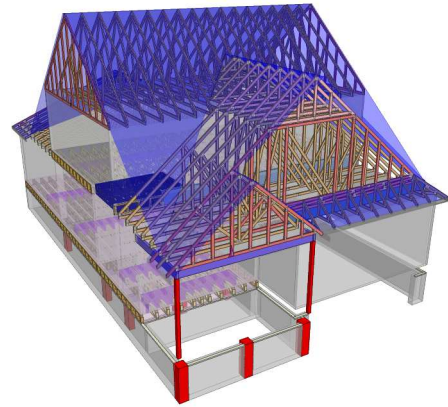




Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450



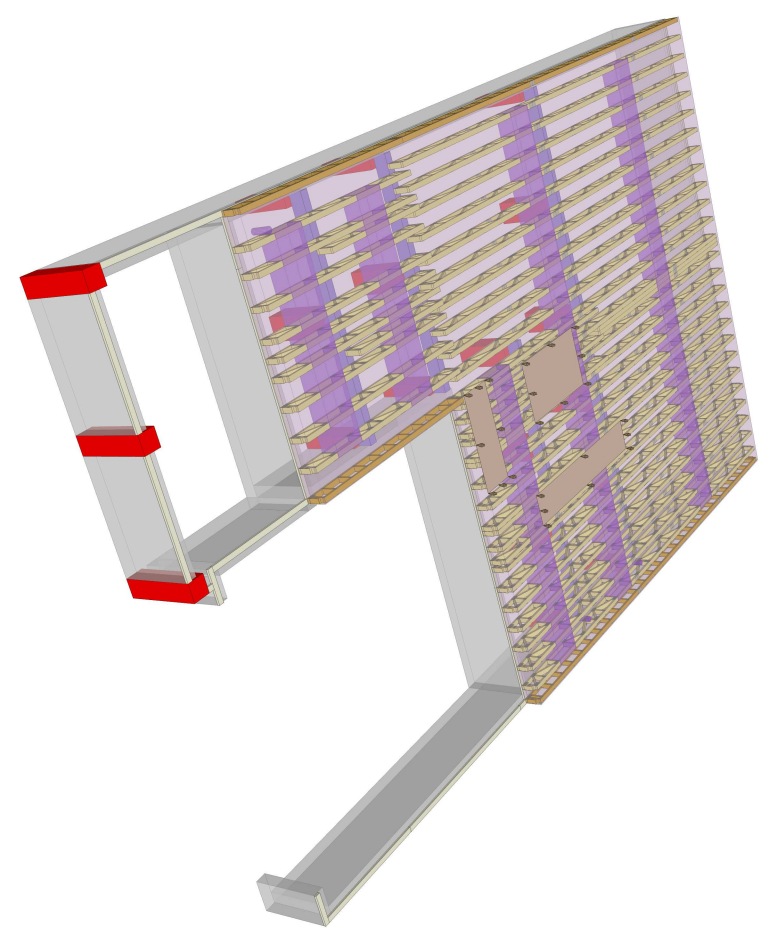
Builder: HH HUNT
Model: LOT 54MA

THE PLACEMENT PLAN NOTES:

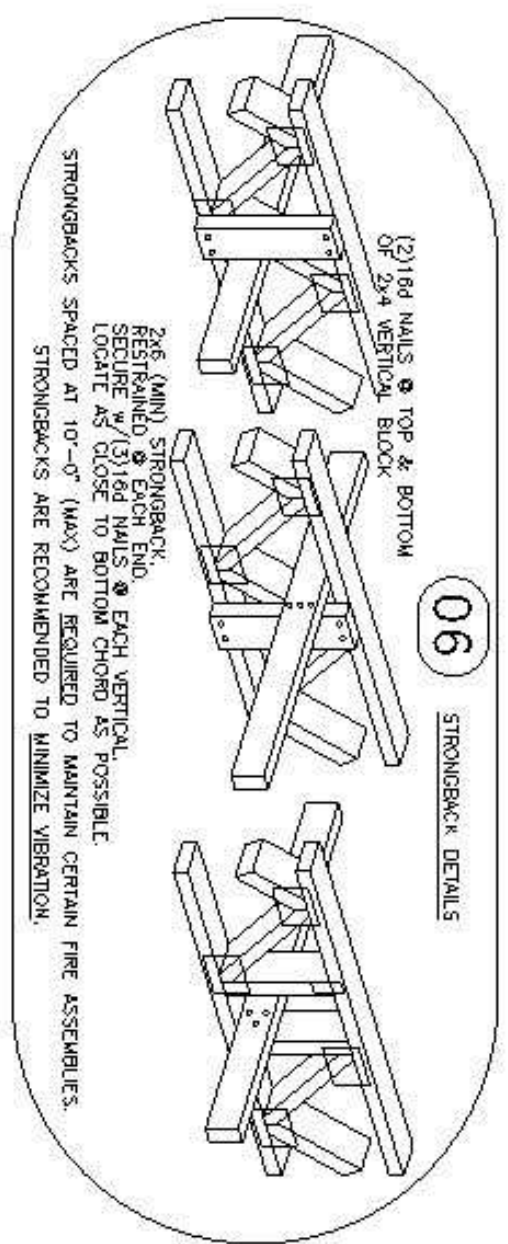
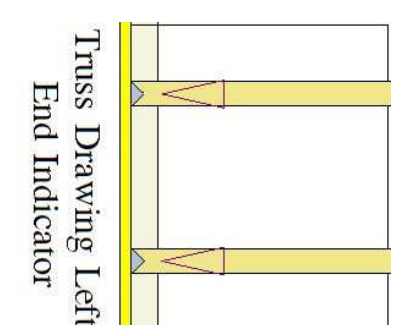
1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, 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.

Approved by: _____

Date: _____



FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. ** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE COMPONENT PLANT. ** ALL BEARING POINTS MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS.



TRIANGULAR SYMBOL NEAR END OF TRUSS INDICATES LEFT END OF TRUSS AS SHOWN ON INDIVIDUAL TRUSS DRAWINGS.

PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES.

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.



ALL BUILDING DIMENSIONS ARE TO FACE OF CMU

PRELIMINARY - NOT FOR CONSTRUCTION

** GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

Scale:	NTS
Date:	6/11/2025
Designer:	TL
Project Number:	25060054
Sheet Number:	1/3

HH HUNT
LOT 54MA
1ST FLOOR TRUSS PLACEMENT PLAN



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the tuss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

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

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 25060054-02

54 Magnolia Acers-Crawl-Taylor BB RH FL

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: I74128775 thru I74128789

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

North Carolina COA: C-0844



June 12, 2025

Gilbert, Eric

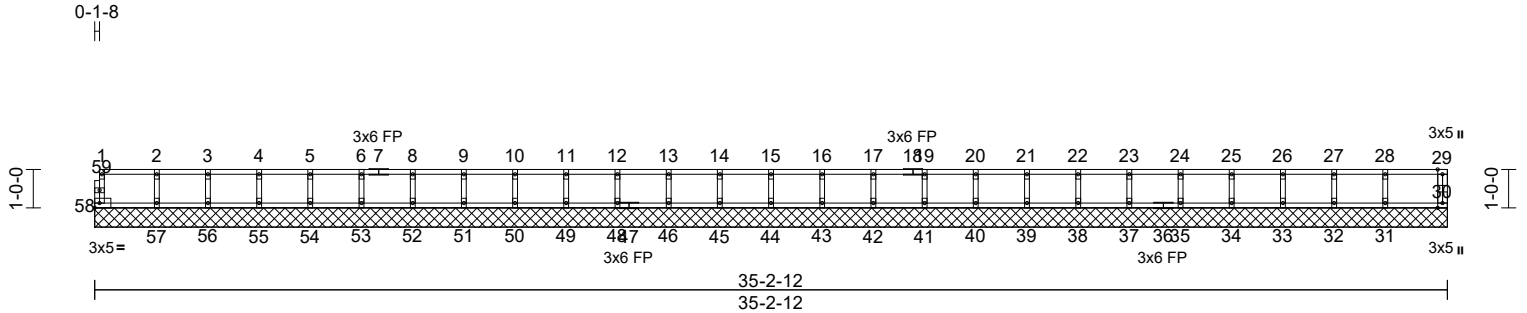
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 25060054-02	Truss F101	Truss Type Floor Supported Gable	Qty 1	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128775
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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. Wed Jun 11 09:24:29
ID:oXD2wD5HUuT_SA?yvEeWVz7sVx-RfC?PsB70Hq3NSgPqL8w3uITxBGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:60

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	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	0.02	Horiz(TL)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 137 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 (size)

