













100% SCALE @ 36"x24" 🖉 🗾

with Royal Oaks Design.

The use of these

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++ FOUNDATION ENGINEERING

+++ STRUCTURAL NOTICE +++

ALL STRUCTERL PROMINENT HADRE ALTS CHARLS FROM ALD HADRE ALTS CHARLS FROM ALS CONTON ALD ALTS CHARLS FROM THE ALD BENERREY ALTS CARTON ALTS CARTON DAMED OF EXCIPTE ALTS CARTON DAMED OF EXCIPTE ALTS ALTS CARTON DAMED OF EXCIPTE ALTS ALTS CARTON

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

Phone #:919-775-1450

# Builder: Pro Build Model: OverHills



# 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.

Apprved by: \_\_\_\_\_

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

\*







PRELIMINARY - NOT FOR CONSTRUCTION



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

	UNDER SIDE OF SHEATHING.	TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.	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 holding design sheets for holdi	each truss design identified on the placement drawing. The building designer 0 0 0 0 0 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 Name Name Of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179 Madison, WI 53179
		** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.			
		TOGETHER PRIOR TO ADDING ANY LOADS.	Probuild	Overhills	1ST FLOOR TRUSS PLACEMENT PLAN
EFER TO FINAL TRUSS ENGINE	EERING SHEETS FOR PLY TO PLY CON	UECTIONS.	Scale: Date: P 2	NTS 6/1/202 Designe NP roject Nun 250401 Sheet Nun	25 er: nber: 14 nber: <b>3</b>



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25040114-C Overhills-Crawl-CL-20-020

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: I73877246 thru I73877253

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

North Carolina COA: C-0844



June 2,2025

## Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Overhills-Crawl-CL-20-020	
25040114-C	F105	Floor Supported Gable	4	1	Job Reference (optional)	173877246

Run: 8.73 E Feb 19 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:52 ID:?FDOyqHyW3fUVtPBAMqGT2zPuRx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:19.4

Plate Offsets (X, Y): [7:0-1-12,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	1-7-3 1.00 1.00 YES IRC2021/TPI2014	CSI           TC         0.0           BC         0.0           WB         0.0           Matrix-R         0.0	07 02 03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 29 lb	<b>GRIP</b> 244/190 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.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 5-8-0 oc purlins, exx Rigid ceiling directly bracing. (size) 7=5-8-0, 8 10=5-8-0, Max Grav 7=74 (LC (LC 1), 10 1)	athing directly applie cept end verticals. applied or 10-0-0 or 3=5-8-0, 9=5-8-0, 11=5-8-0 1), 8=126 (LC 1), 9= )=109 (LC 1), 11=49	ed or 5 =117 (LC	<u>.</u>								
TOP CHORD	(ID) - Maximum Com Tension 1-11=-43/0, 6-7=0/10 3-4=-9/0, 4-5=-9/0, 5 10-11=0/9, 9-10=0/9	pression/Maximum 0, 1-2=-9/0, 2-3=-9/0 5-6=-1/0 9, 8-9=0/9, 7-8=0/9	),									
WEBS	2-10=-102/0, 3-9=-1 5-7=-80/0	06/0, 4-8=-113/0,										- 200 M
NOTES 1) All plates a 2) Gable requ 3) Truss to be braced aga 4) Gable stud 5) All bearing 6) Recommer 10-00-00 o (0.131" X 3 at their out 7) CAUTION, LOAD CASE(S	are 1.5x3 MT20 unless uires continuous bottor e fully sheathed from c ainst lateral movement ds spaced at 1-4-0 oc. s are assumed to be S nd 2x6 strongbacks, o bc and fastened to eac 3") nails. Strongbacks ter ends or restrained I , Do not erect truss ba <b>S</b> ) Standard	s otherwise indicated m chord bearing. one face or securely t (i.e. diagonal web). SP No.2 . n edge, spaced at h truss with 3-10d to be attached to w by other means. ckwards.	I. alls						Contraction of the second seco		SEA 0363	ROWER HILL



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/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	Overhills-Crawl-CL-20-020	
25040114-C	F108	Floor Girder	1	2	Job Reference (optional)	173877247

Run: 8.73 E Feb 19 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:52 ID:6KRYs8uZHXImOtuwvRKCGczObAk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.9

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

<b>Loading</b> TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 NO IRC2021/TPI	C T B W 2014 M	CSI C 3C VB Matrix-SH	0.78 0.59 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.36 0.04	(loc) 11-12 11-12 8	l/defl >662 >489 n/a	L/d 480 360 n/a	PLATES MT20 MT20HS Weight: 167 lb	<b>GRIP</b> 244/190 187/143 FT = 11%	
LUMBER TOP CHC BOT CHC WEBS OTHERS BRACIN TOP CHC BOT CHC FORCES TOP CHC BOT CHC WEBS	<ul> <li>CRD 2x4 SP No.2</li> <li>CRD 2x6 SP 2400F 2.0E 2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>3x4 SP No.2</li> <li>G</li> <li>CRD Structural wood she 2-2-0 oc purlins, ex</li> <li>CRD Rigid ceiling directly bracing.</li> <li>DNS (size) 8=0-7-8, ' Max Grav 8=3699 (I</li> <li>(Ib) - Maximum Com Tension</li> <li>ORD 1-13=-143/0, 7-8=-2 2-3=-11027/0, 3-4=- 5-6=5631/0, 6-7=-5</li> <li>CRD 12-13=0/6386, 11-11 10-11=0/10875, 9-11 4-11=-614/741, 5-10 2-12=0/5044, 3-12=- 4-12=-1775/1225, 5- 7-9=0/5764</li> </ul>	athing directly applie cept end verticals. applied or 10-0-0 oc 13=0-7-8 _C 1), 13=3584 (LC 1 pression/Maximum 859/0, 1-2=-827/0, 11027/0, 4-5=-10875 631/0 2=0/10875, 5-9=0/52 2=0/10875, 8-9=0/52 )=0/1781, 2-13=-5993 -140/36, -9=-5654/0, 6-9=-121	4) All   5) All   6) Rec 10- (0.1 at ti d or 7) Use Tru 1-4 fron 8) Fill 1) <b>LOAD (</b> 91) De Pl Ur 5/0, Co 8 8/3/0, /83,	plates are M bearings are commend 2x 00-00 oc and 31" X 3") na heir outer en e Simpson St ss) or equiva -1 from the le that face of bott all nail holes <b>CASE(S)</b> S ead + Floor L ate Increase: niform Loads Vert: 8-13=- oncentrated I Vert: 11=-666 (F), 16=-666	T20 plates unless assumed to be S 66 strongbacks, o d fastened to eac ails. Strongbacks nds or restrained I itrong-Tie HHUS4 alent spaced at 1- eft end to 14-1-9 ittom chord. s where hanger is Standard Live (balanced): L $\ge$ 1.00 s (lb/ft) -8, 1-7=-80 Loads (lb) 66 (F), 9=-666 (F) 6 (F)	s other SP 240 n edge h truss to be oby othe by othe 6 (14- -7-3 oc to conr i in con . in con	wise indicate OF 2.0E . , spaced at with 3-10d attached to w or means. 10d Girder, 6 max. starting nect truss(es) tact with lumi Increase=1.0 5666 (F), 15=-0 5666 (F), 19=-0	d. -10d g at to ber. 00, 6666 666					<u>11111</u>	
1) 2-ply (0.13 Top o oc. Botto stago Web	truss to be connected toge (1"x3") nails as follows: chords connected as follows on chords connected as foll- gered at 0-9-0 oc. connected as follows: 2x4 - ade are operiodered equally	ther with 10d s: 2x4 - 1 row at 0-2-( ows: 2x6 - 2 rows - 1 row at 0-9-0 oc.	0							Comment		SEA 03632	22	
<ul> <li>All IO</li> <li>excep</li> <li>CASI</li> <li>provi</li> <li>unles</li> <li>Unba</li> <li>this c</li> </ul>	pt if noted as front (F) or ba E(S) section. Ply to ply conr ded to distribute only loads so otherwise indicated. alanced floor live loads have lesign.	ck (B) face in the LO, nections have been noted as (F) or (B), been considered for	AD										ER. ILBER e 2,2025	



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.sbcaccomponents.com)

Job	Truss	Truss Type	Qty	Ply	Overhills-Crawl-CL-20-020	
25040114-C	F107	Floor	2	1	Job Reference (optional)	173877248

Run: 8.73 E Feb 19 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:52 ID:LFvg2nODAdSkLPgsSdaMZlzObBO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



7-10-9	8-10-9 9-10-9	9 15-3-0
7-10-9	1-0-0 1-0-0	5-4-7

Scale = 1:33

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.67	Vert(LL)	-0.20	11-12	>913	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.25	11-12	>713	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E
				•							Ŭ,	
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.1(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
	bracing.											
REACTIONS	(size) 8=0-7-8.	13=0-7-8										
	Max Grav 8=655 (1 (	C 1) 13=655 (I C 1)										
EOBCES	(lb) Maximum Com	proceion/Maximum										
FUNCES	Toncion	ipression/maximum										
		0/0 1 2- 1/0										
	2 2 1622/0 2 4 1	692/0 / 5- 1722/0										
	2-3=-1003/0, 3-4=-1	003/0, 4-3=-17 33/0										
	12 12 0/1064 11 1	037/0 2_0/1722 10 11_0/	1722									
BOT CHORD	0.10.0/1722.9.0.0	/20	1755,									
WERS	9-10=0/1733, 8-9=0/	129 - 2/160 2 12- 1107	//0									
WEB3	2 12 0/702 2 12 0		70,									
	Z-1Z=0/70Z, 3-1Z=-2	252/0, 4 - 12 = -511/12	.9,									
	5-9=-024/0, 0-9=-24	0/9, 7-9=0/1151									minin	11111
NOTES											WH CA	Pall
1) Unbalanc	ed floor live loads have	e been considered fo	or							1	210	and the
this desig	n.									A	OVERSS	6.14.
2) All bearin	gs are assumed to be S	SP No.1 .								52		TVISIA
<ol><li>Recomme</li></ol>	end 2x6 strongbacks, o	n edge, spaced at							<u> </u>	U	KI /	
10-00-00	oc and fastened to eac	ch truss with 3-10d							- 5	6 19	· ×	1 1 N N 1 2
(0 131" X	3") nails Strongbacks	to be attached to w	alls							s 🔹		1 t E

at their outer ends or restrained by other means.

LOAD CASE(S) Standard

# SEAL 036322 A. GILBER

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Overhills-Crawl-CL-20-020	
25040114-C	F106	Floor Supported Gable	1	1	Job Reference (optional)	173877249

Run: 8.73 E Feb 19 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:52 ID:\_I6n?4K4L5qRFeouf4\_BshzObBT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:29.2

Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		тс	0.06	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	14	n/a	n/a		
BCDL	5.0	Code	IRC2021	/TPI2014	Matrix-R							Weight: 72 lb	FT = 20%F, 11%E
			4)	Gable studs	spaced at 1-4-0 oc	2							
TOP CHORD	2x4 SP No 2(flat)		5)	All bearings a	are assumed to be	SP No	2						
BOT CHORD	2x4 SP No 2(flat)		6)	Recommend	2x6 strongbacks.	on edge	e. spaced at						
WEBS	2x4 SP No 3(flat)		-)	10-00-00 oc a	and fastened to ea	ach truss	with 3-10d						
OTHERS	2x4 SP No 3(flat)			(0.131" X 3")	nails. Strongback	s to be	attached to wa	alls					
BRACING				at their outer	ends or restrained	d by othe	er means.						
	Structural wood she	athing directly applie	dor LO	AD CASE(S)	Standard	,							
	6-0-0 oc purlins exi	cept end verticals	u ui = = =										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or											
	bracing.												
REACTIONS	(size) 14=15-3-8	8 15=15-3-8 16=15	-3-8										
	17=15-3-8	3, 18=15-3-8, 19=15	-3-8.										
	20=15-3-8	3, 21=15-3-8, 22=15	-3-8,										
	23=15-3-8	3, 24=15-3-8, 25=15	-3-8,										
	26=15-3-8	3											
	Max Grav 14=11 (LC	C 1), 15=82 (LC 1),											
	16=123 (L	_C 1), 17=116 (LC 1)	),										
	18=118 (L	_C 1), 19=117 (LC 1)	),										
	20=117 (L	_C 1), 21=117 (LC 1)	),										
	22=117 (L	_C 1), 23=117 (LC 1)	),										
	24=117 (L	LC 1), 25=118 (LC 1)	),										
	26=42 (LC	J 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											10
	1-26=-39/0 13-14=-	4/0 1-2=-4/0 2-3=-4	L/O									11''' CA	D'III
	3-4=-4/0 4-5=-4/0 5	5-6=-4/0 6-7=-4/0	,,,,									N'TH UA	HOM
	7-8=-4/0, 8-9=-4/0, 9	9-10=-4/0, 10-11=-4/	0.								A	M. JECO	16.91A.11
	11-12=-4/0, 12-13=-	4/0	-,							/	52	inter	Nilsin .
BOT CHORD	25-26=0/4, 24-25=0/	/4, 23-24=0/4, 22-23	=0/4,										1000
	21-22=0/4, 20-21=0/	/4, 19-20=0/4, 18-19	=0/4,							-	6 19	:4	
	17-18=0/4, 16-17=0/	/4, 15-16=0/4, 14-15	=0/4							=		SEA	1 1 2
WEBS	2-25=-106/0, 3-24=-	107/0, 4-23=-106/0,								Ξ.		0000	
	5-22=-107/0, 6-21=-	107/0, 7-20=-107/0,										0363	22 : 3
	8-19=-107/0, 9-18=-	107/0, 10-17=-105/0	,							-	6		1 5
	11-16=-111/0, 12-15	5=-81/0									1	·	A 1. 5
NOTES											2.0	NO.	CEN: X S
											1	A) •. • (7)	C. C. C. N

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).



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 BCEL Building Component Schut Information, purplication component component duration development and the prevent of the truster and property damage. Component Advance intervention, 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 BCEL Building Create the fabrication and the fabrication of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-21 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	Overhills-Crawl-CL-20-020	
25040114-C	F102	Floor	28	1	Job Reference (optional)	173877250

2-6-0

2-0-11

0-1-8 ∦

#### Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:51 ID:?FDOyqHyW3fUVtPBAMqGT2zPuRx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



0-1-8 ∦

2-0-0 1-8-13

1-9-5





Scale = 1:48.9

Loading TCLL TCDL BCU	(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	0.63 0.89 0.53	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.17 -0.22 0.04	(loc) 23-24 23-24 15	l/defl >999 >887 n/a	L/d 480 360 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-SH	0.00	11012(01)	0.01			1.70	Weight: 145 lb	FT = 20%F, 11%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she	athing directly applie	4) Recommen 10-00-00 oc (0.131" X 3' at their oute 5) CAUTION, LOAD CASE(S) d or	d 2x6 strongbacks, and fastened to e ) nails. Strongbac r ends or restraine Do not erect truss Standard	, on edge ach truss ks to be d by othe backward	e, spaced at s with 3-10d attached to w er means. ds.	valls					
BOT CHORD	6-0-0 oc purlins, exe Rigid ceiling directly bracing.	cept end verticals. applied or 6-0-0 oc										
REACTIONS	(size) 15=0-7-8, Max Grav 15=455 (L 25=686 (L	19=0-5-4, 25=0-7-8 LC 4), 19=1366 (LC 7 LC 10)	1),									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-25=-83/0, 14-15=- 2-3=-1785/0, 3-4=-1 5-6=-1421/0, 6-7=-1 9-10=0/831, 10-11=- 12-13=-603/0, 13-14 24-25=0/1123, 23-2	452/0, 1-2=-4/0, 785/0, 4-5=-1942/0, 421/0, 7-9=0/829, -852/45, 11-12=-852, I=-603/0 4-0/1942, 22-23=0/1	/45,									
BUT CHURD	24-25=0/1123, 25-24 21-22=0/1942, 19-2 18-19=-277/530, 17- 16-17=-45/852, 15-1	4=0/1942, 22-23=0/1 1=-6/495, •18=-45/852, 6=0/21	942,								TH CA	RO
WEBS	4-23=-102/39, 5-22= 11-18=-251/0, 12-17 2-24=0/751, 3-24=-2 5-21=-699/0, 6-21=- 7-19=-1194/0, 10-19 12-16=-281/139, 13-	-15/117, 9-19=-205/ /=-76/0, 2-25=-1264/ 234/0, 4-24=-321/69, 232/4, 7-21=0/1114, )=-994/0, 10-18=0/55 -16=-256/0, 14-16=0,	0, 0, 77, 705						A series	in and the second secon	OR SEA	L
NOTES 1) Unbalance	ed floor live loads have	been considered fo	r								0363	22
<ol> <li>All plates a</li> <li>All bearing</li> </ol>	are 3x5 MT20 unless c is are assumed to be §	otherwise indicated. SP No.2 .									A. G	ILBERTIN



G 11111111 June 2,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication component component duration development and the prevent of the truster and property damage. Component Advance intervention, 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 BCEL Building Create the fabrication and the fabrication of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-21 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	Overhills-Crawl-CL-20-020	
25040114-C	F101	Floor Supported Gable	2	1	Job Reference (optional)	173877251

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:50 ID:?FDOyqHyW3fUVtPBAMqGT2zPuRx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:48.9

