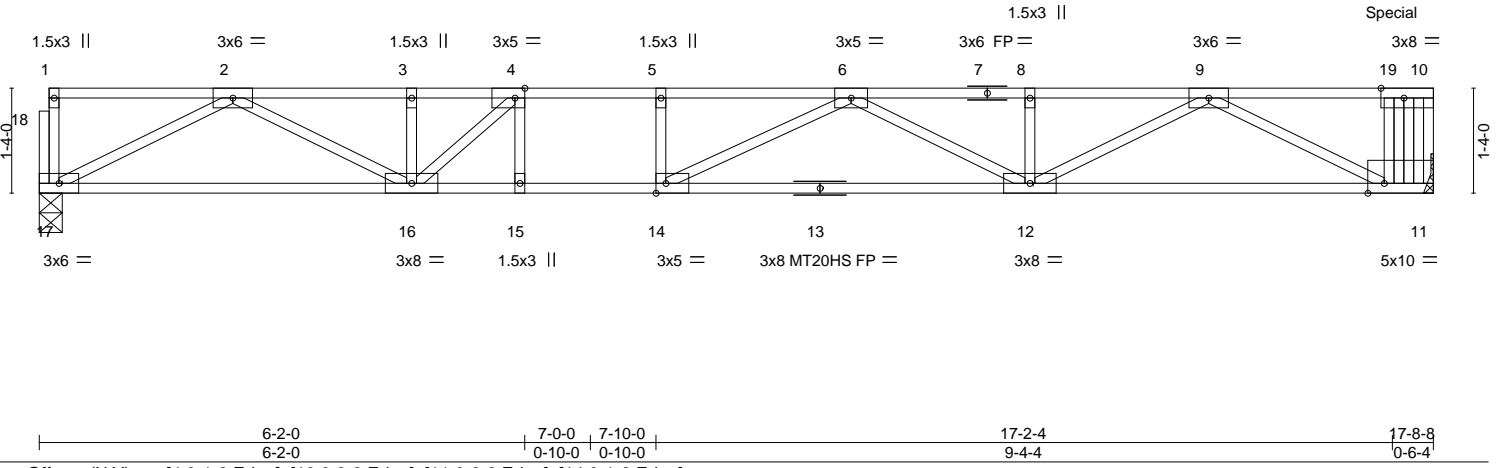
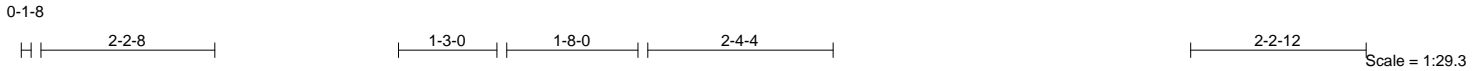


March 24, 2022

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1GRC	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214694
Carter Components (Lexington), Lexington, NC - 27295,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:40 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-L6u37vwfh4oeQdynhAx3Xssol?IAXy6hfJTKE_zYFDb



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.98	Vert(LL)	-0.33	12-14	>628	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.99	Vert(CT)	-0.47	12-14	>445	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.06	11	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 95 lb	FT = 20%F, 11%E

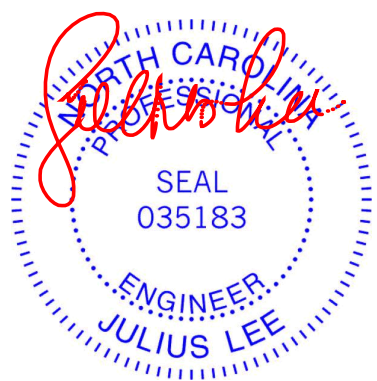
LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 1-7: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* 11-13: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=0-3-8, 11=Mechanical
Max Grav 17=966(LC 1), 11=1472(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-540/0, 2-3=-2733/0, 3-4=-2733/0, 4-5=-3388/0, 5-6=-3388/0, 6-8=-2991/0, 8-9=-2991/0
BOT CHORD 16-17=0/1655, 15-16=0/3388, 14-15=0/3388, 12-14=0/3494, 11-12=0/2065
WEBS 4-15=-4/290, 2-17=-1859/0, 2-16=0/1221, 4-16=-1045/0, 9-11=-2258/0, 9-12=0/1049, 6-12=-570/0, 6-14=-357/313

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 579 lb down at 17-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-17=-10, 1-10=-100
Concentrated Loads (lb)
Vert: 19=-524(B)



March 24, 2022

Job 22020373-02	Truss F1F	Truss Type FLOOR	Qty 3	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214695
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:36 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-TLeZHxt8drHCx0e0SKt7N0h8TOxhb8A5liV65DzYFDf



