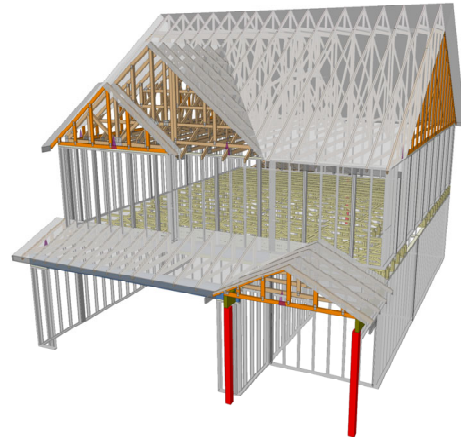




Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450



Builder: Wellco Contractor

**Model: 127 Hidden Lakes - Plan 10
GLH**

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.

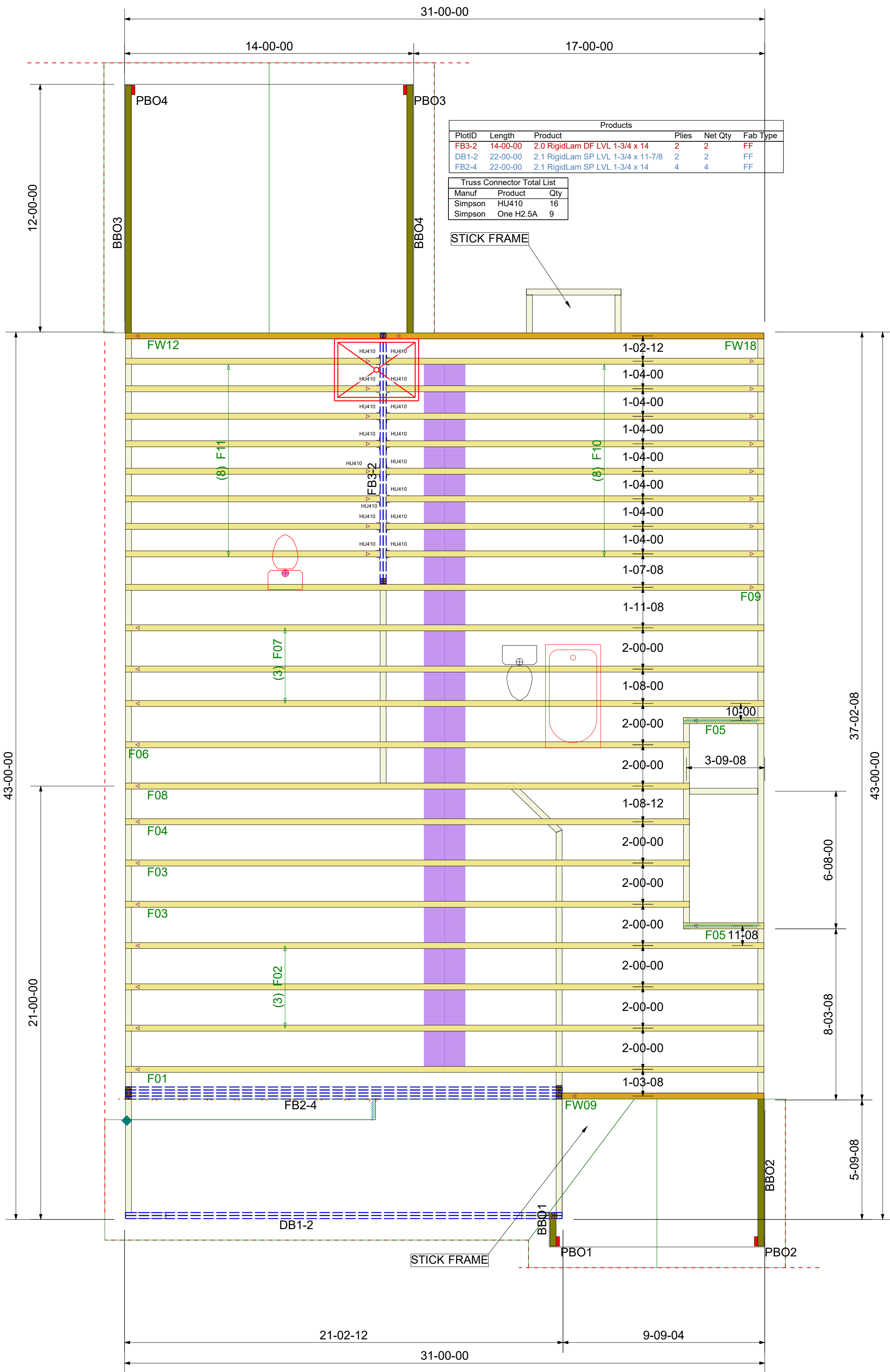
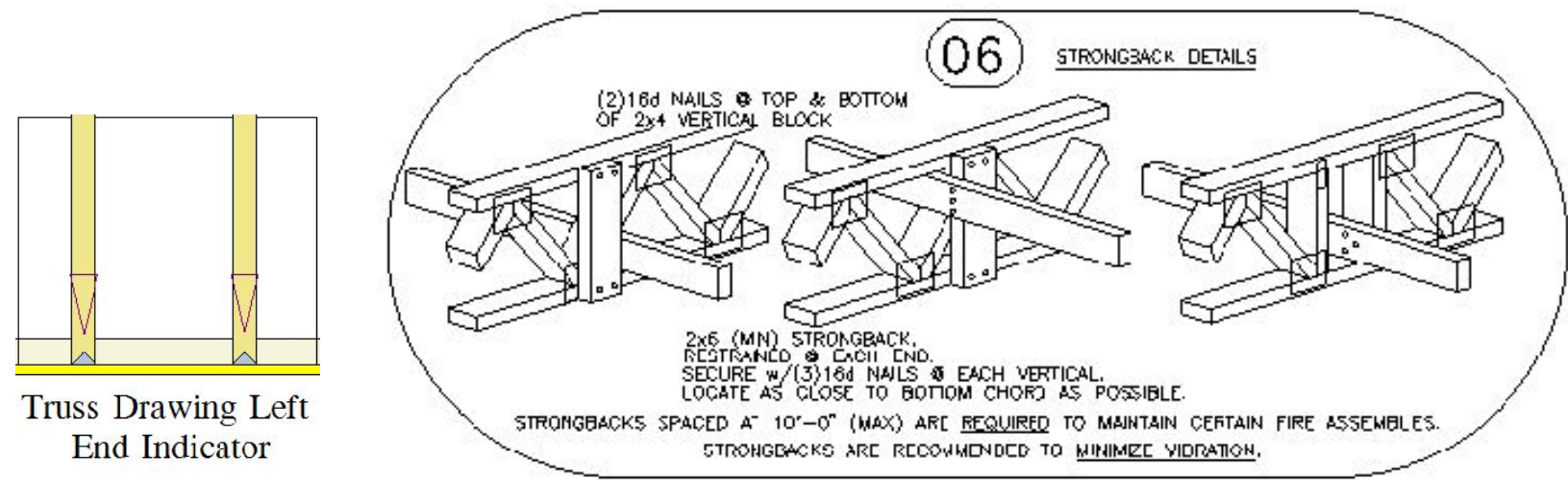
Approved By: _____

Date: _____

General Notes:

General Notes: ** 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.

*** 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. ***

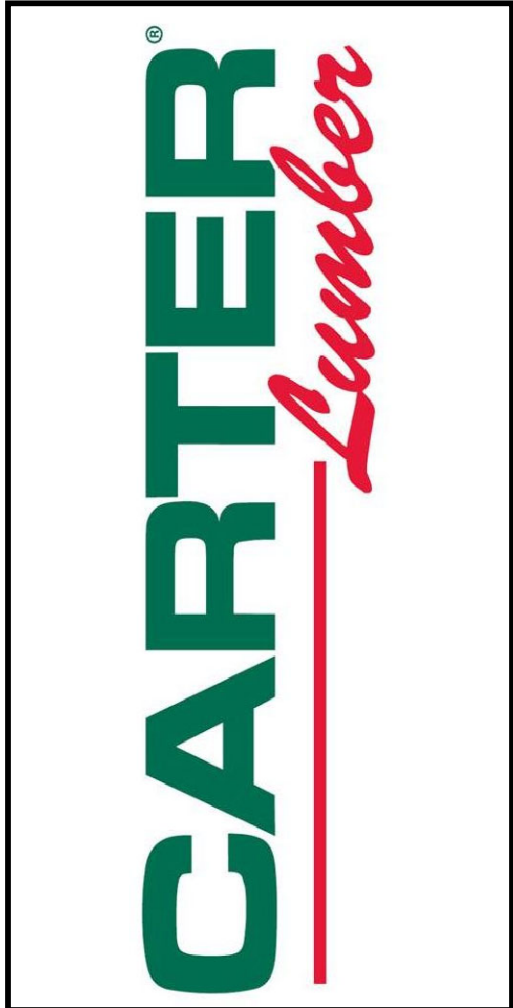


PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES.

