

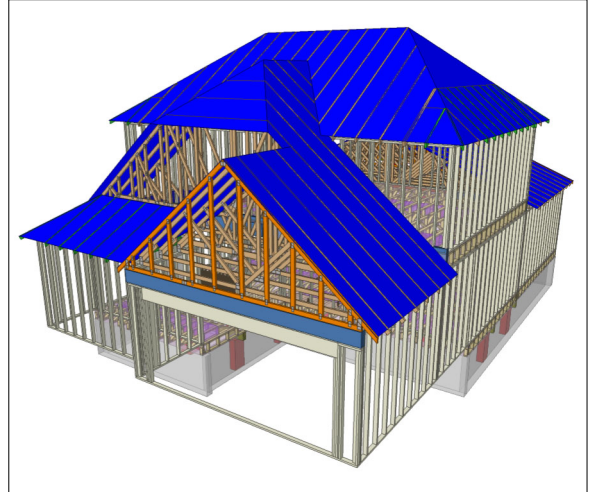


Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450

Builder: HH Hunt Homes Raleigh
Durham

Model: Taylor EA SP FL GRH



THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By: _____

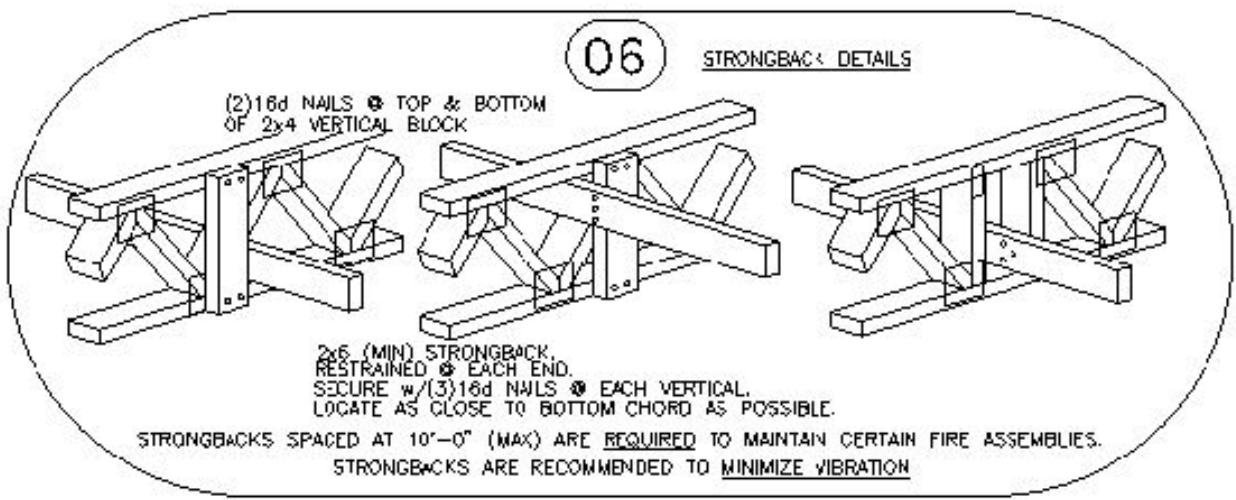
Date: _____

*** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

*** ALL POINT LOADS FROM ABOVE MUST BE TRANSFERRED TO BEARING FROM UNDER SIDE OF SHEATHING.

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS



1/1

CARTER®
Lumber

Revisions	
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name
00/00/00	Name

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 25040256-02
Install 4 Magnolia Acres-Crawl-Taylor EA SP FL GRH

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 (Sanford, NC)).