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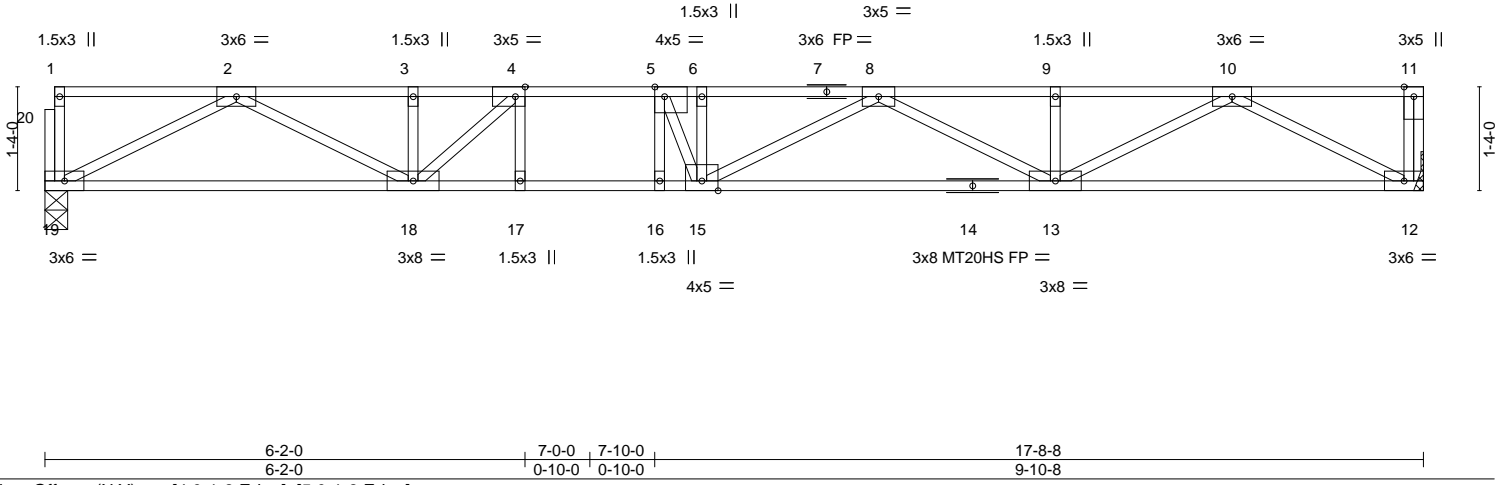


Plate Offsets (X, Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.88	Vert(LL) -0.26 15 >803 480	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.96	Vert(CT) -0.36 15 >583 360	MT20HS	187/143		
BCLL 0.0	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.05 12 n/a n/a			Weight: 93 lb	FT = 20%F, 11%E
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					

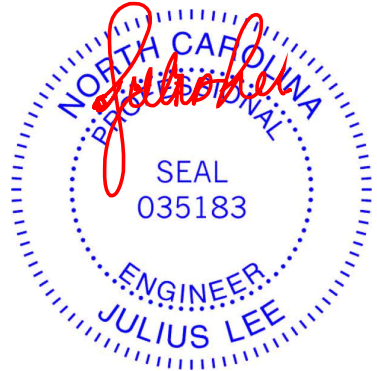
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
12-14: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-15.

REACTIONS. (size) 19=0-3-8, 12=Mechanical
Max Grav 19=954(LC 1), 12=960(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2697/0, 3-4=-2697/0, 4-5=-3267/0, 5-6=-3488/0, 6-8=-3488/0, 8-9=-2731/0, 9-10=-2731/0
BOT CHORD 18-19=0/1632, 17-18=0/3267, 16-17=0/3267, 15-16=0/3267, 13-15=0/3332, 12-13=0/1633
WEBS 4-17=-9/275, 5-16=-484/11, 2-19=-1833/0, 2-18=0/1206, 4-18=-905/0, 10-12=-1840/0, 10-13=0/1243, 8-13=-681/0, 8-15=0/349, 6-15=-385/20, 5-15=-168/806

