

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

Phone #:919-775-1450

# Builder: HH Hunt Homes Raleigh Durham

# Model: Chatham FA MNR SP 3FL SL 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: \_\_\_\_\_

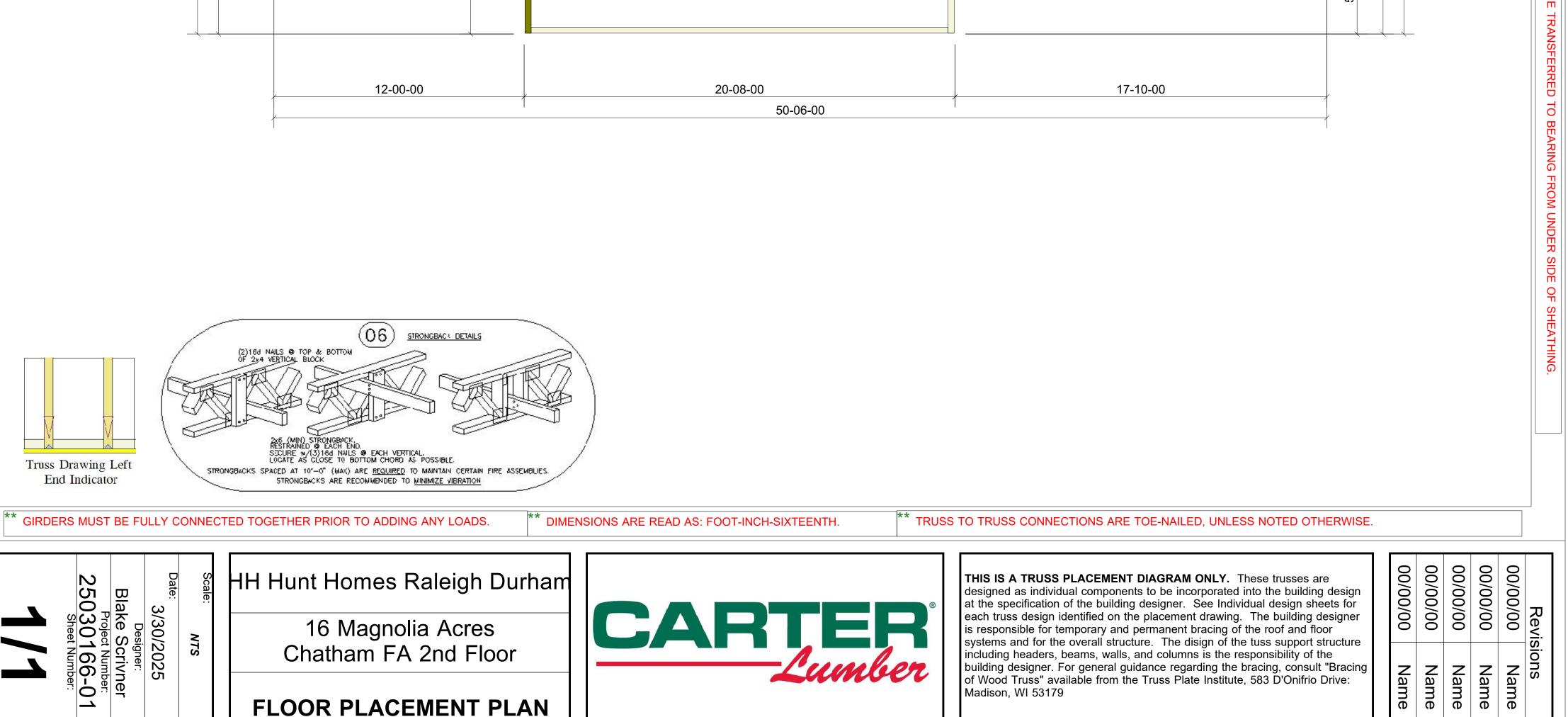
Date: \_\_\_\_\_

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<b>General Notes:</b>	
** 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 T	

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

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



FLOOR 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 disign 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 Madison, WI 53179

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



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25030166-A Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP 3FL SL GLH

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: I72384862 thru I72384882

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

North Carolina COA: C-0844



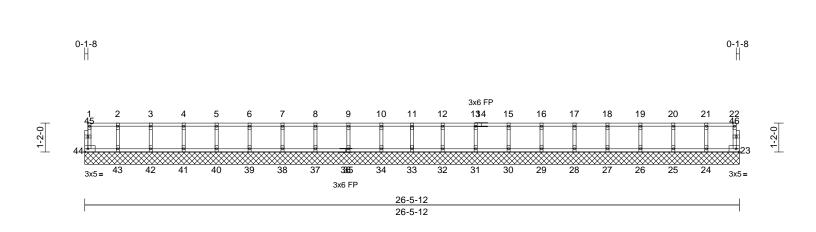
April 1,2025

Galinski, John

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

Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F201	Floor Supported Gable	1	1	I72384862 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:24:59 ID:8z3lSjR07YnVdcC1ZieWQ7zP9Fq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:46.6

Scale = 1:46.6												
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2021/TPI2014	CSI TC BC WB Matrix-MR	0.16 0.01 0.06	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 23	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 109 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc purlins, exe Rigid ceiling directly bracing. (size) 23=26-5-1 27=26-5-1 27=26-5-1 33=26-5-1 33=26-5-1 38=26-5-1 42=26-5-1 42=26-5-1 42=26-5-1 44=26-5-1 Max Grav 23=96 (LC 25=255 (L 25=255 (L 33=231 (L 35=253 (L) 35=253 (L) 35=255 (L) 35=25	applied or 10-0-0 oc 12, 24=26-5-12, 12, 26=26-5-12, 12, 30=26-5-12, 12, 32=26-5-12, 12, 32=26-5-12, 12, 32=26-5-12, 12, 37=26-5-12, 12, 37=26-5-12, 12, 37=26-5-12, 12, 41=26-5-12, 12, 41=26-5-12, 1	WEBS WEBS NOTES 1) All plates 2) Gable rec 3) Truss to b braced ac 4) Gable stu 5) Load case designer 10-00-00 (0.131" X at their ou LOAD CASE 1) Dead + 1 Plate Inc Uniform	2-3=-16/0, 3-4=-1 6-7=-16/0, 7-8=-1 10-11=-16/0, 11-1 13-15=-16/0, 15-1 17-18=-16/0, 18-1 20-21=-16/0, 21-2	6/0, 4-5= 6/0, 8-9= 2=-16/0, 6=-16/0, 9=-16/0, 2=-16/0, 2=-16/0 3=0/16, 4 9=-0/16, 3 3=-0/16, 3 3=-0/16, 3 3=-0/16, 3 3=-0/16, 2 4=-0/16, 2 4=-0/16, 2 4=-242/0, 25=-242/0, 25=-242/2, 28=-240/31=-242/2 ass other tom choon n one face ent (i.e. of c. n modified verify this s. on edge ach trussi- ks to be d by other b: Lumbe	-16/0, 5-6=-16 -16/0, 9-10=-1 12-13=-16/0, 10-17=-16/0, 11-22=-16/0, 11-22=-16/0, 11-22=-16/0, 11-22=-16/0, 11-22=-16/0, 11-22=-16/0, 11-22=-0/16, 8-29=0/16, 5-26=0/16, 4-41=-240/0, 7-38=-240/0, 10-34=-232/0 (0, 10-26=-244 (0, 12-32=-232) wise indicated d bearing. e or securely iagonal web). d. Building at they are cord s with 3-10d attached to was er means.	9, 5, 5, 5, 5, 0, 5, 0, 5, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 2, 0, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,				SEA 2867	RO RO L T T T T T T T T T T T T T T T T T T

April 1,2025

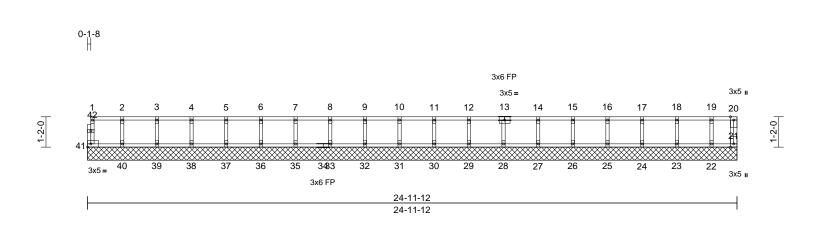
Page: 1



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 **ANSUTPI1 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	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F209	Floor Supported Gable	1	1	I72384863 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:XTeBpUfFQaajKdkXGZzGHPzP9Gr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:44.3