Pages or sheets covered by this seal: I73189750 thru I73189762

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 2, 2025

Johnson, Andrew

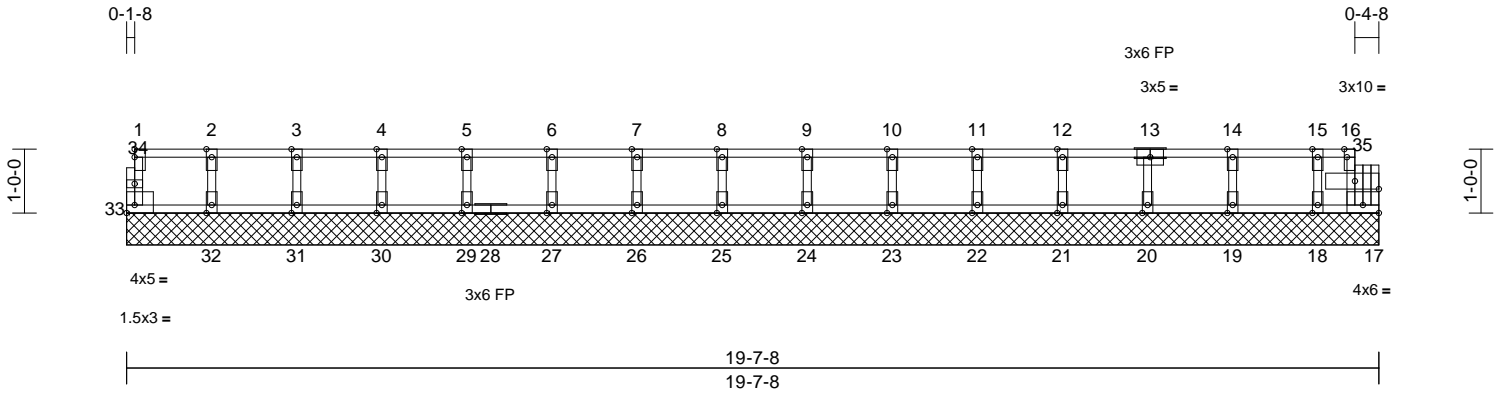
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	Install 4 Magnolia Acres-Crawl-Taylor EA SP FL GRH
25040256-02	F101	Floor Supported Gable	2	1	I73189750
Job Reference (optional)					

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:44
ID:AQeszeD3tDntKw?2oFdVj5zKxvO-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.1

Plate Offsets (X, Y): [16:0-1-8,Edge], [17:Edge,0-1-8], [33:Edge,0-1-8], [35:0-4-8,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 79 lb	FT = 11%F, 11%E

LUMBER	WEBS	2-32=	89/0,	3-31=	89/0,	4-30=	89/0,
TOP CHORD	2x4 SP No.2(flat)	5-29=	89/0,	6-27=	89/0,	7-26=	89/0,
BOT CHORD	2x4 SP No.2(flat)	8-25=	89/0,	9-24=	89/0,	10-23=	89/0,
WEBS	2x4 SP No.3(flat)	11-22=	88/0,	12-21=	91/0,	13-20=	88/0,
OTHERS	2x4 SP No.3(flat)	14-19=	91/0,	15-18=	69/0		

BRACING	NOTES
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) 17=19-7-8, 18=19-7-8, 19=19-7-8, 20=19-7-8, 21=19-7-8, 22=19-7-8, 23=19-7-8, 24=19-7-8, 25=19-7-8, 26=19-7-8, 27=19-7-8, 29=19-7-8, 30=19-7-8, 31=19-7-8, 32=19-7-8, 33=19-7-8
	Max Grav 17=15 (LC 1), 18=70 (LC 1), 19=100 (LC 1), 20=96 (LC 1), 21=100 (LC 1), 22=97 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=97 (LC 1), 32=100 (LC 1), 33=33 (LC 1)

23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=97 (LC 1), 32=100 (LC 1), 33=33 (LC 1)	LOAD CASE(S)	Standard
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May 2,2025

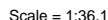
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

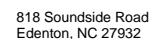
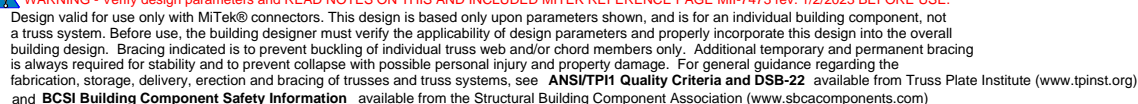
Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:45 Page: 1
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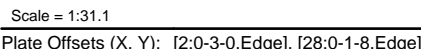
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.42	17-18	>554	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.58	17-18	>401	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TP12014	Matrix-SH							Weight: 97 lb	FT = 11%F, 11%E

1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 14-22=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 13=-379