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



March 24, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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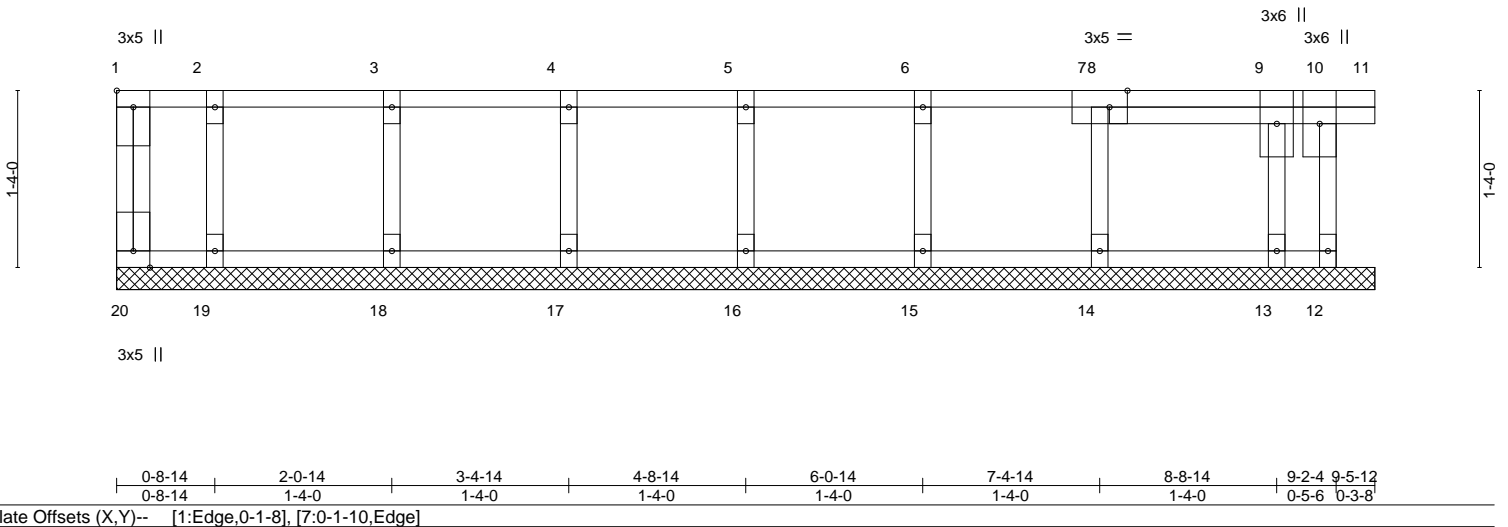
Job 22020373-02	Truss L1E	Truss Type GABLE	Qty 2	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214696
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:55 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-P?lkG1539hgWjwbf3pia0za62f0Yteu69bcGdzYFDM

0-3-8

Scale = 1:17.4



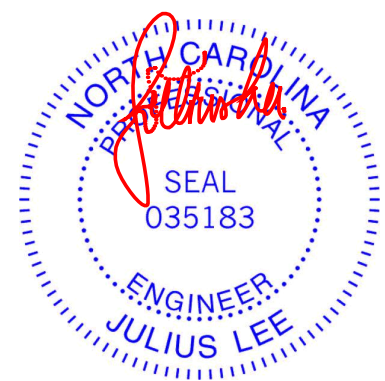
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) -0.00 10 n/r 180	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) -0.00 10 n/r 120		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 12 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-R		Weight: 46 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 9-5-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



March 24, 2022

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

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

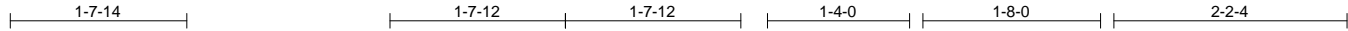
818 Soundside Road
Edenton, NC 27932

Job 22020373-02	Truss F1GR	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214697
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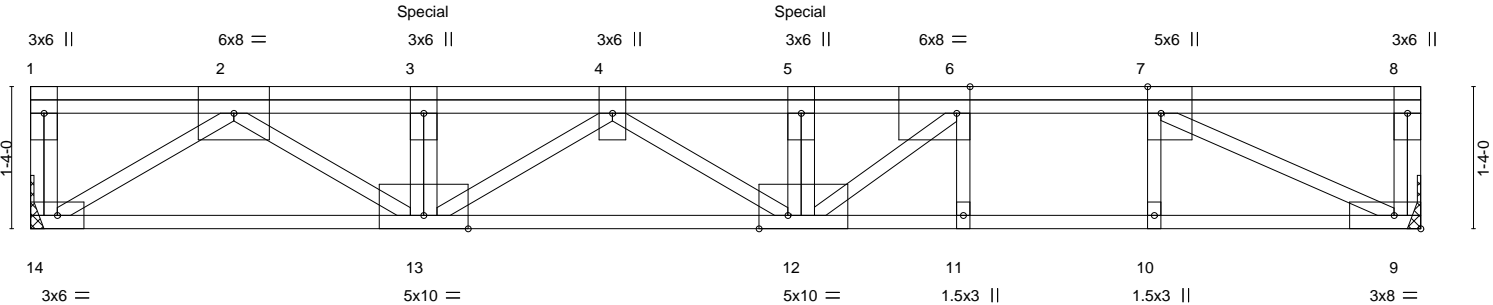
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:39 2022 Page 1