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

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

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 truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the design of "Bracing of Wood Trusses," see the Truss Design Manual, available from the Truss Plate Institute, 563 D Onifrio Drive, Madison, WI 53719.



Wellco Contractor
29 Hidden Lakes North-2nd Floor-Plan 10 GLH
FLOOR PLACEMENT PLAN

Scale:	<i>NTS</i>
Date:	10/10/2025
Designer:	Aaron Rogers
Project Number:	25100038-A
Sheet Number:	1/1

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.

RE: 25100038-A
29 Hidden Lakes North-2nd Floor-Plan 10 GLH

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractor Project Name: 25100038-A
Lot/Block: 29 Model:
Address: Subdivision: Hidden Lakes North
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I70700750	F01	1/13/2025
2	I70700751	F02	1/13/2025
3	I70700752	F03	1/13/2025
4	I70700753	F04	1/13/2025
5	I70700754	F05	1/13/2025
6	I70700755	F06	1/13/2025
7	I70700756	F07	1/13/2025
8	I70700757	F08	1/13/2025
9	I70700758	F09	1/13/2025
10	I70700759	F10	1/13/2025
11	I70700760	F11	1/13/2025
12	I70700761	FW09	1/13/2025
13	I70700762	FW12	1/13/2025
14	I70700763	FW18	1/13/2025

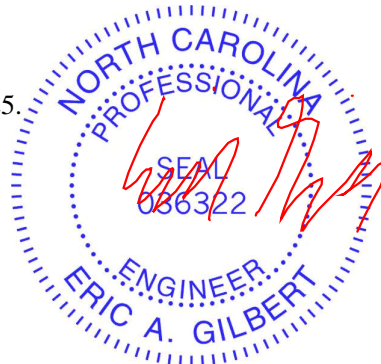
The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:37 Page: 1
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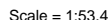


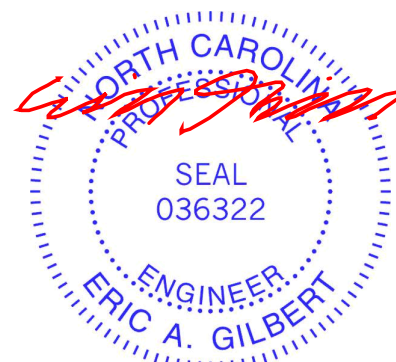
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LUMBER		WEBS	11-32=-627/0, 12-31=0/663, 16-28=-219/0, 11-34=0/2230, 9-34=-466/0, 8-34=-518/0, 8-35=0/274, 7-35=-176/0, 6-35=0/178, 6-36=-561/0, 5-36=-163/0, 4-36=0/998, 4-38=-1365/0, 2-38=-188/0, 1-38=0/2159, 12-29=-3120/0, 14-29=-69/285, 15-29=0/2158, 15-28=-1724/0, 17-28=-1550/0, 17-27=0/1279, 18-27=-170/0, 19-27=-930/0, 19-26=0/683, 20-26=-151/0, 22-26=-542/279, 22-24=-644/468
TOP CHORD	2x4 SP No.2(flat)		
BOT CHORD	2x4 SP No.2(flat) *Except* 37-30,33-25:2x4 SP No.1(flat)		
WEBS	2x4 SP No.3(flat) *Except*		
	34-11,38-1,29-15:2x4 SP No.2(flat)		
OTHERS	2x4 SP No.3(flat)		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	NOTES	1) Unbalanced floor live loads have been considered for this design.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		2) All plates are MT20 plates unless otherwise indicated.
REACTIONS	(size) 24=0-3-8, 28=0-3-8, 39=0-3-8 Max Uplift 24=-210 (LC 3) Max Grav 24=402 (LC 4), 28=2246 (LC 1), 39=982 (LC 3)		3) All plates are 3x6 MT20 unless otherwise indicated.
FORCES	(lb) - Maximum Compression/Maximum Tension		4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. This connection is for uplift only and does not consider lateral forces.
TOP CHORD	1-39=-964/0, 23-24=-68/0, 1-2=-1987/0, 2-4=-1986/0, 4-5=-4074/0, 5-6=-4074/0, 6-7=-4727/0, 7-8=-4727/0, 8-9=-4135/0, 9-11=-4135/0, 11-12=-2256/0, 12-14=0/974, 14-15=0/974, 15-16=0/3866, 16-17=0/3866, 17-18=-347/2119, 18-19=-347/2119, 19-20=-802/878, 20-22=-802/878, 22-23=0/0		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.
BOT CHORD	38-39=0/0, 36-38=0/3192, 35-36=0/4570, 34-35=0/4542, 32-34=0/2256, 31-32=0/2256, 29-31=0/2256, 28-29=-2644/0, 27-28=-2858/0, 26-27=-1471/721, 24-26=-407/560		6) CAUTION, Do not erect truss backwards.
		LOAD CASE(S)	Standard

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 3x6 MT20 unless otherwise indicated.
- 4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. This connection is for uplift only and does not consider lateral forces.
- 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.
- 6) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



January 13, 2025



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

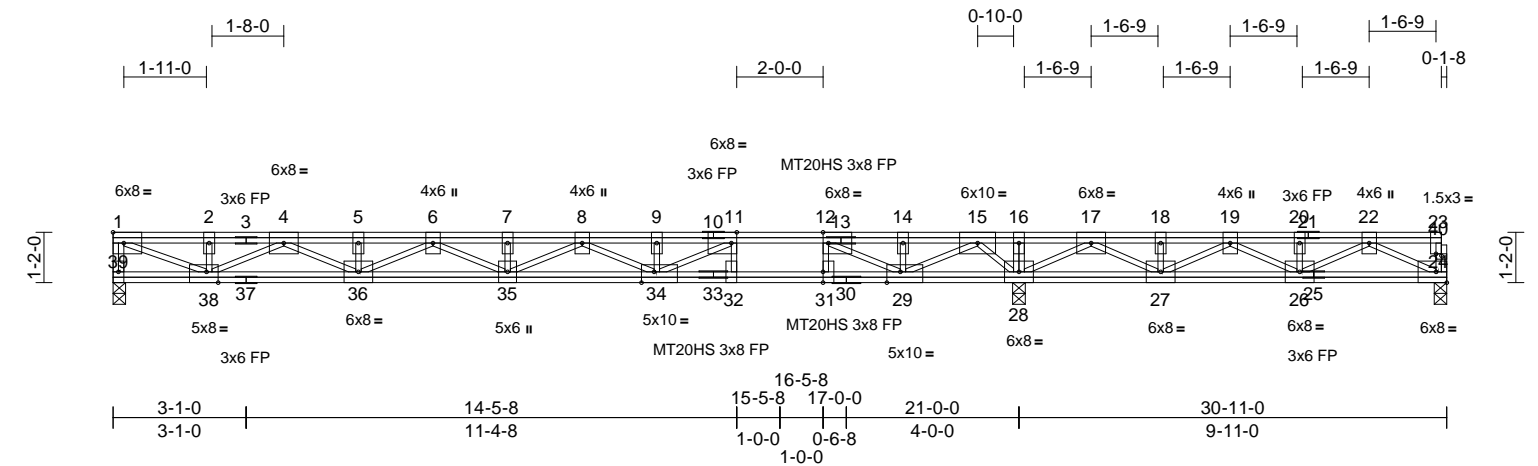
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25100038-A	F02	Floor	3	1	I70700751
					Job Reference (optional)