30=35-2-12, 31=35-2-12, 32=35-2-12, 33=35-2-12, 34=35-2-12, 35=35-2-12, 37=35-2-12, 38=35-2-12, 39=35-2-12, 40=35-2-12, 41=35-2-12, 42=35-2-12, 43=35-2-12, 44=35-2-12, 45=35-2-12, 46=35-2-12, 48=35-2-12, 49=35-2-12, 50=35-2-12, 51=35-2-12, 52=35-2-12, 53=35-2-12, 54=35-2-12, 55=35-2-12, 56=35-2-12, 57=35-2-12, 58=35-2-12	
Max Grav	30=53 (LC 1), 31=107 (LC 1), 32=95 (LC 1), 33=98 (LC 1), 34=98 (LC 1), 35=98 (LC 1), 37=98 (LC 1), 38=98 (LC 1), 39=98 (LC 1), 40=98 (LC 1), 41=98 (LC 1), 42=98 (LC 1), 43=98 (LC 1), 44=98 (LC 1), 45=98 (LC 1), 46=98 (LC 1), 48=98 (LC 1), 49=98 (LC 1), 50=98 (LC 1), 51=98 (LC 1), 52=98 (LC 1), 53=98 (LC 1), 54=98 (LC 1), 55=98 (LC 1), 56=95 (LC 1), 57=107 (LC 1), 58=49 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-58=-45/0, 29-30=-48/0, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-8=-12/0, 8-9=-12/0, 9-10=-12/0, 10-11=-12/0, 11-12=-12/0, 12-13=-12/0, 13-14=-12/0, 14-15=-12/0, 15-16=-12/0, 16-17=-12/0, 17-19=-12/0, 19-20=-12/0, 20-21=-12/0, 21-22=-12/0, 22-23=-12/0, 23-24=-12/0, 24-25=-12/0, 25-26=-12/0, 26-27=-12/0, 27-28=-12/0, 28-29=-12/0
BOT CHORD	57-58=0/12, 56-57=0/12, 55-56=0/12, 54-55=0/12, 53-54=0/12, 52-53=0/12, 51-52=0/12, 50-51=0/12, 49-50=0/12, 48-49=0/12, 46-48=0/12, 45-46=0/12, 44-45=0/12, 43-44=0/12, 42-43=0/12, 41-42=0/12, 40-41=0/12, 39-40=0/12, 38-39=0/12, 37-38=0/12, 35-37=0/12, 34-35=0/12, 33-34=0/12, 32-33=0/12, 31-32=0/12, 30-31=0/12
WEBS	15-44=-89/0, 14-45=-89/0, 13-46=-89/0, 12-48=-89/0, 11-49=-89/0, 10-50=-89/0, 9-51=-89/0, 8-52=-89/0, 6-53=-89/0, 5-54=-89/0, 4-55=-89/0, 3-56=-87/0, 2-57=-97/0, 16-43=-89/0, 17-42=-89/0, 19-41=-89/0, 20-40=-89/0, 21-39=-89/0, 22-38=-89/0, 23-37=-89/0, 24-35=-89/0, 25-34=-89/0, 26-33=-89/0, 27-32=-87/0, 28-31=-97/0

- 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" oc.
 - 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 10-0-0 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.
- LOAD CASE(S)** Standard



June 12, 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 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.sbcacomponents.com)



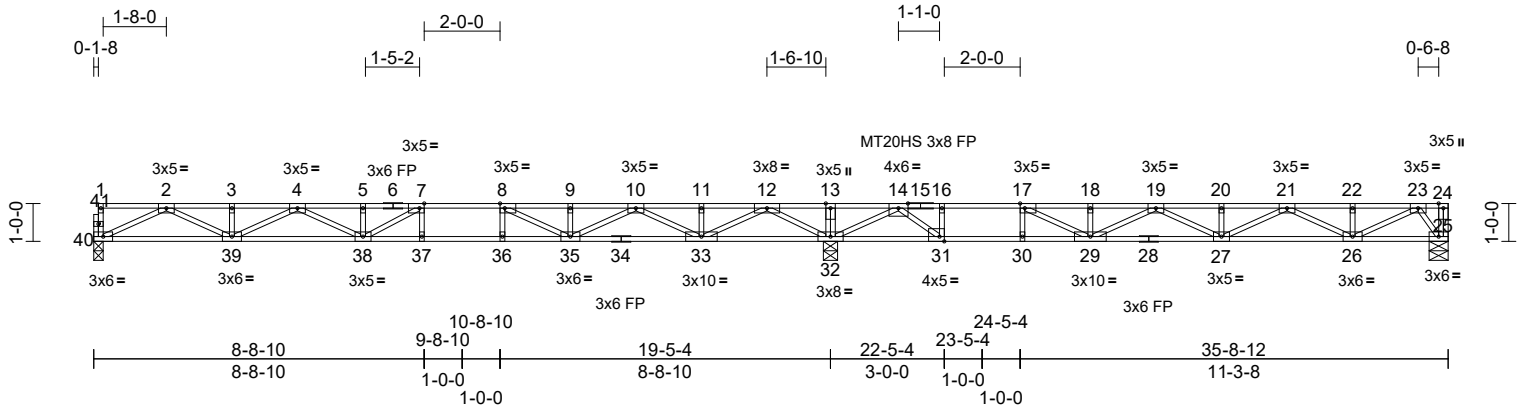
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F102	Truss Type Floor	Qty 10	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128776
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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. Wed Jun 11 09:24:30
ID:o9j7nzzDM4_8uj6wyNjCtdz7n4o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?F

Page: 1



Scale = 1:60.8

Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,Edge], [17:0-1-8,Edge], [31:0-1-8,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	0.96	Vert(LL)	-0.33	37-38	>701	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.45	37-38	>519	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.05	25	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH								
											Weight: 174 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* 15-24:2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 28-25:2x4 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 25=0-6-0, 32=0-4-8, 40=0-3-0
Max Grav 25=535 (LC 4), 32=1543 (LC 1), 40=612 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-40=-48/0, 24-25=-1/0, 1-2=-3/0, 2-3=-1969/0, 3-4=-1969/0, 4-5=-2891/0, 5-7=-2891/0, 7-8=-2857/0, 8-9=-2255/0, 9-10=-2255/0, 10-11=-626/235, 11-12=-626/235, 12-13=0/2393, 13-14=0/2394, 14-16=-1204/972, 16-17=-1204/972, 17-18=-2162/381, 18-19=-2162/381, 19-20=-2152/37, 20-21=-2152/37, 21-22=-1243/0, 22-23=-1243/0, 23-24=0/0
BOT CHORD 39-40=0/1135, 38-39=0/2542, 37-38=0/2857, 36-37=0/2857, 35-36=0/2857, 33-35=0/1566, 32-33=-981/0, 31-32=-1496/160, 30-31=-972/1204, 29-30=-972/1204, 27-29=-212/2215, 26-27=0/1803, 25-26=0/402

WEBS
7-37=-156/24, 8-36=0/167, 13-32=-198/0, 16-31=-697/0, 17-30=-281/0, 2-40=-1259/0, 2-39=0/935, 3-39=-113/0, 4-39=-641/0, 4-38=0/391, 5-38=-184/0, 7-38=-255/362, 8-35=-909/0, 9-35=-116/64, 10-35=0/804, 10-33=-1086/0, 11-33=-121/0, 12-33=0/1441, 12-32=-1598/0, 14-32=-1501/0, 14-31=0/1546, 17-29=0/1388, 18-29=-355/0, 19-29=-219/0, 19-27=-71/196, 20-27=-135/0, 21-27=-93/392, 21-26=-627/45, 22-26=-118/0, 23-26=0/942, 23-25=-664/0

- 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) Bearings are assumed to be: Joint 40 SP No.1, Joint 32 SP No.1, Joint 25 SP No.2.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40.
 - 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) Required 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



June 12, 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.sbcacomponents.com)



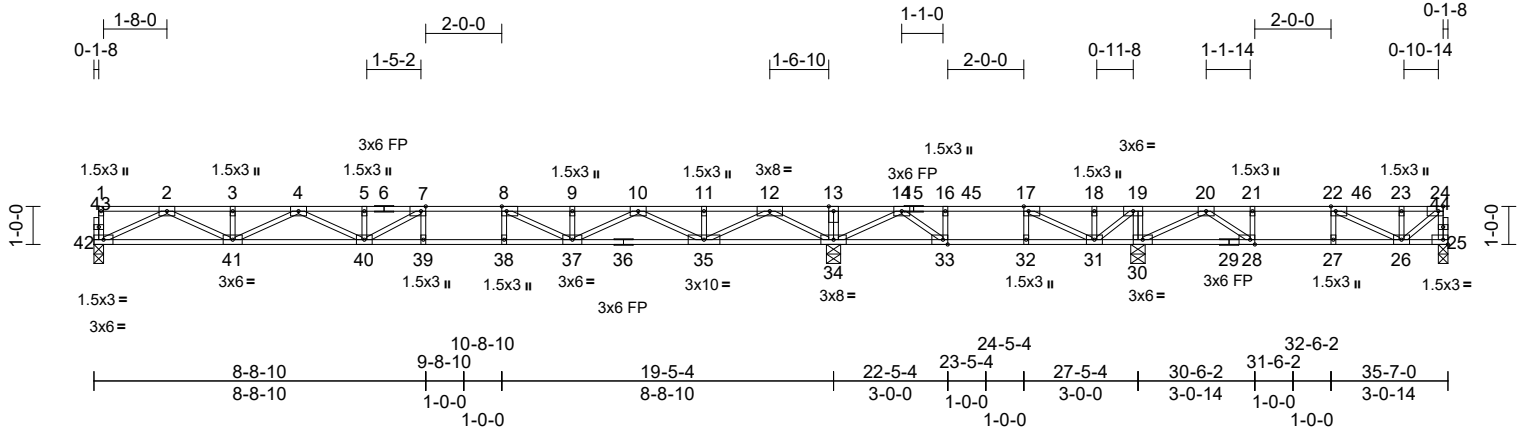
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F103	Truss Type Floor	Qty 1	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128777
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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. Wed Jun 11 09:24:30
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Page: 1



Scale = 1:60.6

Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,Edge], [17:0-1-8,Edge], [22:0-1-8,Edge], [24:0-1-8,Edge], [28:0-1-8,Edge], [33:0-1-8,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	0.88	Vert(LL)	-0.34	39-40	>689	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.46	39-40	>504	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	34	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 172 lb	FT = 20%F, 11%E

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 42-36:2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

WEBS	
7-39	=-136/45, 8-38=-21/147, 13-34=-159/0, 16-33=-297/0, 17-32=-107/0, 19-30=-339/0, 21-28=-208/0, 22-27=-65/0, 2-42=-1282/0, 2-41=0/958, 3-41=-112/0, 4-41=-664/0, 4-40=0/411, 5-40=-174/12, 7-40=-338/284, 8-37=-825/0, 9-37=-126/56, 10-37=0/768, 10-35=-1046/0, 11-35=-119/0, 12-35=0/1368, 12-34=-1553/0, 14-34=-823/0, 14-33=0/657, 17-31=-229/438, 18-31=-175/0, 19-31=-54/381, 20-30=-712/0, 20-28=0/477, 22-26=-171/176, 23-26=-170/0, 24-26=0/387

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)	
	25=0-3-0, 30=0-4-8, 34=0-4-8, 42=0-3-0	
	Max Grav	25=268 (LC 4), 30=610 (LC 4), 34=1231 (LC 16), 42=622 (LC 5)

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x5 MT20 unless otherwise indicated.
 - 3) Bearings are assumed to be: Joint 42 SP No.1, Joint 34 SP No.2, Joint 30 SP No.2, Joint 25 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.
 - 6) Required 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.
 - 7) CAUTION, Do not erect truss backwards.