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Scale = 1:21.6



	3-8-4	7-2-12	8-9-12	9-7-12	10-5-12	13-0-8
	3-8-4	3-6-8	1-7-0	0-10-0	0-10-0	2-6-12
Plate Offsets (X, Y)--	[6:0-1-8,Edge], [7:0-3-0,Edge], [12:0-3-4,Edge]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.70	Vert(LL)	-0.17 11-12	>905	480	MT20	244/190
TCDL 17.0	Lumber DOL	1.00	BC 0.70	Vert(CT)	-0.26 11-12	>595	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.95	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 90 lb	FT = 20%F, 11%E

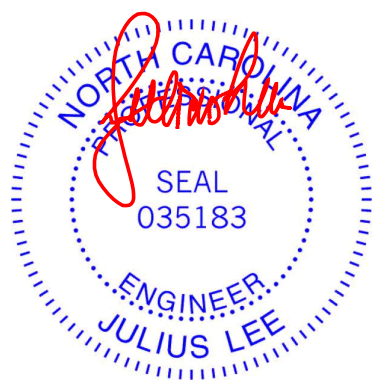
LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 14=Mechanical, 9=Mechanical
Max Grav 14=1291(LC 1), 9=1177(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3330/0, 3-4=-3331/0, 4-5=-4201/0, 5-6=-4211/0, 6-7=-2671/0
BOT CHORD 13-14=0/1831, 12-13=0/3834, 11-12=0/2671, 10-11=0/2671, 9-10=0/2671
WEBS 5-12=-1286/0, 3-13=-607/0, 2-14=-2177/0, 2-13=0/1783, 4-13=-600/0, 4-12=0/484, 7-9=-2966/0, 6-12=0/1990

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 463 lb down at 3-8-4, and 579 lb down at 7-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-114
Concentrated Loads (lb)
Vert: 5=-499(F) 3=-383(F)



March 24, 2022

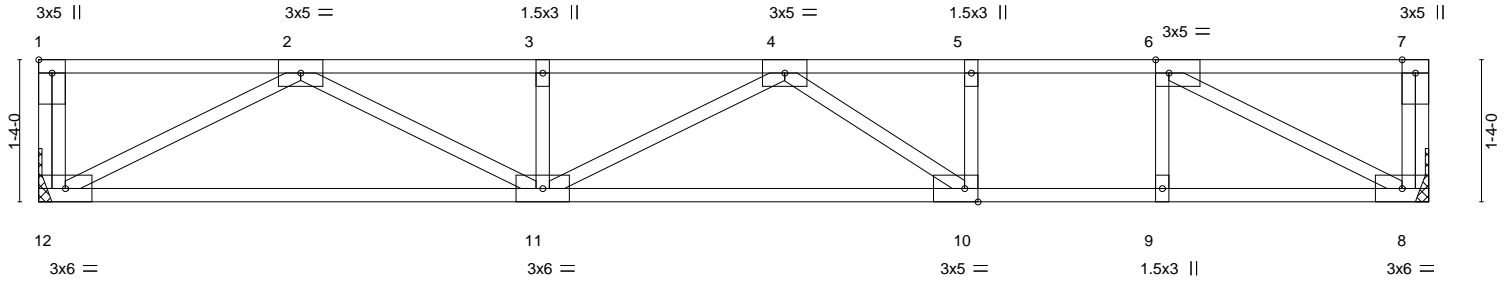
Job 22020373-02	Truss F1D	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214698
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:35 2022 Page 1
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-?94A4BsWsY9Lks3pucLuqp807_gEsviyW2lZZnzYFDg



Scale = 1:21.6



	8-9-12	9-7-12	10-5-12	13-0-8
	8-9-12	0-10-0	0-10-0	2-6-12
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge]			

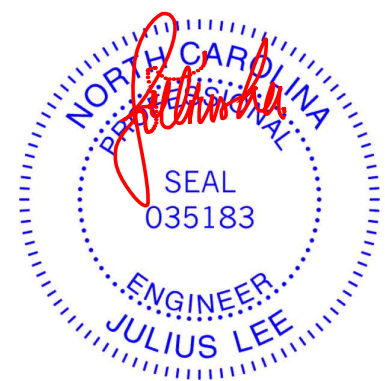
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 17.0	Plate Grip DOL 1.00	BC 0.65	Vert(LL) -0.24 10-11 >632 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.47	Vert(CT) -0.37 10-11 >414 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 68 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 12=Mechanical, 8=Mechanical
Max Grav 12=793(LC 1), 8=793(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1994/0, 3-4=-1994/0, 4-5=-1583/0, 5-6=-1583/0
BOT CHORD 11-12=0/1300, 10-11=0/2099, 9-10=0/1583, 8-9=0/1583
WEBS 6-9=0/265, 2-12=-1464/0, 2-11=0/785, 4-10=-683/0, 6-8=-1777/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 24, 2022