Scale = 1:44.3															
Loading TCLL TCDL BCLL BCDL		(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO	021/TPI2014	CSI TC BC WB	0.17 0.05 0.06	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 21	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190	0/ E
BCDL		5.0	Code	IRUZ	021/1912014	Matrix-MR							weight: 104 lb	FT = 20%F, 119	%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc p Rigid ceilir bracing. (size)	.2(flat) .3(flat) .3(flat) wood she urlins, exi- ng directly 21=24-11 23=24-11 25=24-11 27=24-11	athing directly applie cept end verticals. applied or 10-0-0 oc -12, 22=24-11-12, -12, 24=24-11-12, -12, 26=24-11-12, -12, 28=24-11-12,	;	WEBS NOTES 1) All plates ar	40-41=0/8, 39-40= 36-37=0/8, 35-36= 31-32=0/8, 30-31= 27-28=0/17, 26-27 24-25=0/17, 23-24 21-22=0/17 2-40=-240/0, 3-39 5-37=-240/0, 6-36 8-33=-240/0, 9-32 11-30=-238/0, 12= 14-27=-234/0, 15= 17-24=-238/0, 18=	=0/8, 33- =0/8, 29- 7=0/17, 2 4=0/17, 2 =-240/0, =-240/0, =-240/0, 29=-246 26=-241 23=-248 ess other	35=0/8, 32-33 30=0/8, 28-29 5-26=0/17, 2-23=0/17, 4-38=-240/0, 7-35=-240/0, 10-31=-240/0 (0, 13-28=-24 (0, 16-25=-24) (0, 19-22=-20) wise indicated	3=0/8, 0=0/8, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,						
FORCES	Max Grav	31=24-11 33=24-11 36=24-11 38=24-11 40=24-11 21=80 (LC 23=264 (L 25=254 (L 27=248 (L 29=260 (L 31=254 (L 33=253 (L 38=253 (L 38=254 (L 40=259 (L	-12, 30=24-11-12, -12, 32=24-11-12, -12, 35=24-11-12, -12, 35=24-11-12, -12, 39=24-11-12, -12, 41=24-11-12 C 1), 22=201 (LC 1), C 1), 24=251 (LC 1), C 1), 26=255 (LC 1), C 1), 30=253 (LC 1), C 1), 30=253 (LC 1), C 1), 35=253 (LC 1), C 1), 35=253 (LC 1), C 1), 37=253 (LC 1), C 1), 39=252 (LC 1), C 1), 39=252 (LC 1), C 1), 41=86 (LC 1), pression/Maximum	,  ,  ,  ,	<ol> <li>Truss to be braced agai</li> <li>Gable studs</li> <li>Load case(s designer mu for the inten</li> <li>Recomment 10-00-00 co (0.131" X 3" at their oute</li> <li>CAUTION, I</li> <li>LOAD CASE(S)</li> <li>Dead + Flor Plate Incre Uniform Lo</li> </ol>	oor Live (balanced) ase=1.00	n one fac ent (i.e. c oc. n modifie verify th ss. , on edge ach truss ks to be d by oth backware ): Lumbe	e or securely liagonal web) d. Building at they are co a, spaced at s with 3-10d attached to w arr means. ds.	rrect alls			Number of the second se	SEA 2867	ROUT	
TOP CHORD	Tension 1-41=-86/0 3-4=-8/0, 4 7-8=-8/0, 8 11-12=-8/0	), 20-21=- 4-5=-8/0, 5 3-9=-8/0, 9 ), 12-14=-	67/0, 1-2=-8/0, 2-3=- 5-6=-8/0, 6-7=-8/0, 5-10=-8/0, 10-11=-8/0 17/0, 14-15=-17/0, 5-17/0, 17-18=-17/0,	,	Volt. 21	41- 10, 1 20- 10	0						SEA 2867 OKN L. G	FR. CH.	ninne.
	18-19=-17	,	, , ,										L.G.		

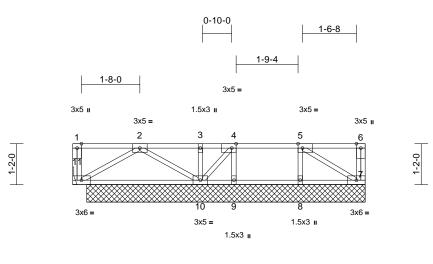
April 1,2025

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Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F217	Floor	1	1	I72384864 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:nid89ey2kfDoLh3gHTpSvHzP98i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:32.9

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge]

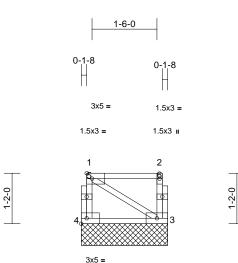
Loading TCLL TCDL	(psf) 40.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.38 0.16	DEFL Vert(LL) Vert(CT)	in n/a -0.01		l/defl n/a >999	L/d 999 360	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	NO IRC2021/TPI2014	WB Matrix-MP	0.10	Horz(CT)	0.00	7	n/a	n/a	Weight: 45 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 7=7-11-7, 10=7-11-7 Max Grav 7=131 (LC	athing directly applie cept end verticals. applied or 10-0-0 or , 8=7-11-7, 9=7-11-7 7, 11= Mechanical	ed or c , 9=143								Weight. Yo ib	11 - 20701, 1170L
FORCES TOP CHORD BOT CHORD WEBS	3-4=0/85, 4-5=-11/0 10-11=0/269, 9-10= 4-9=-145/0, 2-11=-3 3-10=-214/0, 4-10=-	18/0, 1-2=0/0, 2-3=0 , 5-6=0/0 0/11, 8-9=0/11, 7-8= .11/0, 2-10=-414/0,	,									
<ul> <li>this design</li> <li>Refer to gi</li> <li>Load case</li> <li>designer n</li> <li>for the inte</li> <li>Recomment</li> <li>10-00-00 (0.131" X interior or at their ou</li> <li>LOAD CASE(10)</li> <li>Dead + F</li> <li>Plate Inc</li> <li>Uniform I</li> </ul>	jirder(s) for truss to trus e(s) 1 has/have been n must review loads to ve ended use of this truss end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks iter ends or restrained	ss connections. nodified. Building erify that they are co n edge, spaced at th truss with 3-10d to be attached to w by other means.	rrect alls							And	SEA 286	EEP. Stuning

ENGINEERING BY A MITEK Affiliate

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 outlapse 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/TP11 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	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F221	Floor Supported Gable	1	1	I72384865 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:AXvjR\_j7UDPg9UKR?luN?szP93r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





<u>2-0-0</u> 2-0-0

Scale = 1:26.6

Scale = 1.20.0														
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	тс	0.41	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	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a				
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%F, 11%E		
LUMBER														
TOP CHORD	2x4 SP No.2(flat)													
BOT CHORD	2x4 SP No.2(flat)													
WEBS	NEBS 2x4 SP No.3(flat)													
OTHERS	DTHERS 2x4 SP No.3(flat)													
BRACING	BRACING													
TOP CHORD	TOP CHORD Structural wood sheathing directly applied or													
	2-0-0 oc purlins, ex	cept end verticals.												
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	0											
bracing.														
REACTIONS (size) 3=2-0-0, 4=2-0-0 Max Grav. 3=155 (I.C. 1) 4=155 (I.C. 1)														
Max Grav 3=155 (LC 1), 4=155 (LC 1) FORCES (Ib) - Maximum Compression/Maximum														
FORCES		npression/Maximum												
	Tension													
TOP CHORD BOT CHORD	1-4=-146/0, 2-3=-14 3-4=0/9	6/0, 1-2=-9/0												
WEBS	3-4=0/9 1-3=0/0													
NOTES	1-3=0/0													
		m abord booring												
	uires continuous botto e fully sheathed from (													
	ainst lateral movemen													
	ds spaced at 1-4-0 oc.	(i.e. diagonal web).												
	(s) 1 has/have been n	nodified. Building										111.		
designer n	nust review loads to ve	erify that they are co	rrect								" ULCA	Dille		
	ended use of this truss										"ath	10/11		
	nd 2x6 strongbacks, c									S	O LESS	A.M.		
	oc and fastened to eac									5 3	101	1.7.		
	<ul> <li>braced against lateral movement (i.e. diagonal web).</li> <li>Gable studs spaced at 1-4-0 oc.</li> <li>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.</li> <li>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.</li> <li>LOAD CASE(S) Standard</li> <li>Dead + Floor Live (balanced): Lumber Increase=1.00,</li> </ul>													
	at their outer ends or restrained by other means. OAD CASE(S) Standard SEAL													
			20						=		SEA	L : E		
<ol> <li>Dead + F</li> </ol>	loor Live (balanced): I	Lumber Increase=1.0	JU,								0000			

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)
  - Vert: 3-4=-10, 1-2=-180