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-42=-48/0, 24-25=-271/0, 1-2=-3/0, 2-3=-2011/0, 3-4=-2011/0, 4-5=-2969/0, 5-7=-2969/0, 7-8=-2969/0, 8-9=-2403/0, 9-10=-2403/0, 10-11=-810/0, 11-12=-810/0, 12-13=0/1912, 13-14=0/1913, 14-16=-181/1009, 16-17=-181/1009, 17-18=-6/615, 18-19=-6/615, 19-20=0/758, 20-21=-468/105, 21-22=-468/105, 22-23=-315/0, 23-24=-315/0
BOT CHORD	41-42=0/1156, 40-41=0/2603, 39-40=0/2969, 38-39=0/2969, 37-38=0/2969, 35-37=0/1731, 34-35=-537/0, 33-34=-1388/0, 32-33=-1009/181, 31-32=-1009/181, 30-31=-758/0, 28-30=-334/175, 27-28=-105/468, 26-27=-105/468, 25-26=0/19

LOAD CASE(S)	Standard
1)	Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
	Uniform Loads (lb/ft)
	Vert: 25-42=-7, 1-45=-67, 20-45=-67, 20-46=-67, 24-46=-79



June 12, 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.sbcacomponents.com)



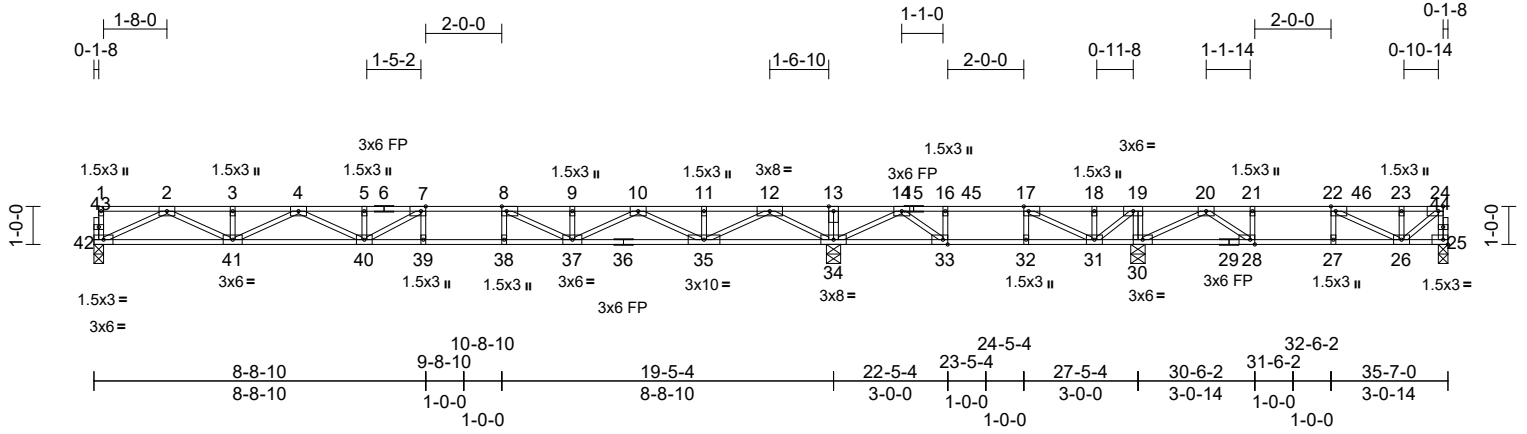
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F104	Truss Type Floor	Qty 3	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128778
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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. Wed Jun 11 09:24:30
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Page: 1



Scale = 1:60.6

Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,Edge], [17:0-1-8,Edge], [22:0-1-8,Edge], [24:0-1-8,Edge], [28:0-1-8,Edge], [33:0-1-8,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	0.90	Vert(LL)	-0.34	39-40	>689	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.46	39-40	>503	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	34	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 172 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 42-36:2x4 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) 25=0-3-0, 30=0-4-8, 34=0-4-8, 42=0-3-0
Max Grav 25=276 (LC 4), 30=713 (LC 4), 34=1243 (LC 16), 42=623 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-42=-48/0, 24-25=-281/0, 1-2=-3/0, 2-3=-2012/0, 3-4=-2012/0, 4-5=-2973/0, 5-7=-2973/0, 7-8=-2974/0, 8-9=-2410/0, 9-10=-2410/0, 10-11=-819/0, 11-12=-819/0, 12-13=0/1901, 13-14=0/1902, 14-16=-246/944, 16-17=-246/944, 17-18=-19/602, 18-19=-19/602, 19-20=0/817, 20-21=-462/112, 21-22=-462/112, 22-23=-325/0, 23-24=-325/0
BOT CHORD 41-42=0/1157, 40-41=0/2606, 39-40=0/2974, 38-39=0/2974, 37-38=0/2974, 35-37=0/1739, 34-35=-528/0, 33-34=-1351/0, 32-33=-944/246, 31-32=-944/246, 30-31=-817/0, 28-30=-350/158, 27-28=-112/462, 26-27=-112/462, 25-26=0/20

WEBS 7-39=-136/46, 8-38=-21/147, 13-34=-161/0, 16-33=-314/0, 17-32=-112/0, 19-30=-424/0, 21-28=-212/0, 22-27=-70/0, 2-42=-1284/0, 2-41=0/959, 3-41=-112/0, 4-41=-665/0, 4-40=0/412, 5-40=-173/12, 7-40=-340/283, 8-37=-824/0, 9-37=-126/56, 10-37=0/767, 10-35=-1045/0, 11-35=-119/0, 12-35=0/1368, 12-34=-1551/0, 14-34=-853/0, 14-33=0/692, 17-31=-287/380, 18-31=-201/0, 19-31=0/473, 20-30=-760/0, 20-28=0/489, 22-26=-152/195, 23-26=-183/0, 24-26=0/400

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Bearings are assumed to be: Joint 42 SP No.1, Joint 34 SP No.2, Joint 30 SP No.2, Joint 25 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.
6) Required 2x6 strongbacks, on edge, spaced at 10-00-0 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 (lb/ft)
Vert: 25-42=-7, 1-45=-67, 20-45=-85, 20-46=-67, 24-46=-85



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.sbcacomponents.com)

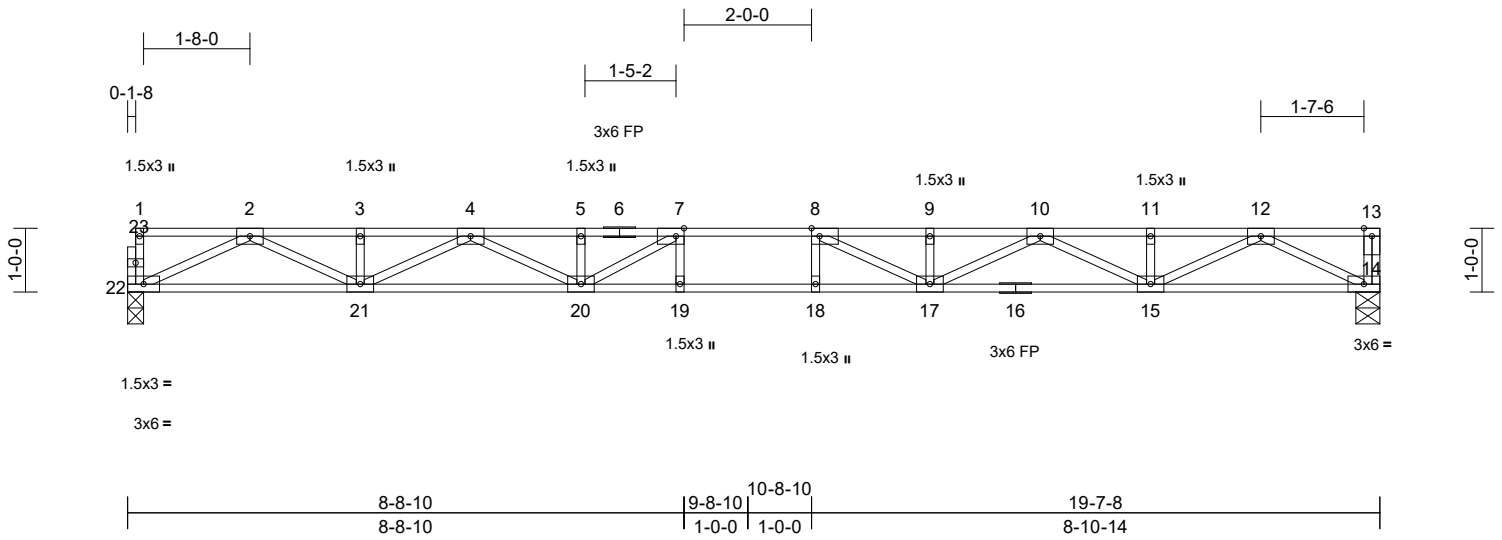


Job 25060054-02	Truss F105	Truss Type Floor	Qty 1	Ply 2	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128779
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Jun 11 09:24:31
ID:LEtuFm?DY?GafhXPMmrEpGz7n29-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.1
Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,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	0.25	Vert(LL)	-0.27	18-19	>872	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.37	18-19	>633	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 192 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)