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	1-7-3 1.00 1.00 YES IRC2021/TP	12014	<b>CSI</b> TC BC WB Matrix-R	0.06 0.01 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 25	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 129 lb	<b>GRIP</b> 244/190 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.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 25=28-1-0 31=28-1-0 31=28-1-0 34=28-1-0 41=28-1-0 41=28-1-0 47=28-1-0	athing directly applied cept end verticals. applied or 10-0-0 oc ), 26=28-1-0, 27=28- ), 29=28-1-0, 30=28- ), 33=28-1-0, 33=28- ), 39=28-1-0, 36=28- ), 39=28-1-0, 40=28- ), 42=28-1-0, 40=28- ), 45=28-1-0, 46=28- ), 48=28-1-0	BOT C Hor WEBS Hor WEBS Ho, Ho, Ho, Ho, Ho, Ho, Ho, Ho, Ho, Ho,	HORD 4	17-48=0/0, 46-47=0 13-44=0/0, 42-43=0 19-40=0/0, 38-39=0 14-35=0/0, 33-34=0 14-35=0/0, 29-30=0 16-27=0/0, 25-26=0 12-36=-107/0, 11-33 1-40=-107/0, 5-44=- 1-46=-111/0, 2-47=- 5-34=-107/0, 16-33 18-31=-107/0, 19-33 1-28=-106/0, 22-27 1.5x3 MT20 unlesses continuous bottoo ully sheathed from a st lateral movemen	/0, 45-4 /0, 41-4 /0, 36-3 /0, 32-3 /0, 28-2 /0 3=-107/ .107/0, .107/0, .87/0, 1 3=-107/ .7=-111/ s other m chor one fac t (i.e. d	16=0/0, 44-45 12=0/0, 40-41 138=0/0, 35-36 13=0/0, 31-32 29=0/0, 27-28 0, 10-39=-101 7-42=-106/0, 3-35=-107/0, 0, 17-32=-107 0, 20-29=-101 0, 23-26=-87/ wise indicated d bearing. e or securely iagonal web).	=0/0, =0/0, =0/0, =0/0, =0/0, 7/0, 7/0, 7/0, 7/0, 6						
FORCES TOP CHORD	Max Grav 25=5 (LC 1), 28 (LC 1), 28 (LC 1), 28 1), 30=11 32=117 (L 34=117 (L 36=117 (L 43=117 (L 43=117 (L 43=117 (L 45=116 (L 47=96 (LC (lb) - Maximum Com Tension 1-48=-5/0, 24-25=-5/, 3-4=0/0, 4-5=0/0, 5-6 8-9=0/0, 9-10=0/0, 1 12-13=0/0, 13-15=0/ 17-18=0/0, 18-19=0/ 21-22=0/0, 22-23=0/	1), 26=96 (LC 1), 27: =116 (LC 1), 29=118 7 (LC 1), 31=117 (LC 1), C 1), 35=117 (LC 1), C 1), 35=117 (LC 1), C 1), 35=117 (LC 1), C 1), 42=117 (LC 1), C 1), 42=117 (LC 1), C 1), 44=118 (LC 1), C 1), 48=5 (LC 1) pression/Maximum /0, 1-2=0/0, 2-3=0/0, 5=0/0, 6-7=0/0, 7-8=C 0-11=0/0, 11-12=0/0 0, 15-16=0/0, 16-17= 0, 19-20=0/0, 20-21= 0, 23-24=0/0	<ul> <li>(121 4) Ga (LC 5) All (LC 5) All (1), 6) Re 10 (0. 10 (0. 11 10</li></ul>	bearings : commend -00-00 oc 131" X 3") their outer CASE(S)	are assumed to be 2x6 strongbacks, c and fastened to eac nails. Strongbacks ends or restrained Standard	SP No. on edge ch truss s to be a by othe	2 . , spaced at with 3-10d attached to wa er means.	alls		<b>A C C C C C C C C C C</b>		SEA 0363	ROUNT	Manunun,

June 2,2025

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	Overhills-Crawl-CL-20-020	
25040114-C	F103	Floor	11	1	Job Reference (optional)	173877252

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:51 ID:?FDOyqHyW3fUVtPBAMqGT2zPuRx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:57.6

Plate Offsets (	(X, Y): [4:0-1-8,Edge],	[5:0-1-8,Edge], [12:0	-1-8,Edge], [1	7:0-1-8,Edge]	, [22:0-1-8,Edg	e]								
Loading	(psf)	Spacing	1-7-3	C	SI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	т	2	0.75	Vert(LL)	-0.30	20-21	>677	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	B	C	0.90	Vert(CT)	-0.40	20-21	>502	360			
BCLL	0.0	Rep Stress Incr	YES	W	В	0.62	Horz(CT)	0.05	18	n/a	n/a			
BCDL	5.0	Code	IRC2021/TP	PI2014 M	atrix-SH							Weight: 173 lb	FT = 20%F, 1	1%E
LUMBER			2) All	l plates are 1.5	x3 MT20 unles	s other	wise indicated	ł.						
TOP CHORD	2x4 SP No.2(flat) *Ex	xcept* 8-14:2x4 SP	3) Be	arings are as	sumed to be: Jo	int 30 S	SP No.2 , Join	it 24						
	2400F 2.0E(flat)		SF	P No.2 , Joint 1	8 SP 2400F 2.	0E.								
BOT CHORD	2x4 SP No.2(flat) *Ex	xcept* 23-18:2x4 SP	4) Re	ecommend 2x6	strongbacks, o	on edge	e, spaced at							
	2400F 2.0E(flat)		10	1-00-00 oc and	fastened to ea	cn truss	s with 3-10d	مالم						
WEBS	2x4 SP No.3(flat)		(U.	131" X 3") nai	Is. Strongback	S TO DE	attached to wa	alis						
OTHERS	2x4 SP No.3(flat)		5) C4		at erect truce by	by Une	li means.							
BRACING	•		- <b>100</b>			acrivar	15.							
TOP CHORD	Structural wood shea	athing directly applied	d or LOAD	CASE(S) SI	andard									
	6-0-0 oc purlins, exc	cept end verticals.												
BOT CHORD	bracing Except:	applied of 10-0-0 oc												
	6-0-0 oc bracing: 24-	-26 22-24												
PEACTIONS	(size) 18-0-7-8	24-0-5-4 30-0-7-8												
REACTIONS	(Size) 10-0-7-0, Max Grav 18-712 (I	$(C_4)$ 24-1615 (I C 1	)											
	30=667 (L	-C 10)	/,											
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORD	1-30=-83/0, 17-18=-7	703/0, 1-2=-4/0,												
	2-3=-1718/0, 3-4=-1	718/0, 4-5=-1827/0,												
	5-6=-1260/0, 6-7=-12	260/0, 7-9=0/947,	10											
	9-10=0/949, 10-11=-	·1/01/0, 11-12=-1/01 5- 2200/0	70,									IIIIII	1111	
	12-13=-2209/0, 13-1	5=-2209/0, 7=-1197/0										White CA	Dalle	
	20-30-0/1088 28-20	7=-1107/0 0=0/1827 27-28=0/19	207									athon	70/11/	
BOT CHORD	29-30=0/1000, 20-28	5=-72/289	527,							/	5	OricES	11/1	
	22-24=-340/948, 21-	22=0/1761.								4	Ex	10th	AL.	1
	20-21=0/1761. 19-20	)=0/1858. 18-19=0/3	2							4	-	1 /2		-
WEBS	4-28=-104/28, 5-27=	-8/117, 9-24=-232/0,								-				-
	11-22=-497/0, 12-21	=-222/0, 2-30=-1224	/0,								:	SEA	L :	=
	2-29=0/715, 3-29=-2	36/0, 4-29=-274/83,								=		0363	22	
	5-26=-723/0, 6-26=-2	228/4, 7-26=0/1138,										0303		Ξ
	7-24=-1209/0, 10-24	=-1503/0, 10-22=0/1	156,									•	1	Ξ
	12-20=0/726, 13-20=	=-338/0, 15-20=0/399	, 								2	N. E.	Air	2
	15-19=-761/0, 16-19	=-238/0, 17-19=0/13	11								25	GIN	EF. AN	
NOTES											11	10	BEIN	
1) Unbalance	ed floor live loads have	been considered for										11, A. G	ILLIN	
this desigi	n.											111111	THU.	

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



June 2,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Crawl-CL-20-020	
25040114-C	F104	Floor	9	1	Job Reference (optional)	173877253

Run: 8.73 E Feb 19 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:51 ID:?FDOyqHyW3fUVtPBAMqGT2zPuRx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:57.6

Plate Offsets (	(X, Y): [4:0-1-8,Edge],	[5:0-1-8,Edge], [12:0	)-1-8,Edge	e], [17:0-1-8,Ec	lge], [22:0-1-8,Edg	ge]							
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	1-7-3 1.00 1.00 YES IRC202 <sup>2</sup>	1/TPI2014	CSI TC BC WB Matrix-SH	0.73 0.68 0.63	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.29 -0.40 0.04	(loc) 20-21 20-21 18	l/defl >689 >510 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 173 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) *Ex 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(f 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 24-	ccept* 8-14:2x4 SP ilat) athing directly applie cept end verticals. applied or 10-0-0 oc :26,22-24.	2) 3) 4) 5) d or 6) LC	All plates are Bearings are Joint 18 SP 2 Refer to gird Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, D DAD CASE(S)	a 1.5x3 MT20 unle assumed to be: , 2400F 2.0E . er(s) for truss to tr 2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained to not erect truss b Standard	ss othen Joint 24 uss conr on edge ach truss ks to be d by othe backward	wise indicated SP 2400F 2. ections. a, spaced at with 3-10d attached to w er means. Is.	d. 0E , valls					
REACTIONS	(size) 18=0-7-8, Mechanica Max Grav 18=714 (L 30=671 (L	24=0-5-4, 30= al C 4), 24=1607 (LC 1 C 10)	),										
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	Tension 1-30=-82/0, 17-18=-7 2-3=-1733/0, 3-4=-17 5-6=-1300/0, 6-7=-13 9-10=0/920, 10-11=- 12-13=-2217/0, 13-11 5-16=-1190/0, 16-1	704/0, 1-2=-4/0, 733/0, 4-5=-1856/0, 300/0, 7-9=0/918, 1776/0, 11-12=-1770 5=-2217/0, 7=-1190/0	5/0,									WH CA	Politi
BOT CHORD	29-30=0/1097, 28-29 26-27=0/1856, 24-26 22-24=-306/967, 21-2 20-21=0/1776, 19-20	)=0/1856, 27-28=0/1 )=-37/336, 22=0/1776, )=0/1864_18-19=0/3	856, 2							4	ALL I	ORTEESS	and a
WEBS NOTES 1) Unbalance this design	4-28=-123/36, 5-27= 11-22=-486/0, 12-21: 2-29=0/721, 3-29=-2: 5-26=-717/0, 6-26=-2 7-24=-1203/0, 10-24: 12-20=0/707, 13-20= 15-19=-765/0, 16-19: ed floor live loads have h.	-15/134, 9-24=-231/ =-223/0, 2-30=-1234 24/0, 4-29=-289/75, 227/0, 7-26=0/1133, =-1499/0, 10-22=0/1 334/0, 15-20=0/40 =-238/0, 17-19=0/13 been considered for	D, /0, 143, I, 15							THURSDAY		SEA 0363	L 22 ILBERTITI



June 2,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication component component duration development and the prevent of the truster and property damage. Component Advance intervention, 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 BCEL Building Create the fabrication and the fabrication of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-21 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





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

Phone #:919-775-1450

# Builder: Pro Build Model: OverHills



# 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.

Apprved by: \_\_\_\_\_

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







PRELIMINARY - NOT FOR CONSTRUCTION

				Products			
		PlotID	Length	Product	Plies	Net Qty	Fab Type
Eloor Ho	ungor Liet	BM14	38-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
FIUUI Ha	inger List	BM13	12-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
HA422	7	BM6	12-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
1440	45	BM12	10-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
10	45	BM5	10-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
8-2	2	BM7	10-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
	-	BM10	6-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
	2	BM11	6-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
		BM9	4-00-00	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2	FF
		BM8	14-00-00	2.1 RigidLam SP LVL 1-3/4 x 11-7/8	2	2	FF
		BM18	16-00-00	2.1 RigidLam SP LVL 1-3/4 x 18	2	2	FF
		BM3	16-00-00	2.1 RigidLam SP LVL 1-3/4 x 18	3	3	FF
		BM20	30-00-00	2.1 RigidLam SP LVL 1-3/4 x 24	3	3	FF

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

F 00/00/0 00/00/0 00/00/0	Revisio 20 20 20	ns Name Name Name
00/00/0	00 00 00	Name Name
<b>THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.</b> 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 pullaing 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
œ		
Probuild	Overhills	2ND FLOOR TRUSS PLACEMENT PLAN
Scale: Date:	NTS	25
Scale: Date: Pr 2	NTS 5/1/202 Designe NP oject Nun 50401	25 er: nber: 14

Hatch Legend VALLEY FRAMED BY OTHERS



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25040114-B Overhills-2nd Floor-CL-20-020

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: I73877233 thru I73877245

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

North Carolina COA: C-0844



June 2,2025

## Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F209	Floor	7	1	Job Reference (optional)	173877233

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:tlxTEN7oa40KRtwhv75DRJzPuS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





#### Scale = 1:46.6

00010 - 1.40.0													
Plate Offsets (	(X, Y): [6:0-1-8,Edge],	[9:0-3-0,Edge], [12	:0-1-8,Edge],	[18:0-1-8,Ec	lge], [23:0-1-8,Ec	lge]							
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2021/7	TPI2014	CSI TC BC WB Matrix-SH	0.87 0.71 0.55	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.36 -0.50 0.04	(loc) 23-24 23-24 15	l/defl >565 >408 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 140 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.1(flat) *E: (flat) 2x4 SP 2400F 2.0E( 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 2-2-0 oc purlins, exi Rigid ceiling directly bracing, Except:	xcept* 7-14:2x4 SP flat) athing directly appli cept end verticals. applied or 10-0-0 o	4)   No.2 5)   ( 6) ( LOA ed or c	Refer to gird Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, D AD CASE(S)	er(s) for truss to t 2x6 strongbacks and fastened to e nails. Strongbac ends or restraine to not erect truss Standard	russ conr s, on edge each truss cks to be ed by othe backward	nections. a, spaced at with 3-10d attached to w ar means. Is.	valls					
REACTIONS	6-0-0 oc bracing: 19 (size) 15= Mech 25=0-3-8 Max Grav 15=406 (L 25=743 (l)	-21. hanical, 19=0-3-8, _C 7), 19=1204 (LC	1),										
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	Tension 1-25=-81/0, 14-15=- 2-3=-2011/0, 3-4=-2 5-6=-2066/0, 6-8=-9 9-10=-42/295, 10-11	408/0, 1-2=-4/0, 011/0, 4-5=-2066/0, 46/0, 8-9=-946/0, I=-665/0, 11-12=-66	, 55/0,									AMMU	
BOT CHORD	24-25=0/1244, 23-24 21-22=0/2066, 19-2 17-18=0/665, 16-17-	+=-246/0 4=0/2309, 22-23=0/: 1=-295/42, 18-19=0 −0/665, 15-16−0/0	2066, /572,								and and	ORTH CA	ROLINI
WEBS NOTES	5-23=-44/44, 6-22=C 12-17=-25/20, 2-25= 3-24=-174/0, 4-24=- 12-16=-472/0, 13-16 9-19=-852/0, 6-21=- 9-21=0/1152, 10-19=	/247, 11-18=-160/0 /247, 11-18=-160/0 -24=0/87 338/0, 4-23=-393/7! \$=-205/0, 14-16=0/4 1350/0, 8-21=-158/t =-720/0, 10-18=0/27	, 1, 5, 89, 88, 73							Willing		SEA 0363	L 22
<ol> <li>Unbalance this design</li> <li>All plates</li> <li>Bearings a Joint 19 S</li> </ol>	ed floor live loads have n. are 1.5x3 MT20 unless are assumed to be: Joi P 2400F 2.0E .	e been considered for s otherwise indicated int 25 SP 2400F 2.0	or d. E ,							3		AIC A. G	E.F.R. HALLING

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 BCEL Building Component Schut Information, purplication component component duration development and the prevent of the truster and property damage. Component Advance intervention, 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 BCEL Building Create the fabrication and the fabrication of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-21 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

INFEDING 818 Soundside Road Edenton, NC 27932

June 2,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F206	Floor	3	1	Job Reference (optional)	173877234

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:LzZqxieNhlsW3C84?r7E9GzPXjg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10-4-15	11-4-15 12-4-15	17-4-4	
10-4-15	1-0-0 1-0-0	4-11-5	

Scale = 1:33

Plate Offsets (X, Y): [6:0-1-8,Edge], [9:0-1-8,Edge], [13:0-1-8,Edge]

Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	1-7-3 1.00	CSI TC	0.57	DEFL Vert(LL)	in -0.33	(loc) 13-15	l/defl >624	L/d 480	PLATES MT20HS	<b>GRIP</b> 187/143
	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.45	13-15	>453	360	MT20	244/190
BCDL	0.0 5.0	Code	IRC2021/TPI2014	Matrix-SH	0.55	Horz(CT)	0.03	10	n/a	n/a	Weight: 90 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD BOT CHORD	2x4 SP 2400F 2.0E( 2x4 SP 2400F 2.0E( 2x4 SP No 2/flot)	flat) flat)										
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex	athing directly applie cept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(size) 10=0-3-8, Max Grav 10=747 (L	16=0-3-8 _C 1), 16=747 (LC 1	)									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-16=-81/0, 9-10=-7 2-3=-2025/0, 3-4=-2 5-6=-2098/0, 6-8=-1	24/0, 1-2=-4/0, 025/0, 4-5=-2098/0, 001/0 8-9=-1001/0										
BOT CHORD	15-16=0/1250, 13-1	5=0/2338, 12-13=0/2 1=0/33	2098,									
WEBS	5-13=-63/67, 6-12=0 2-15=0/879, 3-15=-1 4-13=-401/152, 6-11	)/218, 2-16=-1407/0  73/0, 4-15=-356/0,  =-1239/0, 8-11=-19	, 7/70,									111.
NOTEO	9-11=0/1163										WHY CA	ROUL
<ol> <li>Unbalance this design</li> <li>All plates</li> <li>All bearing</li> </ol>	ed floor live loads have n. are MT20 plates unles gs are assumed to be \$	been considered for s otherwise indicate SP 2400F 2.0E	or d.						4	il.	PROFESS	
4) Recomme 10-00-00	end 2x6 strongbacks, o oc and fastened to eac	n edge, spaced at truss with 3-10d							E		SEA	L

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



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.sbcaccomponents.com)

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F201	Floor Supported Gable	1	1	Job Reference (optional)	173877235

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:10 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:31.7