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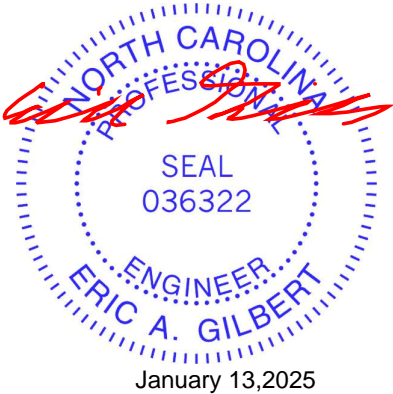
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.35	34-35	>710
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.48	34-35	>520
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	28	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH					
								Weight: 242 lb	FT = 20%F, 11%E

LUMBER		WEBS		11-32=627/0, 12-31=0/663, 16-28=219/0, 11-34=0/2230, 9-34=-466/0, 8-34=-518/0, 8-35=0/274, 7-35=-176/0, 6-35=0/178, 6-36=561/0, 5-36=-163/0, 4-36=0/998, 4-38=-1366/0, 2-38=-206/0, 1-38=0/2165, 12-29=3120/0, 14-29=-69/285, 15-29=0/2158, 15-28=-1724/0, 17-28=-1550/0, 17-27=0/1279, 18-27=-170/0, 19-27=930/0, 19-26=0/683, 20-26=-151/0, 22-26=-542/279, 22-24=-644/468	
TOP CHORD	2x4 SP No.2(flat)				
BOT CHORD	2x4 SP No.2(flat) *Except* 37-30,33-25:2x4 SP No.1(flat)				
WEBS	2x4 SP No.3(flat) *Except*				
	34-11,38-1,29-15:2x4 SP No.2(flat)				
OTHERS	2x4 SP No.3(flat)				
BRACING		NOTES			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) Unbalanced floor live loads have been considered for this design.			
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	2) All plates are MT20 plates unless otherwise indicated.			
REACTIONS	(size) 24=0-3-8, 28=0-3-8, 39=0-3-8	3) All plates are 3x6 MT20 unless otherwise indicated.			
	Max Uplift 24=-210 (LC 3)	4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. This connection is for uplift only and does not consider lateral forces.			
	Max Grav 24=402 (LC 4), 28=2246 (LC 1), 39=982 (LC 3)	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.			
FORCES	(lb) - Maximum Compression/Maximum Tension	6) CAUTION, Do not erect truss backwards.			
TOP CHORD	1-39=-963/0, 23-24=-68/0, 1-2=-1985/0, 2-4=-1985/0, 4-5=-4074/0, 5-6=-4074/0, 6-7=-4727/0, 7-8=-4727/0, 8-9=-4135/0, 9-11=-4135/0, 11-12=-2256/0, 12-14=0/975, 14-15=0/975, 15-16=0/3867, 16-17=0/3867, 17-18=-347/2119, 18-19=-347/2119, 19-20=-802/878, 20-22=-802/878, 22-23=0/0	LOAD CASE(S) Standard			
BOT CHORD	38-39=0/0, 36-38=0/3192, 35-36=0/4570, 34-35=0/4542, 32-34=0/2256, 31-32=0/2256, 29-31=0/2256, 28-29=-2644/0, 27-28=-2859/0, 26-27=-1472/721, 24-26=-407/560				



January 13,2025

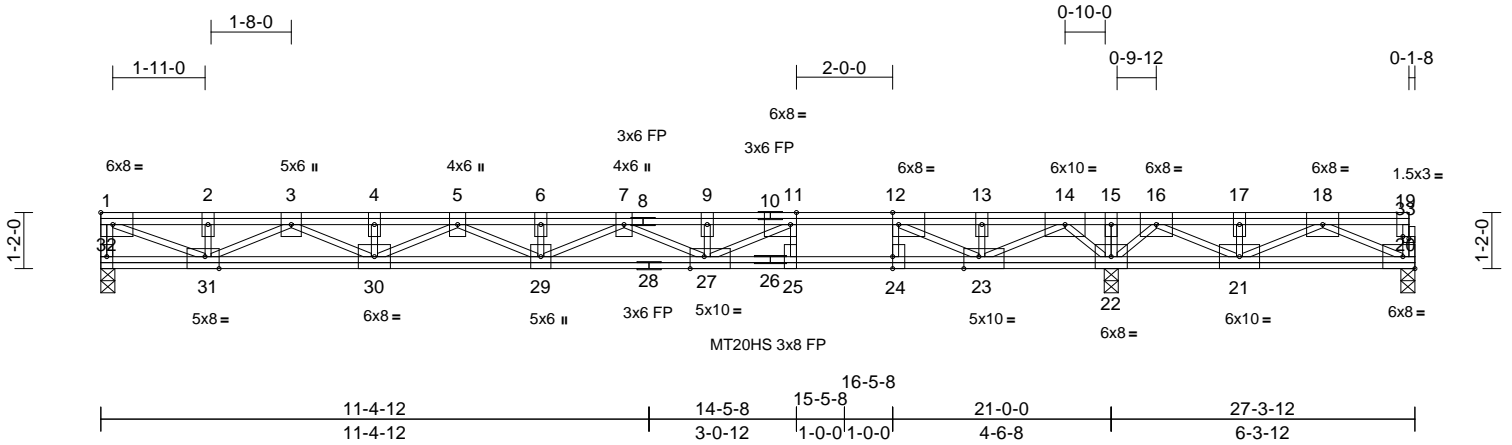
Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	F03	Floor	2	1	I70700752
					Job Reference (optional)

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

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Page: 1

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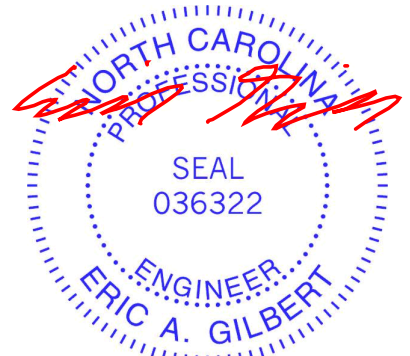
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.35	27-29	>725	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.47	27-29	>528	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.04	22	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 214 lb	FT = 20%F, 11%E

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 28-20,26-20:2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 27-11,31-1,23-14:2x4 SP No.2(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: 22-23,21-22,20-21.
REACTIONS	
(size)	20=0-3-8, 22=0-3-8, 32=0-3-8
Max Uplift	20=-522 (LC 3)
Max Grav	20=152 (LC 4), 22=2296 (LC 1), 32=968 (LC 3)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-32=-949/0, 19-20=-71/0, 1-2=-1953/0, 2-3=-1953/0, 3-4=-3990/0, 4-5=-3990/0, 5-6=-4590/0, 6-7=-4590/0, 7-9=-3944/0, 9-11=-3944/0, 11-12=-2019/0, 12-13=0/1038, 13-14=0/1038, 14-15=0/3997, 15-16=0/3997, 16-17=0/2128, 17-18=0/2128, 18-19=0/0
BOT CHORD	31-32=0/0, 30-31=0/3132, 29-30=0/4454, 27-29=0/4374, 25-27=0/2019, 24-25=0/2019, 23-24=0/2019, 22-23=-2754/0, 21-22=-3305/0, 20-21=-1029/121
WEBS	11-25=-630/0, 12-24=0/669, 15-22=-163/0, 11-27=0/2239, 9-27=-468/0, 7-27=-523/0, 7-29=-3/287, 6-29=-181/0, 5-29=0/154, 5-30=-525/0, 4-30=-167/0, 3-30=0/972, 3-31=-1334/0, 2-31=-207/0, 1-31=0/2131, 12-23=-3142/0, 13-23=-69/286, 14-23=0/2163, 14-22=-1730/0, 18-20=-137/1165, 18-21=-1244/0, 17-21=-166/0, 16-21=0/1562, 16-22=-1183/0

- 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 3x6 MT20 unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 522 lb uplift at joint 20.
 - 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.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 13,2025

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
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