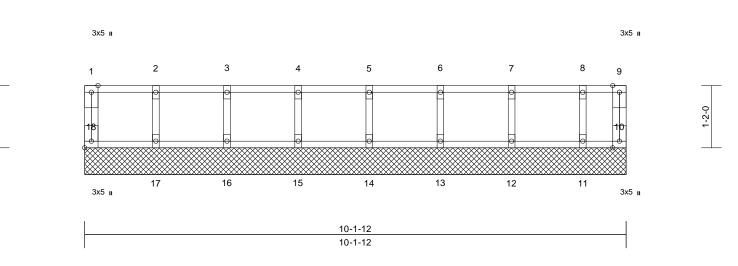


Page: 1



Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F216	Floor Supported Gable	1	1	I72384866 Job Reference (optional)
Carter Components (Sanford, NC	C), Sanford, NC - 27332,	Run: 8.73 S Feb 19 2	2025 Print: 8.	730 S Feb 19	9 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 Page: 1

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:KCK1dQ?3xaWp6fU9hTL4FwzP963-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:21.6

1-2-0

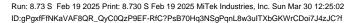
Plate Offsets (	(X, Y): [18:Edge,0-1-8	3]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 45 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 10=10-1- 12=10-1- 16=10-1- 18=10-1- Max Grav 10=55 (L0 12=264 (L) 16=253 (L) 18=102 (L)	r applied or 10-0-0 oc 12, 11=10-1-12, 12, 13=10-1-12, 12, 15=10-1-12, 12, 17=10-1-12, 12 C 1), 11=193 (LC 1), LC 1), 13=251 (LC 1) LC 1), 17=254 (LC 1) LC 1),	designer for the int 6) Recomm 10-00-00 (0.131" X d or their or LOAD CASE 1) Dead + Plate Int Uniform Vert:	e(s) 1 has/have be must review loads ended use of this t end 2x6 strongbac oc and fastened to 3") nails. Strongb uter ends or restrai (S) Standard Floor Live (balance crease=1.00 Loads (lb/ft) 10-18=-10, 1-9=-11	to verify the russ. ks, on edge each truss acks to be ned by othe ed): Lumbe	at they are co e, spaced at s with 3-10d attached to w er means.	alls					
FORCES	(lb) - Maximum Corr Tension	pression/Maximum										
TOP CHORD	1-18=-99/0, 9-10=-4	4/0, 1-2=-12/0, 2-3=- 0, 5-6=-12/0, 6-7=-12 0	,								"HTH CA	ROLI
BOT CHORD	,	0/12, 15-16=0/12, 0/12, 12-13=0/12,								in the		Min
WEBS	2-17=-238/0, 3-16=- 5-14=-241/0, 6-13=- 8-11=-192/0	241/0, 4-15=-240/0,									SEA 286	EER. St.
NOTES												1 E
	are 1.5x3 MT20 unless									2	1. 0.	als 3
	uires continuous botto e fully sheathed from o										O. SNGIN	EEN
	ainst lateral movemen									11	YN	"IN",I
	ds spaced at 1-4-0 oc.										11, L. G	AL
,											111111	mm
											٨٣	ril 1 2025

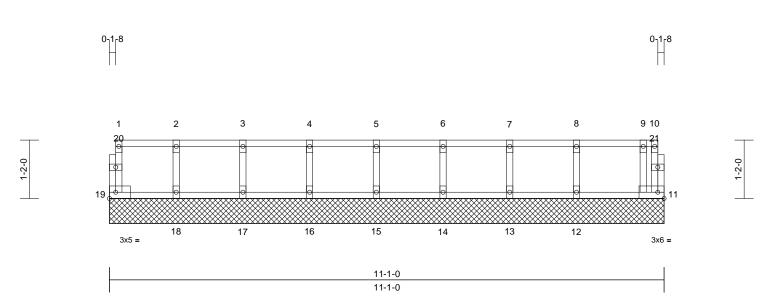
April 1,2025

INFEDING

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 outlapse 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	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F212	Floor Supported Gable	1	1	I72384867 Job Reference (optional)





Scale - 1.23

Scale = 1:23												
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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI201	4 Matrix-MR							Weight: 48 lb	FT = 20%F, 11%E
LUMBER			6) Recom	mend 2x6 strongbacks	s, on edge	e, spaced at						
TOP CHORD	2x4 SP No.2(flat)		´ 10-00-0	0 oc and fastened to	each truss	with 3-10d						
BOT CHORD	2x4 SP No.2(flat)			X 3") nails. Strongba			alls					
NEBS	2x4 SP No.3(flat)		at their	outer ends or restrain	ed by othe	er means.						
OTHERS	2x4 SP No.3(flat)		LOAD CAS	E(S) Standard								
BRACING			1) Dead	+ Floor Live (balanced	d): Lumbe	r Increase=1.	00,					
TOP CHORD	Structural wood she	athing directly applie		ncrease=1.00								
	6-0-0 oc purlins, ex	cept end verticals.		m Loads (lb/ft)								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	c Ver	t: 11-19=-10, 1-10=-18	30							
	bracing.											
REACTIONS		0, 12=11-1-0, 13=11										
	14=11-1-(	0, 15=11-1-0, 16=11	-1-0,									
		0, 18=11-1-0, 19=11										
	Max Grav 11=150 (I											
		LC 1), 14=255 (LC 1										
		LC 1), 16=252 (LC 1										
		LC 1), 18=231 (LC 1	),									
	19=109 (l	,										
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-19=-98/0, 10-11=0											
TOP CHORD	2-3=-29/0, 3-4=-29/0		0/0									
	6-7=-29/0, 7-8=-29/0	, ,	,									
BOT CHORD	18-19=0/29, 17-18=		//0									1111
	15-16=0/29, 14-15=	, ,									N' U CI	Dalle
	12-13=0/29, 11-12=										ath	NO !!!
WEBS	2-18=-227/0, 3-17=-									5	OFFESS	M.M.
	5-15=-240/0, 6-14=-									22		YN S'S
	8-12=-258/0, 9-11=-	, ,								59	S. //	14: 2
NOTES	,								-		ORTH CA	
	are 1.5x3 MT20 unless	s otherwise indicated	4						=		SEA	L : =
	uires continuous botto								=	:	286	
	e fully sheathed from a								1		200	
,	ainst lateral movemen								1			1

braced against lateral movement (i.e. diagonal web). Gable studs spaced at 1-4-0 oc. 4)

Load case(s) 1 has/have been modified. Building 5)

designer must review loads to verify that they are correct for the intended use of this truss.



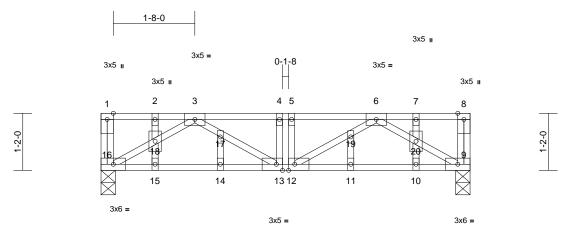
April 1,2025

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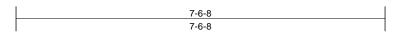


Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F218	Floor	1	1	I72384868 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:e16puh9bptSxzoA12heWMszP9B1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3x5 =



Scale = 1:23.5

# Plate Offsets (X, Y): [12:0-1-8,Edge], [13:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		TC	0.32	Vert(LL)	-0.01	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00		BC	0.44	Vert(CT)	-0.03	13	>999	360		210.000
BCLL	0.0	Rep Stress Incr	NO		WB	0.39	Horz(CT)	0.01	.0	n/a	n/a		
BCDL	5.0	Code	IRC2021/	TPI2014	Matrix-MSH				-			Weight: 46 lb	FT = 20%F, 11%E
									-				
LUMBER			LOA	D CASE(S)									
TOP CHORD	( )		1)		or Live (balanced)	: Lumbe	r Increase=1.	00,					
BOT CHORD	( )			Plate Increa									
WEBS	2x4 SP No.3(flat)			Uniform Loa									
OTHERS	2x4 SP No.3(flat)			Vert: 9-10	6=-10, 1-8=-180								
BRACING													
TOP CHORD			ed or										
	6-0-0 oc purlins, ex		_										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	5										
REACTIONS	(size) 9=0-3-8, 1	16=0-3-8											
	Max Grav 9=693 (L0	C 1), 16=693 (LC 1)											
FORCES	(lb) - Maximum Corr	pression/Maximum											
	Tension												
TOP CHORD			0/0,										
	3-4=-1233/0, 4-5=-1	233/0, 5-6=-1233/0,											
DOTOUDDD	6-7=0/0, 7-8=0/0	~~~~											
BOT CHORD	,	,	,										
	12-13=0/1233, 11-1 9-10=0/942	2=0/942, 10-11=0/94	42,										
WEBS	9-10=0/942 6-20=-1092/0, 9-20=	1087/0 12-10-0/33	32										
WLDO	6-19=0/359, 5-12=-1												1.12
	3-18=-1092/0, 3-17=												in the second se
	4-13=-165/0, 14-17=		.,									TH UA	Roite
	15-18=-40/0, 11-19=	, ,									1	A	in the la
	10-20=-40/0										22	· FFOS	ON. ST.
NOTES											2	SEA 2867	Main a
1) All plates	are 1.5x3 MT20 unless	s otherwise indicated	ł.									N	1 N 1 E
2) Truss to b	e fully sheathed from o	one face or securely								=		SFA	L 1 E
	ainst lateral movemen	t (i.e. diagonal web).								=	- 1	200	77 : 2
	ds spaced at 1-4-0 oc.									=	:	2867	// : :
	e(s) 1 has/have been n												1 3
	nust review loads to ve		rrect								2	·	ains
	ended use of this truss and 2x6 strongbacks, o										1.0	O, NGIN	EFICE
	oc and fastened to eac										11	YN	"IN" I'
	3") nails. Strongbacks		alls									L.G	AL
	iter ends or restrained											in the second se	IIIII.
		.,											ril 1 2025