Loading TCLL		(psf) 40.0	Spacing Plate Grip DOL	1-7-3 1.00		CSI TC	0.06	<b>DEFL</b> Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190	
TCDL		10.0	Lumber DOL	1.00		BC	0.01	Vert(TL)	n/a	-	n/a	999			
BCLL BCDL		0.0 5.0	Rep Stress Incr Code	YES IRC202	1/TPI2014	WB Matrix-R	0.03	Horiz(1L)	0.00	16	n/a	n/a	Weight: 79 lb	FT = 20%F, 1	1%E
LUMBER				1)	Unbalanced	floor live loads ha	ave been	considered fo	r						
TOP CHORD	2x4 SP No.2	2(flat)			this design.										
BOT CHORD	2x4 SP No.2	2(flat)		2	All plates are	1.5x3 M120 unl	ess other	wise indicated	1.						
WEBS	2x4 SP No.3	B(flat)		3	Truss to be fi	ully sheathed from	m one fac	o peaning.							
DINERS	2x4 SP N0.3	s(nat)		т,	braced again	st lateral movem	ent (ie d	iadonal web)							
	Structural w	and chor	thing directly applied	d or 5	Gable studs	spaced at 1-4-0 o	DC.	agena nez).							
TOP CHORD	6-0-0 oc pur	lins exc	ent end verticals	6	All bearings a	are assumed to b	e SP No.	2.							
BOT CHORD	Rigid ceiling	directly	applied or 10-0-0 oc	7	Recommend	2x6 strongbacks	s, on edge	, spaced at							
	bracing.	,			10-00-00 oc	and fastened to e	each truss	with 3-10d							
REACTIONS	(size) 10	6=16-11-	0, 17=16-11-0,		(0.131" X 3")	nails. Strongbad	cks to be a	attached to wa	alls						
	18	8=16-11-	0, 19=16-11-0,			Chanderd	ed by othe	er means.							
	20	0=16-11-	0, 21=16-11-0,	Ľ	UAD CASE(S)	Standard									
	22	2=16-11- 5_16-11	0, 23=16-11-0,												
	2	7-16-11-	0, 20=10-11-0,												
	29	9=16-11-	0. 30=16-11-0												
	Max Grav 10	6=26 (LC	1), 17=94 (LC 1),												
	18	8=122 (L	C 1), 19=116 (LC 1)	,											
	20	0=118 (L	C 1), 21=117 (LC 1)	,											
	22	2=117 (L	C 1), 23=117 (LC 1)	,											
	2:	5=117 (L 7_117 (L	C 1), 26=117 (LC 1) C 1) 29-117 (LC 1)	,											
	29	9=117 (L	C = 1, $20 = 117$ ( $LC = 1$ ) C = 1, $30 = 42$ ( $LC = 1$ )	,									SALL!	115	
FORCES	(lb) - Maxim		pression/Maximum										1111 CA	Dille	
	Tension												THUR	ROM	•
TOP CHORD	1-30=-39/0,	15-16=-2	21/0, 1-2=-4/0, 2-3=-	4/0,								1	O FESS	in All	-
	3-4=-4/0, 4-	5=-4/0, 5	-6=-4/0, 6-7=-4/0,								/	53	in the second	MAN	
	7-8=-4/0, 8-9	9=-4/0, 9	-11=-4/0, 11-12=-4/0	),								V	K /	- de	-
	12-13=-4/0,	13-14=-4	1/0, 14-15=-4/0	0/4							-		054	e 1	-
BUICHURD	29-30=0/4, 2	28-29=0/4 23-25-0/4	4, 27-28=0/4, 26-27= 4  22-23-0/4  21-22-	=0/4, -0/4									SEA	L :	- 2
	20-21=0/4.1	19-20=0/-	4, 22 23=0/4, 21 22= 4. 18-19=0/4. 17-18=	=0/4.							1	:	0363	22 :	1
	16-17=0/4		, , -	,							-	6			-
WEBS	2-29=-106/0	), 3-28=-1	107/0, 4-27=-106/0,									1	·	- · ·	1
	5-26=-107/0	), 6-25=-1	107/0, 7-23=-107/0,									20	NGIN	EEH. A	2
	8-22=-107/0	), 9-21=-1 /0_12_40	107/0, 11-20=-107/0,	, n								1	2/0 ····	Et N	
NOTES	12-19=-106/	0, 13-18	=-110/0, 14-17=-88/0	U									A G	ILBUIN	
NULES													111111	IIIIII III	
														and the second	

June 2,2025

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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)



Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F203	Floor	2	1	Job Reference (optional)	173877236

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



7-5-0	8-5-0   9-5-0	16-11-0	
7-5-0	1-0-0 1-0-0	7-6-0	

Scale = 1:34

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

					-									
<b>Loadii</b> TCLL TCDI	ng	(psf) 40.0 10.0	Spacing Plate Grip DOL	1-7-3 1.00 1.00	CSI TC BC	0.51 0.82	DEFL Vert(LL) Vert(CT)	in -0.17 -0.22	(loc) 11-12 11-12	l/defl >999	L/d 480 360	PLATES MT20	<b>GRIP</b> 244/190	
BCLI		0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.22	10	n/a	n/a			
BCDL		5.0	Code	IRC2021/TPI2014	Matrix-SH	0.10		0.01		1,0		Weight: 88 lb	FT = 20%F,	11%E
LUMB TOP C BOT C WEBS OTHEI	ER CHORD CHORD CHORD RS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)												
TOP C	CHORD	Structural wood she 6-0-0 oc purlins, exe Rigid ceiling directly	athing directly applie cept end verticals. applied or 10-0-0 oc	ed or										
REAC	TIONS	bracing. (size) 10=0-3-8, Max Grav 10=728 (L	16=0-3-8 .C 1), 16=733 (LC 1	)										
FORC	ES	(lb) - Maximum Com Tension	pression/Maximum											
TOP C	HORD	1-16=-85/0, 9-10=-6 2-3=-1934/0, 3-4=-1 5-7=-1837/0, 7-8=-1	5/0, 1-2=0/0, 934/0, 4-5=-2202/0, 837/0, 8-9=-3/0											
вот с	HORD	15-16=0/1205, 13-15	5=0/2202, 12-13=0/2 1=0/1006	2202,										
WEBS	5	4-13=-77/98, 5-12=-0 2-15=0/827, 3-15=-2 5-11=-584/0, 7-11=-2 8-10=-1194/0	69/88, 2-16=-1361/0 14/20, 4-15=-523/0, 246/0, 8-11=0/943,	),								mmm	1111	
NOTE	s											N'TH CA	ROY	
1) Ur thi 2) All 3) Re 10	balance is desigr l bearing ecomme )-00-00 ( 131" X (	ed floor live loads have 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	been considered fo SP No.2 . n edge, spaced at h truss with 3-10d to be attached to w	r						4	ALL ALL	OR FESS	L	A. C.
(0. at 4) CA	their out	ter ends or restrained l	by other means.									0363	22	E.

LOAD CASE(S) Standard



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 BCEL Building Component Schut Information, purplication component component duration development and the prevent of the truster and property damage. Component Advance intervention, 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 BCEL Building Create the fabrication and the fabrication of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-21 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	Overhills-2nd Floor-CL-20-020	
25040114-B	F202	Floor	1	1	Job Reference (optional)	173877237

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries. Inc. Sun Jun 01 21:26:11

Page: 1

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



7-5-0	8-5-0 9-5-0	16-11-0
7-5-0	1-0-0 1-0-0	7-6-0

Scale = 1:34.7

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

														_
Load TCLL	ding ∟	(psf) 40.0	Spacing Plate Grip DOL	1-7-3 1.00	CSI TC	0.51	DEFL Vert(LL)	in -0.17	(loc) 11-12	l/defl >999	L/d 480	PLATES MT20	<b>GRIP</b> 244/190	
TCD	L	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.22	11-12	>910	360			
BCLI	L	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	10	n/a	n/a			
BCD	L	5.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 88 lb	FT = 20%F, 11%E	
шм	RED													
TOP	CHORD	2v4 SP No 2(flat)												
ROT	CHORD	2x4 SF No.2(flat)												
		2x4 SF No.2(flat)												
ОТН	FRS	2x4 SP No 3(flat)												
	CINC	2,4 01 10.0(1101)												
		Structurel wood abo	othing directly opply	ad or										
IUP	CHORD		auting directly applic											
РОТ		Bigid coiling directly	cept end verticals.	-										
BOT	CHORD	bracing	applied of 10-0-0 0											
	CTIONS	(aiza) 10.02.9	16 0 2 9											
KEA	CHONS	(SIZE) 10=0-3-0,		<b>\</b>										
		IVIAX GIAV 10=728 (L	LC I), 16=728 (LC I	)										
FOR	CES	(lb) - Maximum Com	pression/Maximum											
IOP	CHORD	1-16=-82/0, 9-10=-6	5/0, 1-2=-4/0,											
		2-3=-1934/0, 3-4=-1	934/0, 4-5=-2202/0,											
БОТ		5-7=-1837/0, 7-8=-1	837/0, 8-9=-3/0	2000										
BOI	CHORD	15-16=0/1204, 13-1	5=0/2202, 12-13=0/.	2202,										
		11-12=0/2202, 10-1		<b>`</b>										
VVEB	55	4-13=-77/98, 5-12=-	09/88, 2-10=-1300/0	),										
		2-15=0/829, 3-15=-2	210/20, 4-15=-523/0	,										
		5-11=-564/0, 7-11= 9 10_ 1104/0	240/0, 0-11=0/943,									minin	1111.	
		0-10-1134/0										IN'LY CA	Roll	
NOT	ES										1	all	COLUMN -	
) (ו	Unbalance	ed floor live loads have	e been considered fo	)r							1	O' EESS	Idin 4	
2) (	nis uesign	l. aro 1 Ev2 MT20 uploor	othorwigg indicator	ı						6	23	in a	Cursin	
∠) / 2\ /	All booring	are 1.0X3 IVI 20 UNIESS		<i>.</i>						2				
3) F 1\ E		nd 2v6 strongbacks	or NU.2.							-		0-1		
_			a set and a set of the											

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



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A MiTek Affiliat 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F213	Floor Girder	1	3	Job Reference (optional)	173877238





	Max Grav 10=4337 (LC 1), 15=3281 (LC 1)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.
TOP CHORD	9-10=-4254/0, 1-2=-272/0, 2-3=-13714/0,
	3-4=-13714/0, 4-5=-22195/0, 5-6=-22195/0,
	6-7=-22195/0, 7-8=-5702/0, 8-9=-5702/0
BOT CHORD	14-15=0/7230, 13-14=0/19474,
	12-13=0/19474, 11-12=0/14505, 10-11=0/431
NEBS	5-12=0/384, 2-15=-7561/0, 2-14=0/7046,
	4-14=-6259/0, 4-12=0/3345, 7-12=0/8356,
	7-11=-9566/0 9-11=0/6676

#### NOTES

1) N/A

3-ply truss to be connected together with 10d 2) (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 2 rows staggered at 0-4-0 oc. Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

CAUTION, Do not erect truss backwards. 9) 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6189 Ib down at 9-7-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 10-15=-8, 1-9=-80
  - Concentrated Loads (lb) Vert: 12=-6189 (B)



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Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F204	Floor	13	1	Job Reference (optional)	173877239

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	7-1-8	8-1-8	9-1-8	16-4-0
Γ	7-1-8	1-0-0	1-0-0	7-2-8

Scale = 1:32.5

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

Loading	(psf)	Spacing	1-7-3	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.49	Vert(LL)	-0.15	11-12	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.20	11-12	>984	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	10	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 86 lb	FT = 20%F, 11%	БЕ
	2v4 SP No 2(flat)												
BOT CHORD	2x4 SP No 2(flat)												
WEBS	2x4 SP No.3(flat)												
BRACING	2,01 01 11010(1101)												
TOP CHORD	Structural wood she	athing directly applie	ed or										
	6-0-0 oc purlins, exc	cept end verticals.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	0										
	bracing.												
REACTIONS	(size) 10= Mech	anical, 16= Mechan	ical										
	Max Grav 10=707 (L	.C 1), 16=707 (LC 1	)										
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension	•											
TOP CHORD	1-16=-84/0, 9-10=-5	5/0, 1-2=0/0,											
	2-3=-1835/0, 3-4=-18	835/0, 4-5=-2049/0,											
	5-7=-1684/0, 7-8=-1	684/0, 8-9=0/0											
BOT CHORD	15-16=0/1157, 13-15	5=0/2049, 12-13=0/2	2049,										
	11-12=0/2049, 10-11	1=0/852											
WEBS	4-13=-80/97, 5-12=-0	64/84, 2-16=-1307/0	), F										
	2-15=0/769, 3-15=-2	24/29, 4-15=-475/1	р,										
	3-11=-307/0, 7-11= 8-10=-1065/0	240/0, 0-11=0/944,											
NOTES	0 10-1000/0										minin	1111	
1) Unholonoo	d floor live loads have	boon considered fo							"TH CA	Rollin			
this design			11							N'	R	a Lille	
2) Refer to di	rder(s) for truss to trus	s connections							/	5.	U. FESS	Dr. VII	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.

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F205	Floor Girder	1	3	Job Reference (optional)	173877240

Run: 9 S 8.73 Feb 1 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Sun Jun 01 21:26:11 Page: 1 ID:fXXrHsMLo3MP5YW58\_MnJpzPfyp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-6-0 2-1-0 Special

1-6-0

Special	Special	Special	Specia	Special	2x4 II	Special		Special	
3x5 =	6x12 =		2x4 II	3x5 =	3x8 =		6x12 =		372 -
1 14	15 2	16	3 17	4	5 6	18	7	19	8
13									9
MT20HS 8x12	=		12	11	10				5x10 =
			5x10 =		5x10 =				
				MT20HS 8x12 WB	-				

16-4-0 16-4-0

Scale = 1:30.8

#### Plate Offsets (X, Y): [9:0-4-4.0-2-8], [10:0-2-8.0-2-8]

	., ., [0.0,0 _ 0],	[													
Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCU	40.0	Plate Grip DOI	1 00		TC	0 79	Vert(LL)	-0 15	10-12	>999	480	MT20HS	187/143		
TCDI	10.0	Lumber DOI	1.00		BC	0.82	Vert(CT)	-0.46	10-12	>413	360	MT20	244/190		
BCU	0.0	Ren Stress Incr	NO		WB	0.80	Horz(CT)	0.10	10 1 <u>2</u>	n/a	n/a	11120	211/100		
BCDI	5.0	Codo	100000	/TDI2014	Motrix SL	0.00	11012(01)	0.07	5	n/a	n/a	Waight: 201 lb	ET _ 110/		
BUDL	5.0	Code	IKC2021	/1712014	Maurix-SH							weight. Zo'i ib	FI = 11%	—	
LUMBER TOP CHORD	2x4 SP 2400F 2.0E		4) 5)	All plates are The Fabricat	MT20 plates unles on Tolerance at jo	ss other int 11 =	wise indicate 11%, joint 5 =	d. =	5) D S	ead + 0.7 torage +	75 Roc 0.75 A	f Live (balanced) ttic Floor: Lumbe	+ 0.75 Uninhab. Attic r Increase=1.00,	;	
BOT CHORD	2x6 SP 2400F 2.0E			11%					Р	late Incre	ease=1	.00			
WEBS	2x4 SP No.3 *Excep SP No.2	t* 13-2,12-2,10-7,9-7	:2x4 6) 7)	Refer to girde Load case(s)	er(s) for truss to tru 1, 2, 5, 6, 8, 9 has	ss conr /have b	ections. een modified		U	niform Lo Vert: 9-	oads (ll 13=-8,	o/ft) 1-8=-737			
OTHERS	2x4 SP No.3			Building desi	gner must review le	oads to	verify that the	ey 🛛	С	oncentra	ted Lo	ads (lb)			
BRACING				are correct fo	r the intended use	of this t	russ.			Vert: 5=	-216 (I	3), 4=-216 (B), 14	=-156 (B), 15=-216		
TOP CHORD	Structural wood she	athing directly applied	dor 8)	Recommend	2x6 strongbacks,	on edge	, spaced at			(B), 16=	-216 (I	B), 17=-216 (B), 1	8=-216 (B), 19=-255		
	4-11-10 oc purlins	except end verticals		10-00-00 oc	and fastened to ea	ch truss	with 3-10d			(B)		,, ( ),	( <i>//</i>		
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc		(0.131" X 3") at their outer	nails. Strongback ends or restrained	s to be a by othe	attached to ware means.	alls	6) D S	ead + 0.1 torage +	75 Sno 0.75 A	w (balanced) + 0. ttic Floor: Lumber	75 Uninhab. Attic Increase=1.00,		
REACTIONS	(size) 9= Mecha Max Grav 9=7047 (L	nical, 13= Mechanica C 9), 13=7109 (LC 9	al 9) )	Hanger(s) or provided suff	other connection of icient to support co	levice(s	) shall be ited load(s) 2 <sup>-</sup>	19 C III-	P U	late Incre niform Lo	ease=1 bads (I	.00 p/ft)			
FORCES	(lb) - Maximum Com Tension	pression/Maximum		Ib down and 115 ib up at 0-7-8, 310 ib down and 126 ib         Vert: 9-13=-8, 1-8=-7:           up at 2-7-8, 310 ib down and 126 ib up at 4-7-8, 310 ib         Concentrated Loads (ib)											
TOP CHORD	1-13=-1342/0, 8-9=- 2-3=-21357/0, 3-4=-2 6-7=-20557/0, 7-8=-2	1053/0, 1-2=-959/0, 21357/0, 4-6=-20557, 817/0	/0,	Command 126 ib up at 6-7-6, 310 ib down and 126 ib up at 10-7-8, and 310         Vert: 5=-185 (B), 4=-185 (B), 14=-164           (B), 16=-185 (B), 12-7-8, and 349 ib down and 126 ib up at 12-7-8, and 349 ib up at 12-7-8, and 349 ib up at 12-7-8, and 349 ib down and 126 ib up at 12-7-8, and 349 ib up at 12-								=-164 (B), 15=-185 8=-185 (B), 19=-225			
BOT CHORD	12-13=0/14358, 10-1 9-10-0/12733	12=0/23955,		such connec	tion device(s) is the	e respor	esign/selectionsibility of othe	ers.	8) D +	ead + 0.3 0.75 Atti	75 Sno c Flooi	w (bal.) + 0.75 Uı · + 0.75(0.6 MWF	ninhab. Attic Storage RS Wind (Neg. Int)		
WEBS	2-13=-14446/0, 2-12 4-12=-2823/0, 4-10= 7-10=0/8502, 7-9=-1	2=0/7606, 3-12=-2201 3693/0, 6-10=-2155, 3186/0	1/0, <b>LO</b> /0, 1)	AD CASE(S) Dead + Floo Plate Increa	Standard or Live (balanced): ise=1.00 ads (lb/ft)	Lumbei	Increase=1.0	00,	U	Left): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 9-13=-8, 1-8=-737					
NOTES				Vert: 9-1	38 1-8806							"TH UA	ROUL		
1) 3-ply truss (0.131"x3" Top chord	to be connected toget ) nails as follows: s connected as follows	ther with 10d s: 2x4 - 1 row at 0-7-0	)	Concentrate Vert: 5=- (B), 16=-	ed Loads (lb) 117 (B), 4=-117 (B) 117 (B), 17=-117 (I	), 14=-1 B), 18=-	20 (B), 15=-1 117 (B), 19=-	17 159		4	i	OFFESE	2 Miles	-	
oc. Bottom ch staggered	ords connected as follo at 0-9-0 oc.	ows: 2x6 - 2 rows	2)	(B) Dead + Uni	nhabitable Attic Sto	orage: L	umber					SEA			
Web conn 2) All loads a except if n CASE(S) s	ected as follows: 2x4 - re considered equally oted as front (F) or bac section. Ply to ply conr o distribute only loads	1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ nections have been poted as (E) or (B)	AD	Uniform Loa Vert: 9-1 Concentrate Vert: 5=-	00, Plate Increase ads (lb/ft) B=-8, 1-8=-806 ed Loads (lb) 117 (B), 4=-117 (B)	=1.00 ), 14=-1	20 (B), 15=-1	17				0363	22 ER A 3		
<ul><li>a) Unbalance this design</li></ul>	erwise indicated. ed floor live loads have h.	been considered for		(B), 16=- (B)	117 (B), 17=-117 (İ	B), 18=-	117 (B), 19=-	159				A. G.	LBF.		