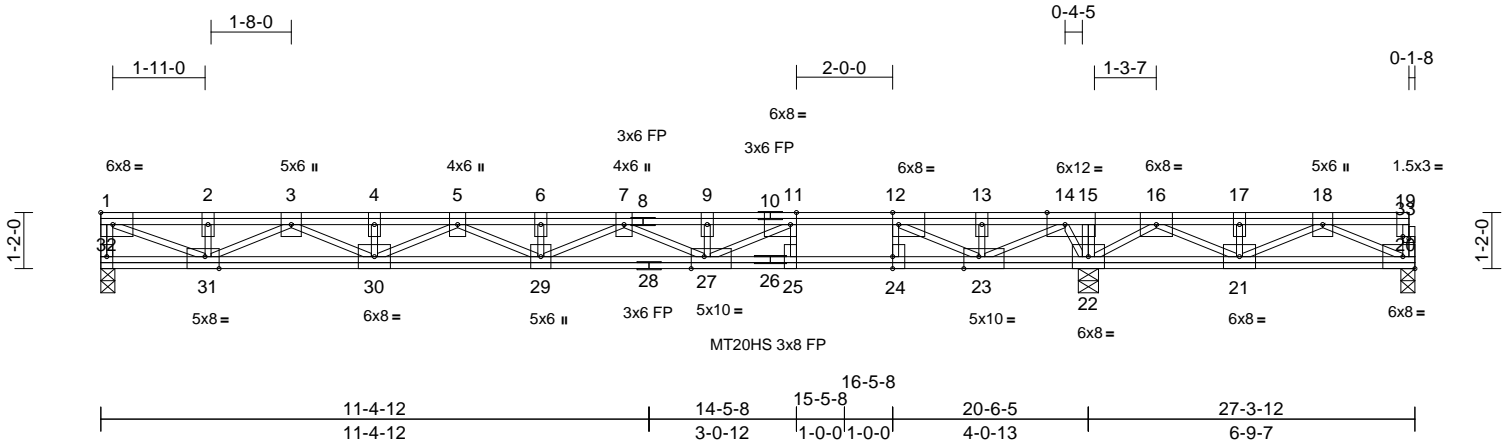
Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	F04	Floor	1	1	170700753
Job Reference (optional)					

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:38

Page: 1

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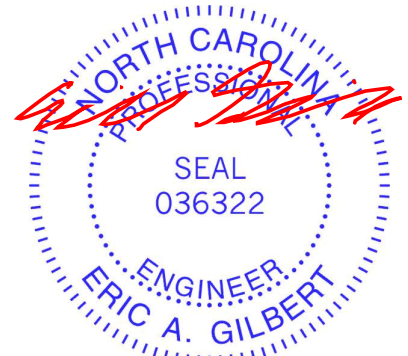
Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,Edge], [15:0-4-8,Edge], [23:0-3-12,Edge], [24:0-3-0,Edge], [27:0-3-4,Edge], [31:0-3-8,Edge], [33:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.33	27-29	>739	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.45	27-29	>538	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 214 lb	FT = 20%F, 11%E

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 28-20,26-20:2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 27-11,23-14:2x4 SP No.2(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: 22-23,21-22,20-21.
REACTIONS	
(size)	20=0-3-8, 22=0-5-1, 32=0-3-8
Max Uplift	20=-428 (LC 3)
Max Grav	20=200 (LC 4), 22=2201 (LC 1), 32=952 (LC 3)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-32=-932/0, 19-20=-72/0, 1-2=-1913/0, 2-3=-1913/0, 3-4=-3893/0, 4-5=-3893/0, 5-6=-4432/0, 6-7=-4432/0, 7-9=-3729/0, 9-11=-3729/0, 11-12=-1752/0, 12-13=0/1328, 13-14=0/1328, 14-15=0/3690, 15-16=0/3690, 16-17=-59/1775, 17-18=-59/1775, 18-19=0/0
BOT CHORD	31-32=0/0, 30-31=0/3064, 29-30=0/4327, 27-29=0/4185, 25-27=0/1752, 24-25=0/1752, 23-24=0/1752, 22-23=-3081/0, 21-22=-2802/0, 20-21=-854/211
WEBS	11-25=-642/0, 12-24=0/686, 15-22=-182/0, 11-27=0/2291, 9-27=-473/0, 7-27=-550/0, 7-29=0/316, 6-29=-181/0, 5-29=0/119, 5-30=-491/0, 4-30=-167/0, 3-30=0/938, 3-31=-1303/0, 2-31=-205/0, 1-31=0/2086, 12-23=-3217/0, 13-23=-58/301, 14-23=0/2139, 14-22=-1341/0, 18-20=-238/967, 18-21=-1043/0, 17-21=-176/0, 16-21=0/1357, 16-22=-1357/0

- 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 3x6 MT20 unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 20.
 - 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.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 13,2025

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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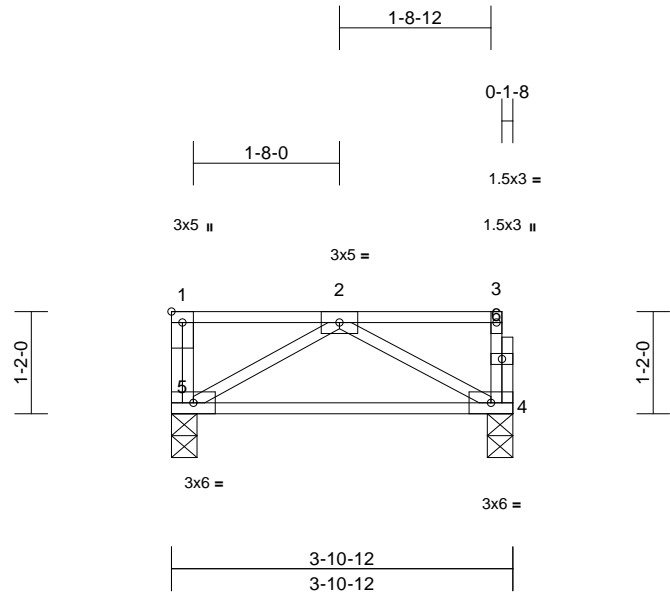
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	F05	Floor	2	1	I70700754
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:38
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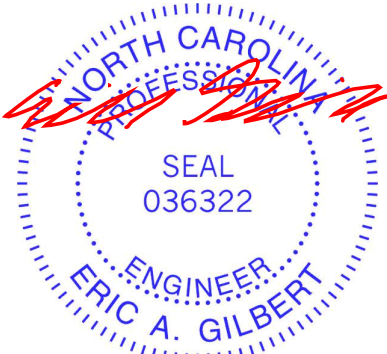
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Plate Offsets (X, Y): [1:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.03	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 22 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 3-10-12 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 4=0-3-8, 5=0-3-8
- Max Grav 4=458 (LC 1), 5=474 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-5=-171/0, 3-4=-171/0, 1-2=0/0, 2-3=-10/0
- BOT CHORD 4-5=0/490
- WEBS 2-5=-567/0, 2-4=-550/0

- NOTES**
- 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.
- 2) CAUTION, Do not erect truss backwards.
- 3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 4-5=-10, 1-3=-250 (F=-150)



January 13,2025

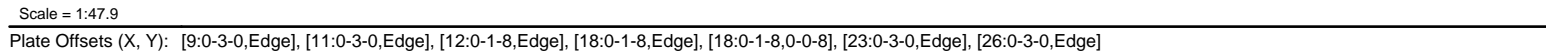
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ID:FisgYYHCW6NfUmRtJFC12Wzwhyl-RfC?PsB70Hq3NSgPqnL8w3uITXBgKWrCDoi7J4zJC?f



LUMBER		2) All plates are MT20 plates unless otherwise indicated.
TOP CHORD	2x4 SP No.2(flat)	3) All plates are 3x6 MT20 unless otherwise indicated.
BOT CHORD	2x4 SP No.2(flat)	4) 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.
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	5) CAUTION, Do not erect truss backwards.
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals	LOAD CASE(S) Standard

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-31=-78/0, 18-19=-721/0, 1-2=0/0,
2-3=-1543/0, 3-4=-1543/0, 4-5=-1608/49,
5-6=-1608/49, 6-7=-248/658, 7-9=-248/658,
9-11=0/1795, 11-12=-1077/354,
12-13=-2487/0, 13-14=-2487/0,
14-15=-2562/0, 15-16=-2562/0,
16-17=-1350/0, 17-18=-1351/0