May 2, 2025

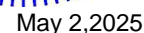


Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:45 Page: 1
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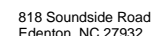
LUMBER			1) All plates are 1.5x3 MT20 unless otherwise indicated.
TOP CHORD	2x4 SP No.2(flat)		2) Gable requires continuous bottom chord bearing.
BOT CHORD	2x4 SP No.2(flat)		3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
WEBS	2x4 SP No.3(flat)		4) Gable studs spaced at 1'-4" oc.
OTHERS	2x4 SP No.3(flat)		5) All bearings are assumed to be SP No.2 .
BRACING			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.
TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.		7) Recommend 2x6 strongbacks, on edge, spaced at 10'-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.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.		8) CAUTION, Do not erect truss backwards.
REACTIONS	(size)	17=16'-4"-8, 18=16'-4"-8, 19=16'-4"-8, 20=16'-4"-8, 21=16'-4"-8, 22=16'-4"-8, 23=16'-4"-8, 24=16'-4"-8, 25=16'-4"-8, 26=16'-4"-8, 27=16'-4"-8, 28=16'-4"-8, 29=16'-4"-8.	LOAD CASE(S) Standard

NOTES



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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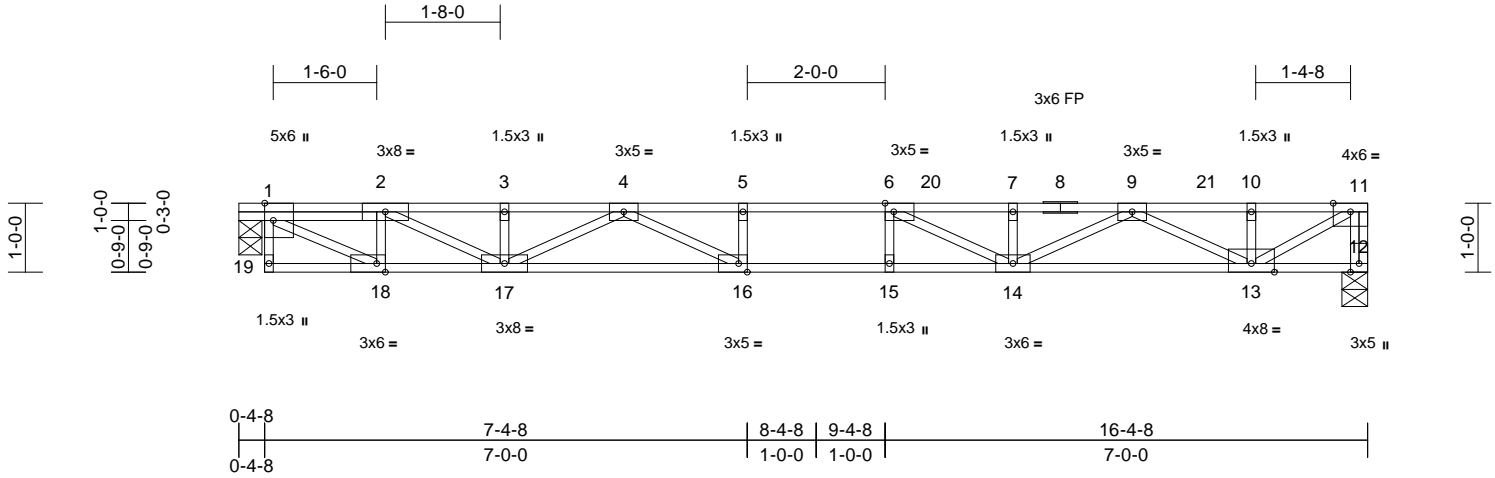


Job	Truss	Truss Type	Qty	Ply	Install 4 Magnolia Acres-Crawl-Taylor EA SP FL GRH
25040256-02	F104	Floor	10	1	I73189753
Job Reference (optional)					

Carter Components (Sanford, NC), Sanford, NC - 27332,

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Page: 1



Scale = 1:33.4

Plate Offsets (X, Y): [1:0-3-0,Edge], [6:0-1-8,Edge], [16:0-1-8,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.20	15-16	>938	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.28	15-16	>679	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 11%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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=0-4-0, 12=0-4-8
Max Grav 1=581 (LC 1), 12=586 (LC 1)