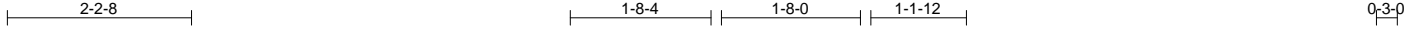
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1C	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214699
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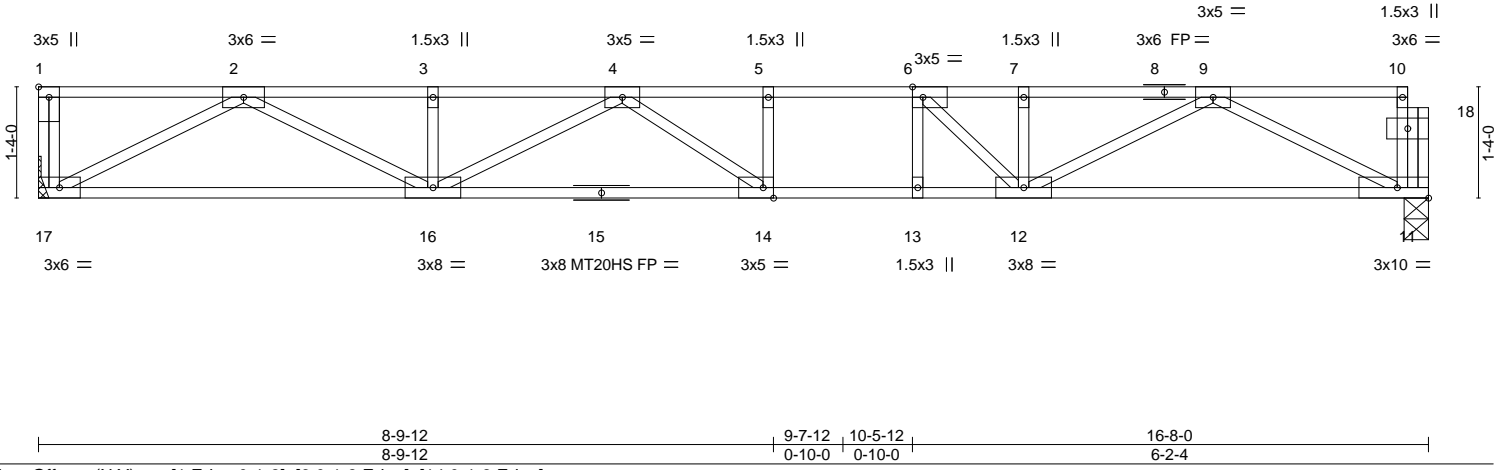
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:35 2022 Page 1

ID:SyOeoqmDWZPys6ZdU1fppwypZbX-?94A4BsWsY9LKs3puLuq8y5_bssisyW2lZZnzYFDg



Scale = 1:27.6



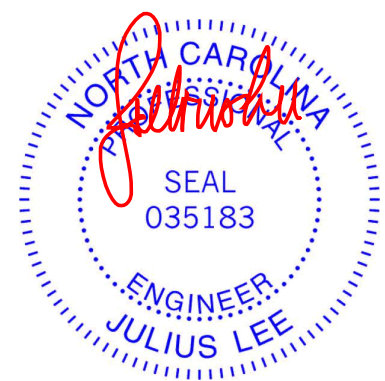
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.92	Vert(LL) -0.26 14-16 >745 480	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 1.00	Vert(CT) -0.37 14-16 >533 360	MT20HS 187/143	
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.05 11 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S			Weight: 87 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 11-15: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=Mechanical, 11=0-3-8
Max Grav 17=899(LC 1), 11=887(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2508/0, 3-4=-2508/0, 4-5=-2949/0, 5-6=-2949/0, 6-7=-2490/0, 7-9=-2490/0
BOT CHORD 16-17=0/1521, 14-16=0/2974, 13-14=0/2949, 12-13=0/2949, 11-12=0/1549
WEBS 2-17=-1713/0, 2-16=0/1118, 4-16=-528/0, 4-14=-246/327, 9-11=-1724/0, 9-12=0/1066, 6-12=-823/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