BOT CHORD

30-31=0/974, 29-30=0/1744,
28-29=-320/1096, 26-28=-1795/0,
24-26=-354/1077, 23-24=-354/1077,
22-23=-354/1077, 21-22=0/2640,
20-21=0/2114, 19-20=0/0

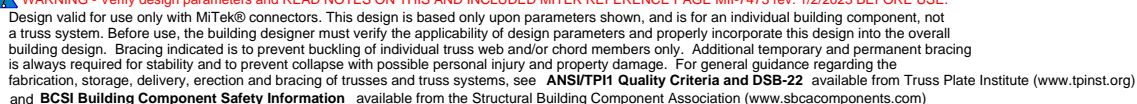
WEBS

9-26=-792/0, 11-24=0/481, 12-23=-487/0,
2-31=-1094/0, 2-30=0/644, 3-30=-161/0,
4-30=-228/90, 4-29=-262/0, 5-29=-166/0,
6-29=0/687, 6-28=-1063/0, 7-28=-196/0,
9-28=0/1650, 11-26=-2620/0, 12-22=0/1759,
13-22=-434/0, 14-22=-256/0, 14-21=-88/96,
15-21=-181/0, 16-21=0/507, 16-20=-865/0,
17-20=-186/0, 18-20=0/1484

1) Unbalanced floor live loads have been considered for this design.

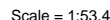


January 13, 2025



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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:39 Page: 1
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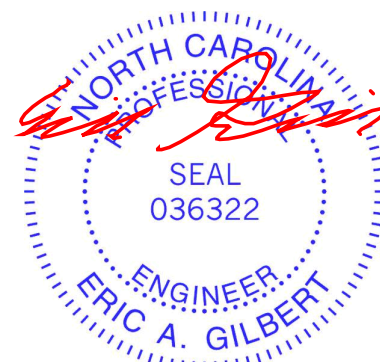
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.28	28-29	>789	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.38	28-29	>582	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TP12014	Matrix-MSH							Weight: 242 lb	FT = 20%F, 11%E

WEBS 9-34=-794/0, 11-32=0/616, 12-31=-633/0,
2-39=-1054/32, 2-37=-118/605, 4-37=-162/0,
5-37=-188/263, 5-36=-429/0, 6-36=-167/0,
7-36=0/855, 7-35=-1227/0, 8-35=-205/0,
9-35=0/1860, 11-34=-3441/0, 12-29=0/2604,
14-29=-560/0, 15-29=-664/0, 15-28=0/480,
16-28=-190/0, 17-28=-67/7, 17-27=-367/0,
18-27=-169/0, 19-27=0/813, 19-25=-1190/0,
21-25=-159/0, 22-25=0/1580, 22-24=-1010/0

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 3x6 MT20 unless otherwise indicated.
- 4) 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.
- 5) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



January 13, 2025



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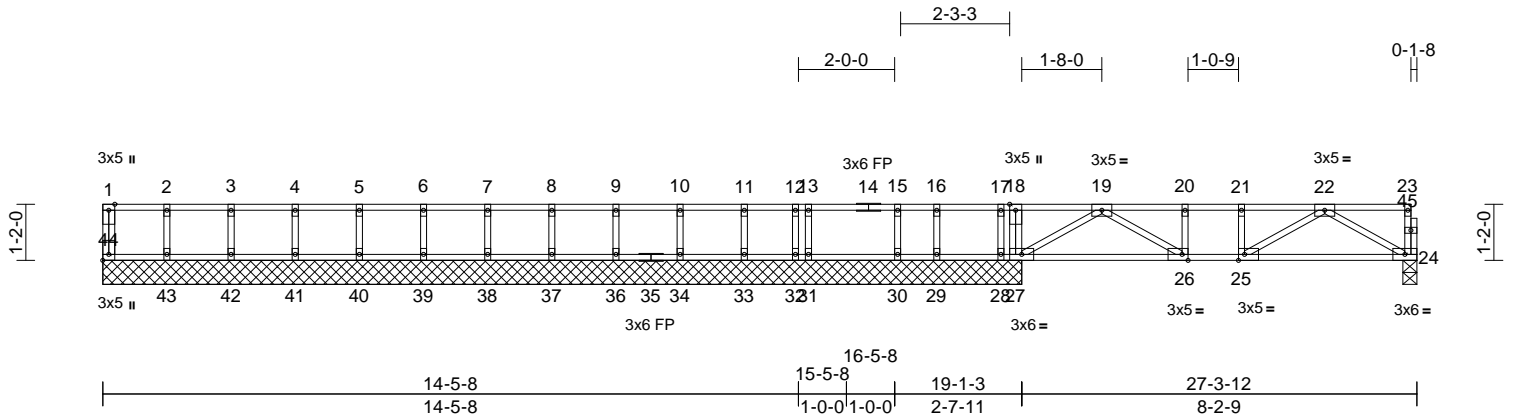
Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	F08	Floor	1	1	I70700757
Job Reference (optional)					

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:39

Page: 1

ID:tNVfkGjHBti75fJvzbJuivzwhv9-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?i



Scale = 1:47.9

Plate Offsets (X, Y): [25:0-1-8,Edge], [26:0-1-8,Edge], [44:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.02	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.04	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 123 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)

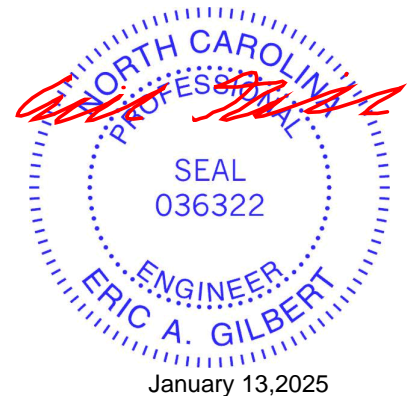
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 24=0-3-8, 27=19-1-3, 28=19-1-3, 29=19-1-3, 30=19-1-3, 31=19-1-3, 32=19-1-3, 33=19-1-3, 34=19-1-3, 36=19-1-3, 37=19-1-3, 38=19-1-3, 39=19-1-3, 40=19-1-3, 41=19-1-3, 42=19-1-3, 43=19-1-3, 44=19-1-3
Max Uplift 28=141 (LC 4), 32=16 (LC 1)
Max Grav 24=439 (LC 4), 27=627 (LC 4), 28=70 (LC 3), 29=100 (LC 1), 30=161 (LC 3), 31=202 (LC 1), 32=6 (LC 4), 33=137 (LC 1), 34=149 (LC 3), 36=146 (LC 1), 37=147 (LC 3), 38=147 (LC 1), 39=147 (LC 1), 40=147 (LC 1), 41=147 (LC 1), 42=145 (LC 1), 43=156 (LC 1), 44=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-44=-47/0, 23-24=-68/0, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=0/0, 9-10=0/0, 10-11=0/0, 11-12=0/0, 12-13=0/0, 13-15=0/0, 15-16=0/0, 16-17=0/0, 17-18=0/0, 18-19=0/0, 19-20=-865/0, 20-21=-865/0, 21-22=-865/0, 22-23=-4/0

BOT CHORD 43-44=0/0, 42-43=0/0, 41-42=0/0, 40-41=0/0, 39-40=0/0, 38-39=0/0, 37-38=0/0, 36-37=0/0, 34-36=0/0, 33-34=0/0, 32-33=0/0, 31-32=0/0, 30-31=0/0, 29-30=0/0, 28-29=0/0, 27-28=0/0, 26-27=0/585, 25-26=0/865, 24-25=0/615
WEBS 12-32=0/12, 15-30=-147/0, 18-27=-205/0, 19-27=-677/0, 22-24=-707/0, 19-26=0/327, 22-25=0/292, 20-26=-152/0, 21-25=-123/0, 2-43=-142/0, 3-42=-131/0, 4-41=-134/0, 5-40=-133/0, 6-39=-133/0, 7-38=-133/0, 8-37=-134/0, 9-36=-133/0, 10-34=-136/0, 11-33=-124/0, 13-31=-181/0, 16-29=-89/0, 17-28=-103/89

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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) N/A
 - 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.
- LOAD CASE(S)** Standard