SINFERING

1-6-0

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F205	Floor Girder	1	3	Job Reference (optional)	173877240

Concentrated Loads (lb)

Vert: 5=-280 (B), 4=-280 (B), 14=-219 (B), 15=-280 (B), 16=-280 (B), 17=-280 (B), 18=-280 (B), 19=-319 (B)

 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 9-13=-8, 1-8=-737

Concentrated Loads (lb)

Vert: 5=-310 (B), 4=-310 (B), 14=-211 (B), 15=-310 (B), 16=-310 (B), 17=-310 (B), 18=-310 (B), 19=-349 (B)

Run: 9 S 8.73 Feb 1 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:fXXrHsMLo3MP5YW58\_MnJpzPfyp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



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Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F208	Floor	1	1	Job Reference (optional)	173877241

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:eGL3pWAn8KCtqfo35Hiss?zOe?7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:30.8

#### Plate Offsets (X, Y): [5:0-1-8,Edge], [11:0-1-8,Edge]

Lo	ading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
тс	LL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190	
тс	DL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.06	9-10	>999	360			
ВC	LL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	8	n/a	n/a			
BC	DL	5.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 76 lb	FT = 20%F, 11%	Ξ
	MBER													
		2x4 SP No.2(flat)												
BO		2x4 SP No.2(flat)												
	:BS	2x4 SP No.3(flat)												
	ACING	o												
10	P CHORD	Structural wood she	athing directly applie	ed or										
<b>~</b> ~		6-0-0 oc purlins, ex	cept end verticals.	_										
вO	CHORD	Rigid celling directly	applied or 10-0-0 of	С										
		6 0 0 oc bracing: 12	12											
-			-13.	0.0.0										
ĸE	ACTIONS	(SIZE) 8= Mecha	anical, 12=3-0-0, 13=	=3-0-0										
		12_149 (LC	C 9)	,										
ᇊ	DCES	(lb) Maximum Com	Drossion/Maximum											
ΓU	RUES	(ID) - Maximum Com Tension	pression/maximum											
то	P CHORD	1-13=-93/0 7-8=-43	7/0 1-2=0/0											
. •	0.10112	2-3=-94/423. 3-4=-7	79/0. 4-5=-779/0.											
		5-6=-427/0, 6-7=-42	7/0											
во	T CHORD	12-13=-423/94, 11-1	2=0/506, 10-11=0/7	79,										
		9-10=0/779, 8-9=0/0	)											
WE	BS	4-11=-167/0, 5-10=-	16/24, 5-9=-397/0,										1.	
		6-9=-204/0, 7-9=0/5	90, 2-12=-466/0,										1111	
		3-12=-823/0, 3-11=0	)/352, 2-13=-105/47	3								TH UA	Roille	
NO	TES										N	A	D. Chill	
1)	Unbalance	ed floor live loads have	e been considered fo	or						/	22	FESS	N. Si	
	this design	۱.								4	D.	<u> </u>	and y	-
2)	Bearings a	are assumed to be: Joi	int 12 SP No.2 .							-	19	. 4	1 :	
3)	Refer to gi	irder(s) for truss to trus	ss connections.							=		SEA		
4)	Provide me	echanical connection (	(by others) of truss t	0						=		0000		
	bearing pla	ate capable of withstar	nding 122 lb uplift at	joint						1		0363	22 : :	
<b>_</b> \	13. Decemento	nd OvC atranshealer a								-	0		1 2	
5)		nu ∠xo suongbacks, o	the baced at								2	· ~	01. 3	
	(0 131" Y 1	3") naile Strongbacke	to be attached to w	alle							20	NGINI	Enix	
	at their out	ter ends or restrained	hv other means	and							1	2/0	THE AN	

6) CAUTION, Do not erect truss backwards.

0) CAUTION, DUTIOL ELECT TUSS DAD

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F207	Floor	9	1	Job Reference (optional)	173877242



1-6-0





Scale = 1:30.8

#### Plate Offsets (X, Y): [5:0-1-8,Edge], [11:0-1-8,Edge]

<b>Loading</b> TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2021/TPI2014	<b>CSI</b> TC BC WB Matrix-SH	0.45 0.35 0.28	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.06 0.01	(loc) 9-10 9-10 8	l/defl >999 >999 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20 Weight: 76 lb	<b>GRIP</b> 244/190 FT = 20%F, 1	11%E
LUMBER TOP CHOF BOT CHOF WEBS BRACING TOP CHOF BOT CHOF	<ul> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.3(flat)</li> <li>2x4 SP No.3(flat)</li> <li>Structural wood she 6-0-0 oc purlins, exx</li> <li>Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 12</li> </ul>	athing directly applie cept end verticals. applied or 10-0-0 or -13.	LOAD CASE(S) ed or	Standard									
REACTION	IS (size) 8= Mecha Mechanic Max Uplift 13=-127 ( Max Grav 8=438 (LC 13=146 (L	anical, 12=0-3-8, 13= al (LC 7) C 4), 12=853 (LC 7), _C 8)	-										
FORCES TOP CHOP BOT CHOP	(lb) - Maximum Com Tension RD 1-13=-92/0, 7-8=-43 2-3=-92/429, 3-4=-7 5-6=-427/0, 6-7=-42 RD 12-13=-429/92, 11-1	pression/Maximum 7/0, 1-2=0/0, 80/0, 4-5=-780/0, 7/0 (2=0/503, 10-11=0/7	80,										
WEBS	9-10=0/780, 8-9=0/0 2-12=-469/0, 4-11=- 2-13=-102/481, 3-12 5-9=-398/0, 6-9=-20	) 167/0, 5-10=-16/24, 2=-827/0, 3-11=0/35 3/0, 7-9=0/590	5,								TH CA	ROLIN	
NOTES 1) Unbala this de 2) Bearing 3) Refer t 4) Provide bearing 13. 5) Recom 10-00- (0.131' at their 6) CAUTI	nced floor live loads have sign. gs are assumed to be: , Ja o girder(s) for truss to trus e mechanical connection ( plate capable of withstar mend 2x6 strongbacks, o 00 oc and fastened to eac X 3") nails. Strongbacks outer ends or restrained I ON, Do not erect truss ba	o joint alls						Commence.		SEA 0363	ER. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1	Annun ann	





1-6-0

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F212	Floor Girder	1	2	Job Reference (optional)	173877243



Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:12

Scale = 1:30.5

Plate Offsets (X, Y): [7:0-3-12.0-2-4]

	, , , , , <b>,</b> , , , , , , , , , , , , ,	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	0.78	Vert(LL)	-0.13	7-8	>968	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00		BC	0.96	Vert(CT)	-0.25	7-8	>508	360	MT20HS	187/143	
BCLL	0.0	Rep Stress Incr	NO		WB	0.86	Horz(CT)	0.05	6	n/a	n/a			
BCDL	5.0	Code	IRC2021	/TPI2014	Matrix-SH							Weight: 109 lb	FT = 11%	
TCLL TCDL BCLL BCLL BCDL LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS 1) 2-ply truss (0.131"x3") Top chords oc. BOTORES 1) 2-ply truss (0.131"x3") Top chords oc. Bottom cho 0-9-0 oc. Web conne (2ASE(S) s	40.0 10.0 10.0 0.0 5.0 2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E 2x4 SP No.3 *Excep No.2 Structural wood sheat 3-6-12 oc purlins, et Rigid ceiling directly bracing. (size) 6= Mecha Max Grav 6=6195 (L (Ib) - Maximum Com Tension 1-8=-1248/0, 5-6=-11 2-3=-12993/0, 3-4=- 7-8=0/9710, 6-7=0/8 2-8=-9753/0, 2-7=0/3 4-7=0/4836, 4-6=-90 to be connected toget ) nails as follows: s connected as follows: s connected as follows: poted as follows: 2x4 - re considered equally section. Ply to ply connected toget	Plate Grip DOL Lumber DOL Rep Stress Incr Code t* 8-2,7-4,6-4:2x4 SP athing directly applied xcept end verticals. applied or 10-0 oc unical, 8= Mechanical LC 1), 8=5762 (LC 1) pression/Maximum 154/0, 1-2=-760/0, 12993/0, 4-5=-559/0 1593 3608, 3-7=-2163/0, 965/0 ther with 10d s: 2x4 - 1 row at 0-6-0 ows: 2x4 - 1 row at 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ nections have been	1.00 1.00 NO IRC2021 6) 7) for 8) LO 1)	/TPI2014 Load case(s) Building desis are correct for Recommend 10-00-00 oc : (0.131" X 3") at their outer Hanger(s) or provided suff Ib down and up at 3-3-4, down and 11 Ib up at 9-3- on top chord, 2-11-6, 399 II b down at 402 Ib down selection of s responsibility <b>AD CASE(S)</b> Dead + Floc Plate Increa Uniform Loa Vert: 6-8- Concentrate Vert: 5 10=-399 14=-399 18=-115 Dead + Unit Increase=1.	TC BC WB Matrix-SH 1, 2, 5, 6, 8, 9 has, gner must review lo r the intended use 2x6 strongbacks, co and fastened to eac nails. Strongbacks ends or restrained other connection d icient to support co 19 lb up at 1-3-4, 215 lb down and 11 9 lb up at 1-3-4, 215 lb down and 11 9 lb up at 1-3-4, and 225 lb down and 399 lb down a b down at 4-6-9, 33 at 7-8-15, and 399 at 10-8-4 on bottor uch connection dev of others. Standard br Live (balanced): I se=1.00 ads (lb/ft) =-8, 1-5=-806 ad Loads (lb) 124 (B), 6=-402 (F) (F), 11=-399 (F), 12 (F), 15=-115 (B), 16 (B)	0.78 0.96 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.8	Vert(LL) Vert(CT) Horz(CT) Horz(CT) een modified. verify that the rruss. , spaced at s with 3-10d attached to wa er means. ) shall be tted load(s) 2 <sup>-</sup> down and 11 <sup>-</sup> at 5-3-4, 21 <sup>-</sup> bo down and 11 <sup>-</sup> down and 11 <sup>-</sup> 3 lb up at 10 3, 399 lb dowr wan at 6-1-12 n at 9-4-2, ar 1. The design is the for the format of the format	-0.13 -0.25 0.05 alls 16 9 lb 5 lb 5 lb 6 at 7 00, 4 (F), (F), (B),	7-8 7-8 6 5) Dt 5) Dt 6 5) Dt 7 6) Dt 9 1 0 0 0 1 0 1 0 1 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 0 1	>968 >508 n/a ead + 0.7 orage + ate Incre- niform Lc Vert: 5= 10=-324 14=-324 18=-151 ead + 0.7 orage + ate Incre- niform Lc Vert: 5= 10=-324 14=-324 18=-151 ead + 0.7 Sorage + ate Incre- niform Lc	480 360 n/a 75 Roo 0.75 A hasse=1 33=-8, 1 ted Lo: 160 (f) (F), 1 (B) 75 Sno 0.75 A sasse=1 (F), 1 (F), 1 (B) 75 Sno 0.75 A (F), 1 (B) 75 Sno 0.75 A (F), 1 (B) 75 Sno 0.75 A (F), 1 (B) 75 Sno 0.75 A (F), 1 (C), 1	MT20 MT20HS Weight: 109 lb of Live (balanced) ftic Floor: Lumbe .00 b/ft) -5=-737 ads (lb) 3), 6=-327 (F), 2= -151 (B), 16=- <sup>-1</sup> w (balanced) + 0 ttic Floor: Lumbe .00 b/ft) -5=-737 ads (lb) 3), 6=-327 (F), 2= 1=-324 (F), 12=- <sup>-1</sup> 5=-159 (B), 16=- <sup>-1</sup> w (bal.) + 0.75 U + 0.75 (0.6 MWF trease=100, Plate CA	244/190 187/143 FT = 11% + 0.75 Uninha r Increase=1.0 -151 (B), 9=-3 324 (F), 13=-32 I51 (B), 17=-19 .75 Uninhab. A r Increase=1.0 -159 (B), 9=-3 324 (F), 13=-32 159 (B), 17=-19 ninhab. Attic S RS Wind (Neg b/Increase=1.0 Compared to the second	b. Attic 0, 24 (F), 24 (F), 51 (B), (ttic 0, 24 (F), 59 (B), torage 1, Int)
provided to unless othe 3) Unbalance this design 4) All plates a 5) Refer to gin	o distribute only loads i erwise indicated. ed floor live loads have h. are MT20 plates unless rder(s) for truss to trus	noted as (F) or (B), been considered for s otherwise indicated. s connections.		Uniform Loa Vert: 6-8- Concentrate Vert: 5=- 10=-399 14=-399 18=-115	ads (lb/ft) =-8, 1-5=-806 ad Loads (lb) (24 (B), 6=-402 (F) (F), 11=-399 (F), 12 (F), 15=-115 (B), 16 (B)	, 2=-11 2=-399 6=-115	5 (B), 9=-399 (F), 13=-399 (B), 17=-115	(F), (F), (B),		11115.				unnun.
												Jun	e 2,2025	

# Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTeR% 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 **ANSUTPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) with the SCH trust in the mether is the prevent collapse of the provention of the property indication is a prevent on the prevent of the prevent of the prevention of the prevent of the preve and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)
Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F212	Floor Girder	1	2	Job Reference (optional)	173877243

9)

Uniform Loads (lb/ft)	
Vert: 6-8=-8, 1-5=-737	
Concentrated Loads (lb)	
Vert: 5=-225 (B), 6=-327 (F), 2=-215 (B), 9=-324 (F),	
10=-324 (F), 11=-324 (F), 12=-324 (F), 13=-324 (F),	
14=-324 (F), 15=-216 (B), 16=-215 (B), 17=-215 (B),	
18=-215 (B)	
Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic	
Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind	
(Neg. Int) Left): Lumber Increase=1.00, Plate	
Increase=1.00	
Uniform Loads (lb/ft)	
Vert: 6-8=-8. 1-5=-737	
Concentrated Loads (lb)	
Vert: 5=-217 (B), 6=-327 (F), 2=-207 (B), 9=-324 (F),	
10=-324 (F), 11=-324 (F), 12=-324 (F), 13=-324 (F),	
14=-324 (F), 15=-208 (B), 16=-207 (B), 17=-207 (B),	
18=-207 (B)	

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:12 ID:Kh6PRPzF9xOexJ4k2O1UG2zPXfO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2





Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F210	Floor Supported Gable	1	1	Job Reference (optional)	173877244

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries, Inc. Sun Jun 01 21:26:11 ID:j8Q5sAL4GR6hsEMj1ZJJEOzPfyr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





#### Scale = 1:19.4

Plate Offsets (X, Y): [7:0-1-12,Edge]

Loading TCLL TCDL BCLL	(	(psf) 40.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI TC BC WB	0.07 0.02 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190	-
BCDL		5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 29 lb	FT = 20%F, 11%E	_
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2( 2x4 SP No.2( 2x4 SP No.3( 2x4 SP No.3( Structural wo 5-8-0 oc purli Rigid ceiling of bracing. (size) 7=: 10: Max Grav 7=:	(flat) (flat) (flat) (flat) ood shea ins, exc directly a 5-8-0, 8 =5-8-0, 74 (LC 1	thing directly applie ept end verticals. applied or 10-0-0 or =5-8-0, 9=5-8-0, 11=5-8-0 1), 8=126 (LC 1), 9=	ed or C										
	(LC 1)	C 1), 10=	=109 (LC 1), 11=49	(LC										
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximu Tension 1-11=-43/0, 6 3-4=-9/0, 4-5: 10-11=0/9, 9- 2-10=-102/0.	im Comp 6-7=0/10 =-9/0, 5- -10=0/9, 3-9=-10	oression/Maximum 1, 1-2=-9/0, 2-3=-9/0 -6=-1/0 8-9=0/9, 7-8=0/9 16/0, 4-8=-113/0.	),										
NOTES 1) All plates a 2) Gable requ 3) Truss to be braced aga 4) Gable stud 5) All bearing; 6) Recommer 10-00-00 o (0.131" X 3 at their out; 7) CAUTION, LOAD CASE(S)	5-7=-80/0 are 1.5x3 MT20 uires continuous e fully sheathed ainst lateral mo is spaced at 1-4 s are assumed nd 2x6 strongbi cc and fastened 3") nails. Strong er ends or rest Do not erect tr <b>5)</b> Standard	) unless s bottom d from or overnent 4-0 oc. t to be S acks, or d to each gbacks trained b russ bac	otherwise indicated in chord bearing. Ine face or securely (i.e. diagonal web). P No.2. n edge, spaced at n truss with 3-10d to be attached to w y other means. kwards.	l. alls						My transition		SEA 0363	ROLL 22 E.R. HUMAN	

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)



June 2,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-2nd Floor-CL-20-020	
25040114-B	F211	Floor Supported Gable	1	1	Job Reference (optional)	173877245

Run: 9 E 8.73 Feb 1 2025 Print: 8.730 E Feb 19 2025 MiTek Industries. Inc. Sun Jun 01 21:26:11 ID:tlxTEN7oa40KRtwhv75DRJzPuS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.9													
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a			
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 16 lb	FT = 20%F, 11%E	
LUMBER													
TOP CHORD	2x4 SP No.2(flat)												
BOT CHORD	2x4 SP No.2(flat)												

LUM	BER
TOP	CHC

	274 01 11	0.2(liat)
BOT CHORD	2x4 SP N	o.2(flat)
WEBS	2x4 SP N	o.3(flat)
OTHERS	2x4 SP N	o.3(flat)
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	2-8-0 oc	purlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	4=2-8-0, 5=2-8-0, 6=2-8-0
	Max Grav	4=47 (LC 1), 5=109 (LC 1), 6=47
		(LC 1)
FORCES	(lb) - Max	timum Compression/Maximum
	Tension	
TOP CHORD	1-6=-42/0	), 3-4=-42/0, 1-2=-7/0, 2-3=-7/0
BOT CHORD	5-6=0/7, 4	4-5=0/7
WEBS	2-5=-100/	/0
NOTES		

1) Gable requires continuous bottom chord bearing.