April 1,2025

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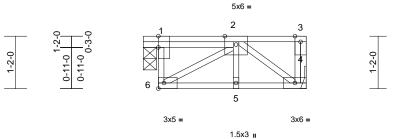


Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F219	Floor	1	1	I72384869 Job Reference (optional)

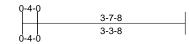
Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:pxyGzOQ0hLwsp2ftEJTHAIzP95W-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3x5 ш



3x6 II



Scale = 1:25.6

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

	, .), [											
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she		ed or									
	3-7-8 oc purlins, except end verticals. 30T CHORD Rigid ceiling directly applied or 10-0-0 oc											
BOTCHORD	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.											
REACTIONS	0	4= Mechanical										
	Max Grav 1=171 (L0											
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-6=0/106, 3-4=-58/											
BOT CHORD	5-6=0/162, 4-5=0/16											
WEBS	2-5=0/17, 2-6=-190/	0, 2-4=-195/0										
NOTES												
	irder(s) for truss to trus and 2x6 strongbacks, o											
	oc and fastened to eac											
	3") nails. Strongbacks		alls									
	ter ends or restrained										minin	Unin.
	een inside of top chord										ORTH CA	Ro
	or vertical web shall no									N	R	S. Alle
4) CAUTION	, Do not erect truss ba	ickwards.									U. FOS	Pail 1

LOAD CASE(S) Standard



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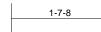
Page: 1

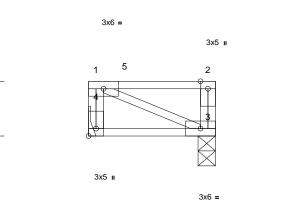


Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F220	Floor	1	1	I72384870 Job Reference (optional)

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:PeoZvAboOehtUBjZ2GjakFzP95I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0





0-11-0



Scale = 1:19.3

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

- 1410 0110010 (	(/,, /). [2496,6 / 6]										r	
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD												
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD			ed or									
BOT CHORD	2-1-8 oc purlins, ex											
BUICHURD	Rigid ceiling directly bracing.	applied of 10-0-0 d	ic .									
REACTIONS	0	4= Mechanical										
REACTIONS	Max Grav 3=128 (L0											
FORCES	(lb) - Maximum Corr	,, , ,										
	Tension											
TOP CHORD	1-4=-166/0, 2-3=-11	8/0, 1-2=0/0										
BOT CHORD												
WEBS	1-3=0/0											
NOTES												
	irder(s) for truss to trus											
	end 2x6 strongbacks, c											
	oc and fastened to ead 3") nails. Strongbacks		valla									
	iter ends or restrained		/all5									1111
LOAD CASE		by other mound.									White CA	Dall
· ·	Floor Live (balanced): I	Lumber Increase=1	00							~	all	10/11/
	crease=1.00									S.	0	No.
Uniform I	Loads (lb/ft)									: <	PL	13.7 -
	3-4=-10, 1-2=-100										in a	1 K
	rated Loads (lb)										SEA	n 1 1
Vert: 5	5=-97								=	:	SLF	
									-		SEA 286	77 : 3
											•	1 E
										1	N	1 1 S



April 1,2025

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Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F205	Floor	1	1	I72384871 Job Reference (optional)

1-2-0

TCLL

TCDL

BCLL

BCDL

WEBS

NOTES

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:GusxOcqsruPHbx\_pShbpuDzmHPP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

17

X

3x6 =

GRIP

187/143

244/190

1-2-0

0-7-4 0-11-8 1-8-0 1-2-0 1-11-4 1.5x3 u 3x6 FP 1.5x3 u 1.5x3 II 1.5x3 u 1.5x3 II 2 5 6 8 14 3 4 7 9 10 1112 13 15 16 Ø 30 29 28 27 26 25 24 23 22 20 19 3x6 = 21 3x8 = 1.5x3 u 1.5x3 🛚 1.5x3 🛚 1.5x3 u 3x8 = 1.5x3 u MT20HS 3x8 FP 7-9-0 11-8 7-2-0 6-7-0 19-1-4 21-0-4 25-0-0 6-7-0 11-4-4 1-11-0 2-0-8 d-7-0 0-7-0 Scale = 1:44.3 Plate Offsets (X, Y): [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [24:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge], [30: Loading 1-4-0 CSI DEFL in (loc) l/defl L/d PLATES (psf) Spacing 40.0 Plate Grip DOL 1.00 тс 0.97 Vert(LL) -0.30 25-27 >747 480 MT20HS 10.0 Lumber DOL 1.00 BC 1.00 Vert(CT) -0.42 24-25 >543 360 MT20 0.0 Rep Stress Incr YES WB 0.50 Horz(CT) 0.05 21 n/a n/a Code IRC2021/TPI2014 Matrix-MSH Weight: 127 lb FT = 20%F, 11%E 5.0 LUMBER 1) Unbalanced floor live loads have been considered for TOP CHORD 2x4 SP No.2(flat) this design. All plates are MT20 plates unless otherwise indicated. 2x4 SP No.1(flat) \*Except\* 26-18:2x4 SP 2) BOT CHORD 3) All plates are 3x5 MT20 unless otherwise indicated. No.2(flat) Refer to girder(s) for truss to truss connections. 2x4 SP No.3(flat) 4) BRACING 5) One H2.5A Simpson Strong-Tie connectors

TOP CHORD		wood sheathing directly applied or
		ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 2-2-0 oc
	bracing.	
REACTIONS	(size)	18=0-3-8, 21=0-3-8, 31=
		Mechanical
	Max Uplift	18=-116 (LC 3)
	Max Grav	18=161 (LC 4), 21=1138 (LC 11),
		31=646 (LC 12)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-31=-61/	/0, 17-18=-98/0, 1-2=0/0,
	2-3=-1909	9/0, 3-4=-1909/0, 4-5=-1909/0,
	5-6=-2630	0/0, 6-7=-2746/0, 7-8=-2746/0,
	8-9=-2028	8/0, 9-10=-2028/0, 10-11=-1169/0,
	11-13=-1	169/0, 13-14=0/1043, 14-15=0/1043,
	15-16=-14	41/402, 16-17=0/0
BOT CHORD	30-31=0/	1018, 29-30=0/1909, 28-29=0/2630,
	27-28=0/2	2630, 25-27=0/2630, 24-25=0/2535,
	23-24=0/2	2028, 22-23=0/2028, 21-22=0/277,
	20-21=-40	02/141, 19-20=-402/141,
	18-19=-40	02/141
WEBS	5-28=0/22	10, 6-27=-145/30, 14-21=-57/14,
	5-29=-89	1/0, 2-31=-1177/0, 4-29=0/215,
	2-30=0/10	040, 3-30=-336/0, 13-21=-1382/0,
	6-25=-21	7/316, 13-22=0/1059, 7-25=-149/4,

11-22=-68/47, 8-25=0/310, 10-22=-1014/0, 8-24=-674/0, 9-24=0/184, 10-23=0/206, 16-18=-161/461, 15-21=-884/0, 15-20=0/160,

16-19=-129/0

- recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- 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. CAUTION, Do not erect truss backwards. 7)

LOAD CASE(S) Standard



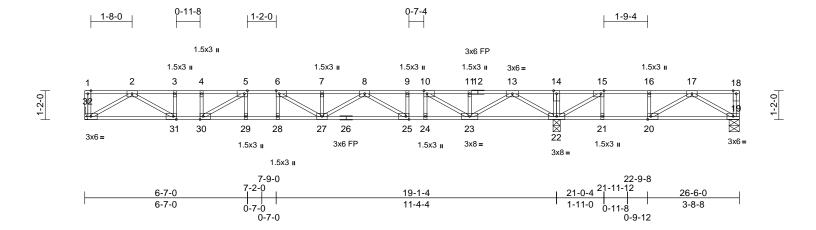
April 1,2025

818 Soundside Road Edenton, NC 27932

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 that the operating of the second se and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F203	Floor	1	1	I72384872 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:sOHW1qcdXsb3uwSImqG30xzmHOO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:46.6