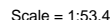
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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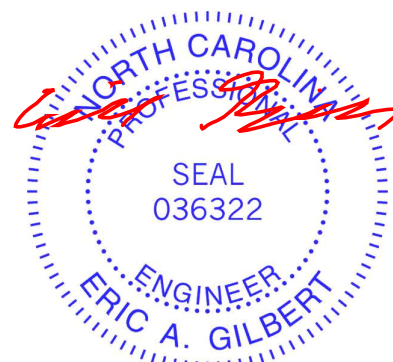
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Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:39 Page: 1
ID:twYWtv7cAK JAty1a6ws44zwhud-RfC?PsB70Hg3NSaPqnL8w3ulTXbGKWRcDoi7J4zJC?f



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)	-0.20	33-34	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.27	33-34	>827	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.02	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TP12014	Matrix-MSH							Weight: 242 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard



January 13, 2025

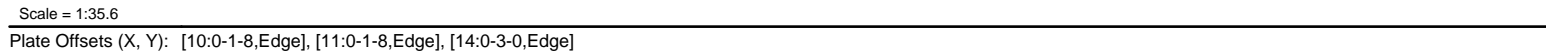


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ID:qaCisOMXi9NcyoshBbmJL5zwhuK-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCdoi7J4zJC?f



LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 20-13,16-13:2x4 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 10-0-0 oc bracing.
REACTIONS	
(size)	13= Mechanical, 22=0-3-8
Max Grav	13=662 (LC 1), 22=657 (LC 1)
FORCES	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-644/0, 12-13=-24/45, 1-2=-1260/0, 2-3=-1260/0, 3-4=-2588/0, 4-5=-2588/0, 5-6=-3009/0, 6-7=-3009/0, 7-8=-2660/0, 8-10=-2660/0, 10-11=-1523/0, 11-12=0/0
BOT CHORD	21-22=0/41, 19-21=0/2026, 18-19=0/2911, 17-18=0/2933, 15-17=0/1523, 14-15=0/1523, 13-14=0/1523
WEBS	10-15=-644/0, 11-14=0/659, 10-17=0/1313, 8-17=-170/0, 7-17=-321/0, 7-18=-14/95, 6-18=-105/0, 5-18=0/113, 5-19=-371/0, 4-19=-105/0, 3-19=0/645, 3-21=-881/0, 2-21=-139/0, 1-21=0/1352, 11-13=-1772/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) CAUTION. Do not erect truss backwards.

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-TR-17-0169, 1/12/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

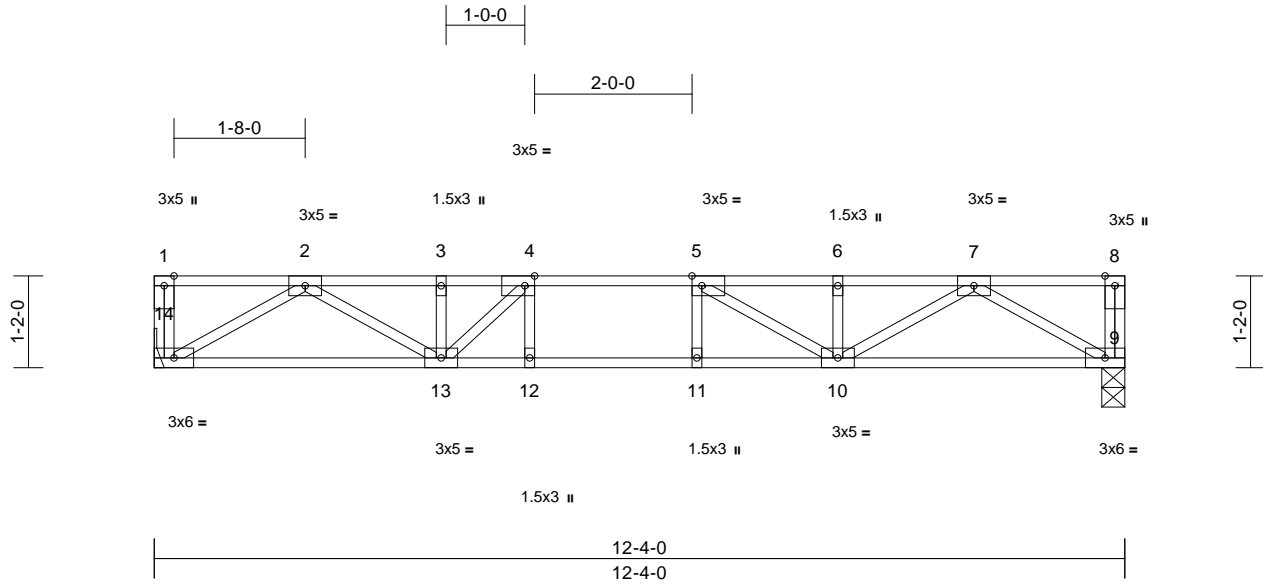
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	F11	Floor	8	1	I70700760
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:39
ID:4Cx4j9vpZUWSJTelhU3KX4zwhsK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.3

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,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	0.34	Vert(LL)	-0.07	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 64 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
6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 9=0-3-8, 14= Mechanical
Max Grav 9=443 (LC 1), 14=443 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-14=-48/0, 8-9=-50/0, 1-2=0/0, 2-3=-1065/0,
3-4=-1065/0, 4-5=-1258/0, 5-6=-1081/0,
6-7=-1081/0, 7-8=0/0

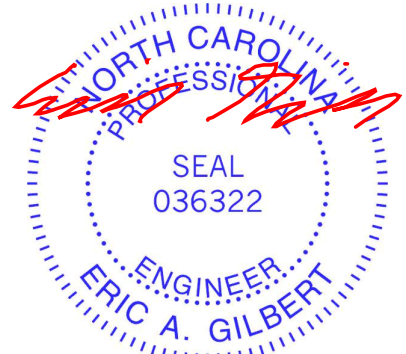
BOT CHORD 13-14=0/662, 12-13=0/1258, 11-12=0/1258,
10-11=0/1258, 9-10=0/661

WEBS 7-9=-764/0, 2-14=-765/0, 7-10=0/491,
2-13=0/471, 6-10=-140/7, 3-13=-100/54,
5-10=-330/0, 4-13=-380/0, 4-12=-36/83,
5-11=-51/41

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.

LOAD CASE(S) Standard



January 13, 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)

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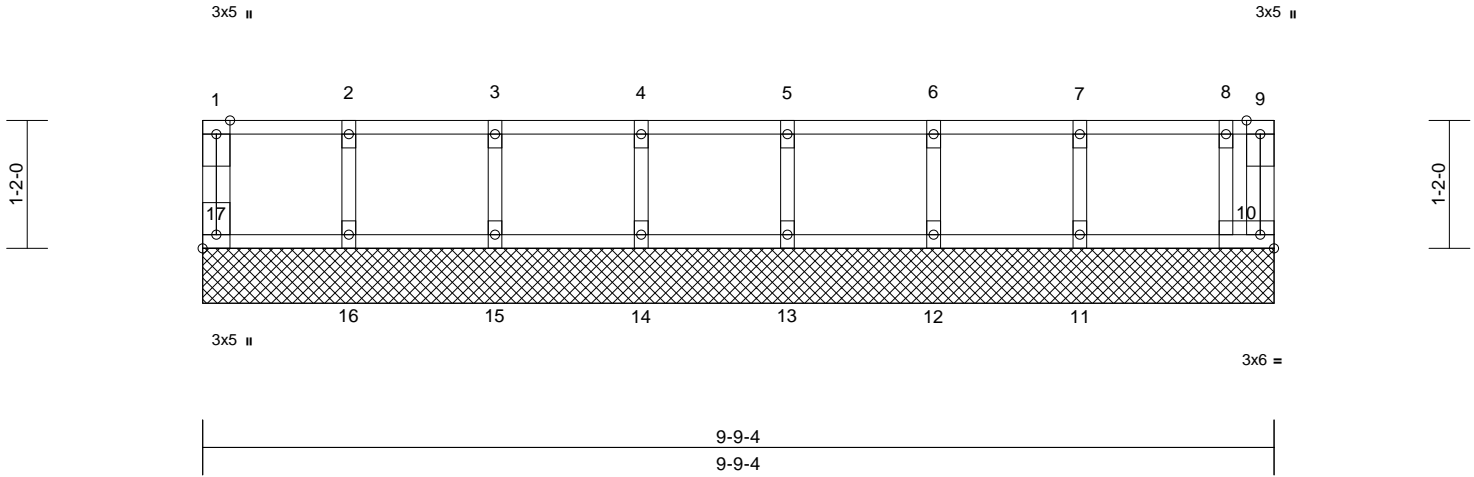
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	FW09	Floor Supported Gable	1	1	I70700761
Job Reference (optional)					

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Fri Jan 10 17:18:39
ID:vAtehba7?hMfDVFxyahL5zwhrR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:21

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 44 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.