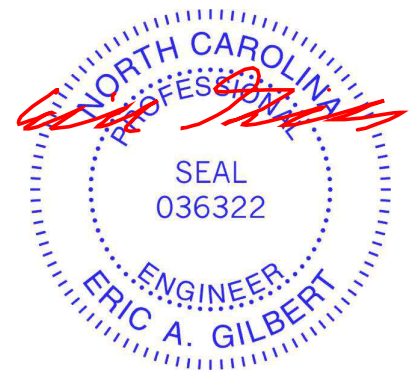
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 14=0-4-8, 22=0-3-0
Max Grav 14=852 (LC 1), 22=847 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-58/0, 13-14=-58/0, 1-2=-4/0,
2-3=-2816/0, 3-4=-2816/0, 4-5=-4336/0,
5-7=-4336/0, 7-8=-4658/0, 8-9=-4331/0,
9-10=-4331/0, 10-11=-2784/0, 11-12=-2784/0,
12-13=0/0
BOT CHORD 21-22=0/1591, 20-21=0/3720, 19-20=0/4658,
18-19=0/4658, 17-18=0/4658, 15-17=0/3696,
14-15=0/1551
WEBS 7-19=-95/130, 8-18=-96/113, 2-22=-1766/0,
2-21=0/1373, 3-21=-135/0, 4-21=-1012/0,
4-20=0/691, 5-20=-182/61, 7-20=-734/102,
8-17=-738/102, 9-17=-194/42, 10-17=0/713,
10-15=-1022/0, 11-15=-136/0, 12-15=0/1382,
12-14=-1736/0

NOTES
1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
2) Unbalanced floor live loads have been considered for this design.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) All bearings are assumed to be SP No.2.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.

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) Required 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

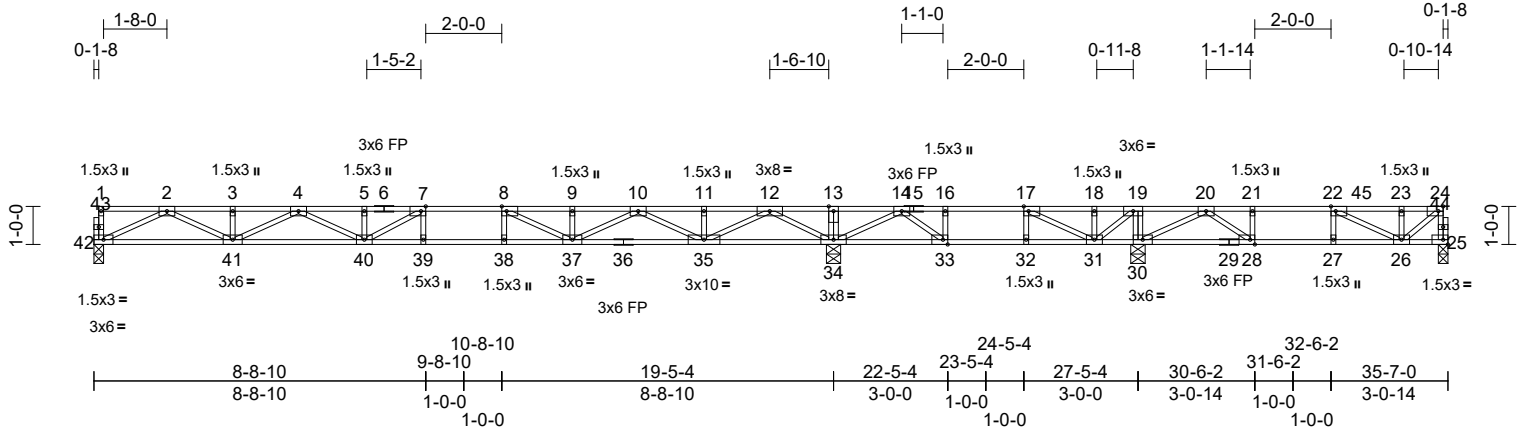


Job 25060054-02	Truss F106	Truss Type Floor	Qty 1	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128780
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Jun 11 09:24:31
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Page: 1



Scale = 1:60.6

Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,Edge], [17:0-1-8,Edge], [22:0-1-8,Edge], [24:0-1-8,Edge], [28:0-1-8,Edge], [33:0-1-8,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	0.80	Vert(LL)	-0.33	39-40	>693	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.46	39-40	>506	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	34	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH								
											Weight: 172 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* 15-24:2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 42-36:2x4 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) 25=0-3-0, 30=0-4-8, 34=0-4-8, 42=0-3-0
Max Grav 25=291 (LC 4), 30=608 (LC 4), 34=1236 (LC 16), 42=621 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-42=-48/0, 24-25=-295/0, 1-2=-3/0, 2-3=-2004/0, 3-4=-2004/0, 4-5=-2957/0, 5-7=-2957/0, 7-8=-2951/0, 8-9=-2379/0, 9-10=-2379/0, 10-11=-780/0, 11-12=-780/0, 12-13=0/1943, 13-14=0/1944, 14-16=-179/1029, 16-17=-179/1029, 17-18=-11/620, 18-19=-11/620, 19-20=0/753, 20-21=-489/86, 21-22=-489/86, 22-23=-340/0, 23-24=-340/0
BOT CHORD 41-42=0/1152, 40-41=0/2593, 39-40=0/2951, 38-39=0/2951, 37-38=0/2951, 35-37=0/1704, 34-35=-565/0, 33-34=-1419/0, 32-33=-1029/179, 31-32=-1029/179, 30-31=-753/0, 28-30=-324/186, 27-28=-86/489, 26-27=-86/489, 25-26=0/21

WEBS
7-39=-137/44, 8-38=-20/148, 13-34=-159/0, 16-33=-310/0, 17-32=-101/0, 19-30=-336/0, 21-28=-218/0, 22-27=-62/0, 2-42=-1279/0, 2-41=0/954, 3-41=-112/0, 4-41=-660/0, 4-40=0/408, 5-40=-174/11, 7-40=-333/287, 8-37=-828/0, 9-37=-125/56, 10-37=0/771, 10-35=-1049/0, 11-35=-119/0, 12-35=0/1371, 12-34=-1556/0, 14-34=-828/0, 14-33=0/671, 17-31=-223/454, 18-31=-180/0, 19-31=-65/376, 20-30=-715/0, 20-28=0/491, 22-26=-165/182, 23-26=-195/0, 24-26=0/418

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x5 MT20 unless otherwise indicated.
 - 3) Bearings are assumed to be: Joint 42 SP No.1, Joint 34 SP No.2, Joint 30 SP No.2, Joint 25 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.
 - 6) Required 2x6 strongbacks, on edge, spaced at 10-00-0 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 (lb/ft)
Vert: 25-42=-7, 1-45=-67, 24-45=-91



June 12, 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.sbccomponents.com)



818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F107	Truss Type Floor	Qty 8	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128781
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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. Wed Jun 11 09:24:31

Page: 1

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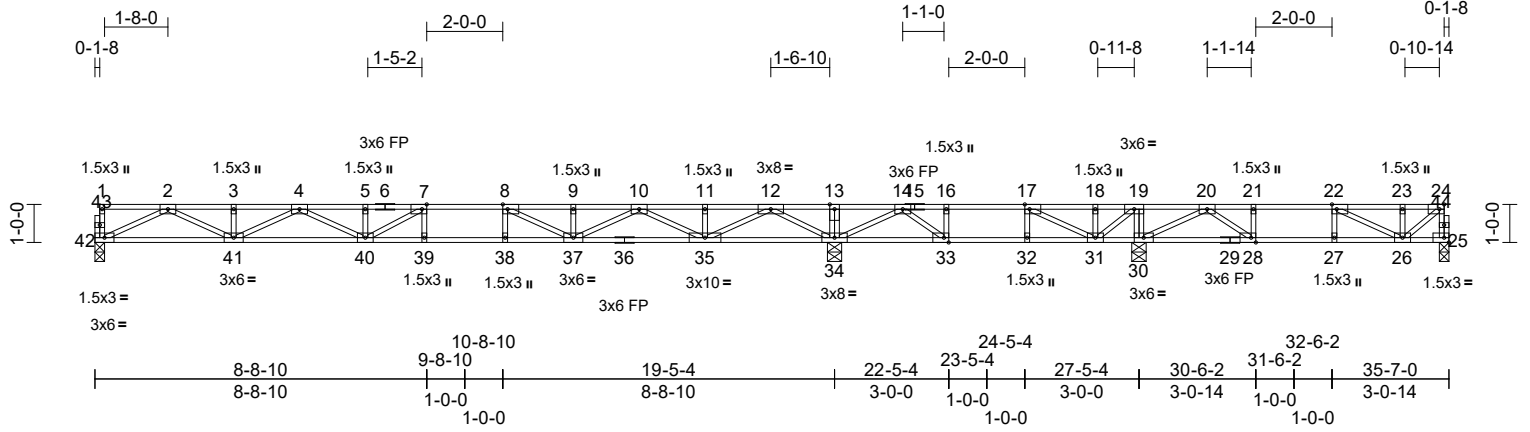


Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,Edge], [17:0-1-8,Edge], [22:0-1-8,Edge], [24:0-1-8,Edge], [28:0-1-8,Edge], [33:0-1-8,Edge]

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	0.80	Vert(LL)	-0.33	39-40	>693	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.46	39-40	>506	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	34	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 172 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* 15-24:2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 42-36:2x4 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.