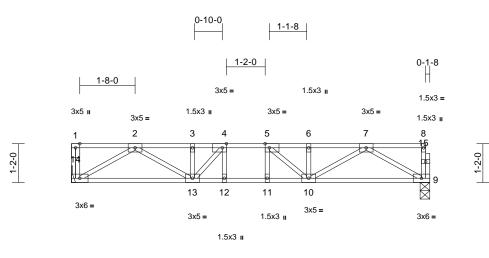
										-			
oading	(psf)	Spacing	1-4-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	40.0	Plate Grip DOL	1.00		TC	0.91	Vert(LL)		27-28	>794	480	MT20	244/190
CDL	10.0	Lumber DOL	1.00		BC	0.96	Vert(CT)	-0.40	25-27	>573	360		
CLL	0.0	Rep Stress Incr	YES		WB	0.52	Horz(CT)	0.05	22	n/a	n/a		
CDL	5.0	Code	IRC20	21/TPI2014	Matrix-MSH	-						Weight: 135 lb	FT = 20%F, 11%
UMBER OP CHORD	2x4 SP No.2(flat) ' No.1(flat)	Except* 12-18:2x4 SF		NOTES 1) Unbalanced this design.	floor live loads h	ave been	considered f	or					
OT CHORD		Except* 26-19:2x4 SF		2) All plates ar	e 3x5 MT20 unle ler(s) for truss to								
/EBS	2x4 SP No.3(flat)			,	Simpson Strong-								
RACING	· · · ·			recommend	ed to connect tru	ss to bear	ing walls due	to					
OP CHORD		neathing directly applie except end verticals.		does not co	(s) 19. This conn nsider lateral forc	es.		and					
OT CHORD	Rigid ceiling direct bracing.	ly applied or 2-2-0 oc	:	10-00-00 oc	d 2x6 strongback and fastened to	each truss	with 3-10d						
EACTIONS	(size) 19=0-4-	15, 22=0-3-8, 32=		· · ·	) nails. Strongba			valls					
	Mechar				r ends or restrair Do not erect truss								
	Max Uplift 19=-11			LOAD CASE(S)		Dackward	15.						
	Max Grav 19=231 32=633	(LC 4), 22=1202 (LC (LC 12)	1),	LUAD CASE(S	Stanuaru								
ORCES	(lb) - Maximum Co	mpression/Maximum											
	Tension												
OP CHORD	1-32=-61/0, 18-19												
		-1859/0, 4-5=-1859/0, -2626/0, 7-8=-2626/0,											
	,	=-1861/0, 10-11=-972	/0.										
	,	14=0/1327, 14-15=0/1	,										in the second se
	,	6-17=-281/656, 17-18	,									TH CA	Roille
OT CHORD	31-32=0/995, 30-3	1=0/1859, 29-30=0/25	541,								N	A	1. 11/1
		28=0/2541, 25-27=0/2									22	. FEDS	MAL S'
		24=0/1861, 22-23=-13	37/70,									A. I.	112:1 2
	21-22=-656/281, 2	0-21=-656/281,										14-0 V	
/EBS	19-20=-226/295	-139/31, 14-22=-30/4	2							=		SEA	Li
ILD3		=-1151/0, 4-30=0/206								=	:	2867	: 7
		=-327/0, 13-22=-1423										2007	1 1
	,	-23=0/1084, 7-27=-14	,							-		•	1.1.1.1
	11-23=-64/52, 8-2	7=0/327, 10-23=-1053	/0,								20	. En.	Ains
		=0/191, 10-24=0/210,									19	O, GINI	EFECT
	15-22=-1050/0, 15										11	SEA 2867	111/11
	17-19=-342/261, 1	7-20=-502/0,										L.G	AL
	16-20=-14/185											1111111	1111
	10 20- 1 1/100												

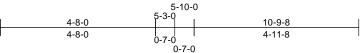
TRENGINEERING BY A MITEK Affiliate

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 **ANSUTP11 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	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F214	Floor	2	1	I72384873 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:faAg1JZwpKk620mZ2qFUk1zP9AV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:34.7

# Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge]

		1										
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	0.22	Vert(LL)	-0.05	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH					-		Weight: 58 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 she	athing directly applie	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly		с									
	bracing.											
REACTIONS	(size) 9=0-3-8,	14= Mechanical										
	Max Grav 9=574 (L	C 1), 14=580 (LC 1)										
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension	-										
TOP CHORD	1-14=-72/0, 8-9=-70	/0, 1-2=0/0, 2-3=-13	20/0,									
	3-4=-1320/0, 4-5=-1	, ,										
	6-7=-1326/0, 7-8=-4											
BOT CHORD	13-14=0/847, 12-13		447,									
	10-11=0/1447, 9-10											
WEBS	4-12=-63/81, 5-11=-											
	2-13=0/552, 3-13=-1		6,									
	7-9=-972/0, 7-10=0/	561, 6-10=-175/5,									minin	UIII.
	5-10=-308/30									0	WAH CA	Rollin
NOTES										N	OR HOSS	· Philip
,	ed floor live loads have	e been considered fo	or							5.	0	GHI.V.
this design										: <	AL I	13:7 2
	irder(s) for truss to trus										TTO A	K: -
	nd 2x6 strongbacks, c										CEA	1 1 2
	oc and fastened to eac								=		SEA	
	3") nails. Strongbacks		alls								286	77 : E

at their outer ends or restrained by other means. 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

inni, 286/1 GA 111111

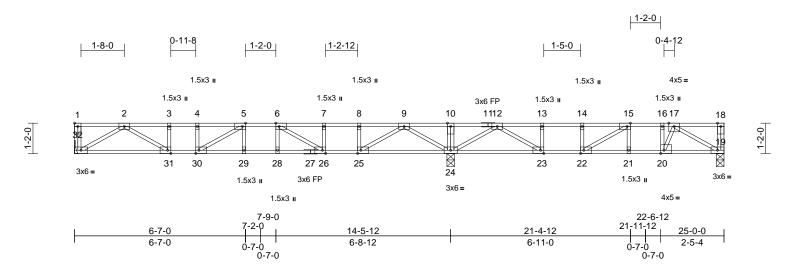
April 1,2025

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Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F206	Floor	2	1	I72384874 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:YhjkjNVwCb?7rnQdNWcUIXzmHPq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:44.3

[1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-8,Edge], [20:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [30:0-1-8,Edge], Plate Offsets (X, Y): [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	0.69	Vert(LL)	-0.16	26-28	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.21	26-28	>808	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 126 lb	FT = 20%F, 11%E
LUMBER			NOTES									
TOP CHORD	2x4 SP No.2(flat)			d floor live loads hav	ve been	considered f	or					
BOT CHORD	( )	xcept* 27-19:2x4 SP	this design.									
	No.1(flat)		2) All plates a	re 3x5 MT20 unless	otherwi	ise indicated.						
WEBS	2x4 SP No.3(flat)		<ol><li>Refer to gir</li></ol>	der(s) for truss to tr	uss coni	nections.						
BRACING				d 2x6 strongbacks,								
TOP CHORD	Structural wood she	athing directly applied		c and fastened to ea								
	6-0-0 oc purlins, ex			") nails. Strongbacl			valls					
BOT CHORD		applied or 10-0-0 oc		er ends or restrained Do not erect truss b								
	bracing, Except:		, , ,		ackwar	us.						
	6-0-0 oc bracing: 24		LOAD CASE(S	) Standard								
REACTIONS	( )	, 24=0-3-8, 32=										
	Mechanic		N N									
	32=475 (I	LC 4), 24=1065 (LC 1)	),									
FORCES	(Ib) - Maximum Corr	,										
TOROLO	Tension	ipression/maximum										
TOP CHORD		52/0. 1-2=0/0.										
	2-3=-1262/0, 3-4=-1											
	5-6=-1489/0, 6-7=-9	78/0, 7-8=-978/0,										
	8-9=-978/0, 9-10=0/	, ,										
	12-13=-655/168, 13	,									1111 CA	1111
	14-15=-655/168, 15										THUA	ROIN
	16-17=-650/0, 17-18		20							5	01/100	1. Jul 1
BOT CHORD	,	=0/1262, 29-30=0/148	,							22	M	01. 21
	28-29=0/1489, 26-2 24-25=-181/183, 23	8=0/1489, 25-26=0/97	'8,							27	497 X   )	Mail 2
		-22=0/650, 20-21=0/6	50						-		12.00	
	19-20=0/505	22-0/000, 20 21-0/0							=		SEA SEA	L : =
WEBS		0/148, 10-24=-170/0,							=	:	2067	
	15-21=-39/47, 16-20	)=-247/25, 5-30=-319/	/12,								SEA 2867	1 3 3
	2-32=-831/0, 4-30=-	41/81, 2-31=0/634,									<b>X</b>	1 3
		1038/0, 6-26=-691/0,								2.	1. 6.	Ains
	9-25=0/974, 7-26=0		-							11	O, GINI	EFICATION
		4=-796/0, 14-22=-53/4								11	M	IN M
		=-235/0, 17-19=-584/0	J,								11, L.G.	AL
	17-20=-25/361										in min	
											Δn	ril 1 2025