Truss to be fully sheathed from one face or securely 2)

braced against lateral movement (i.e. diagonal web). Gable studs spaced at 1-4-0 oc. 3)

All bearings are assumed to be SP No.2 . 4)

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









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

Phone #:919-775-1450

# Builder: Pro Build Model: OverHills



# 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.

Apprved by: \_\_\_\_\_

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









REFER

MUST

**IER** 

PRELIMINARY - NOT FOR CONSTRUCTION

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

]]	F	Revision	
tor.			Name
er trac			Name
Pe Con			Name
nly.			Name
ns c anc	00/00/		Name
ctors shown within these documents are recommendation blift connectors are the responsibilty of the bldg designer	<b>THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.</b> These trusses are lesigned as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for	sach truss design identified on the placement drawing. The building designer s 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	Nulding designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Addison, WI 53179
3 ARE READ AS: FOOT-INCH-SIXTEENTH. ** All uplift connec ANSI/TPI 1, all upl			Lumber
DIMENSIONS			AN
-OADS. **	p	S	
D TOGETHER PRIOR TO ADDING ANY I	Probui	Overhill	ROOF PLACEME
ECTED TOGETHER PRIOR TO ADDING ANY I	Probui	Overhill	ROOF PLACEME
CONNECTED TOGETHER PRIOR TO ADDING ANY L	Scale:	Overhill	ROOF PLACEME
JLLY CONNECTED TOGETHER PRIOR TO ADDING ANY I	Scale:	NTS 5/3/202	<b>ROOF PLACEME</b>
BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY I	Scale:	NTS N/3/202 Designe NP	<b>BOOF PLACEME</b>
1UST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY I	Scale:	NTS NTS 3/3/202 Designe NP oject Num 50401	<b>BODF PLACEME</b>
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Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25040114-01 Overhills-Roof-CL-20-020

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: I74009654 thru I74009725

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

North Carolina COA: C-0844



June 6,2025

# Tony Miller

**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.



#### Continued on page 2

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 property 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)

TRENCO A Mitek Atfiliate

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A2	Attic	2	1	Job Reference (optional)	174009654

#### Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 41.

 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:04 ID:qGIZsS4tG4Lt3bYtXUG69ezPdT4-RtC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2







mann June 6,2025

ontinued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A1	Attic Structural Gable	1	1	Job Reference (optional)	74009655

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-7-9 to 2-4-0, Interior (1) 2-4-0 to 19-6-8, Exterior(2R) 19-6-8 to 23-6-1, Interior (1) 23-6-1 to 31-7-8, Exterior(2R) 31-7-8 to 35-7-1, Interior (1) 35-7-1 to 39-5-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Ceiling dead load (5.0 psf) on member(s). 2-3, 3-4, 4-5, 13-14, 14-15, 21-22, 15-55, 53-55, 53-54, 21-54; Wall dead load (5.0psf) on member(s).14-42, 22-26, 5-49, 4-50, 3-51, 11-46, 9-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 51-52, 50-51, 49-50, 48-49, 47-48, 46-47, 41-42, 39-41, 37-39, 34-37, 32-34, 31-32, 29-31, 27-29, 26-27
- 14) All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 52, 18 lb uplift at joint 47, 13 lb uplift at joint 48 and 152 lb uplift at joint 51.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard

CHILLING WIND

Page: 2



R. MIL

June 6,2025

SEAL 023594

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 ANS/TPH 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.sbcaccomponents.com)

818 Soundside Road Edenton, NC 27932

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:03 ID:yKPecd1P9myEMOyv3pNRj6zPfzE-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A7	Piggyback Base	6	1	Job Reference (optional)	174009656

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:06

Page: 1



# NOTES

WEBS

TCDL

BCLL

BCDL

WEBS

WEBS

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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A6	Piggyback Base	2	1	Job Reference (optional)	174009657

15-10-2

11-8-4

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

TCDL

BCLL

BCDL

WEBS

WEBS

WEBS

1)

-1-10-8

6-0-2

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:05 ID:Mv5mFf4HShLoDshUlxw8LlzPfzB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

23-3-4

28-2-4

18-7-11

Page: 1



bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	B6	Attic	2	1	Job Reference (optional)	174009658

(psf)

20.0

10.0

0.0

10.0

18.9/20.0

(size)

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1.15

YES

IRC2021/TPI2014

Scale = 1:91.6

Loading

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING TOP CHORD

BOT CHORD

REACTIONS

TOP CHORD

BOT CHORD

JOINTS

FORCES

LUMBER TOP CHORD

BOT CHORD

TCLL (roof)

Snow (Pf/Pg)



CSI

тс

BC

WB

Matrix-MSH

2x6 SP No.2 2x4 SP No.1 *Except* 33-26,26-14:2x4 SP No.2 2x4 SP No.3 *Except* 2-34,10-13,3-9:2x4 SP No.2 2x4 SP No.3 Structural wood sheathing directly applied or 4-4-9 oc purlins, except 2-0-0 oc purlins, (6-0-0 max.): 4-8. Rigid ceiling directly applied or 3-0-14 oc bracing. 1 Brace at Jt(s): 15,	WEBS 33-34=-34/5 10-14=0/854 36-37=-1700 9-38=-1502/ 32-34=-1255 16-17=-1055 28-30=0/894 18-21=-528, 25-27=0/386 5-36=-415/3 6-37=-217/9 7-37=-200/2 1-35=-2128/ NOTES	45, 2-33=-16/673, 13-14=0/702, 8, 3-36=-2851/6, 3/176, 37-38=-940/315, 397, 13-15=-1251/0, 3/0, 15-16=0/603, 31-32=0/601, 5/0, 30-31=-1072/0, 17-18=0/877, 5, 18-19=-153/0, 28-29=-155/0, 0, 27-28=-547/0, 21-22=-12/352, 0, 22-23=-188/16, 24-25=-201/9, 0, 4-36=-103/1484, 2, 5-37=-21/872, 7-38=-279/117, 12, 8-38=-378/971, 1-34=0/1234, 0, 11-12=-1959/0, 11-13=0/1163	<ol> <li>Ceiling dead load (5.0 psf) on member(s). 2-3, 9-10, 3-36, 36-37, 37-38, 9-38; Wall dead load (5.0psf) on member(s).2-33, 10-14</li> <li>Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 32-33, 30-32, 29-30, 27-29, 24-27, 23-24, 21-23, 19-21, 17-19, 15-17, 14-15</li> <li>All bearings are assumed to be SP No.1.</li> <li>Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> <li>Attic room checked for L/360 deflection.</li> <li>LOAD CASE(S) Standard</li> </ol>
32, 19, 29, 23, 24, 36, 37, 38 (size) 12=0-3-8, 35=0-3-8 Max Horiz 35=-182 (LC 11) Max Grav 12=1726 (LC 3), 35=1856 (LC 3) (lb) - Maximum Compression/Maximum Tension 1-2=-1870/0, 2-3=-1450/96, 3-4=-282/881, 4-5=-883/819, 5-6=-1220/453, 6-7=-1220/453, 7-8=-1020/264, 8-9=-383/114, 9-10=-1188/140, 10-11=-1896/0 34-35=-182/182, 31-34=0/1924, 28-31=0/2579, 25-28=0/3670, 22-25=0/3955, 18-22=0/3694, 16-18=0/2632, 13-16=0/1888, 12-13=0/0, 32-33=-105/193, 30-32=-903/102, 29-30=-2375/0, 27-29=-2375/0, 24-27=-3073/0, 23-24=-3073/0, 21-23=-3073/0, 15-17=-952/0, 14-15=-75/80	<ol> <li>Unbalanced roof live loa this design.</li> <li>Wind: ASCE 7-16; Vult= Vasd=103mph; TCDL=6 II; Exp B; Enclosed; MW Exterior(2E) 0-1-12 to 3- 8-4-14, Exterior(2R) 8-4 12-7-13 to 20-1-0, Exter Interior (1) 24-3-15 to 27 right exposed ; end verti for members and forces Lumber DOL=1.60 plate</li> <li>TCLL: ASCE 7-16; Pr=22 Plate DOL=1.15); Pg=22 DOL=1.15 Plate DOL=1 Exp.; Ce=0.9; Cs=1.00;</li> <li>Provide adequate draina All plates are MT20 platt</li> <li>All plates are 3x5 MT20</li> <li>* This truss has been de on the bottom chord in a 3-06-00 tall by 2-00-00 v chord and any other mei</li> </ol>	ds have been considered for 130mph (3-second gust) .0psf; BCDL=6.0psf; h=25ft; Cat. FRS (envelope) and C-C 1-12, Interior (1) 3-1-12 to 14 to 12-7-13, Interior (1) or(2R) 20-1-0 to 24-3-15, -11-4 zone; cantilever left and cal left and right exposed;C-C & MWFRS for reactions shown; grip DOL=1.33 .0.0 psf; Pf=18.9 psf (Lum 15); Is=1.0; Rough Cat B; Fully Ct=1.10, Lu=50-0-0 ige to prevent water ponding. is unless otherwise indicated. unless otherwise indicated. signed for a live load of 20.0psf II areas where a rectangle <i>vide</i> will fit between the bottom mbers.	SEAL 023594

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Attic

0.66

0.81

0.63

in (loc)

23-24

23-24

14-33

12

-0.26

-0.41

0.07

-0.19

l/defl

>999

>804

>999

L/d

240

180

n/a n/a

360

June 6,2025

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 a fuss system. Derive use, the building designer host verify the applications of design had been and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

PLATES

MT18HS

Weight: 291 lb

MT20

GRIP

244/190

244/190

FT = 20%

						1	-	_					
Job		Truss		Truss Type		Qty	Ply	0	/erhills-R	loof-CL-	20-020	)	
25040114-0	1	B7		Attic Girder		1	4	Jo	b Refere	ence (op	tional)		174009659
Carter Compone	nts (Sanford, NC	C), Sanford	d, NC - 27332,		Run: 8.73 E Mar 19 2	2025 Print: 8	3.730 E Mar	19 202	25 MiTek	Industries	s, Inc. F	ri Jun 06 10:38:53	Page: 1
					ID:fXXrHsMLo3MP5Y	W58_MnJp	zPfyp-djlphE 21	E6ymC	QtC_V16W	/nSnApu	JuGaJL	J0ND537O3rz9Bmo	
				2-3-4 4-5-12 8	11-3-0 .0-08-2-3 14-0-1	8 16-10-0	20- 20-1-0	6-0 24	1-3-13	28-1-0			
				2-3-4 2-2-8 3	·6-4 <sub>0-2-3</sub> 2-9-8	2-9-8	3-3-0	+++3	3-3-9	3-9-3			
					<sub>6x1</sub> 3-0-13		0-5	-6-4					
				MT1	8x10 = $3x5 =$	Зx	5= 6x8	3×12∢ 8=					
		-40	CAPO 4 0	WIT IS		7 8	3 🛛	9					
	N'SP	1		10				1P1					
		OFF		14 <sup> 2</sup>	41 4x5 II	42 4 4	.3 ∖ x5∎	$\mathbb{N}$					
	You?			12x16					3x6	*			
	Ξ.	SI		5×10	4					12			
	E 1	02:	3594	2						$\langle \rangle$			
	3 X.		m	4x6 m							4x5、		
	12 2	ENO	NEFR.OG						/		13		
	11,0	N.	NE W										
	14	;, R	WILL'T	<u>9 197 197 1</u>	<u>36344545555523368757</u> 36344/3145 /1788 47	250824592	1/0 17	18	50 515	F 52 5	- <b>1</b> 4		
		- 11		40 55 56 5 3x5 II 6x12=	3x10 II 3x5=	3x5= 6x8=	= 3x8=	6x8=	5x1	)	5		
				5x10= 5x	10= 3x10=	4x8= 5x	8= 5x10	=					
				6-1- 4-8-8	$4^{5X8} = 3X5 = 4^{5X8} = 3X5 = 3X$	3x5= 16-8 15-3-8 1	-4 2 <sup>°</sup> 8-1-0 20-1	1-0-4	ŀ				
				2-3-4 4-5-12	7-1-4 10-3-8 13-10-	12 16-0-0	19-5-12	<u>24</u>	-3-13	28-1-0	_		
Scale = 1:95.5				2-3-4 2-2-8 0-2-12	1-9-8 1-4-12	1-4-12 1	-4-12 1-4-	12 3	3-3-9	3-9-3			
				PLY-TO-PLY C	ONNECTION REQUIRES	THAT AN	APPROVED	)					
				FACE MOUNT JOINT 34 FOR	HANGER (SPECIFIED B) LOAD REPORTED IN NO	Y OTHERS) DTES. FACE	) IS REQUIR E MOUNT H	RED A	T ER SHALI	L			
				BE ATTACHED FASTENERS T	WITH A MINIMUM OF 0. HAT PENETRATES ALL	25"x 6" SCI PLIES, PEF	REWS OR C R HANGER	DTHEI	R				
		10 0 0 1		MANUFACTUR	ER SPECIFICATIONS.	4 41 1008	4 40 0 40	-A- 1-2	0.0.0.0	<b>F</b> dave 1 - 10	00.0 1	4 0 0 41 107 0 0	40.0.0.0]
Plate Offsets (	X, Y): [3:0-5-	12,0-9-12	2], [4:0-5-0,0-1-12], [5 I	:0-0-12,0-3-12], [9:0-5	<u>[14.6</u> -3-0], [11:0-5-0,0-4	4-4], [19390	-1-12,0-1-9	2], '[4	8:0-2-8,	Eagej, [	36:0-4-	•4,0-2-4], [37:0-3-	12,0-3-0]
Loading		(psf)	Spacing	2-0-0	CSI	DEF	L	in	(loc)	l/defl	L/d	PLATES	GRIP
ICLL (root) Snow (Pf/Pa)	18.9	20.0 /20.0	Lumber DOL	1.15 1.15	BC 0	.69 Vert .54 Vert	(LL) -( (CT) -(	).22 ).40	26-27 28-31	>999 >829	240 180	MT20 MT18HS	244/190 244/190
TCDL		10.0	Rep Stress Incr	NO	WB 0	.90 Horz	z(CT) (	0.03	14	n/a	n/a		
BCLL BCDI		0.0* 10.0	Code	IRC2021/TPI2014	Matrix-MSH	Attic	; -(	0.14	18-37	>999	360	Weight: 1408 lb	FT = 20%
					28.20 1020/2210.26	20 1020	1069		2) 4 pl		0 h0 0		
TOP CHORD	2x6 SP No.2	*Except	t* 1-5,2-5:2x6 SP 240	0F	34-36=0/15901, 34-44	=0/15901,	/1900,		2) 4-pi (0.1	31"x3")	nails a	s follows:	r with rod
	2.0E		*Except* 27 20 20 19	274	31-44=0/15901, 31-45	=0/18969, -0/18969			Top	chords	conne	cted as follows: 2	x6 - 2 rows
BOT CHORD	SP No.2		Except 57-29,29-10	274	28-47=0/18581, 25-47	=0/18581,			Bott	om cho	rds cor	nected as follow	s: 2x6 - 3 rows
WEBS	2x4 SP No.3	8 *Except	t* 3-38:2x6 SP No.2, 4 SP No.2		25-48=0/15257, 23-48 21-23=0/15257, 21-49	=0/15257, =0/7542			stag Wel	gered a	t 0-4-0	oc, 2x4 - 1 row a follows: 2x6 - 2	at 0-9-0 oc.
	36-37,21-20	,21-24,3	1-30,25-24,28-30,17-	18,	17-49=0/7542, 16-17=	-2984/0,			0-9-	0 oc, 2x	4 - 1 r	ow at 0-9-0 oc.	
	17-20:2x4 S	P No.1			16-50=-2798/0, 50-51= 15-51=-2798/0, 35-37=	=-2798/0, =-4807/0.			Atta cen	ter of the	v/ 1/2" e mem	diam. bolts (AST ber w/washers at	M A-307) in the
TOP CHORD	Structural w	ood shea	athing directly applied	or	33-35=-4807/0, 33-54=	=-12714/0	,		3) All I	oads are	e consi	dered equally ap	plied to all plies,
	6-0-0 oc pur	lins, exc	cept end verticals, and -0 max.): 5-9	ł	30-55=-12714/0, 32-55	)=-12714/0 )=-12616/0	0, 0,		CAS	epuirino SE(S) se	ection.	Ply to ply connec	tions have been
BOT CHORD	Rigid ceiling	directly	applied or 6-0-0 oc		29-56=-12616/0, 27-56	6=-12616/	0, 0		prov	/ided to	distrib	ute only loads no	ted as (F) or (B),
JOINTS	bracing. 1 Brace at .I	t(s): 35			26-58=-12616/0, 24-58	3=-12616/	0,		4) Unb	alanced	roof li	ve loads have be	en considered for
	19, 22, 32, 2	26, 27,			24-59=-5996/0, 22-59= 22-60=-5996/0, 20-60-	=-5996/0, =-5996/0			this	design.	= 7-16·	Vult=130mph (3	-second aust)
REACTIONS	41, 42, 43 (size) 1/	4=0-3-8	40=0-3-8		19-20=0/3810, 18-19=	0/3810		_	Vas	d=103m	ph; TC	DL=6.0psf; BCD	L=6.0psf; h=25ft; Cat.
	Max Horiz 40	)=231 (L	.C 8)	WEBS	37-38=0/1739, 3-37=0 11-18=0/7320 4-41=-	/11157, 16 13963/0	6-18=0/221	5,	II; E and	xp B; Ei right ex	nclosed posed	a; MWFRS (enve ; end vertical left	lope); cantilever left and right exposed
	Max Grav 14	4=9552 ( 5)	(LC 15), 40=10172 (L	3	41-42=-11461/0, 42-43	3=-8118/0	,		Lun	nber DO	L=1.60	plate grip DOL=	1.33
FORCES	(lb) - Max. C	omp./Ma	ax. Ten All forces 25	50	10-43=-6303/0, 36-37= 17-19=-266/0, 20-21=0	=0/13215, 0/5675.							
TOP CHORD	(lb) or less e 1-2=-6890/0	xcept wh	hen shown. 2288/0. 3-4=-4435/0		31-33=-65/4167, 21-24	4=-4265/0	,						
	4-5=0/4659,	5-6=0/5	449, 6-7=-406/2337,		30-31=-411/1667, 24-2 28-30=-2326/0, 25-26=	∠ວ=∪/4488 =-597/0, 2`	, 7-28=0/461	Ι,					
	7-8=-406/23 9-10=-145/6	37, 8-9= 15, 10-1	-256/2121, 1=-3853/0.		12-15=-4119/0, 6-41=-	1486/0, 7	-42=0/770,	1					
	11-12=-9576	5/0, 12-1	3=-7398/0,		13-15=0/5516, 15-18=	0/7510, 12	2-18=0/198	<del>,</del> 37,					
	13-14=-8691	1/0			5-41=0/2824, 17-18=0	/7020, 17-	20=-5819/	0,					
					1-40=-9991/0, 2-39=-8	150/0, 37	-39=0/6052	2,					
				NOTES	2-37=-92/1730, 1-39=0	0/6514						Jun	e 6,2025



Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	B7	Attic Girder	1	4	Job Reference (optional)	4009659

- 6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 7) Provide adequate drainage to prevent water popding.
- 8) All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 triless of envire instructed.
   10) \* This truss has been design of a weight of a weight of a state of the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 10-11, 4-41, 41-42, 42-43, 10-43; Wall dead load (5.0psf) on member(s).3-37, 11-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 35-37, 33-35, 32-33, 30-32, 27-30, 26-27, 24-26, 22-24, 20-22, 19-20, 18-19
- 13) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7199 lb down at 7-1-4, 691 lb down at 8-2-0, 691 lb down at 9-9-3, 691 lb down at 11-4-6, 691 lb down at 12-11-9, 691 lb down at 14-6-12, 691 lb down at 16-1-15, 691 lb down at 17-9-2, 691 lb down at 19-4-5, 691 lb down at 20-10-8, 691 lb down at 22-6-11, 691 lb down at 24-1-14, and 691 lb down at 25-9-1, and 693 lb down at 27-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  16) Attic room checked for L/360 deflection.

#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-3=-48, 3-4=-58, 4-5=-48, 5-7=-58, 7-9=-98, 9-10=-88, 10-11=-98, 11-13=-168, 14-40=-20, 18-37=-20, 4-41=-10, 41-42=-10, 42-43=-10, 10-43=-10

Drag: 3-37=-10, 11-18=-10

- Concentrated Loads (lb) Vert: 23=-177 (F), 16=-177 (F), 17=-177 (F), 34=-5015 (F), 44=-177 (F), 45=-177 (F), 46=-177 (F), 47=-177 (F), 48=-177 (F), 49=-177 (F), 50=-177 (F), 51=-177 (F), 52=-177 (F), 53=-179 (F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-3=-60, 3-4=-70, 4-5=-60, 5-7=-60, 7-9=-100, 9-10=-100, 10-11=-110, 11-13=-180, 14-40=-20, 18-37=-20, 4-41=-10, 41-42=-10, 42-43=-10, 10-43=-10

Drag: 3-37=-10, 11-18=-10 Concentrated Loads (lb)

Vert: 23=-177 (F), 16=-177 (F), 17=-177 (F), 34=-5165 (F), 44=-177 (F), 45=-177 (F), 46=-177 (F), 47=-177 (F), 48=-177 (F), 49=-177 (F), 50=-177 (F), 51=-177 (F), 52=-177 (F), 53=-179 (F)



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)

**TRENCO** 

#### 818 Soundside Road Edenton, NC 27932

Run: 8.73 E Mar 19 2025 Print: 8.730 E Mar 19 2025 MiTek Industries, Inc. Fri Jun 06 10:38:53 ID:fXXrHsMLo3MP5YW58\_MnJpzPfyp-djlphE6ymQtC\_V16WnSnApuOuGaJU0ND537O3rz9Bmo Page: 2

Job	Truss		Truss Type		Qty	Ply	Overhills-F	Roof-CL-20-02	20	
25040114-01	B5		Attic		2	1	lob Refer	ance (ontional	)	174009660
Carter Components (S	anford, NC), Sanfor	d, NC - 27332,	<u>7-0-12</u> → 7-0-12 14 <sup>12</sup>	Run: 8.73 S Feb 19 ID:MBcCpTHySvUO 8-0-0 7-6-15 11-3-0 14-0-7 0-6-3 3-3-0 2-9-8 $0^{-}6_{x}8=$ 5x10 $\phi$ 4 5 4 5 35 4x5 II	2025 Print: 8 mTUIE0k8XK 3,16-10-0, 2-9-8 2x4 II 6 7 14-0 7 33 3 <sup>2</sup> 33 4x	1 - 3.730 S Feb - (zPfyw-RiC; 21 20-6 20-6 3-3-00-5 0; 6x8 ■ 5 ⊪	Job Refere 19 2025 MiTek PsB70Hq3NSc -0-4 6-0 H 28- -0 7-0 \$164 = 3 910	ence (optional Industries, Inc. 1 PanL8w3uITXb 1-0 -12	) Thu Jun 05 13:53:08 GKWrCDoi7J4zJC?f	Page: 1
		12-0-0 10-4-7 10-4-7	4x5 4 1	9-1-14 				4x5, 11	2	
				31 28 26 24	222018	16	13	8	-	
				3x10= 3x8= 2x4= 2x4 II	4x8= 4x5= 2x4 II	:	2x4= 3x10=			
Scale = 1:92.2			⊢ <u>7-0-12</u> 7-0-12 (	2x4 8-7-4 11-4-12 15 7-2-8 10-0-0 12-11-4 11 1 1 1 0-1-12 1-4-12 2 1-4-12 1-6-8	" 3x8 -1-12 18 -1-12 18 16-0-0 -2-8 0-10-4	3= 4 21 -1-0 20-10 19-5-12 	1-0-4 0-8 <u>   28-</u> 7-0 12	<u>-1-0</u> I-12		
Plate Offsets (X, Y):	: [1:0-1-12,0-1-1	2], [4:0-5-14,0-3-0], [	8:0-5-14,0-3-0], [10:0-3	3-0,0-1 <sup>1</sup> 8 <del>]</del> ,-[ <sup>1</sup> <sup>2</sup> 1:0-1-12,0	-1-12] 0-8-4 1-4	4-12 <sup>0-</sup>	1-12			
Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 18.9/20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.54 Verti 0.92 Verti 0.46 Horz	(LL) ( (CT) -0 2(CT) (	in (loc) 0.28 31-32 0.31 31-32 0.06 12	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20	<b>GRIP</b> 244/190

BCDL	10.0	Code	IRC202	1/1912014	Matrix-MSH	Attic	-0.18	14-30	>930 360	Weight: 279	lb FT = 20 <sup>o</sup>	%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD JOINTS	2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep No.2 Structural wood shea 4-8-12 oc purlins, et 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Brace at Jt(s): 29, 15, 19, 25, 33, 34,	t* 3-9,2-31,10-13:2x4 s athing directly applied xcept end verticals, and -0 max.): 4-8. applied or 2-2-0 oc	WI SP or d	EBS	$\begin{array}{l} 3-35=-1526/340, \ 33-35=-6\\ 33-34=-617/428, \ 9-34=-15\\ 1-31=0/1106, \ 11-13=0/110\\ 2-30=0/723, \ 13-14=0/568, \\ 29-31=-1029/0, \ 15-16=0/4\\ 16-17=-836/0, \ 27-28=-836\\ 26-27=0/667, \ 18-19=-152/\\ 18-21=-351/33, \ 23-26=-35\\ 23-24=-10/53, \ 21-22=-8/51\\ 7-34=-327/99, \ 5-35=-329/5\\ 4-35=-255/1094, \ 5-33=-12\\ 7-33=-123/412, \ 8-34=-255\\ 13-15=-1029/0\\ \end{array}$	16/429, 16/429, 16/344, 6, 30-31=0/568 10-14=0/723, 33, 28-29=0/46 (0, 17-18=0/667 0, 25-26=-152/4 5/40, , 6-33=-222/68 19, 2/409, //1107,	7 3, 8 14, 7, 9 4, 9 3, 1 1	<ul> <li>7) Cei</li> <li>3-3</li> <li>3) Bot</li> <li>cho</li> <li>27-</li> <li>3) All</li> <li>10) Gra</li> <li>or t</li> <li>bot</li> <li>11) Atti</li> <li>LOAD</li> </ul>	ling dead loa 5, 33-35, 33- mber(s).2-30 tom chord liv rd dead load 29, 25-27, 23 bearings are aphical purlin he orientation tom chord. c room check CASE(S) S	d (5.0 psf) on me 34, 9-34; Wall d , 10-14 e load (40.0 psf) (0.0 psf) appliee (-25, 21-23, 19-2 assumed to be § representation c n of the purlin alc and for L/360 def tandard	simber(s). 2-3 ead load (5.0 and addition d only to room 1, 17-19, 15- SP No.2. loes not depi ong the top a lection.	3, 9-10, Dpsf) on nal bottom n. 29-30, -17, 14-15 ict the size nd/or
REACTIONS FORCES TOP CHORD BOT CHORD	35 (size) 12=0-3-8, Max Horiz 32=246 (L Max Grav 12=1693 ( (lb) - Maximum Com Tension 1-2=-1911/0, 2-3=-1: 4-5=-1154/294, 5-6= 6-7=-1331/176, 7-8= 8-9=-442/197, 9-10= 10-11=-1911/0, 1-32 31-32=-265/300, 28- 26-28=0/2294, 24-26 18-22=0/3042, 16-18 12-13=-46/91, 29-30 27-29=-767/47, 25-2 23-25=-1903/0, 21-2 19-21=-1902/0, 17-1 15-17=-766/57, 14-1	32=0-3-8 _C 12) (LC 3), 32=1693 (LC 3) pression/Maximum 251/115, 3-4=-444/196 1331/176, 1153/295, -1251/115, 2=-1925/0, 11-12=-1924 -31=0/1785, 6=0/3042, 22-24=0/304 8=0/2281, 13-16=0/175 9=91/114, 27=-1903/0, 13=-2172/0, 19=-1902/0, 15=-93/117	NC 1) 2) , 5/0 (2, 3) (2, 3) (2, 3) (3, (4) 5) 6)	Unbalance this design Wind: ASC Vasd=103i II; Exp B; E Exterior(2E Exterior(2E 20-1-0, Ex 24-3-15 to exposed ; members a Lumber D0 TCLL: ASC Plate DOL= D0TCL: ASC Plate DOL= D0TCL: ASC Plate DOL= D15 Exp.; Ce=C Provide ad All plates a * This truss on the bott 3-06-00 tal chord and	d roof live loads have been f. E 7-16; Vult=130mph (3-sec mph; TCDL=6.0psf; BCDL=6 Enclosed; MWFRS (envelope ) 0-1-12 to 3-1-12, Interior ( R) 8-0-0 to 12-2-15, Interior ( terior(2R) 20-1-0 to 24-3-15, 27-11-4 zone; cantilever left end vertical left and right exp and forces & MWFRS for rea DL=1.60 plate grip DOL=1.3; CE 7-16; Pr=20.0 psf; Pf=18.5 Plate DOL=1.15); Is=1.0; Ro D.9; Cs=1.00; Ct=1.10, Lu=50; lequate drainage to prevent are 3x5 MT20 unless otherwis s has been designed for a live som chord in all areas where Il by 2-00-00 wide will fit betw any other members.	considered for cond gust) i.0psf; h=25ft; C and C-C ) and C-C 1) 3-1-12 to 8-0 1) 12-2-15 to Interior (1) and right osed; C-C for ctions shown; 3 :: Lum DOL=1. ) psf (Lum ) ugh Cat B; Ful ) -0-0 water ponding. se indicated. e load of 20.0p a rectangle veen the botton	Cat. )-0, 15 Ily xsf		and a start of the	SE 023	AROL SIGNAL SIGNAL AL SIGNAL	



A MITEK Atfiliate

June 6,2025

<sup>818</sup> Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	B4	Attic	1	1	Job Reference (optional)	174009661



Scale =	1:92.2
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				100		
Plate Offsets (X, Y):	[1:0-1-12,0-1-12], [4:0-5-14,0-3-0], [8:0-5	-14,0-3-0], [10:0-3-0	, <b>d-<del>2</del>-8];</b> [	11:0-3-4,0-1	-12], [ <u>13</u> ;Epge	e,0-9-8] <sup>12</sup>

															_
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.60 0.92 0.46	DEFL Vert(LL) Vert(CT) Horz(CT) Attic	in 0.28 -0.32 0.06 -0.18	(loc) 32-33 32-33 13 15-31	l/defl >999 >999 n/a >937	L/d 240 180 n/a 360	PLATES MT20 Weight: 285	<b>GRIF</b> 244/ <sup>-</sup>	<b>)</b> 190 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD JOINTS	2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep No.2 Structural wood shea 4-7-11 oc purlins, ea 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Brace at Jt(s): 30, 16, 20, 26, 34, 35,	t* 3-9,2-32,10-14:2x4 athing directly applie xcept end verticals, a -0 max.): 4-8. applied or 2-2-0 oc	W 4 SP d or and	/EBS 3	3-36=-1497/337, 3 3-36=-1497/337, 3 3-32=0/1098, 11-1 3-31=0/722, 14-15 30-32=-1032/0, 16 7-18=-838/0, 28-2 7-28=0/665, 19-2 9-22=-355/32, 24 27-28=-0/655, 19-2 9-22=-355/32, 24 24-25=-10/52, 22-2 7-35=-321/94, 5-36 1-36=-260/1094, 5-36 7-34=-121/406, 8-3 4-16=-1026/0	4-36=-61 -35=-151 4=0/108 =0/571, -17=0/44 29=-834/ 0=-152/ -27=-34! 23=-8/52 5=-324/1 -34=-124 35=-253/	04/437, 06/316, 0, 31-32=0/51 10-15=0/726 62, 29-30=0/4 (0, 18-19=0/6 0, 26-27=-152 9/40, 1, 6-34=-226/6 00, 5/401, 1108,	67, , 665, 68, 3/3, 69,	7) * Tr on t 3-06 cho 8) Ceil 3-36 mer 9) Bottl cho 28-3 10) All t 11) Gra or tf	his truss he botto 5-00 tall rd and a ling dead 5, 34-36 mber(s). tom cho rd dead 30, 26-2 bearings phical p he orient	has be m cho by 2-0 iny oth d load , 34-35 2-31, 1 rd live load (0 8, 24-2 are as urlin re tation o	een designed rd in all areas 0-00 wide will er members. (5.0 psf) on m 5, 0-35; Wall of 0-15 load (40.0 psf) 26, 22-24, 20 ssumed to be ppresentation of the purlin al	for a live li where a r fit betwee lember(s). Jead load and add d only to r 22, 18-20, SP No.2. does not c long the to	2-3, 9-10, (5.0psf) on itional bottom oom. 30-31, 16-18, 15-16 depict the size op and/or	
REACTIONS	36 (size) 13=0-3-8, Max Horiz 33=-273 (	33=0-3-8 LC 9)	<b>N</b> 1)	OTES Unbalanced this design.	roof live loads hav	e been o	considered fo	r	bott 12) Attic LOAD (	om chor c room c CASE(S)	d. hecke ) Stai	d for L/360 de ndard	flection.		
FORCES TOP CHORD BOT CHORD	Max Grav 13=1788 ( (lb) - Maximum Com Tension 1-2e-1907/0, 2-3e-1; 4-5e-1161/289, 5-6e 6-7e-1353/184, 7-8e 8-9e-455/208, 9-10e 10-11e-1911/0, 11-1 11-13e-2053/0 32-33e-267/327, 29- 27-29=0/2292, 25-2; 19-23=0/3039, 17-15; 13-14e-40/83, 30-31 28-30e-771/44, 26-2 24-26e-1905/0, 22-2 20-22=+1900/0, 18-2 16-18e-761/57, 15-1	(LC 3), 33=1690 (LC pression/Maximum 246/117, 3-4=-449/19 1353/184, 1176/309, 1247/114, 2=0/106, 1-33=-1920 32=0/1809, 7=0/3039, 23-25=0/3 3=0/2262, 14-17=0/1 =90/110, 18=-1905/0, 14=-2172/0, 10=-1900/0, 6=-91/120	3) 2) 92, 0/0, 039, 3) 702, 4) 5) 6)	<ul> <li>Wind: ASCE</li> <li>Vasd=103mg</li> <li>II; Exp B; Enc</li> <li>Exterior(2E)</li> <li>Exterior(2R)</li> <li>20-1-0, Exter</li> <li>24-3-15 to 25</li> <li>exposed ; en</li> <li>members ann</li> <li>Lumber DOL</li> <li>TCLL: ASCE</li> <li>Plate DOL=1</li> <li>DOL=1.15 Pl</li> <li>Exp.; Ce=0.9</li> <li>This truss ha</li> <li>load of 12.0 j</li> <li>overhangs no</li> <li>Provide adec</li> <li>All plates are</li> </ul>	7-16; Vult=130mp bh; TCDL=6.0psf; I closed; MWFRS (c 0-1-12 to 3-1-12, I 8-0-0 to 12-2-15, I ior(2R) 20-1-0 to 2 9-9-6 zone; cantile d vertical left and I d forces & MWFR; =1.60 plate grip D 7-16; Pr=20.0 psf; 15); Pg=20.0 psf; ate DOL=1.15); Is ; Cs=1.00; Ct=1.1 s been designed f sef or 2.00 times fi pon-concurrent with uate drainage to p 3x5 MT20 unless	th (3-see BCDL=6 envelope nterior ( 24-3-15, ver left a right exp S for rea OL=1.33 c (roof LL Pf=18.2 =1.0; Rc 0, Lu=50 or greate at roof k other lin prevent v	sond gust) .0psf; h=25ft; ) and C-C 1) 3-1-12 to 8 1) 12-2-15 to Interior (1) and right bosed;C-C for ctions shown 3 .: Lum DOL=: p sf (Lum bugh Cat B; F )-0-0 er of min roof jad of 13.9 p: ve loads. water ponding se indicated.	; Cat. 3-0-0, 7; 1.15 Fully Filve sf on g.		1 Continues		SE 023	ARO Service AL S594	Harris Contraction of the second seco	