March 24, 2022

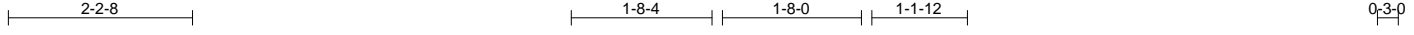
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1B	Truss Type FLOOR	Qty 1	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214701
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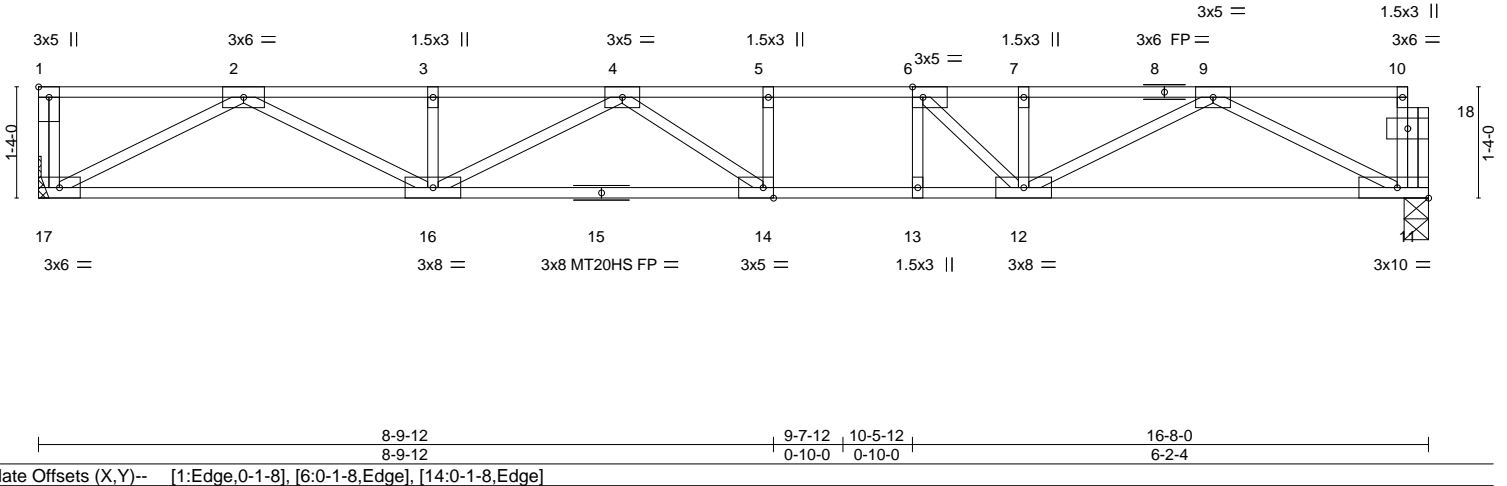
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:34 2022 Page 1

ID:SyOeoqmDWZPys6ZdU1fppwypZbX-WyWosrru5E1UiUdKvqflbcnLaFd7FcoHO0?1LzYFDh



Scale = 1:27.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.26	14-16	>745	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 1.00	Vert(CT)	-0.37	14-16	>533	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.05	11	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 87 lb	FT = 20%F, 11%E

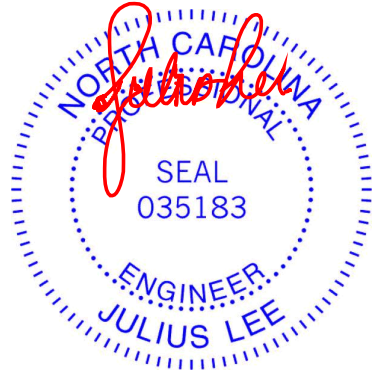
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
11-15: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 17=Mechanical, 11=0-3-8
Max Grav 17=899(LC 1), 11=887(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2508/0, 3-4=-2508/0, 4-5=-2949/0, 5-6=-2949/0, 6-7=-2490/0, 7-9=-2490/0
BOT CHORD 16-17=0/1521, 14-16=0/2974, 13-14=0/2949, 12-13=0/2949, 11-12=0/1549
WEBS 2-17=-1713/0, 2-16=0/1118, 4-16=-528/0, 4-14=-246/327, 9-11=-1724/0, 9-12=0/1066,
6-12=-823/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