April 1,2025

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Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F204	Floor	2	1	I72384875 Job Reference (optional)

1-8-0

1

2

0-11-8

1.5x3 u

3

1.5x3 II

4

1-2-0

6

Ť9

5

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:oELQJuEZ41Zc2??9u6hZjBzmHOu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-7-4 0-7-4 1-6-8 3x6 FP 1.5x3 u 1.5x3 u 1.5x3 u 3x6 = 1.5x3 u 7 8 9 10 1112 13 14 15 16 17 18 3 12 12 19



₿ 31 30 23 21 29 28 27 26 25 24 20 3x6= 22 3x6 = 1.5x3 u 3x6 FP 3x8 = 1.5x3 u 1.5x3 u 3x8= 1.5x3 u 7-9-0 22-6-12 22-6 21-11-12 1 7-2-0 6-7-0 19-1-4 26-2-8 6-7-0 11-4-4 1-11-0 3-7-12 0-7-0 0-11-8 0-7-0 0-7-0

#### Scale = 1:46.2

Plate Offsets (2	X, Y): [5:0-1-8,Edge]	, [6:0-1-8,Edge], [10:0-	1-8,Edg	e], [15:0-1-8,Ed	dge], [20:0-1-8,Ed	ge], [25:0	)-1-8,Edge], [	30:0-1-8	,Edge],	[31:0-1-	8,Edge	]	
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-4-0 1.00 1.00 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MSH	0.92 0.93 0.52	Vert(CT)	in -0.28 -0.39 0.04	(loc) 25-27 25-27 22	l/defl >820 >590 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 134 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	No.1(flat) 2x4 SP No.1(flat) *E No.2(flat) 2x4 SP No.3(flat)			<ul> <li>this design.</li> <li>All plates are</li> <li>Refer to gird</li> <li>Provide mec</li> <li>bearing plate</li> <li>19.</li> <li>Recommence</li> <li>10-00-00 oc</li> <li>(0.131" X 3")</li> <li>at their outer</li> </ul>	floor live loads ha a 3x5 MT20 unless er(s) for truss to tu hanical connectio a capable of withs a 2x6 strongbacks and fastened to e nails. Strongbac cends or restraine	s otherwi russ conr n (by oth tanding 1 , on edge ach truss ks to be d by othe	se indicated. nections. ers) of truss t (42 lb uplift at e, spaced at s with 3-10d attached to w er means.	to t joint					
	(size) 19= Mech Mechanic Max Uplift 19=-142 ( Max Grav 19=209 (I 32=624 (I	(LC 3) LC 4), 22=1231 (LC 1)	L	OAD CASE(S)	Do not erect truss Standard	Dackwar	35.						
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-32=-60/0, 18-19=- 2-3=-1825/0, 3-4=-1 5-6=-2479/0, 6-7=-2 8-9=-1747/0, 9-10=- 11-13=-838/0, 13-14	npression/Maximum -41/7, 1-2=0/0, 825/0, 4-5=-1825/0,	63,									WITH CA	ROM
BOT CHORD	31-32=0/979, 30-31 28-29=0/2479, 27-2	=0/1825, 29-30=0/247 8=0/2479, 25-27=0/22 4=0/1747, 22-23=-261	9, 98,							-	A.L.	ALSS FAS	M.
WEBS	5-29=0/194, 6-28=- 16-20=0/210, 5-30= 4-30=0/199, 2-31=0 13-22=-1437/0, 6-27 13-23=0/1098, 7-27 8-27=0/341, 10-23= 9-25=0/197, 10-24=		,								S. S	SEA 2867	EEP. St.

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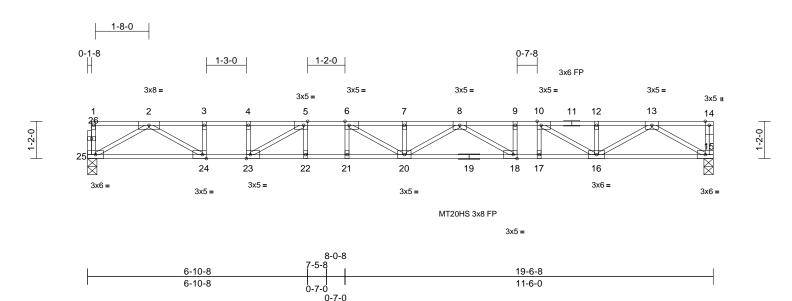
1-2-0



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Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F211	Floor	2	1	I72384876 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:USgxkAIClsPJsQnPWWp1ERzmHRO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:36

Plate Offsets (X, Y):	[5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-1-8,Edge], [18:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]	
1 1010 0110010 (7.1, 1.).		

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	0.89	Vert(LL)	-0.37	20-21	>633		MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.50	20-21	>461	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 99 lb	FT = 20%F, 11%E
LUMBER TOP CHORD												

LOWRER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 19-15:2x4
	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
	2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 15=0-3-8, 25=0-3-8
	Max Grav 15=707 (LC 1), 25=703 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-25=-65/0, 14-15=-48/0, 1-2=-4/0,
	2-3=-2187/0, 3-4=-2187/0, 4-5=-2187/0,
	5-6=-3103/0, 6-7=-3301/0, 7-8=-3301/0,
	8-9=-2725/0, 9-10=-2725/0, 10-12=-1944/0,
	12-13=-1944/0, 13-14=0/0
BOT CHORD	24-25=0/1135, 23-24=0/2187, 22-23=0/3103,
	21-22=0/3103, 20-21=0/3103, 18-20=0/3155,
	17-18=0/2725, 16-17=0/2725, 15-16=0/1111
WEBS	5-22=0/290, 6-21=-188/21, 5-23=-1125/0,
	2-25=-1308/0, 4-23=0/239, 2-24=0/1229,
	3-24=-376/0, 6-20=-176/417, 13-15=-1285/0,
	7-20=-150/1, 13-16=0/972, 8-20=0/244,
	12-16=-76/38, 8-18=-596/0, 10-16=-918/0,
	9-18=0/146, 10-17=0/203

## NOTES

- 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.
- 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.



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Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F208	Floor	3	1	I72384877 Job Reference (optional)

1-2-0

1-4-8

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

1-8-0

2x4 SP No.3(flat)

bracing.

Max Grav

Tension

Structural wood sheathing directly applied or

18=0-3-0, 24=0-3-8, 30=0-3-8

18=440 (LC 4), 24=1725 (LC 1), 30=694 (LC 3)

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc

(Ib) - Maximum Compression/Maximum

29-30=0/1053, 28-29=0/2078, 27-28=0/2073,

1-30=-70/0, 18-19=-15/16, 1-2=-4/0, 2-3=-1739/0, 3-4=-1739/0, 4-5=-2073/0, 5-6=-2073/0, 6-7=-2073/0, 7-8=-972/318 8-9=-972/318, 9-10=0/2020, 10-12=0/2020, 12-13=-502/608, 13-14=-502/608, 14-15=-738/95, 15-16=-738/95,

16-17=-738/95, 17-18=-739/95

25-27=-47/1665, 24-25=-716/0, 23-24=-993/0, 22-23=-338/812, 21-22=-95/738, 20-21=-95/738, 19-20=0/0

17-20=-385/88, 18-20=-109/846, 5-28=-71/97, 6-27=-313/0, 10-24=-202/0, 15-22=-90/0, 16-21=-60/75, 2-30=-1213/0,

14-23=-541/0, 14-22=-87/288

Unbalanced floor live loads have been considered for

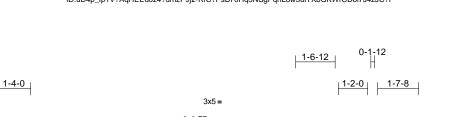
All plates are 1.5x3 MT20 unless otherwise indicated

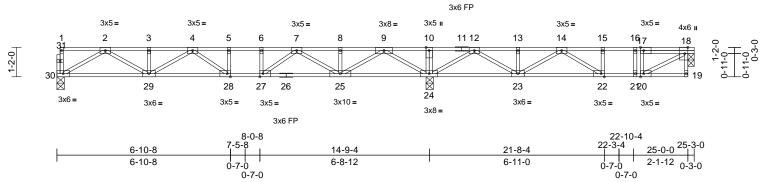
2-29=0/801, 3-29=-159/0, 4-29=-396/14,

4-28=-314/149, 9-24=-1645/0, 9-25=0/1290, 8-25=-191/0, 7-25=-893/0, 7-27=0/738 12-24=-1296/0, 12-23=0/940, 13-23=-168/0,

0-1-8

#### Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:uD4p\_Ip1V?AqHEEd0z4?dmzP9j2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:45.6 Offood

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

this design.