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 Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

June 6,2025

Page: 1

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Job	Truss		Truss Type		Qty	Ply	Overl	nills-Roof-CL	-20-020	0	
25040114-0	01 A3		Attic Girder		1	2	Job F	eference (o	otional)		174009662
Carter Compone	nts (Sanford, NC), Sanfo	rd, NC - 27332,	<u>3-7-4</u> 7-0-12 3-7-4 3-5-8	Run: 8.73 S Feb ID:MBcCpTHySvI 8-0-0 7-6-15 2 + 11-3-0 14-( 30-6-3 3-3-0 2-9 0-5x8= 8x12 \$ 3x5=	19 2025 Prin JOmTUIE0k <u>)-8</u> 16-10- -8 2-9-8 2x4 II 3	t: 8.730 S Fel 3XKzPfyw-Rf0 20-1 0 20-1-0 1 3-3-0 0-9 55 x5= 6x8	0 19 2025 I C?PsB70Ho -0-4 0-8 <u>⋕ 24-5-1</u> 0-8 3-5-8 1-12 <b>=</b>	/liTek Industrie 13NSgPqnL8w 2 28-1-0 3-7-4	es, Inc. Ti 3ulTXbG	hu Jun 05 13:53:05 GKWrCDoi7J4zJC?f	Page: 1
		12-0-0 12-040 10-4-7 10-4-7 10-4-7 1-4-2 1-4-2 1-4-2	14 <sup>12</sup> 3x6 2 36	5 6 34 39 4x5 II 83 84 30 28 2	7 8 1-11-0 1-10-0 1-11-0 1-10-0	8 9 9 14 14 14 14 14 14 14 14 14 14 14 14 14	191 191	3x6 •	<sup>6</sup> × 13		
Scale = 1:98.9	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										
Plate Offsets (	X, Y): [35:0-3-0,0-1-	12]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-171 - 0 2	-4-12	,		,-		1,
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDI	(psf) 20.0 18.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.98 V 0.99 V 0.92 H A	EFL ert(LL) ert(CT) orz(CT) ttic	in ( -0.14 31 -0.29 31 0.03 -0.10 18	loc) l/defl -34 >999 -34 >683 21 n/a 3-33 >999	L/d 240 180 n/a 360	PLATES MT20	<b>GRIP</b> 244/190
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD JOINTS	2x6 SP No.2 2x6 SP No.2 *Exce 23-36:2x6 SP 2400 2x4 SP No.3 *Exce 4-10,3-34,11-16,35 Structural wood shi 4-2-2 oc purlins, e: 2-0-0 oc purlins, (6- Rigid ceiling directl bracing. 1 Brace at Jt(s): 19 32, 22, 28, 37, 38, 39	t* 33-18:2x4 SP No.2 F 2.0E ot* -33,15-18:2x4 SP No.2 eathing directly applied coept end verticals, an 0-0 max.): 5-9. y applied or 4-11-13 or ,	WEBS 2 2 d or d c <b>NOTES</b>	L 4-39=-2317/0, 37-3 37-38=-3359/0, 10- 33-34=0/4866, 3-3; 11-18=0/2498, 31-3 31-32=-11/63, 17-2 20-21=0/2241, 29-3 28-29=-298/0, 26-2 24-25=0/1819, 7-3; 6-39=-344/0, 5-39= 8-37=0/903, 9-38=( 21-24=-4033/0, 2-3 33-35=-6415/0, 2-3 12-15=-3203/0, 13- 12-18=0/1948	5) ), (0, (80, 6) (47, 7) 8/0, (0, 8) 5, 5550, 9)	<ul> <li>Weight: 669 10 PT = 20%</li> <li>5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOI Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15); Is=1.0; Rough Cat B</li> <li>a), Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0</li> <li>b), Evp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0</li> <li>c) on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord in all areas where a rectangle on the bottom chord live load (40.0 psf) and additional b chord dead load (0.0 psf) applied only to room 3.2 (20 area on a context on a chord area area area area area area area ar</li></ul>			of LL: Lum DOL=1.15 18.9 psf (Lum 0; Rough Cat B; Fully 1=50-00 ent water ponding. a live load of 20.0psf ere a rectangle between the bottom ber(s). 3-4, 10-11, ad load (5.0psf) on and additional bottom nly to room. 32-33, 20-22, 19-20, 18-19		
REACTIONS	(size) 14=0-3-8 Max Horiz 36=-244 Max Uplift 21=-157 Max Grav 14=3663 36=5776	1) 2-ply truss t (0.131"x3") Top chords 22), staggered a Bottom chor	is to be connected together with 10d 3") nails as follows: 'ds connected as follows: 2x6 - 2 rows id at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. :hords connected as follows: 2x6 - 3 rows				<ul> <li>10) Bearings are assumed to be: Joint 36 SP 2400F 2.0E, Joint 21 SP No.2, Joint 14 SP No.2.</li> <li>11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at join 21.</li> </ul>				

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-4838/0, 2-3=-4763/0, 3-4=-2155/0, 4-5=-571/10, 5-6=-1266/257, 6-7=-1641/209, 7-8=-1641/209, 8-9=-1090/615, 9-10=-262/533, 10-11=-2418/0, 11-12=-4506/0, 12-13=-2979/0, 1-36=-5789/0, 13-14=-3564/0 BOT CHORD 35-36=-224/239. 34-35=0/9281. 31-34=0/8711, 29-31=0/7743, 27-29=0/3907,

25-27=0/3907, 21-25=0/3907, 17-21=-1095/0, 16-17=-4728/0, 15-16=-4557/0, 14-15=0/73, 32-33=-5747/0, 30-32=-5747/0, 28-30=-3722/0, 26-28=-3722/0, 24-26=-1019/0, 22-24=0/2265, 20-22=0/2265, 19-20=0/5758, 18-19=0/5758

staggered at 0-2-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33

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June 6,2025



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 MTek connectors. This design is based only upon parameters and property incorporate this design is based only upon parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type Qt		Qty	Ply	Overhills-Roof-CL-20-020		
25040114-01	A3 Attic Girder		1	2	Job Reference (optional)	174009662		
Carter Components (Sanford, NC), Sanford, NC - 27332,			Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:05					
ID:MBcCpTHySvUOmTUIE0k8XKzPfyw-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJ0								

- 12) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5747 Ib down at 7-2-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

## LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (lb/ft) Vert: 1-3=-48, 3-4=-58, 4-5=-48, 5-7=-58, 7-9=-98, 9-10=-88, 10-11=-98, 11-13=-168, 14-36=-20, 18-33=-20, 4-39=-10, 37-39=-10, 37-38=-10, 10-38=-10 Drag: 3-33=-10, 11-18=-10 Concentrated Loads (lb) Vert: 34=-3421 (B)
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
  - Vert: 1-3=-60, 3-4=-70, 4-5=-60, 5-7=-60, 7-9=-100,
    - 9-10=-100, 10-11=-110, 11-13=-180, 14-36=-20, 18-33=-20, 4-39=-10, 37-39=-10, 37-38=-10,
  - 10-38=-10
  - Drag: 3-33=-10, 11-18=-10 Concentrated Loads (lb)
  - Vert: 34=-3393 (B)

late Institute (www.tpinst.org) 818 Soundside Road Edenton, NC 27932

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R. MIL

June 6,2025

SEAL 023594 "

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	B3	Attic	2	1	Job Reference (optional)	174009663

Scale = 1:95



Plate Offsets (	(X, Y): [2:0-3-0,0-1-4],	[5:0-5-14,0-3-0], [9:0	0-5-14,0-3-	0], [11:0-3-0,	.0-1-8]		0-0-12	01	2						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-MSH	0.73 0.82 0.47	DEFL Vert(LL) Vert(CT) Horz(CT) Attic	in -0.20 -0.31 0.04 -0.18	(loc) 32 32-33 13 15-31	l/defl >972 >645 n/a >928	L/d 240 180 n/a 360	PLATES MT20 Weight: 285	<b>GRIP</b> 244/19 Ib FT = 2	90 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep SP No.2 Structural wood shea 5-0-1 oc purlins, exu 2-0-0 oc purlins (6-0	t* 4-10,3-32,11-14:2 athing directly applie cept end verticals, ar -0 max.): 5-9.	WE x4 d or nd	EBS	4-36=-958/380, 3 34-35=-532/582, 2-32=0/802, 12-1 3-31=0/549, 14-11 11-15=-197/379, 3 16-17=-218/148, 3 17-18=-410/379, 3 18-19=-431/402, 3 19=20=-59/37, 26	4-36=-318 10-35=-18 4=-91/928 5=-210/28 30-32=-78 29-30=-80 28-29=-43 27-28=-30 -27=-274/	8/653, 506/344, 5, 31-32=0/39 56, 88/90, 0/341, 73/25, 0/343, /0, 22/47	4,	7) * 7 on 3-( ch 8) Ce 4-: 9) Bc ch	his truss the botto 06-00 tall ord and a illing dead 36, 34-36 ember(s). ttom choi ord dead	has be om cho by 2-0 iny oth d load , 34-35 3-31, 1 rd live load ((	een designed ord in all areas 00-00 wide will her members. (5.0 psf) on m 5, 10-35; Wall 11-15 load (40.0 psf) 0.0 psf) applie	for a live low where a re fit betweer lember(s). ( dead load ) and addit d only to rc	ad of 20.0psf cctangle n the bottom 3-4, 10-11, (5.0psf) on ional bottom jorm. 30-31,	
BOT CHORD WEBS JOINTS	Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 30, 16, 20, 26, 34, 35, 36	applied or 4-8-11 oc 11-15	:	24-27=-152/539, 24-25=-223/47, 22-23=-14/261, 7-34=-249/76, 8-35=-341/96, 6-36=-228/106, 5-36=-230/1028, 6-34=-100/222, 8-34=-73/506, 9-35=-153/1274, 14-16=-343/309, 19-22=-1075/28						<ol> <li>All bearings are assumed to be SP No.2.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 19.</li> <li>Graphical purlin representation does not depict the size</li> </ol>					
REACTIONS	(size) 13=0-3-8, Max Horiz 33=273 (L Max Uplift 19=-189 ( Max Grav 13=1400 ( 33=1592 (	19=0-5-8, 33=0-3-8 .C 12) LC 9) (LC 30), 19=894 (LC (LC 30)	NC 1) 31), <sup>2)</sup>	TES Unbalanced this design. Wind: ASCI Vasd=103n	d roof live loads ha E 7-16; Vult=130m nph; TCDL=6.0psf;	ve been o ph (3-sec BCDL=6	considered for cond gust) .0psf; h=25ft;	r Cat.	or bo 13) Ati <b>LOAD</b>	the orient ttom chor ic room c CASE(S)	tation ( rd. checke ) Sta	of the purlin al d for L/360 de ndard	ong the top	o and/or	
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/106, 2-3=-160 4-5=-480/81, 5-6=-1; 7-8=-1375/186, 8-9= 9-10=-367/166, 10-1 11-12=-1506/57, 2-3 12-13=-15330	pression/Maximum 18/0, 3-4=-1068/140, 205/155, 6-7=-1375/ -1121/276, 1=-1128/138, 13=-1747/0,	186,	II; EXP B; E Exterior(2E Exterior(2R 20-1-0, Exter 24-3-15 to 2 exposed ; e members a Lumber DC	nclosed; MWFRS ) -1-8-6 to 1-3-10, ) 8-0-0 to 12-2-15, erior(2R) 20-1-0 to 27-11-4 zone; cant and vertical left and nd forces & MWFF iL=1.60 plate grip I	envelope Interior (1 24-3-15, ilever left right exp 2S for rea DOL=1.33	and C-C ) 1-3-10 to 8- 1) 12-2-15 to Interior (1) and right posed;C-C for ctions shown 3	0-0, ;			N. A.	BTH C	ARO		
BOT CHORD	2-13=-15500 32-33=-275/318, 29- 27-29=-202/1915, 20 23-25=-478/2025, 19 17-19=-516/1290, 14 13-14=-51/78, 30-31 28-30=-689/112, 26- 24-26=-1288/154, 22 20-22=-743/813, 18- 16-18=-134/213, 15-	32=-182/1582, 5-27=-478/2025, 9-23=-478/2025, 4-17=-237/1018, =-83/41, 28=-1288/154, 2-24=-1155/408, 20=-743/813, 16=-57/137	3) 4) 5) 6)	TCLL: ASC Plate DOL= DOL=1.15 I Exp.; Ce=0 This truss h load of 12.0 overhangs Provide add All plates an	E 7-16; Pr=20.0 ps 1.15); Pg=20.0 ps Plate DOL=1.15); I .9; Cs=1.00; Ct=1. .as been designed psf or 2.00 times non-concurrent wit equate drainage to re 3x5 MT20 unles	if (roof LL f; Pf=18.9 s=1.0; Rc 10, Lu=50 for greate flat roof lo h other liv prevent v s otherwis	.: Lum DOL=1 9 psf (Lum bugh Cat B; F )-0-0 er of min roof pad of 13.9 ps /e loads. water ponding se indicated.	I.15 ully live of on J.		THINK	A A A A A A A A A A A A A A A A A A A	SE 023	AL 1594	- Children	

June 6,2025



Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	B2	Attic	3	1	Job Reference (optional)	174009664

Scale = 1:92.2



			100	
Plate Offsets (X, Y):	[2:0-3-4,0-1-12], [5:0-5-14,0-3-0], [9:0-5-14,0-3-0], [11	1:0-3-0,0-2-8 <u>],</u> 41 <del>2:</del> 0-	3-4,0-1-12],	$[14:E_{1}d_{2}e_{1}O_{-}1-8]^{O-1-12}$

			-										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.62	Vert(LL)	0.27	33-34	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15		BC	0.92	Vert(CT)	-0.31	33-34	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.46	Horz(CT)	0.06	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021	/TPI2014	Matrix-MSH		Attic	-0.16	16-32	>999	360		
BCDL	10.0											Weight: 291 II	b FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep SP No.2 Structural wood she 4-10-2 oc purlins, e	t* 3-33,11-15,4-10:2x athing directly applied xcept end verticals, an	WE 4 or nd	EBS	32-33=0/570, 3-32 11-16=0/725, 4-37 35-37=-593/468, 3 10-36=-1476/313, 31-33=-1029/0, 17 18-19=-836/0, 29- 28-29=0/666, 20-2 20-23=-349/32, 25 23-24=-8/51, 2-33	2=0/725, '=-1457/3 5-36=-5 15-17=- '-18=0/4 30=-836, 21=-152/0 5-28=-35 =0/1069,	15-16=0/570, 309, 94/467, 1029/0, 64, 30-31=0/4 /0, 19-20=0/6 0, 27-28=-152 4/39, 25-26=- 12-15=0/107	64, 67, 2/3, 9/52, 1.	<ol> <li>8) Cei 4-3 me</li> <li>9) Bot cho 29-</li> <li>10) All I</li> <li>11) Gra or t</li> </ol>	ling dead 7, 35-37 mber(s). tom choi rd dead 31, 27-2 pearings phical p	d load , 35-36 3-32, 1 rd live load (0 9, 25-2 are as urlin re	(5.0 psf) on me 5, 10-36; Wall o 11-16 load (40.0 psf) 0.0 psf) applied 27, 23-25, 21-2: ssumed to be S apresentation du of the purlin alo	mber(s). 3-4, 10-11, Jead load (5.0psf) on and additional bottom only to room. 31-32, 3, 19-21, 17-19, 16-17 iP No.2. oes not depict the size on the top and/or
BOT CHORD	2-0-0 oc purlins (6-0 Rigid ceiling directly	-0 max.): 5-9. applied or 2-2-0 oc			7-35=-227/68, 8-3 5-37=-258/1096, 6	6=-316/9 6-35=-12	94, 6-37=-318 4/395,	/94,	boti 12) Atti	om chor	d. hecke	d for L/360 defl	ection.
JOINTS	1 Brace at Jt(s): 17, 31, 21, 27, 35, 36,		NC	TES	8-35=-125/398, 9-	36=-257	/1104	_	LOAD	CASE(S	) Sta	ndard	
REACTIONS	37 (size) 14=0-3-8, Max Horiz 34=-288 ( Max Grav 14=1785)	34=0-3-8 LC 11) (I C 3)_34=1785 (I C 3	1) 2) 3)	this design. Wind: ASCE Vasd=103m	From the loads have 7-16; Vult=130mp ph; TCDL=6.0psf;	oh (3-seo BCDL=6	considered fo cond gust) 5.0psf; h=25ft;	r Cat.					
FORCES	(lb) - Maximum Com	pression/Maximum	-)	II; Exp B; Er Exterior(2E)	nclosed; MWFRS ( -1-8-6 to 1-3-10, I	envelope nterior (1	e) and C-C ) 1-3-10 to 8-	·0-0,					
TOP CHORD	1-2=0/106, 2-3=-190 4-5=-462/202, 5-6=- 6-7=-1358/181, 7-8= 8-9=-1183/304, 9-10 10-11=-1242/116, 11 12-113=0/106, 2-34=	6/0, 3-4=-1242/116, 1184/303, 1358/181,  =-459/204, 1-12=-1906/0, -2048/0, 12-14=-2048	/0	Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 20-1-0, Exterior(2R) 20-1-0 to 24-3-15, Interior (1) 24-3-15 to 29-9-6 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOI =1 60 plate grip DOI =1 33							AROJU		
BOT CHORD	3:34=-296/348, 30 28:30=0/2277, 26:21 20:24=0/3037, 18:20 14:15=-40/84, 31:32 27:29=-1903/0, 25:2 23:25=-2172/0, 21:2 19:21=-1902/0, 17:1 16:17=-91/114	33=0/1790, 33=0/3037, 24-26=0/30 3=0/2263, 15-18=0/17 2=-88/111, 29-31=-767 77=-1903/0, 3=-1902/0, 9=-766/54,	3) 37, 08, 7/44, 4) 5) 6) 7)	TCLL: ASCI Plate DOL= DOL=1.15 F Exp.; Ce=0. This truss ha load of 12.0 overhangs r Provide ade All plates ar * This truss on the botto 3-06-00 tall chord and a	$\bar{z}$ 7-16; Pr=20.0 ps 1.15); Pg=20.0 ps 12ate DOL=1.15); I 9; Cs=1.00; Ct=1.1 as been designed in psf or 2.00 times f non-concurrent with quate drainage to e 3x5 MT20 unless has been designed m chord in all area by 2-00-00 wide w py other members.	f (roof LL ; Pf=18.5 =1.0; Rc 0, Lu=50 for great lat roof lo other lin prevent to s otherwi d for a liv s where ill fit betv	:: Lum DOL=' #) psf (Lum Dugh Cat B; F -0-0-0 er of min roof pad of 13.9 pp ve loads. water ponding se indicated. e load of 20.0 a rectangle veen the botto	1.15 ully live sf on g. )psf om				SE 023	AL 594 VEEER.ER.MILLER.MIN