WEBS
7-39=-137/44, 8-38=-20/148, 13-34=-159/0, 16-33=-308/0, 17-32=-99/0, 19-30=-336/0, 21-28=-212/0, 22-27=-58/0, 2-42=-1278/0, 2-41=0/954, 3-41=-112/0, 4-41=-660/0, 4-40=0/407, 5-40=-174/11, 7-40=-333/288, 8-37=-829/0, 9-37=-125/56, 10-37=0/771, 10-35=-1050/0, 11-35=-118/0, 12-35=0/1371, 12-34=-1556/0, 14-34=-825/0, 14-33=0/666, 17-31=-229/448, 18-31=-180/0, 19-31=-64/376, 20-30=-703/0, 20-28=0/474, 22-26=-174/174, 23-26=-154/0, 24-26=0/358

NOTES

- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x5 MT20 unless otherwise indicated.
 - Bearings are assumed to be: Joint 42 SP No.1, Joint 34 SP No.2, Joint 30 SP No.2, Joint 25 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.
 - Required 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

REACTIONS (size) 25=0-3-0, 30=0-4-8, 34=0-4-8, 42=0-3-0
Max Grav 25=245 (LC 4), 30=605 (LC 4), 34=1234 (LC 16), 42=620 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD
1-42=-48/0, 24-25=-248/0, 1-2=-3/0, 2-3=-2003/0, 3-4=-2003/0, 4-5=-2955/0, 5-7=-2955/0, 7-8=-2949/0, 8-9=-2377/0, 9-10=-2377/0, 10-11=-777/0, 11-12=-777/0, 12-13=0/1947, 13-14=0/1948, 14-16=-168/1040, 16-17=-168/1040, 17-18=0/637, 18-19=0/637, 19-20=0/770, 20-21=-447/127, 21-22=-447/127, 22-23=-291/0, 23-24=-291/0

BOT CHORD
41-42=0/1152, 40-41=0/2592, 39-40=0/2949, 38-39=0/2949, 37-38=0/2949, 35-37=0/1701, 34-35=-569/0, 33-34=-1426/0, 32-33=-1040/168, 31-32=-1040/168, 30-31=-770/0, 28-30=-353/157, 27-28=-127/447, 26-27=-127/447, 25-26=0/18



June 12, 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 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.sbcacomponents.com)

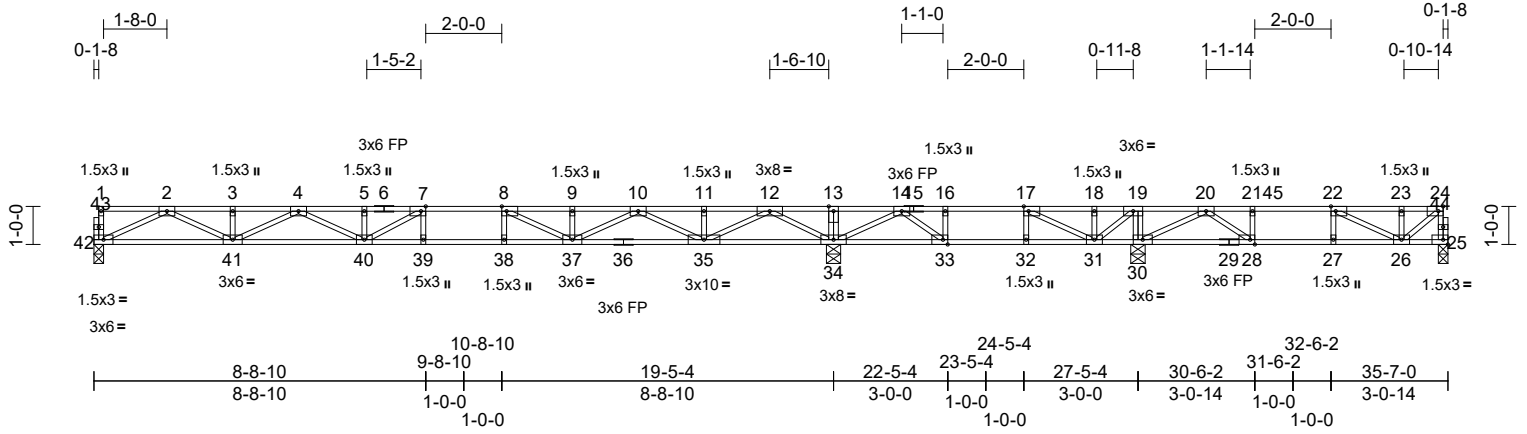
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F108	Truss Type Floor	Qty 2	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128782
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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. Wed Jun 11 09:24:31
ID:obPmGzRTxC5YZd6?UoApaCz7sQK-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWRcDoi7J4zJC?F

Page: 1



Scale = 1:60.6

Plate Offsets (X, Y): [7:0-1-8,Edge], [8:0-1-8,Edge], [17:0-1-8,Edge], [22:0-1-8,Edge], [24:0-1-8,Edge], [28:0-1-8,Edge], [33:0-1-8,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	0.80	Vert(LL)	-0.33	39-40	>693	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.46	39-40	>507	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.05	34	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 172 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* 15-24:2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 42-36:2x4 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.

WEBS
7-39=-137/44, 8-38=-19/148, 13-34=-161/0, 16-33=-311/0, 17-32=-99/0, 19-30=-349/0, 21-28=-214/0, 22-27=-57/0, 2-42=-1277/0, 2-41=0/953, 3-41=-112/0, 4-41=-659/0, 4-40=0/407, 5-40=-174/11, 7-40=-332/289, 8-37=-830/0, 9-37=-125/56, 10-37=0/772, 10-35=-1050/0, 11-35=-119/0, 12-35=0/1372, 12-34=-1556/0, 14-34=-841/0, 14-33=0/671, 17-31=-244/433, 18-31=-182/0, 19-31=-49/391, 20-30=-716/0, 20-28=0/478, 22-26=-176/172, 23-26=-154/0, 24-26=0/359

REACTIONS (size) 25=0-3-0, 30=0-4-8, 34=0-4-8, 42=0-3-0
Max Grav 25=246 (LC 4), 30=624 (LC 4), 34=1244 (LC 16), 42=620 (LC 5)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-42=-48/0, 24-25=-249/0, 1-2=-3/0, 2-3=-2002/0, 3-4=-2002/0, 4-5=-2953/0, 5-7=-2953/0, 7-8=-2945/0, 8-9=-2372/0, 9-10=-2372/0, 10-11=-771/0, 11-12=-771/0, 12-13=0/1953, 13-14=0/1954, 14-16=-181/1027, 16-17=-181/1027, 17-18=0/638, 18-19=0/638, 19-20=0/782, 20-21=-449/125, 21-22=-449/125, 22-23=-291/0, 23-24=-291/0
BOT CHORD 41-42=0/1151, 40-41=0/2590, 39-40=0/2945, 38-39=0/2945, 37-38=0/2945, 35-37=0/1696, 34-35=-576/0, 33-34=-1418/0, 32-33=-1027/181, 31-32=-1027/181, 30-31=-782/0, 28-30=-353/157, 27-28=-125/449, 26-27=-125/449, 25-26=0/18

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Bearings are assumed to be: Joint 42 SP No.1, Joint 34 SP No.2, Joint 30 SP No.2, Joint 25 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.
6) Required 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.
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 (lb/ft)
Vert: 25-42=-7, 1-13=-67, 13-45=-69, 24-45=-67



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.sbcacomponents.com)

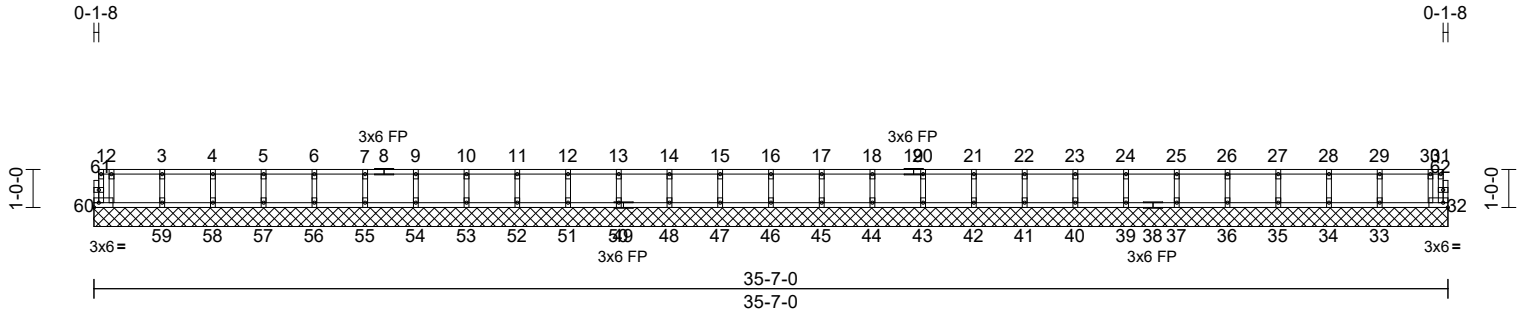


Job 25060054-02	Truss F109	Truss Type Floor Supported Gable	Qty 1	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128783
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Jun 11 09:24:32
ID:RpYq40FG_rawM7AzjgcpGz7n?G-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.6