1)

2)

**REACTIONS** (size)

Plate Offsets	(X, Y): [17:0-1-8,Edge	e], [18:0-3-0,Edge], [	20:0-1-8,Edge], [22:0-1-	8,Edge], [27:0-1-8,	,Edge], [2	8:0-1-8,Edge	]					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.14	28-29	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.19	28-29	>909	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	-0.03	30	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 130 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS	( )		4) Recommer 10-00-00 o	e assumed to be: d 2x6 strongbacks and fastened to e ") nails. Strongbac	s, on edge each truss	e, spaced at with 3-10d	valls					

at their outer ends or restrained by other means.

- Gap between inside of top chord bearing and first
- 5) diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards. 6)

LOAD CASE(S) Standard



April 1,2025

Page: 1

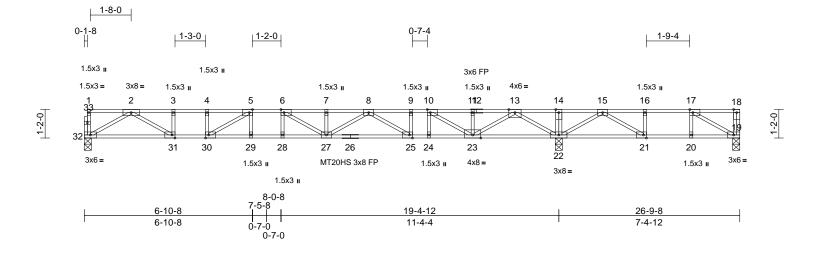
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **PCB Building Component Scietur Information**. Building from the Structure Building Component Advance interpretented and the properties of th and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F202	Floor	3	1	I72384878 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:00 ID:hYenlthO7iLDcrvS75MTGCzmHOI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.1

Plate Offsets (2	X, Y): [5:0-1-8,Edge],	[6:0-1-8,Edge], [10:0	)-1-8,Edge	e], [17:0-1-8,Ec	lge], [21:0-1-8,Eo	dge], [25:0	)-1-8,Edge], [	30:0-1-8	,Edge],	[31:0-1-	8,Edge	]	
Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES		CSI TC BC WB	0.90 0.81 0.65	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.47 0.05	(loc) 27-28 25-27 22	l/defl >671 >494 n/a	L/d 480 360 n/a	PLATES MT20HS MT20	<b>GRIP</b> 187/143 244/190
	2-2-0 oc purlins, ex Rigid ceiling directly bracing. (size) 19=0-3-8, Max Uplift 19=-153 ( Max Grav 19=218 (L	athing directly applied cept end verticals. applied or 6-0-0 oc 22=0-3-8, 32=0-3-8 LC 3) .C 4), 22=1537 (LC 1	1) 2x4 2) 3) 4) d or 5) 6)	this design. All plates are One H2.5A S recommende UPLIFT at jt( does not com Recommend 10-00-00 oc (0.131" X 3") at their outer	Matrix-MSH floor live loads h a 3x5 MT20 unlets simpson Strong- d to connect true s) 19. This conne- sider lateral forc 2x6 strongbacks and fastened to nails. Strongba ends or restrain to not erect truss Standard	lless other ss otherwi Tie conner ss to bear ection is for es. s, on edge each truss icks to be ed by othe	wise indicate se indicated. ctors ing walls due or uplift only a s, spaced at s with 3-10d attached to w er means.	d. to and				Weight: 135 lb	FT = 20%F, 11%E
FORCES TOP CHORD	11-13=-964/0, 13-14	pression/Maximum 117/0, 1-2=-4/0, 267/0, 4-5=-2267/0,	90,									mmm	990.
BOT CHORD	31-32=0/1200, 30-3 28-29=0/3073, 27-28	1=0/2267, 29-30=0/3 3=0/3073, 25-27=0/2 4=0/2087, 22-23=-54	073, 780,								Nin N	OR THESE	ROUT
WEBS	5-29=0/253, 6-28=-1 5-30=-981/0, 2-32=- 2-31=0/1246, 3-31=- 6-27=-361/262, 13-2 11-23=-86/52, 8-27= 8-25=-912/0, 9-25=0	388/0, 13-22=-1693/ 3=0/1372, 7-27=-158 0/455, 10-23=-1336/ //235, 10-24=0/293, 1=-276/583, 15-21=0/	0, 3/15, 0,								S. S	SEA 2867	E.R. Kum

April 1,2025

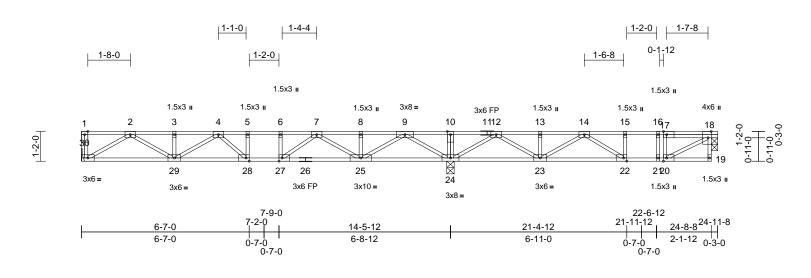
Page: 1



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 **ANSUTP11 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	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F207	Floor	5	1	I72384879 Job Reference (optional)

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:01 ID:uD4p\_Ip1V?AqHEEd0z4?dmzP9j2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale =	1:45.2
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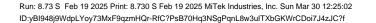
Plate Offsets (	(X, Y): [17:0-1-8,Edge	e], [18:0-3-0,Edge], [	20:0-1-8,E	dge], [22:0-1-8	,Edge], [27:0-1-8,E	Edge], [2	8:0-1-8,Edge	9]					
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.73 0.71 0.60	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.17 0.03	(loc) 28-29 28-29 24	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 130 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	/ applied or 6-0-0 oc , 24=0-3-8, 30= cal LC 4), 24=1706 (LC	4) 5) ed or 6) 7) L(	Provide mec bearing plate Recommence 10-00-00 oc (0.131" X 3") at their outer Gap between diagonal or v	er(s) for truss to tr hanical connection at joint(s) 18. 12x6 strongbacks, and fastened to ea nails. Strongbac ends or restrained ninside of top cho vertical web shall r bo not erect truss to Standard	on edge ach truss ks to be d by othe rd bearin tot excee	ers) of truss e, spaced at s with 3-10d attached to w er means. ng and first ed 0.500in.						
FORCES	(lb) - Maximum Con	npression/Maximum											
TOP CHORD	5-6=-1999/0, 6-7=-1	1690/0, 4-5=-1999/0, 1999/0, 7-8=-958/320 =0/1986, 10-12=0/19 5-14=-504/584, 16=-736/87,	Э,										
BOT CHORD	29-30=0/1029, 28-2 25-27=-55/1624, 24 23-24=-963/0, 22-2	9=0/2003, 27-28=0/ -25=-710/0,	,								and a	OPTESS	ROUNT
this desigr	15-22=-87/0, 16-21 2-29=0/772, 3-29=- 4-28=-305/142, 9-2 8-25=-188/0, 7-25= 12-24=-1289/0, 12-: 14-23=-532/0, 14-2 ed floor live loads have	=-296/0, 10-24=-202 =-58/73, 2-30=-1190 163/0, 4-29=-366/25 4=-1617/0, 9-25=0/1 -864/0, 7-27=0/701, 23=0/932, 13-23=-16 2=-88/278 e been considered fo	/0, , 262, 68/0,							Contraction of the second s	STATISTICS STATISTICS	SEA 2867	EFR. ALIN

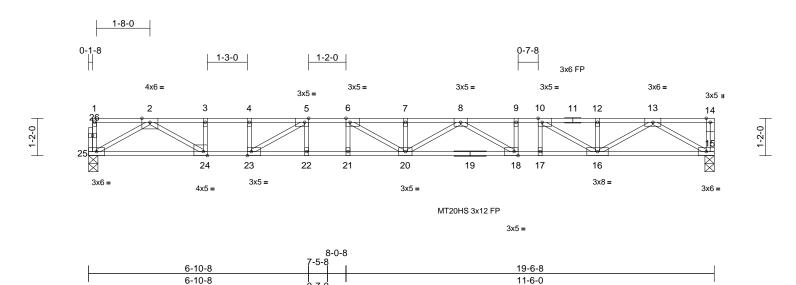
April 1,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F210	Floor	5	1	I72384880 Job Reference (optional)