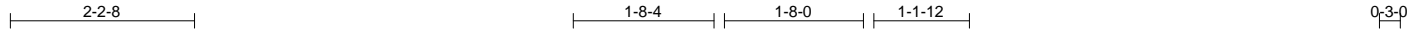
March 24, 2022

Job 22020373-02	Truss F1A	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214702
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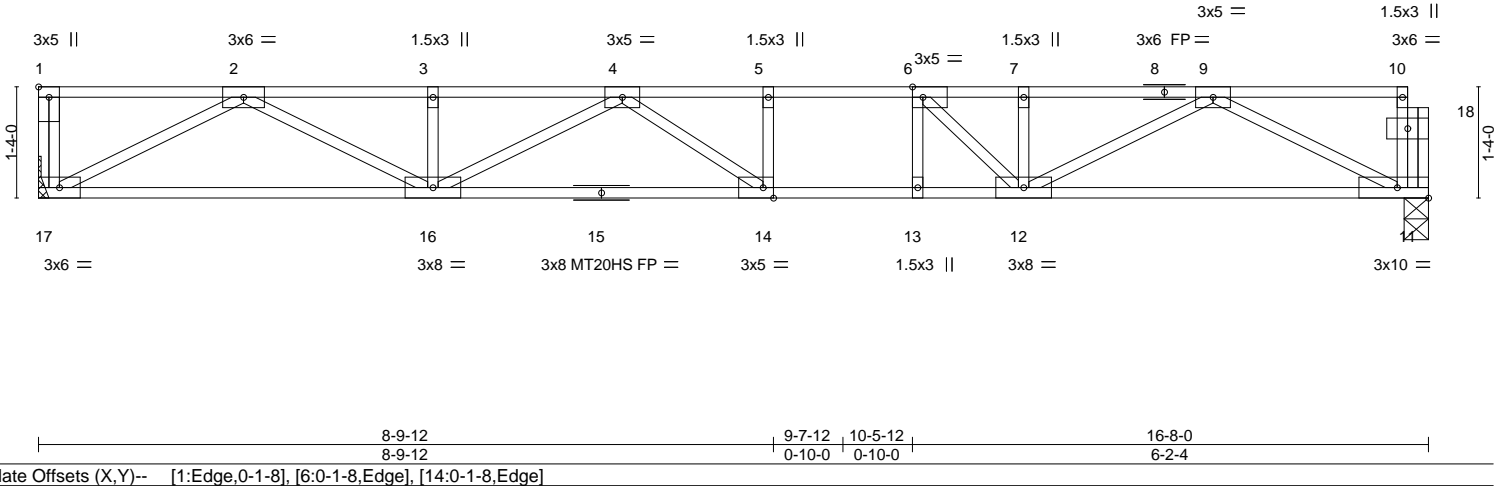
Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:33 2022 Page 1

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Scale = 1:27.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.73	Vert(LL)	-0.23 14-16	>866	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.77	Vert(CT)	-0.32 14-16	>619	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.05 11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 87 lb	FT = 20%F, 11%E

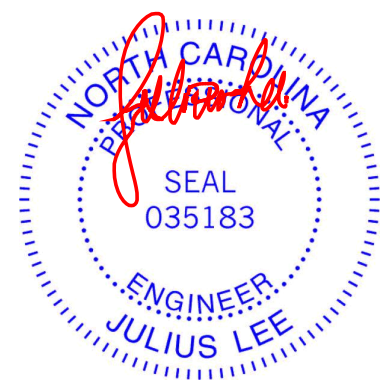
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat) *Except* 8-10: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 11-15: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=Mechanical, 11=0-3-8
Max Grav 17=911(LC 1), 11=953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2551/0, 3-4=-2551/0, 4-5=-3037/0, 5-6=-3037/0, 6-7=-2602/0, 7-9=-2602/0
BOT CHORD 16-17=0/1542, 14-16=0/3037, 13-14=0/3037, 12-13=0/3037, 11-12=0/1650
WEBS 2-17=-1737/0, 2-16=0/1142, 4-16=-551/0, 4-14=-214/355, 9-11=-1836/0, 9-12=0/1078, 6-12=-789/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) 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.
 - 5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-17=-10, 1-7=-100, 7-10=-117
 - 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-17=-10, 1-7=-100, 7-10=-117
 - 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-17=-10, 1-6=-100, 6-7=-20, 7-10=-37
 - 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00



March 24, 2022

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>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 22020373-02	Truss F1A	Truss Type FLOOR	Qty 4	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214702 Job Reference (optional)
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:33 2022 Page 2
ID:SyOeoqmDWZPys6ZdU1fppwypZbX-2mzQfWqGKwve4YvRnCJQIO3fXAY?OoBf2kGSUuzYFDi

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 11-17=-10, 1-5=-20, 5-7=-100, 7-10=-117

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 11-17=-10, 1-6=-100, 6-7=-20, 7-10=-37

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 11-17=-10, 1-5=-20, 5-7=-100, 7-10=-117

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 22020373-02	Truss F1	Truss Type FLOOR	Qty 8	Ply 1	Carolina Seasons Lot 9-Ph2 S2-3119 Elev 'A' Permit-Floor Truss T27214703
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Carter Components (Lexington), Lexington, NC - 27295,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 22:16:32 2022 Page 1