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	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	0.02	Horiz(TL)	0.00	32	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 140 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 (size)
32=35-7-0, 33=35-7-0, 34=35-7-0, 35=35-7-0, 36=35-7-0, 37=35-7-0, 39=35-7-0, 40=35-7-0, 41=35-7-0, 42=35-7-0, 43=35-7-0, 44=35-7-0, 45=35-7-0, 46=35-7-0, 47=35-7-0, 48=35-7-0, 50=35-7-0, 51=35-7-0, 52=35-7-0, 53=35-7-0, 54=35-7-0, 55=35-7-0, 56=35-7-0, 57=35-7-0, 58=35-7-0, 59=35-7-0, 60=35-7-0
Max Grav 32=62 (LC 1), 33=106 (LC 1), 34=95 (LC 1), 35=98 (LC 1), 36=98 (LC 1), 37=98 (LC 1), 39=98 (LC 1), 40=98 (LC 1), 41=98 (LC 1), 42=98 (LC 1), 43=98 (LC 1), 44=98 (LC 1), 45=98 (LC 1), 46=98 (LC 1), 47=98 (LC 1), 48=98 (LC 1), 50=98 (LC 1), 51=98 (LC 1), 52=98 (LC 1), 53=98 (LC 1), 54=98 (LC 1), 55=98 (LC 1), 56=98 (LC 1), 57=98 (LC 1), 58=95 (LC 1), 59=106 (LC 1), 60=62 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD
1-60=0/9, 31-32=0/9, 1-2=-1/0, 2-3=-16/0, 3-4=-16/0, 4-5=-16/0, 5-6=-16/0, 6-7=-16/0, 7-9=-16/0, 9-10=-16/0, 10-11=-16/0, 11-12=-16/0, 12-13=-16/0, 13-14=-16/0, 14-15=-16/0, 15-16=-16/0, 16-17=-16/0, 17-18=-16/0, 18-20=-16/0, 20-21=-16/0, 21-22=-16/0, 22-23=-16/0, 23-24=-16/0, 24-25=-16/0, 25-26=-16/0, 26-27=-16/0, 27-28=-16/0, 28-29=-16/0, 29-30=-16/0, 30-31=-1/0
BOT CHORD
59-60=0/16, 58-59=0/16, 57-58=0/16, 56-57=0/16, 55-56=0/16, 54-55=0/16, 53-54=0/16, 52-53=0/16, 51-52=0/16, 50-51=0/16, 48-50=0/16, 47-48=0/16, 46-47=0/16, 45-46=0/16, 44-45=0/16, 43-44=0/16, 42-43=0/16, 41-42=0/16, 40-41=0/16, 39-40=0/16, 37-39=0/16, 36-37=0/16, 35-36=0/16, 34-35=0/16, 33-34=0/16, 32-33=0/16
WEBS
16-46=-89/0, 15-47=-89/0, 14-48=-89/0, 13-50=-89/0, 12-51=-89/0, 11-52=-89/0, 10-53=-89/0, 9-54=-89/0, 7-55=-89/0, 6-56=-89/0, 5-57=-89/0, 4-58=-87/0, 3-59=-95/0, 2-60=-68/0, 17-45=-89/0, 18-44=-89/0, 20-43=-89/0, 21-42=-89/0, 22-41=-89/0, 23-40=-89/0, 24-39=-89/0, 25-37=-89/0, 26-36=-89/0, 27-35=-89/0, 28-34=-87/0, 29-33=-95/0, 30-32=-68/0

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.
LOAD CASE(S) Standard

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.



June 12, 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.sbcacomponents.com)



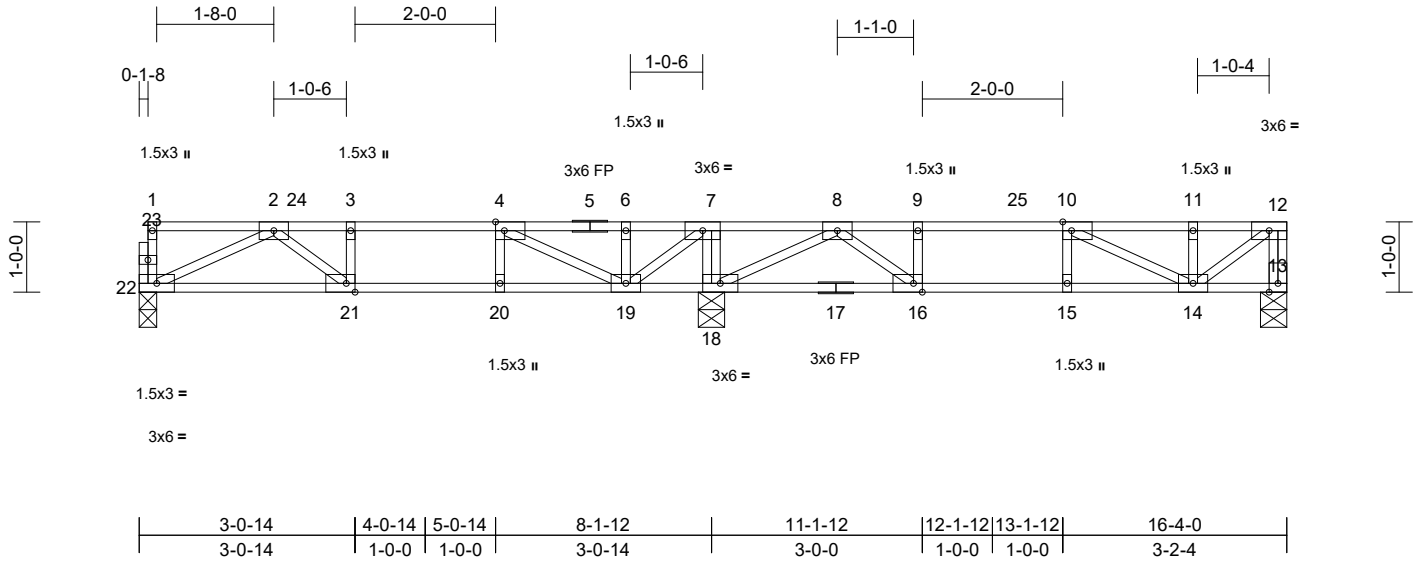
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F110	Truss Type Floor	Qty 3	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128784
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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. Wed Jun 11 09:24:32
ID:qkZ5Vn?0WaxW4TxJSOPeGz7IRS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.8

Plate Offsets (X, Y): [4:0-1-8,Edge], [10:0-1-8,Edge], [16:0-1-8,Edge], [21:0-1-8,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	0.31	Vert(LL)	-0.03	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.04	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 80 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)

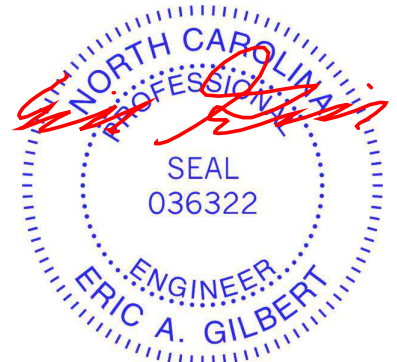
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 18-19.

REACTIONS (size)
13=0-4-8, 18=0-4-8, 22=0-3-0
Max Grav 13=295 (LC 7), 18=726 (LC 1), 22=303 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-61/0, 12-13=-293/0, 1-2=-4/0, 2-3=-594/0, 3-4=-594/0, 4-6=-228/46, 6-7=-228/46, 7-8=0/324, 8-9=-647/0, 9-10=-647/0, 10-11=-364/0, 11-12=-364/0
BOT CHORD 21-22=0/476, 20-21=0/594, 19-20=0/594, 18-19=-324/0, 16-18=0/421, 15-16=0/647, 14-15=0/647, 13-14=0/0
WEBS 3-21=-83/11, 4-20=0/47, 7-18=-426/0, 9-16=-176/0, 10-15=-22/13, 2-22=-525/0, 2-21=-5/152, 4-19=-491/0, 6-19=-98/25, 7-19=0/482, 8-18=-659/0, 8-16=0/347, 10-14=-315/0, 11-14=-125/0, 12-14=0/449

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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
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.