FORCES

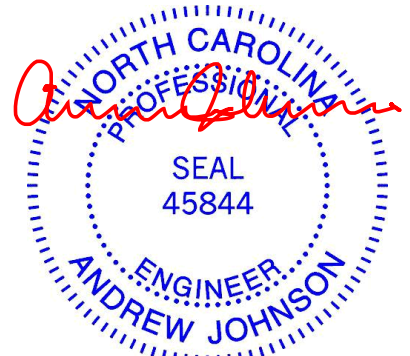
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-19=0/8, 11-12=-582/0, 1-2=-987/0, 2-3=-1792/0, 3-4=-1792/0, 4-5=-2592/0, 5-6=-2592/0, 6-7=-2285/0, 7-9=-2285/0, 9-10=-960/0, 10-11=-960/0
BOT CHORD 18-19=0/0, 17-18=0/985, 16-17=0/2304, 15-16=0/2592, 14-15=0/2592, 13-14=0/1736, 12-13=0/0
WEBS 2-18=-482/0, 1-18=0/1102, 2-17=0/897, 3-17=-116/0, 4-17=-574/0, 4-16=0/517, 5-16=-165/0, 6-15=-55/75, 6-14=-561/0, 7-14=-151/32, 9-14=0/616, 9-13=-870/0, 10-13=-128/0, 11-13=0/1100

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.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.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 12-19=-7, 1-3=-67, 3-20=-67, 20-21=-67, 11-21=-69



May 2,2025

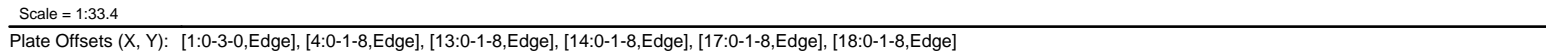
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

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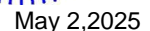
Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:45 Page: 1
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LUMBER					
TOP CHORD	2x4 SP No.2(flat)				
BOT CHORD	2x4 SP No.2(flat)				
WEBS	2x4 SP No.3(flat)				
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					
(size)	1=0-4-0, 12=0-8-0, 15=0-4-8				
Max Grav	1=358 (LC 3), 12=384 (LC 7), 15=870 (LC 1)				

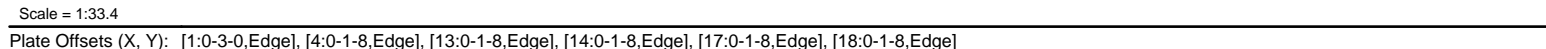
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2 .
- 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



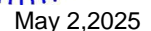
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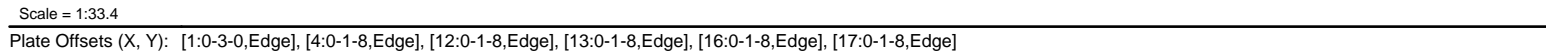


LUMBER			5) Recommend 2x6 longbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
TOP CHORD	2x4 SP No.2(flat)		
BOT CHORD	2x4 SP No.2(flat)		
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		
BRACING			6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.		7) CAUTION, Do not erect truss backwards.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS		(size)	
		1=0-4-0, 12=0-8-0, 15=0-4-8	
		Max Grav	
		1=279 (LC 3), 12=281 (LC 7), 15=620 (LC 1)	
FORCES		(lb) - Maximum Compression/Maximum Tension	
TOP CHORD		1-19=-1/2, 11-12=-52/0, 1-2=-445/0, 2-3=-562/0, 3-4=-562/0, 4-5=0/261, 5-7=0/260, 7-8=-605/0, 8-9=-605/0, 9-10=-605/0, 10-11=-4/0	
BOT CHORD		18-19=0/0, 17-18=0/444, 16-17=0/562, 15-16=0/562, 14-15=0/407, 13-14=0/605, 12-13=0/468	
WEBS		2-18=-188/0, 1-18=0/496, 5-15=-126/0, 2-17=-63/131, 3-17=-85/9, 4-16=0/68, 8-14=-122/0, 9-13=-182/0, 4-15=-694/0, 7-15=-570/0, 7-14=0/299, 10-12=-516/0, 10-13=0/265	

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2 .
- 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.



Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:45 Page: 1
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LUMBER			6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
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			7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.		8) CAUTION, Do not erect truss backwards.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS		(size)	1=0-4-0, 11=0-8-0, 14=0-4-8
	Max Grav	1=407 (LC 3), 11=299 (LC 7), 14=876 (LC 1)	
FORCES		(lb) - Maximum Compression/Maximum Tension	
TOP CHORD		1-18=-4/0, 10-11=-53/0, 1-2=-650/0, 2-3=-792/0, 3-4=-792/0, 4-5=0/338, 5-7=-681/335, 7-8=-681/0, 8-9=-681/0, 9-10=-4/0	
BOT CHORD		17-18=0/0, 16-17=0/648, 15-16=0/792, 14-15=0/792, 13-14=0/487, 12-13=0/681, 11-12=0/509	
WEBS		2-17=-276/0, 1-17=0/725, 5-14=-185/0, 2-16=-34/160, 3-16=-124/0, 4-15=0/89, 7-13=-129/0, 8-12=-218/0, 4-14=-1026/0, 6-14=-744/0, 6-13=0/294, 9-11=-563/0, 9-12=0/323	