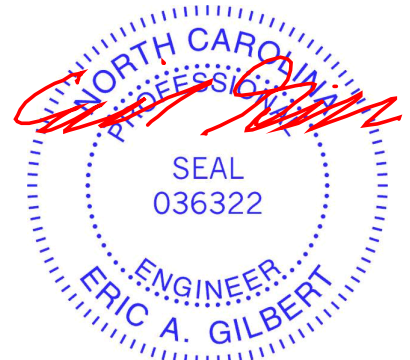
REACTIONS (size) 10=9-9-4, 11=9-9-4, 12=9-9-4,
13=9-9-4, 14=9-9-4, 15=9-9-4,
16=9-9-4, 17=9-9-4
Max Grav 10=95 (LC 1), 11=161 (LC 1),
12=143 (LC 1), 13=148 (LC 1),
14=146 (LC 1), 15=150 (LC 1),
16=134 (LC 1), 17=70 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-17=-60/0, 9-10=0/4, 1-2=-17/0, 2-3=-17/0,
3-4=-17/0, 4-5=-17/0, 5-6=-17/0, 6-7=-17/0,
7-8=-17/0, 8-9=0/0
BOT CHORD 16-17=0/17, 15-16=0/17, 14-15=0/17,
13-14=0/17, 12-13=0/17, 11-12=0/17,
10-11=0/17
WEBS 2-16=-126/0, 3-15=-135/0, 4-14=-133/0,
5-13=-134/0, 6-12=-131/0, 7-11=-143/0,
8-10=-96/0

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) 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.



January 13, 2025

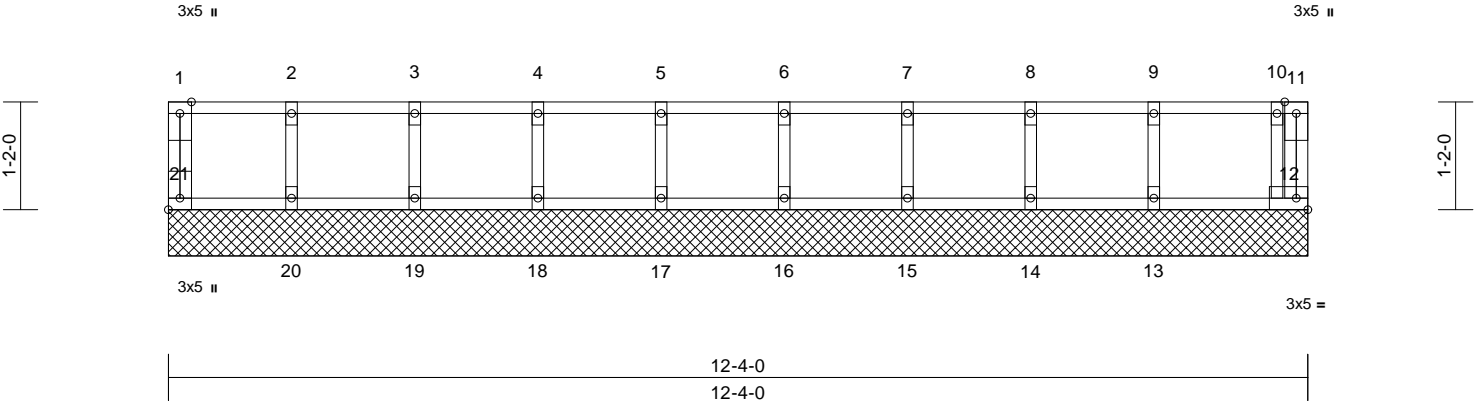
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	FW12	Floor Supported Gable	1	1	I70700762
Job Reference (optional)					



Scale = 1:24.9

Plate Offsets (X, Y): [21:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	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	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							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)
- 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.
- LOAD CASE(S)** Standard

- 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=12-4-0, 13=12-4-0, 14=12-4-0,
15=12-4-0, 16=12-4-0, 17=12-4-0,
18=12-4-0, 19=12-4-0, 20=12-4-0,
21=12-4-0
Max Grav 12=86 (LC 1), 13=159 (LC 1),
14=143 (LC 1), 15=148 (LC 1),
16=146 (LC 1), 17=147 (LC 1),
18=146 (LC 1), 19=149 (LC 1),
20=136 (LC 1), 21=68 (LC 1)

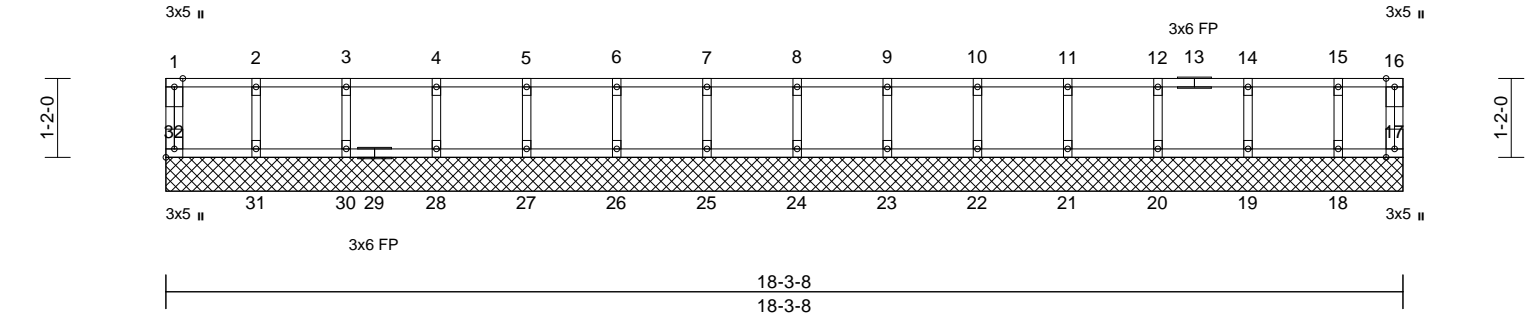
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-59/0, 11-12=0/13, 1-2=-15/0,
2-3=-15/0, 3-4=-15/0, 4-5=-15/0, 5-6=-15/0,
6-7=-15/0, 7-8=-15/0, 8-9=-15/0, 9-10=-15/0,
10-11=-3/0
BOT CHORD 20-21=0/15, 19-20=0/15, 18-19=0/15,
17-18=0/15, 16-17=0/15, 15-16=0/15,
14-15=0/15, 13-14=0/15, 12-13=0/15
WEBS 2-20=-127/0, 3-19=-135/0, 4-18=-133/0,
5-17=-133/0, 6-16=-133/0, 7-15=-134/0,
8-14=-131/0, 9-13=-142/0, 10-12=-94/0

- 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.