- 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: 13-22=-7, 1-24=-83, 5-24=-67, 5-25=-81, 12-25=-67



June 12, 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.sbcacomponents.com)



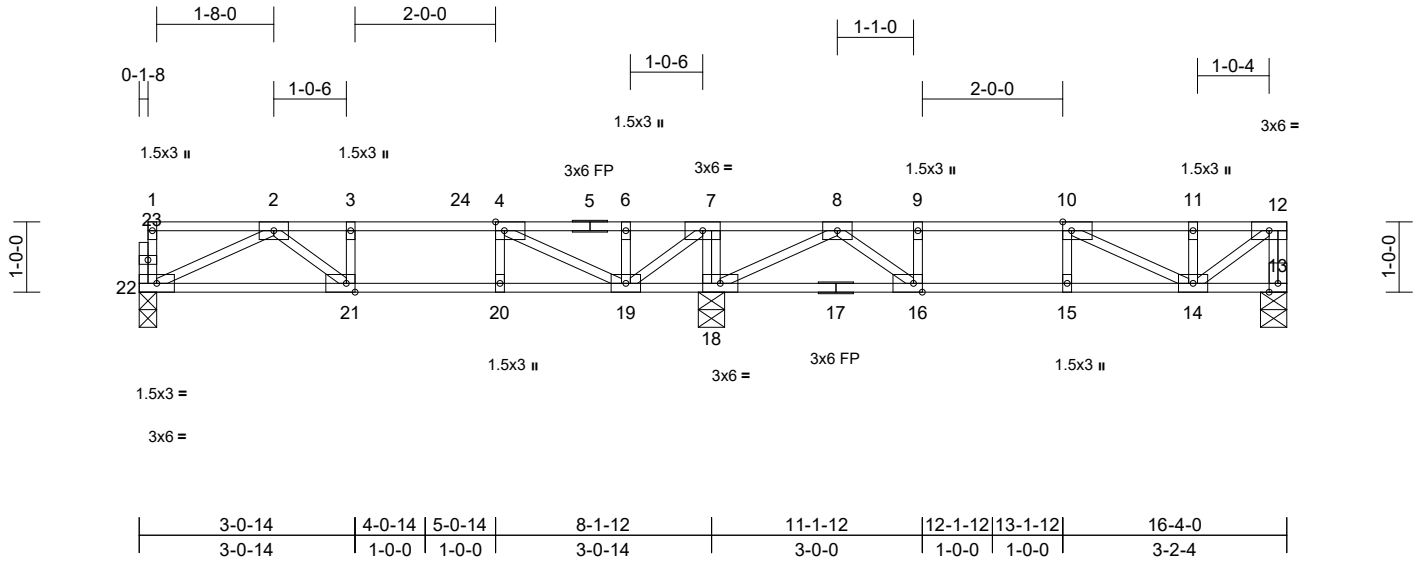
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F111	Truss Type Floor	Qty 2	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128785
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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. Wed Jun 11 09:24:32
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Page: 1



Scale = 1:32.8
Plate Offsets (X, Y): [4:0-1-8,Edge], [10:0-1-8,Edge], [16:0-1-8,Edge], [21:0-1-8,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	0.37	Vert(LL)	-0.03	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.05	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 80 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, Except:
6-0-0 oc bracing: 18-19.

REACTIONS (size) 13=0-4-8, 18=0-4-8, 22=0-3-0
Max Grav 13=342 (LC 7), 18=772 (LC 1), 22=280 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-50/0, 12-13=-341/0, 1-2=-4/0, 2-3=-606/0, 3-4=-606/0, 4-6=-237/37, 6-7=-237/37, 7-8=0/353, 8-9=-708/0, 9-10=-708/0, 10-11=-424/0, 11-12=-424/0
BOT CHORD 21-22=0/457, 20-21=0/606, 19-20=0/606, 18-19=-353/0, 16-18=0/441, 15-16=0/708, 14-15=0/708, 13-14=0/0
WEBS 3-21=-101/0, 4-20=0/37, 7-18=-455/0, 9-16=-198/0, 10-15=-34/1, 2-22=-504/0, 2-21=0/193, 4-19=-495/0, 6-19=-115/8, 7-19=0/528, 8-18=-713/0, 8-16=0/399, 10-14=-316/0, 11-14=-161/0, 12-14=0/523

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.

- 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 13-22=-7, 1-24=-67, 12-24=-83



June 12, 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.sbcacomponents.com)



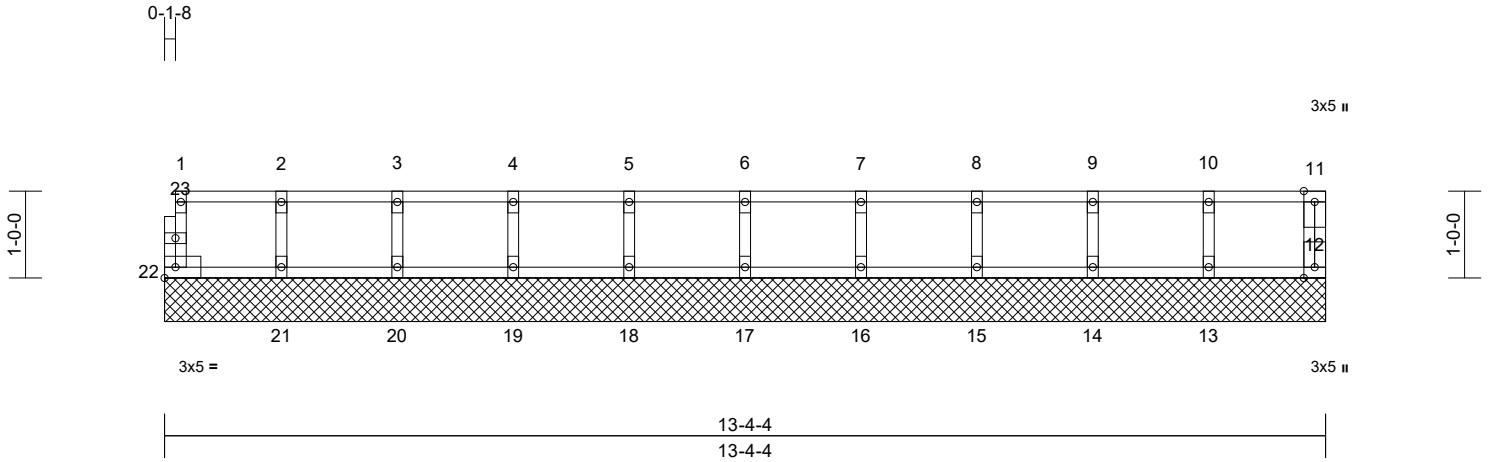
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F112	Truss Type Floor Supported Gable	Qty 1	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128786
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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. Wed Jun 11 09:24:32
ID:sULF_l6pGfXrN15cM7R6BFz7n_9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.5

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R						Weight: 54 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 (size) 12=13-4-4, 13=13-4-4, 14=13-4-4, 15=13-4-4, 16=13-4-4, 17=13-4-4, 18=13-4-4, 19=13-4-4, 20=13-4-4, 21=13-4-4, 22=13-4-4
Max Grav 12=50 (LC 1), 13=115 (LC 1), 14=118 (LC 1), 15=117 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=118 (LC 1), 21=115 (LC 1), 22=46 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-42/0, 11-12=-46/0, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0, 7-8=-10/0, 8-9=-10/0, 9-10=-10/0, 10-11=-10/0
BOT CHORD 21-22=0/10, 20-21=0/10, 19-20=0/10, 18-19=0/10, 17-18=0/10, 16-17=0/10, 15-16=0/10, 14-15=0/10, 13-14=0/10, 12-13=0/10
WEBS 6-17=-107/0, 5-18=-107/0, 4-19=-106/0, 3-20=-107/0, 2-21=-104/0, 7-16=-107/0, 8-15=-106/0, 9-14=-107/0, 10-13=-104/0

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.

- 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



June 12, 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.sbcacomponents.com)



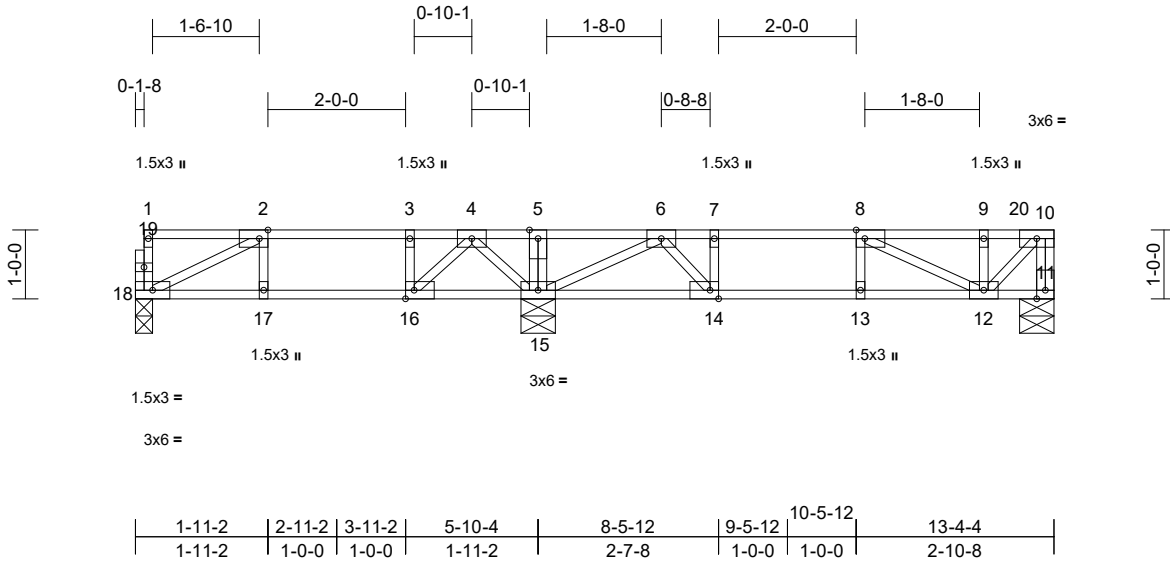
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F113	Truss Type Floor	Qty 9	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128787
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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. Wed Jun 11 09:24:32
ID:8qGJShBCcoPrj67yG53vzjz7n_2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.5

Plate Offsets (X, Y): [2:0-1-8,Edge], [8:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,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	0.26	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.03	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 66 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)

- 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.
7) CAUTION, Do not erect truss backwards.