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2 .
- 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



May 2, 2025

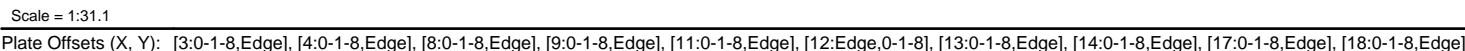
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPI 1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

ENGINEERING BY
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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:46 Page: 1
ID:mrzkKcBBaIPITSGT774o5TzKxvR-RfC?PsB70Hg3NSoPqnL8w3uITXBGWKWrCDoI7J4zJC?f



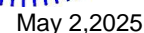
LUMBER		5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP No.2(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	6) CAUTION. Do not erect truss backwards.

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1)	Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		Uniform Loads (lb/ft) Vert: 12-19=-8, 1-3=-80, 3-7=-103, 7-9=-80, 9-11=-103
REACTIONS	(size) 12=0-8-0, 15=0-4-8, 19=0-4-8		

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-19=-51/0, 11-12=-79/0, 1-2=0/0, 2-3=-880/0, 3-4=-880/0, 4-5=-21/304, 5-7=-22/302, 7-8=-805/0, 8-9=-805/0, 9-10=-805/0, 10-11=-6/0
BOT CHORD	18-19=0/630, 17-18=0/880, 15-17=0/880, 14-15=0/573, 13-14=0/805, 12-13=0/641
WEBS	5-15=-196/0, 3-18=-117/0, 4-17=0/79, 8-14=-148/0, 9-13=-215/0, 2-19=-701/0, 2-18=0/274, 4-15=-1016/0, 7-15=-735/0, 7-14=0/367, 10-12=-707/0, 10-13=0/315

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP No.2 .
- 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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



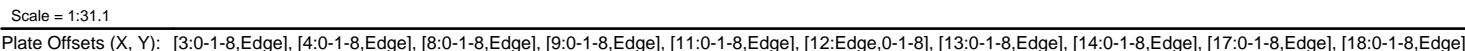
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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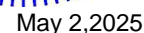
Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:46 Page: 1
ID: iE5UIIDR6wf0imQrEY6GBuzKxvP-RfC?PsB70Hq3NSaPanL8w3u1tXbGKWrcDai7J4zJC?f



LUMBER		5) Recommend 2x6 strongbacks, on edge, spaced at 10'-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.
TOP CHORD	2x4 SP No.2(flat)	6) CAUTION. Do not erect truss backwards.
BOT CHORD	2x4 SP No.2(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.	1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing	Uniform Loads (lb/ft) Vert: 12-19=-8, 1-8=-99, 8-11=-80

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP No.2 .
- 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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:46 Page: 1
ID: iE5UIIDR6wf0imQrEY6GBuzKxvP-RfC?PsB70Hq3NSaPanL8w3u1tXbGKWrcDai7J4zJC?f

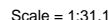


Plate Offsets (X, Y): [2:0-3-0,Edge], [28:0-1-8,Edge]

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

(size) 17=16-4-0, 18=16-4-0, 19=16-4-0,
20=16-4-0, 21=16-4-0, 22=16-4-0,
23=16-4-0, 24=16-4-0, 25=16-4-0,
26=16-4-0, 27=16-4-0, 28=16-4-0,
29=16-4-0
Max Grav 17=54 (LC 1), 18=105 (LC 1),
19=96 (LC 1), 20=98 (LC 1),
21=100 (LC 1), 22=89 (LC 1),
23=99 (LC 1), 24=106 (LC 1),
25=94 (LC 1), 26=103 (LC 1),
27=65 (LC 1), 28=78 (LC 1), 29=94
(LC 1)

FORCES

(Ib) - Maximum Compression/Maximum Tension

TOP CHORD 2-29=90/0, 16-17=0/30, 1-2=0/0, 2-3=-15/0,
3-4=-13/0, 4-5=-13/0, 5-6=-13/0, 6-7=-13/0,
7-8=-13/0, 8-10=-13/0, 10-11=-13/0,
11-12=-13/0, 12-13=-13/0, 13-14=-13/0,
14-15=-13/0, 15-16=0/0