0-7-0

Scale = 1:36

		1										
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	0.85	Vert(LL)	-0.41	20-21	>561	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.57	20-21	>409	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI20	014 Matrix-MSH							Weight: 99 lb	FT = 20%F, 11%E
LUMBER			4) Reco	mmend 2x6 strongbacl	ks, on edge	e, spaced at						
TOP CHORD	2x4 SP No.1(flat) *E	Except* 11-14:2x4 SP	,	-00 oc and fastened to								
	No.2(flat)		(0.13	1" X 3") nails. Strongb			valls					
BOT CHORD	2x4 SP 2400F 2.0E	(flat) *Except* 19-15:2		ir outer ends or restrai								
	SP No.1(flat)		,	FION, Do not erect trus	s backwar	ds.						
NEBS	2x4 SP No.3(flat)		LOAD CA	ASE(S) Standard								
OTHERS	2x4 SP No.3(flat)											
BRACING												
FOP CHORD		eathing directly applie	d or									
		except end verticals.										
BOT CHORD		/ applied or 10-0-0 oc										
	bracing, Except: 2-2-0 oc bracing: 22	2-23 18-20										
REACTIONS	•	, 25=0-3-8										
	Max Grav 15=848 (											
FORCES		npression/Maximum										
ONCLO	Tension	npression/maximum										
TOP CHORD	1-25=-79/0, 14-15=	-57/0. 1-2=-5/0.										
	,	2626/0, 4-5=-2626/0,										
		3960/0, 7-8=-3960/0,										
		-3267/0, 10-12=-2332	2/0,								OP	
	12-13=-2332/0, 13-											111.
BOT CHORD		24=0/2626, 22-23=0/3									White CA	Dall
		21=0/3720, 18-20=0/3									athor	10/11
		7=0/3267, 15-16=0/1								S.	O	KING.
WEBS		213/24, 5-23=-1345/0 =0/308, 2-24=0/1485,								23	AV 1	113.72
	,	=0/308, 2-24=0/1485, -210/503, 13-15=-154								2	The second	MAR: =
	,	=0/1166, 8-20=0/292,	,								054	. : =
	,	=-718/0, 10-16=-1098							=		SEA	L ; E
	9-18=0/190, 10-17=	,									2867	77 : E
NOTES									-		2001	1 2
	ed floor live loads have	e been considered for	r							-	N	1 3
, this design	า.									20	S.S.Now	FRICES
	are MT20 plates unles									11	UN GIN	E.F. G
<ol><li>All plates a</li></ol>	are 1.5x3 MT20 unles	s otherwise indicated										AL IP IN
											L.G	in the second se
											۸	-14 0005

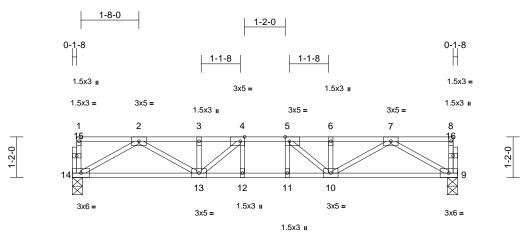
April 1,2025

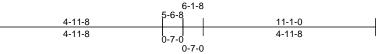
Page: 1



Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F213	Floor	6	1	I72384881 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:oR0iWJEsG1QVOMWTEnIDQKzP9DW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:33.2

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[0:0 : 0,2090]										
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	0.21	Vert(LL)	-0.05	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 59 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 she	athing directly applie	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с									
	bracing.											
REACTIONS	(size) 9=0-3-8,	14=0-3-8										
	Max Grav 9=590 (L0	C 1), 14=590 (LC 1)										
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension	-										
TOP CHORD	1-14=-70/0, 8-9=-70											
	3-4=-1378/0, 4-5=-1											
	6-7=-1378/0, 7-8=-4											
BOT CHORD	13-14=0/872, 12-13	,	531,									
	10-11=0/1531, 9-10											
WEBS	4-12=-65/70, 5-11=- 7-10=0/590, 6-10=-											
	2-14=-1004/0, 2-13=											
	4-13=-346/13	=0/590, 5=15==174/1	1,								, in the second	11111
NOTES	1 10- 0 10/10									. 0	WAH CA	Roil
	ed floor live loads have	boon considered fo	or.							N	OR LESS	··· · · · · · · ·
this design			Л							22	ELSS	Shi Si
	are 1.5x3 MT20 unless	s otherwise indicated	d.							2		MAL: 2
	end 2x6 strongbacks, c								1		14	
	oc and fastened to eac										SEA	1 : =
	3") nails. Strongbacks		alls						=		UL/	
	ter ends or restrained								=		286	// : :
		•										

LOAD CASE(S) Standard



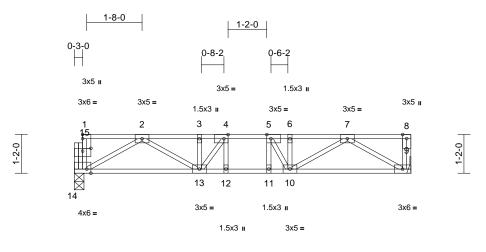
April 1,2025

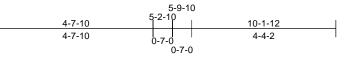
Page: 1



Job	Truss	Truss Type	Qty	Ply	Install 34 Magnolia Acres-2nd Floor-Chatham FA MNR SP
25030166-A	F215	Floor	9	1	I72384882 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Mar 30 12:25:02 ID:sUjoHSa6Aq6nQHIQ7cDtKXzP96c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:34.7

### Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-3-0,0-1-0]

						· · · ·					i		
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	0.64	Vert(LL)	-0.04	12	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)		11-12	>999	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	9	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 56 lb	FT = 20%F, 11%E	
LUMBER				s) or other connection									
TOP CHORD 2x4 SP No.2(flat) provided sufficient to support concentrated load(s) 233													
BOT CHORD													
WEBS	2x4 SP No.3(flat) design/selection of such connection device(s) is the												
OTHERS													
BRACING LOAD CASE(S) Standard													
TOP CHORD Structural wood sheathing directly applied or 1) Dead + Floor Live (balanced): Lumber Increase=1.00,													
6-0-0 oc purlins, except end verticals. Plate Increase=1.00													
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc Uniform Loads (lb/ft)													
bracing. Vert: 9-14=-10, 1-8=-100													
REACTIONS (size)     9= Mechanical, 14=0-3-8     Concentrated Loads (lb)       Max Unlift     14=-539 (LC 9)     Vert: 1=-188													
	Max Uplift 14=-539 (	,	Vert:	1=-188									
	Max Grav 9=543 (L0	C 1), 14=714 (LC 1)											
FORCES (lb) - Maximum Compression/Maximum													
Tension													
TOP CHORD 1-14=-305/993, 8-9=-72/0, 1-2=-36/118,													
	2-3=-1215/0, 3-4=-1	, ,											
	5-6=-1198/0, 6-7=-1	,	207										
BOT CHORD		267,											
10-11=0/1267, 9-10=0/785													
WEBS 4-12=-82/55, 5-11=-79/77, 2-14=-934/0, 2-13=0/495, 3-13=-162/24, 4-13=-258/82,													
	2-13=0/495, 3-13=-162/24, 4-13=-256/62, 7-9=-908/0, 7-10=0/482, 6-10=-152/49,												
	5-10=-301/73	402, 0 10= 102/40,									IN TH CA	Rollin	
NOTES	0 10 00 110									1	A Sito	in hall	
1) Unbalanced floor live loads have been considered for										Min Para			
this design.										AN: 2			
2) All plates are 3x5 MT20 unless otherwise indicated.													
3) Refer to girder(s) for truss to truss connections.									1 : =				
4) Provide mechanical connection (by others) of truss to													
<ul> <li>WEBS 4-12=-82/55, 5-11=-79/77, 2-14=-934/0, 2-13=0/495, 3-13=-162/24, 4-13=-258/82, 7-9=-908/0, 7-10=0/482, 6-10=-152/49, 5-10=-301/73</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) All plates are 3x5 MT20 unless otherwise indicated.</li> <li>3) Refer to girder(s) for truss to truss connections.</li> <li>4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 539 lb uplift at joint 14.</li> <li>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 restrined by other means</li> </ul>								// : E					
14.			-							. 1	:	: E	
	end 2x6 strongbacks, o									1	N	A 1 . 3	
	oc and fastened to eac										NGIN	FERRE	
	3") nails. Strongbacks		alls							11	'AN GIN	5.5.5	
	uter ends or restrained										1 I G	ALIN	
6) CAUTION, Do not erect truss backwards.									in the second se				
												Press.	

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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 **ANSUTP11 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)

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