January 13,2025

Job	Truss	Truss Type	Qty	Ply	29 Hidden Lakes North-2nd Floor-Plan 10 GLH
25100038-A	FW18	Floor Supported Gable	1	1	I70700763
Job Reference (optional)					

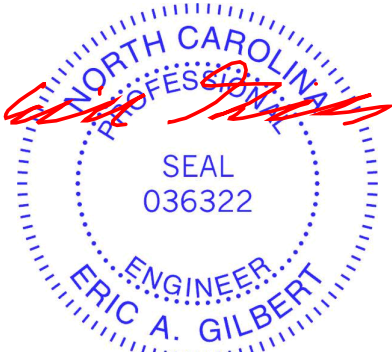


Scale = 1:34.1									
Plate Offsets (X, Y): [32:Edge,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	17	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR					
					PLATES		GRIP		
					MT20		244/190		
					Weight: 78 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)	
17=18-3-8, 18=18-3-8, 19=18-3-8, 20=18-3-8, 21=18-3-8, 22=18-3-8, 23=18-3-8, 24=18-3-8, 25=18-3-8, 26=18-3-8, 27=18-3-8, 28=18-3-8, 30=18-3-8, 31=18-3-8, 32=18-3-8	
Max Grav	17=40 (LC 1), 18=120 (LC 1), 19=152 (LC 1), 20=145 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=147 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=59 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-32=-55/0, 16-17=-34/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-14=-7/0, 14-15=-7/0, 15-16=-7/0
BOT CHORD	31-32=0/7, 30-31=0/7, 28-30=0/7, 27-28=0/7, 26-27=0/7, 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7, 17-18=0/7
WEBS	2-31=-132/0, 3-30=-134/0, 4-28=-133/0, 5-27=-133/0, 6-26=-133/0, 7-25=-133/0, 8-24=-133/0, 9-23=-133/0, 10-22=-133/0, 11-21=-134/0, 12-20=-132/0, 14-19=-138/0, 15-18=-112/0

- 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) 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.

LOAD CASE(S) Standard



January 13,2025

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

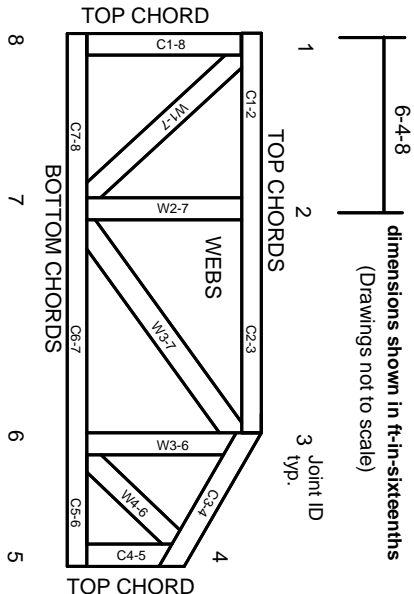


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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



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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023



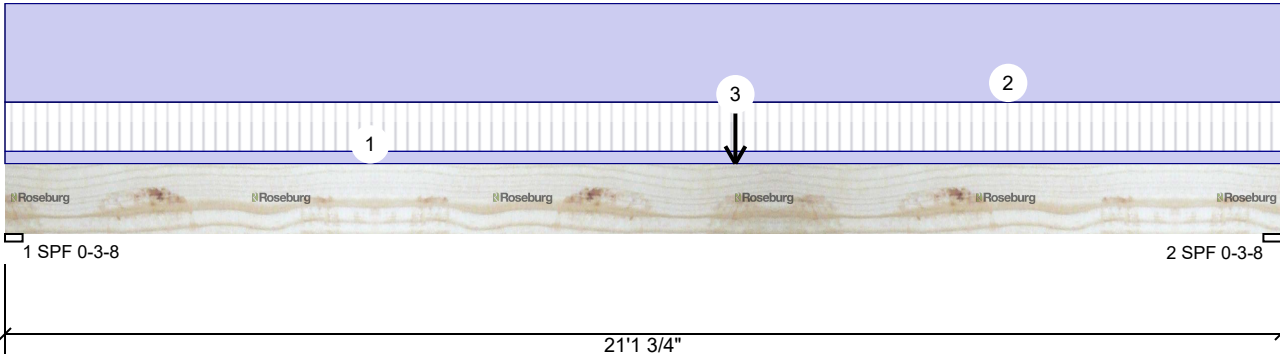
Client:
Project:
Address:

Date: 10/10/2025
Input by:
Job Name: 25100038 - A
Project #:

Page 1 of 2

FB2-4 2.1E RigidLam LVL SP 1.750" X 14.000" 4-Ply - PASSED

Level: Level



Member Information

Type: Girder
Plies: 4
Moisture Condition: Dry
Deflection LL: 480
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F

Application: Floor
Design Method: ASD
Building Code: IBC/IRC 2015
Load Sharing: Yes
Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	423	4236	0	0	0
2	Vertical	423	5272	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	45%	4236 / 423	4659	L	D+L
2 - SPF	3.500"	Vert	55%	5272 / 423	5695	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	41614 ft-lb	12'1 1/4"	53613 ft-lb	78%	D	Uniform
Unbraced	43707 ft-lb	12'1 1/4"	43947 ft-lb	99%	D+L	L
Shear	5111 lb	19'8 1/4"	17052 lb	30%	D	Uniform
LL Defl inch	0.051 (L/4826)	10'6 15/16"	0.517 (L/480)	10%	L	L
TL Defl inch	0.884 (L/281)	11'1 1/8"	1.034 (L/240)	85%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 4'3 7/8" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Near Face	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	standard
2	Uniform			Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
3	Point	12-1-4		Top	7000 lb	0 lb	0 lb	0 lb	0 lb	girder above
	Bearing Length	0-3-8								
	Self Weight				29 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/14/2027

Manufacturer Info

Roseburg Forest Products
3661 Gateway Street
Springfield, OR 97477
(541) 679-3311
www.roseburg.com
APA: PR-L289, ICC-ES: ESR-1210



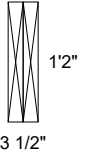
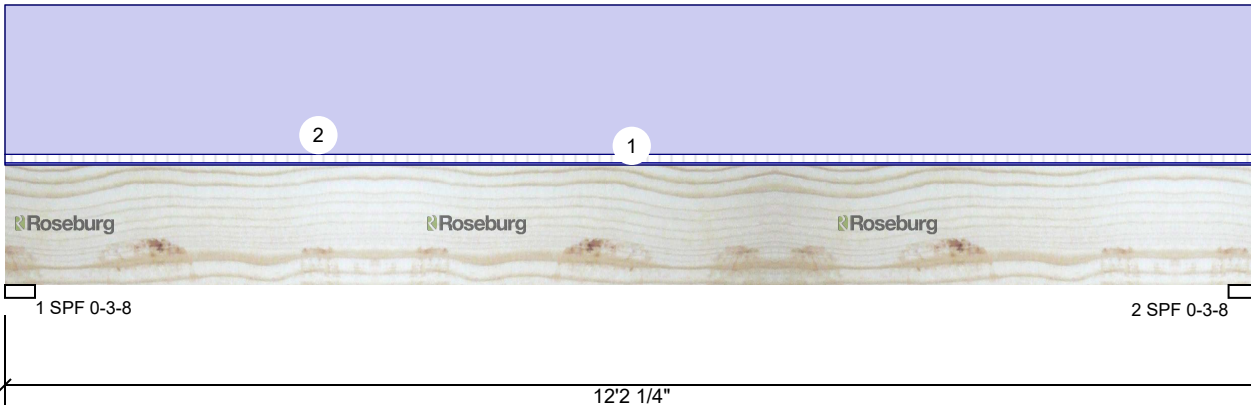
Client:
Project:
Address:

Date: 10/10/2025
Input by:
Job Name: 25100038 - A
Project #:

Page 2 of 2

FB3-2 2.1E RigidLam LVL SP 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 480
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F

Application: Floor
Design Method: ASD
Building Code: IBC/IRC 2015
Load Sharing: No
Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	244	4414	0	0	0
2	Vertical	244	4414	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	89%	4414 / 244	4657	L	D+L
2 - SPF	3.500"	Vert	89%	4414 / 244	4657	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12455 ft-lb	6'1 1/8"	25775 ft-lb	48%	D	Uniform
Unbraced	13143 ft-lb	6'1 1/8"	13160 ft-lb	100%	D+L	L
Shear	3357 lb	10'8 3/4"	8526 lb	39%	D	Uniform
LL Defl inch (L/12056)	0.012	6'1 1/8"	0.293 (L/480)	4%	L	L
TL Defl inch (L/631)	0.223	6'1 1/8"	0.586 (L/240)	38%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 7'9 3/4" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform			Top	700 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				14 PLF					

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/14/2027

Manufacturer Info

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Springfield, OR 97477
(541) 679-3311
www.roseburg.com
APA: PR-L289, ICC-ES: ESR-1210