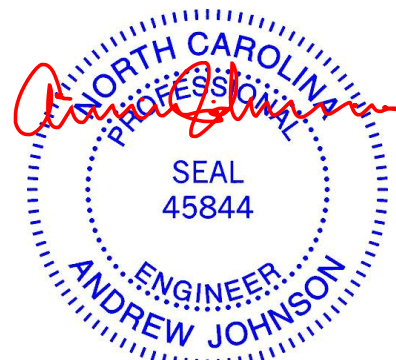
BOT CHORD 28-29=0/0, 27-28=0/13, 26-27=0/13,
25-26=0/13, 24-25=0/13, 23-24=0/13,
22-23=0/13, 21-22=0/13, 20-21=0/13,
19-20=0/13, 18-19=0/13, 17-18=0/13

WEBS 3-28=-74/0, 2-28=0/14, 8-23=-90/0,
4-27=-61/0, 5-26=-93/0, 6-25=-86/0,
7-24=-96/0, 10-22=-81/0, 11-21=-91/0,
12-20=-89/0, 13-19=-87/0, 14-18=-95/0,
15-17=-81/0

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) All bearings are assumed to be SP No.2 .
- 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 10-00-00 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.

LOAD CASE(S) Standard



May 2, 2025



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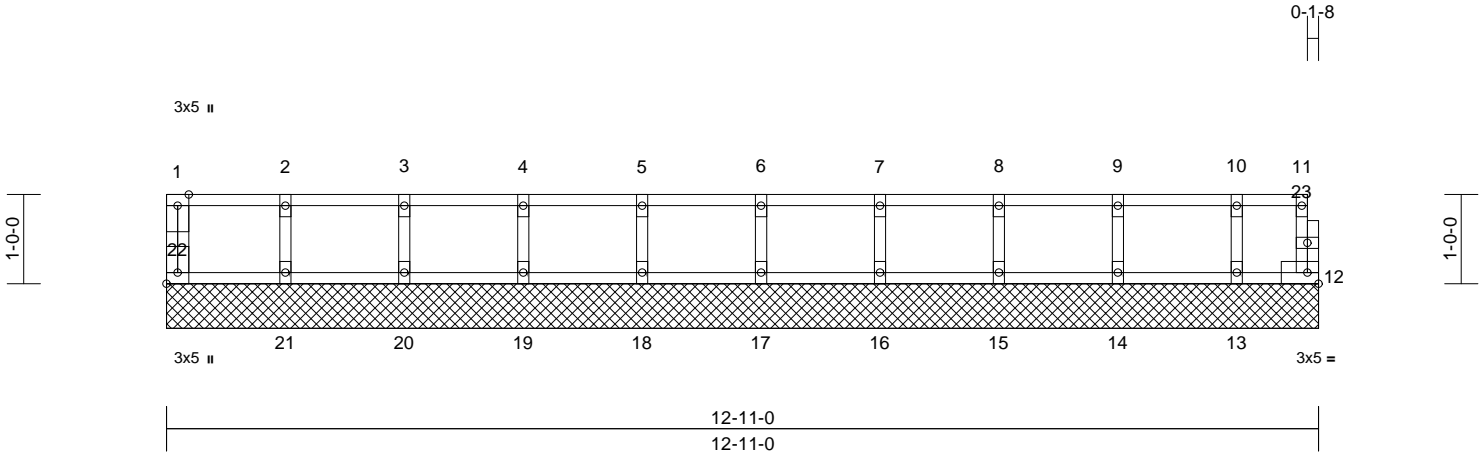
Job	Truss	Truss Type	Qty	Ply	Install 4 Magnolia Acres-Crawl-Taylor EA SP FL GRH
25040256-02	F111	Floor Supported Gable	2	1	I73189760
Job Reference (optional)					

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:46

Page: 1

ID:iE5UIIDR6wf0imQrEY6GBuzKxvP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



Scale = 1:25.8

Plate Offsets (X, Y): [22:Edge,0-1-8]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							
Weight: 52 lb FT = 11%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 (size)	12=12-11-0, 13=12-11-0, 14=12-11-0, 15=12-11-0, 16=12-11-0, 17=12-11-0, 18=12-11-0, 19=12-11-0, 20=12-11-0, 21=12-11-0, 22=12-11-0
Max Grav	12=26 (LC 1), 13=94 (LC 1), 14=122 (LC 1), 15=116 (LC 1), 16=118 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=118 (LC 1), 22=47 (LC 1)