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, Except:
6-0-0 oc bracing: 15-16.

LOAD CASE(S) Standard

REACTIONS

(size) 11=0-6-0, 15=0-6-0, 18=0-3-0
Max Grav 11=316 (LC 7), 15=611 (LC 8), 18=242 (LC 10)

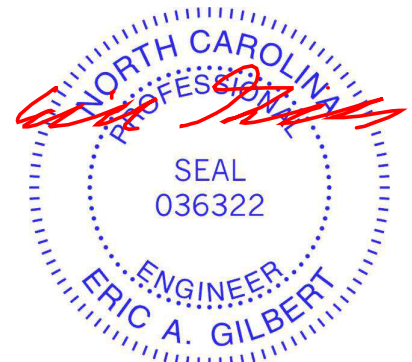
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-58/0, 10-11=-317/0, 1-2=-4/0, 2-3=-369/0, 3-4=-369/0, 4-5=0/159, 5-6=0/164, 6-7=-620/0, 7-8=-620/0, 8-9=-306/0, 9-10=-306/0
BOT CHORD 17-18=0/369, 16-17=0/369, 15-16=-11/199, 14-15=0/463, 13-14=0/620, 12-13=0/620, 11-12=0/0
WEBS 2-17=-3/15, 3-16=-184/0, 5-15=-155/0, 7-14=-186/0, 8-13=-18/17, 2-18=-409/0, 6-15=-584/0, 6-14=0/308, 8-12=-349/0, 9-12=-140/0, 10-12=0/428, 4-16=0/310, 4-15=-313/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
- 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.



June 12, 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.sbcacomponents.com)



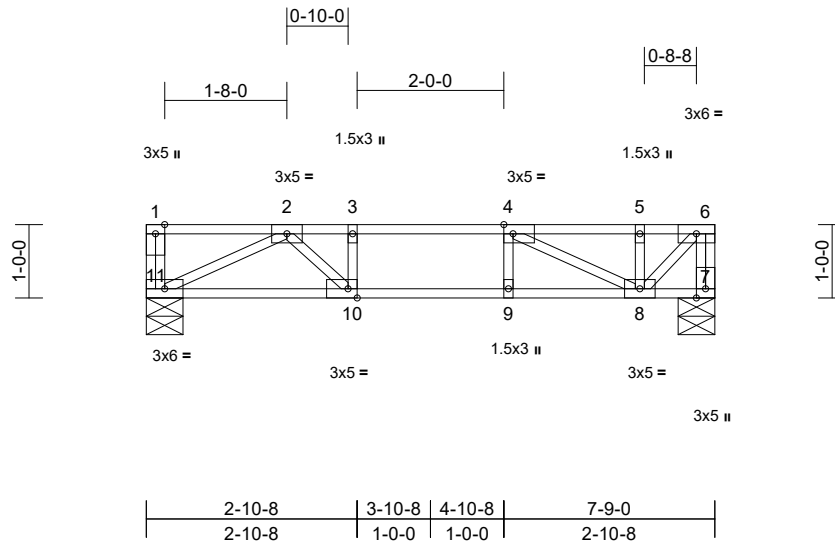
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F114	Truss Type Floor	Qty 2	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128788
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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. Wed Jun 11 09:24:32
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Page: 1



Scale = 1:31.4

Plate Offsets (X, Y): [4:0-1-8,Edge], [10:0-1-8,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	0.23	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.03	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 39 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 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (size) 7=0-6-0, 11=0-6-0
Max Grav 7=330 (LC 1), 11=330 (LC 1)

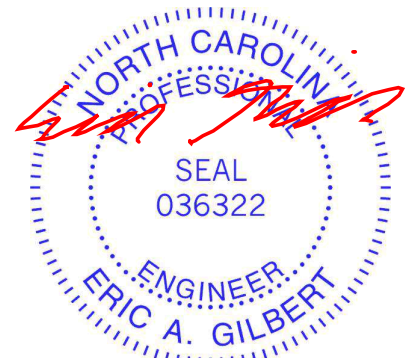
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-62/0, 6-7=-328/0, 1-2=0/0, 2-3=-677/0, 3-4=-677/0, 4-5=-315/0, 5-6=-315/0
BOT CHORD 10-11=0/529, 9-10=0/677, 8-9=0/677, 7-8=0/0

WEBS 3-10=-158/0, 4-9=-13/39, 2-11=-588/0, 2-10=0/284, 4-8=-414/0, 5-8=-135/13, 6-8=0/441

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) 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.

LOAD CASE(S) Standard



June 12, 2025

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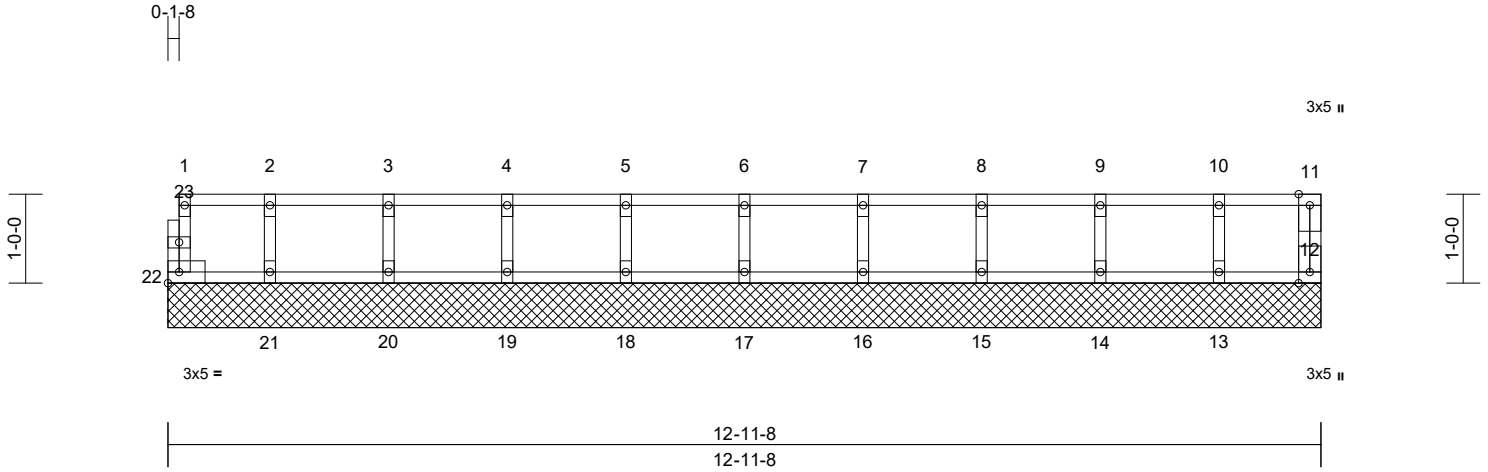
818 Soundside Road
Edenton, NC 27932

Job 25060054-02	Truss F115	Truss Type Floor Supported Gable	Qty 1	Ply 1	54 Magnolia Acers-Crawl-Taylor BB RH FL Job Reference (optional)	174128789
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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. Wed Jun 11 09:24:32
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Page: 1



Scale = 1:25.9

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	MT20	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	0.02	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 53 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	(size)
	12=12-11-8, 13=12-11-8, 14=12-11-8, 15=12-11-8, 16=12-11-8, 17=12-11-8, 18=12-11-8, 19=12-11-8, 20=12-11-8, 21=12-11-8, 22=12-11-8
Max Grav	12=39 (LC 1), 13=107 (LC 1), 14=120 (LC 1), 15=117 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=120 (LC 1), 21=107 (LC 1), 22=34 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-31/0, 11-12=-35/0, 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	6-17=-107/0, 5-18=-107/0, 4-19=-106/0, 3-20=-109/0, 2-21=-97/0, 7-16=-107/0, 8-15=-106/0, 9-14=-109/0, 10-13=-98/0

- 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.
 - 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



June 12, 2025

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

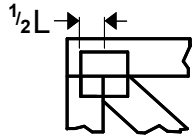
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ENGINEERING BY
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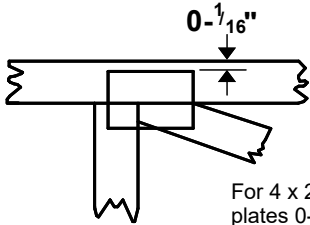
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

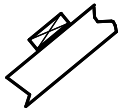
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

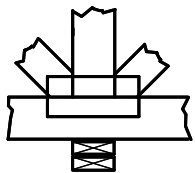
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

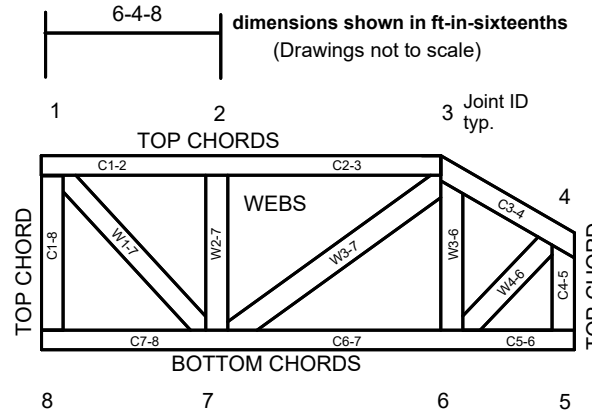


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-22: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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: MII-7473 rev. 1/2/2023

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.