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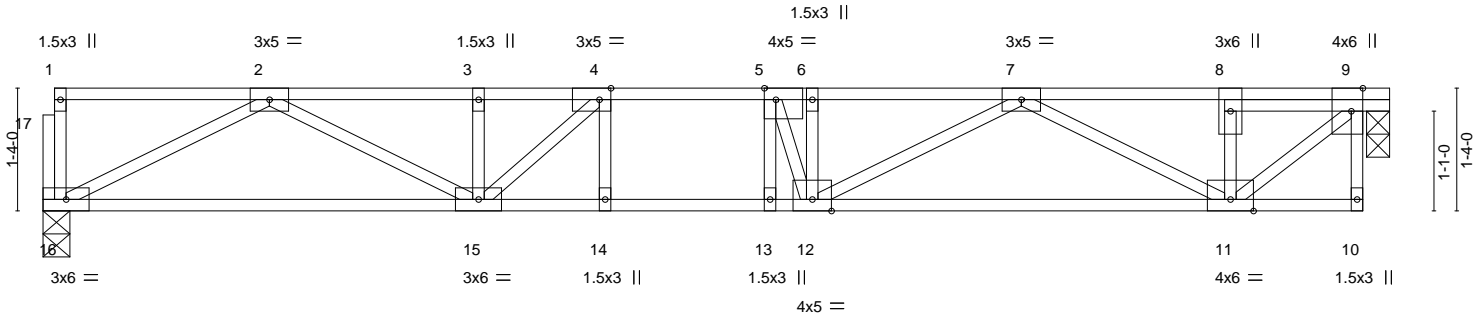
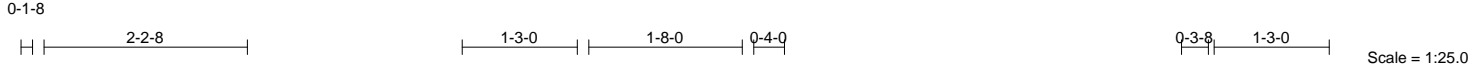


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge], [9:0-3-0,Edge]	14-4-0 14-4-0	14-7-8 0-3-8
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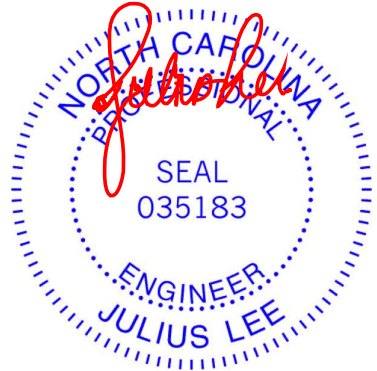
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.41	Vert(LL)	-0.12	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.16	13	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.01	9	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 79 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 16=0-3-8, 9=0-3-0
Max Grav 16=772(LC 1), 9=778(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2026/0, 3-4=-2026/0, 4-5=-2246/0, 5-6=-2246/0, 6-7=-2246/0, 7-8=-890/0, 8-9=-886/0
BOT CHORD 15-16=0/1283, 14-15=0/2246, 13-14=0/2246, 12-13=0/2246, 11-12=0/1765
WEBS 9-11=0/1154, 2-16=-1440/0, 2-15=0/842, 4-15=-488/0, 7-11=-996/0, 7-12=0/545, 6-12=-296/122, 5-12=-439/356

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 6) CAUTION, Do not erect truss backwards.

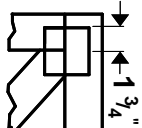


March 24, 2022

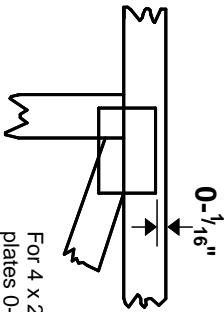
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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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

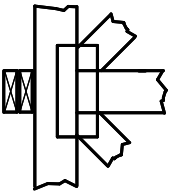
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



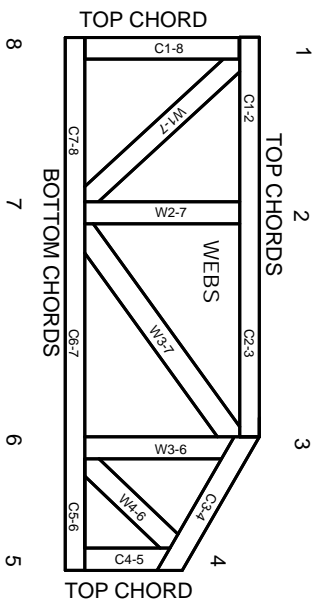
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 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 Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise 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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.