FORCES

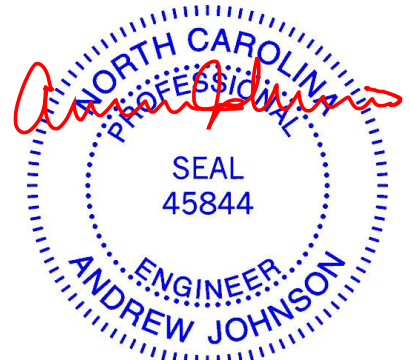
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-22=-44/0, 11-12=-21/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0
BOT CHORD	21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6, 13-14=0/6, 12-13=0/6
WEBS	2-21=-106/0, 3-20=-107/0, 4-19=-107/0, 5-18=-107/0, 6-17=-107/0, 7-16=-107/0, 8-15=-106/0, 9-14=-110/0, 10-13=-88/0

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) All bearings are assumed to be SP No.2 .
- 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 10-00-00 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.

LOAD CASE(S) Standard



May 2,2025

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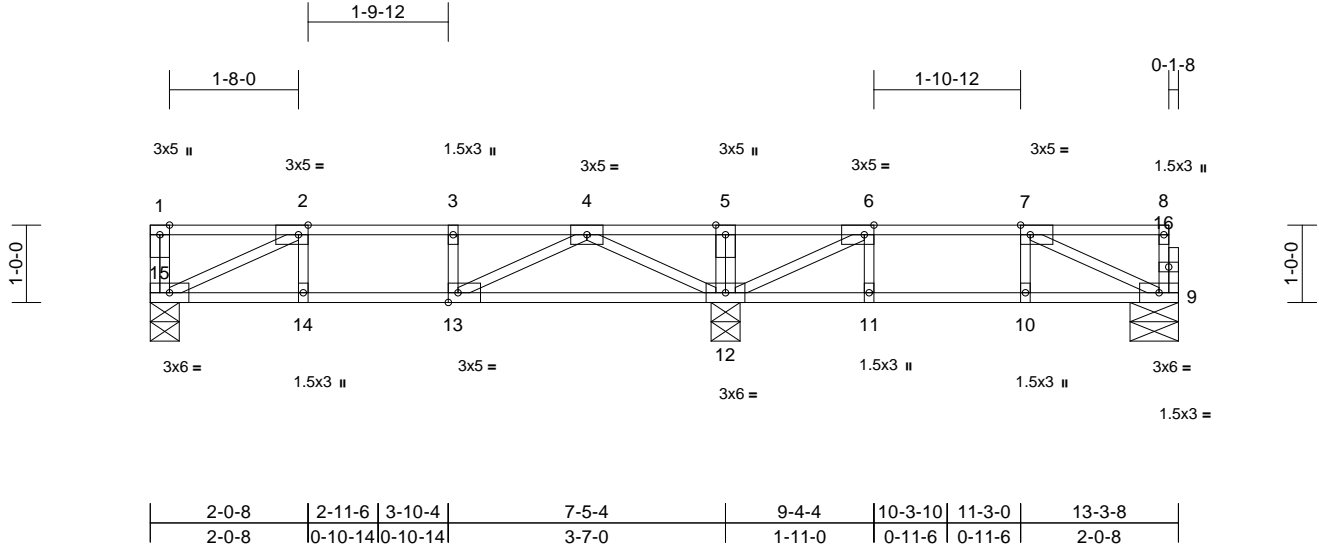
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 4 Magnolia Acres-Crawl-Taylor EA SP FL GRH
25040256-02	F112	Floor	6	1	I73189761
Job Reference (optional)					

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:46
ID:iE5UIIDR6wf0imQrEY6GBuzKxvP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:29.8

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.04	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.06	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 64 lb	FT = 11%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 6-0-0 oc
bracing.

REACTIONS (size) 9=0-7-8, 12=0-4-8, 15=0-4-8
Max Grav 9=231 (LC 4), 12=649 (LC 9),
15=299 (LC 10)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-15=-58/9, 8-9=-71/0, 1-2=0/0, 2-3=-546/0,
3-4=-546/0, 4-5=0/310, 5-6=0/310,
6-7=-337/18, 7-8=-5/0

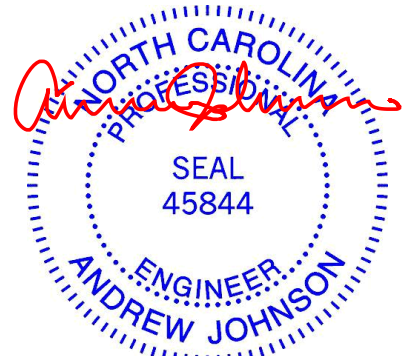
BOT CHORD 14-15=0/546, 13-14=0/546, 12-13=0/370,
11-12=-18/337, 10-11=-18/337, 9-10=-18/337

WEBS 5-12=-134/0, 6-12=-569/0, 7-9=-368/22,
4-12=-622/0, 2-15=-603/0, 4-13=0/265,
2-14=0/52, 3-13=-114/0, 6-11=0/52,
7-10=-27/3

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



May 2,2025

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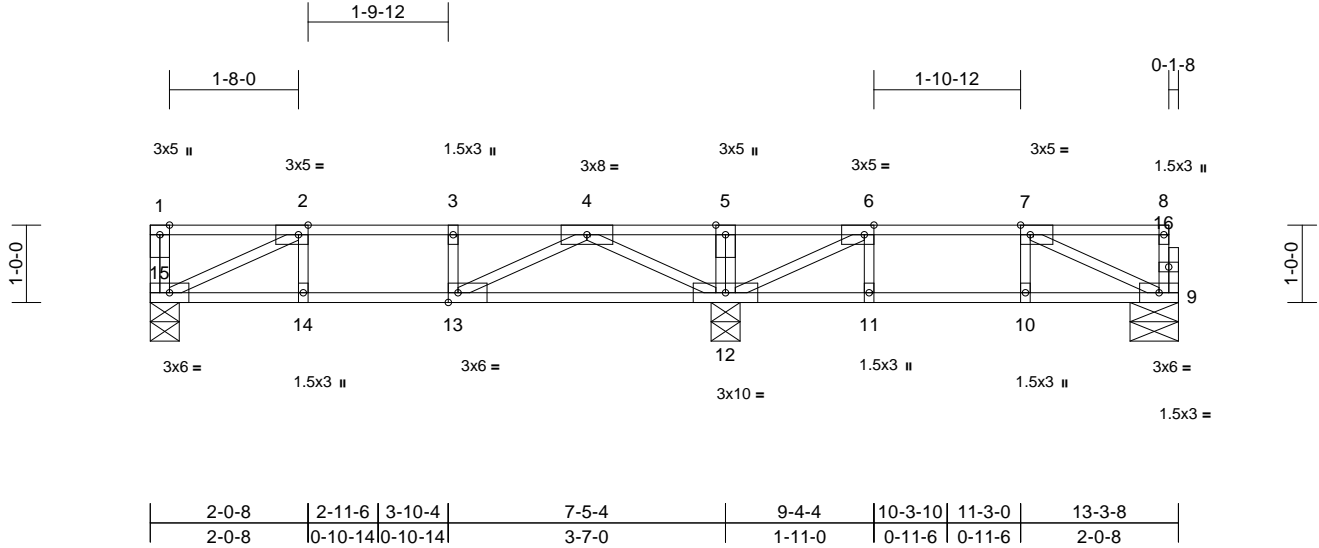
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 4 Magnolia Acres-Crawl-Taylor EA SP FL GRH
25040256-02	F113	Floor	4	1	I73189762
Job Reference (optional)					

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri May 02 06:19:46
ID:iE5UIIDR6wf0imQrEY6GBuzKxvP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:29.8

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.04	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.22	12-13	>405	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 64 lb	FT = 11%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(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 6-0-0 oc bracing.

REACTIONS (size) 9=0-7-8, 12=0-4-8, 15=0-4-8
Max Uplift 9=-111 (LC 3)
Max Grav 9=90 (LC 4), 12=1283 (LC 9), 15=544 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=0/75, 8-9=-112/0, 1-2=0/0, 2-3=-1333/0, 3-4=-1333/0, 4-5=0/1222, 5-6=0/1222, 6-7=0/476, 7-8=-8/0
BOT CHORD 14-15=0/1333, 13-14=0/1333, 12-13=0/462, 11-12=-476/0, 10-11=-476/0, 9-10=-476/0
WEBS 5-12=-49/33, 6-12=-1071/0, 7-9=0/531, 4-12=-1739/0, 2-15=-1474/0, 4-13=0/1044, 2-14=0/219, 3-13=-608/0, 6-11=0/140, 7-10=-130/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.1 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-15=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 3=-739



May 2,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek 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/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