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

June 6,2025

Page: 1



Job		Truss		Truss Type	Qty Ply C			Overhills-Roof-CL-20-020				17 4000000		
25040114-0	)1	B1		Attic Supported Ga	able	2	1	Job R	<u>efere</u>	nce (o	otional)			174009665
Carter Compone	ents (Sanford, N	C), Sanford	d, NC - 27332,		Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:06 ID:My5mFf4HShLoDshUlxw8LlzPfzB-RfC?PsB70Ha3NSaPanI สมสัมป์TXhGKWrCDoi7 14z IC?f							13:53:06	Page: 1	
	uniter the	CAR	- <u>1-10-</u> 1-10-	8 7-0-12 7- 8 7-0-12 0	$\begin{array}{c} 8 & -0 \\ 6 & -15 \\ -11 & -0 \\ -6 & -3 \\$	6-10-0, 2( 2-9-8 3 3x5= 11 ■	21-0- 20-6-0 2-1-0 -3-00-5-0 3×96 6×8= 12	2 7 8	<u>28-1-</u> 7-0-1	02	29-11-     1-10-8	-8 -1 8		
Contraction of the second		SEAL 2359 7. M	001 104 104 104 104 104 104 104	4 14 <sup>12</sup> 5 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	49 47 4x5 II 4x8 4x5 I	48 48 4×5 II 39 33 3129 335 = 3	8 8 8 27 27 24 x5= 3x5	23	15		<sup>3x5</sup> II 17 18 20 3x5=	_19°7		
				⊢ <u>7-0-12</u> 7- ⊢ <u>7-0-12</u> 0-	3x5= 3x8= 3x8= 3x5= 8-7-4 11-4-12 15-1-2-8 10-0-0 12-11-4 11-1-12 15-1-1-12 1-4-12 2-2-	3x5= 3x5= 16-8-4 12 378=1 16-0-0 12 16-0-0 12 16-	3x5= 3x5= 21-0- -0 20-10-8 9-5-12 	- 4 	<u>28-1-</u> 7-0-1:	02				
Scale = 1:93.2 Plate Offsets (	X, Y): [8:0-5-	14,0-3-0]	, [12:0-5-14,0-3-0], [1	3:0-3-0,0-1-8], [20:Ed	1-4-12 1-6-8 ge,0-1-43]12	0-10-4 <del>- 0-8-4</del> 1-4-1	<u>1-4-12</u> 0-1-1 2	2						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	18.9	(psf) 20.0 9/20.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI           TC         0.           BC         0.           WB         0.           Matrix-MSH	53 DEFL 53 Vert(1 24 Vert(1 48 Horz(	- LL) r CT) r (CT) -0.1	in ( /a /a )1	loc) - - 20	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	6	<b>GRIP</b> 244/190
BCDL		10.0										Weight:	320 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x6 SP No.: 2x4 SP No.: 2x4 SP No.: SP No.2 2x4 SP No.: Structural w 6-0-0 oc pu	2 2 3 *Except 3 vood shea rlins, exc	* 6-42,14-24,7-13:2x	FORCES TOP CHORD	(lb) - Maximum Compre Tension 2-46=-419/304, 1-2=0/' 3-4=-173/183, 4-5=-23: 6-7=-554/254, 7-8=-58: 9-10=-1748/208, 10-11 11-12=-1568/135, 12-1 13-14=-554/254, 14-15 15-16=-234/284, 16-17 7-18=-310/299. 18-19	ession/Max 106, 2-3=-3 2/282, 5-6= 1/49, 8-9=- =-1748/200 3=-582/48 =-269/387 =-166/176 =0/106.	ximum 321/312, 269/386, 1569/135, 8, , ,	2)	Win Vas II; E Exte 20-1 24-3 expo mer Lum	d: ASC d=103i xp B; E erior(2E erior(2F I-0, Ext 3-15 to osed ; o nbers a ber D0	E 7-16; mph; TC Enclose () -1-8-6 () 8-0-0 terior(21 29-9-6 end ver and forc () L=1.60	; Vult=130 CDL=6.0p d; MWFR 6 to 1-3-1( 0 to 12-2-1 R) 20-1-0 zone; can tical left a ces & MWI 0 plate grii	mph (3- sf; BCDI S (envel- ), Interio 5, Interio 5, Interio to 24-3- tilever le nd right FRS for p DOL=1	second gust) _=6.0psf; h=25ft; Cat. ope) and C-C r (1) 1-3-10 to 8-0-0, or (1) 12-2-15 to 15, Interior (1) off and right exposed; C-C for reactions shown; .33
BOT CHORD WEBS JOINTS	2-0-0 oc pu Rigid ceiling bracing, E 6-0-0 oc bra 1 Row at m 1 Brace at	directly xcept: acing: 38- idpt ( lt(s): 47,	40,26-28. 6-41, 14-25	BOT CHORD	18-20=-408/292 45-46=-148/143, 44-45 43-44=-146/140, 42-43 39-42=-98/96, 37-39=- 33-35=-50/56, 29-33=- 24-27=-87/85, 23-24=-	=-146/141 =-146/140 74/95, 35-3 74/72, 27-2 143/137,	, 37=-50/56, 29=-74/93,	3) 4)	Trus only see or c TCL Plat	ss desig . For s Standa onsult .L: ASC e DOL:	gned fo studs ex ard Indu qualified CE 7-16 =1.15);	r wind loa xposed to ustry Gable d building 5; Pr=20.0 Pg=20.0	ds in the wind (no e End D designe psf (root osf; Pf=1	Plane of the truss ormal to the face), etails as applicable, r as per ANSI/TPI 1. f LL: Lum DOL=1.15 8.9 psf (Lum
REACTIONS	40, 49, 40, 1 36 (size) 2 2 2 3 4 4	20, 30, 0=28-1-0 3=28-1-0 9=28-1-0 7=28-1-0 3=28-1-0 6=28-1-0	, 21=28-1-0, 22=28-1 , 24=28-1-0, 27=28-1 , 33=28-1-0, 35=28-1 , 39=28-1-0, 42=28-1 , 44=28-1-0, 45=28-1	-0, -0, -0, -0, WEBS	22-23=-142/137, 21-22 20-21=-140/135, 40-41 38-40=-47/42, 36-38=- 32-34=-71/66, 30-32=- 26-28=-57/53, 25-26=- 10-47=-357/37, 11-48= 9-49=-105/91, 9-47=-7	=-142/137 =-13/14, 52/68, 34-3 52/61, 28-3 14/14 -105/90, 8/190, 11-4	, 36=-62/68, 30=-52/61, 47=-78/191,	5) 6)	DOI Exp This load over Prov	_=1.15 .; Ce=0 s truss l l of 12. rhangs vide ad	Plate D ).9; Cs= has bee 0 psf or non-co equate	DOL=1.15) =1.00; Ct= en designe r 2.00 time oncurrent v drainage	; Is=1.0; 1.10, Lu ed for gre es flat roo with othe to preve	Rough Cat B; Fully =50-0-0 pater of min roof live of load of 13.9 psf on r live loads. nt water ponding.
	Max Horiz 4 Max Uplift 2 4 Max Grav 2 2 2 3 3 3 4 4 4 2 2 2 2 3 3 3 4 4 4 4	0=28-1-0 6=-288 (L 2=-74 (LC 3=-81 (LC 5=-378 (L 0=599 (L 2=172 (L 4=761 (L 9=102 (L 5=94 (LC 9=128 (L 3=129 (L	LC 11) LC 10), 21=-361 (LC - C 14), 23=-82 (LC 14) C 13), 44=-74 (LC 13) LC 12), 46=-478 (LC 12) C 30), 21=421 (LC 12) C 31), 23=129 (LC 12) C 2), 27=122 (LC 11) C 12), 33=73 (LC 12) C 11), 42=759 (LC 2) C 11), 44=172 (LC 30) C 11), 44=172 (LC 30) C 11), 44=172 (LC 30)	11), , , )), ), , ), NOTES	$\begin{array}{l} 41-42=-734/0, \ 6-41=-72\\ 14-25=-725/0, \ 7-49=-8\\ 47-49=-21/1394, \ 47-48\\ 13-48=-80/323, \ 40-42=\\ 39-40=-81/17, \ 27-28=-\\ 28-29=-25/0, \ 37-38=-3\\ 36-37=-31/0, \ 29-32=-2\\ 34-35=-59/4, \ 32-33=-4\\ 12-48=-134/1299, \ 24-2\\ 33-34=-27/19, \ 5-43=-9\\ 3-45=-196/182, \ 15-23=\\ 16-22=-203/126, \ 17-21\\ \end{array}$	24/0, 24-25 1/319, =-16/1394 -76/69, 26 17/0, 38-35 3/0, 29-30= 4/9, 34-37= 3/0, 8-49=- 6=-56/49, 0/109, 4-44 -90/110, =-189/175	5=-735/0, ,							
	4	J, 00+−	C 11/, <del>1</del> 0-017 (LC 3)	<ol> <li>Unbalanced this design.</li> </ol>	d roof live loads have be	en conside	ered for						lun	o 6 2025

Continued on page 2 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 ANS//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)

June 6,2025



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	B1	Attic Supported Gable	2	1	Job Reference (optional)	174009665

- All plates are 2x4 MT20 unless otherwise indicated. 7)
- Gable requires continuous bottom chord bearing. 8)
- Truss to be fully sheathed from one face or securely 9)
- braced against lateral movement (i.e. diagonal web). 10) Gable studs spaced at 2-0-0 oc.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members. 12) Celling the load (5.0 pc) on metric (5.) 6/13-14, 7-48, 47-46, 47-48, 13-48; Walf dead load (5.0 pc) on member(s) 8-41, 14-25

13) All bearings are assumed to be SP No.2 .

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 458 lb uplift at joint 20, 478 lb uplift at joint 46, 81 lb uplift at joint 43, 74 lb uplift at joint 44, 378 lb uplift at joint 45, 82 lb uplift at joint 23, 74 lb uplift at joint 22 and 361 lb uplift at joint 21.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:06 ID:Mv5mFf4HShLoDshUlxw8LlzPfzB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2



SEAL 023594

and a superior and a superior



Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A9	Piggyback Base Girder	1	2	Job Reference (optional)	174009666

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:06 ID:fG0Qj29goqDpZxjqfvYo7DzPfz4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:65.6

Plate C	Offsets	(X, Y	):	[2:0-2-8	3,0-0-8],	[3:0-2-11	,Edge]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.94 0.16 0.44	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.04 0.00	(loc) 7-9 7-9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 348 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS 1) 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web com 2) All loads a except if n CASE(S) s provided t unless oth 3) Unbalance this design	2x4 SP No.2 *Excep 2x6 SP No.2 2x4 SP No.2 *Excep No.3 Structural wood shee 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, 1 Row at midpt (size) 6=0-3-0, 1 Max Horiz 10=299 (L Max Grav 6=1434 (L (Ib) - Maximum Com Tension 1-2=-688/0, 2-3=-87/4 4-5=-612/0, 5-6=-13: 9-10=-280/174, 7-9= 1-9=0/977, 2-9=-527 3-7=-139/117, 4-7=- to be connected toget ) nails as follows: s connected as follows: ords connected as follows: extin a front (F) or bar section. Ply to ply conro o distribute only loads erwise indicated. droof live loads have 1.	t* 3-5:2x4 SP No.1 t* 9-1,9-2,10-1:2x4 S athing directly applie cept end verticals, ar -0 max.): 3-5. applied or 6-0-0 oc 5-6 10=0-3-8 .C 43), 10=1171 (LC pression/Maximum 6/2, 3-4=-612/0, 41/0, 1-10=-1123/0 -70/614, 6-7=-119/8 7/89, 3-9=-214/124, 1047/0, 5-7=0/1407 ther with 10d s: 2x4 - 1 row at 0-5-0 ows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO tections have been noted as (F) or (B), been considered for	4) 5P 5) d or 6) 7) 8) 27) 9) 10) 6 11) 6 11) AD	Wind: ASCE Vasd=103mp II; Exp B; End and right exp Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15 PI Exp.; Cee.0.9 Unbalanced: design. Provide adec * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Graphical pu or the orienta bottom chord Hanger(s) or provided suff Ib down at 2 of such conn others. <b>AD CASE(S)</b> Dead + Snc Increase=1. Uniform Loa Vert: 1-2= Concentrate	7-16; Vult=130mph bh; TCDL=6.0psf; B closed; MWFRS (er osed; end vertical =1.60 plate grip DC 7-16; Pr=20.0 psf; I ate DCL=1.15; Is= ; Cs=1.00; Ct=1.10 snow loads have be uate drainage to pl as been designed in a chord in all areas y 2-00-00 wide will y other members, v are assumed to be rlin representation of tion of the purlin all other connection d cicient to support co 0-10-6 on top chord ection device(s) is 1 Standard w (balanced): Lum 15 ads (lb/ft) =-48, 2-3=-48, 3-5= ad Loads (lb) -759 (F)	a (3-sec CDL=6 hvelope left and OL=1.33 (roof LL Pf=18.9 1.0; Rc ben cor revent v for a liv where fit betw with BC SP No. does no ong the evice(s ncentra J. The the resp ber Incl	ond gust) .0psf; h=25ft .0psf; h=25ft .; right expose .; tum DOL= .psf (Lum .ugh Cat B; F )-0-0 .sidered for th vater ponding e load of 20.0 a rectangle reen the bott DL = 10.0psf 2. .top and/or .) shall be ted load(s) 9 design/select toonsibility of .rease=1.15, h	; Cat. left left d; 1.15 - ully his g. 0psf om f. size 286 tion				SEA 0235		

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C6	Piggyback Base	1	1	Job Reference (optional)	174009667

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:10 ID:UP7oICzPJbkA1vLrFVP9dQzPdF0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:67.2 Plate

e Offsets (X, Y):	[1:0-2-8,0-1-8], [2:	0-2-11,Edge], [4:0-	2-11,Edge], [5:0-2-8,0-1-8]
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		1												
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.88	Vert(LL)	-0.05	11-12	>999	240	MT20	244/190	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15		BC	0.38	Vert(CT)	-0.10	11-12	>999	180			
TCDL	10.0	Rep Stress Incr	YES		WB	0.41	Horz(CT)	0.01	6	n/a	n/a			
BCLI	0.0*	Code	IRC202	I/TPI2014	Matrix-MSH	-	- (- )							
BCDL	10.0											Weight: 203 lb	FT = 20%	
BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD	10.0 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep No.2 Structural wood shea except end verticals, (6-0-0 max.): 2-4. Rigid ceiling directly bracing. 1 Row at midpt (size) 6=0-3-8, 1 Max Horiz 12=219 (L Max Grav 6=678 (LC 12=462 (L (lb) - Maximum Com Tension 1-2=-419/111, 2-3=-	t* 7-3,2-10,10-3:2x4 athing directly applie , and 2-0-0 oc purlins applied or 10-0-0 oc 4-7, 2-10, 3-10 10=0-3-8, 12=0-3-8 .C 12) C 3), 10=1021 (LC 3) .C 29) pression/Maximum 170/165, 3-4=-461/1	2) SP d, 3) , 4) 5) 87, 6)	Wind: ASCE Vasd=103mp II; Exp B; En Exterior(2E) 6-8-13, Exter 10-11-11 to Interior (1) 22 exposed ; en members an Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.5 Provide aded * This truss F on the bottor 3-06-00 tall b chord and ar	7-16; Vult=130mpl bh; TCDL=6.0psf; E closed; MWFRS (e 0-1-12 to 3-1-12, Ir ior(2R) 6-8-13 to 1 18-2-3, Exterior(2R 2-5-2 to 24-9-4 zon d vertical left and r d forces & MWFRS =1.60 plate grip DC 7-16; Pr=20.0 psf .15); Pg=20.0 psf.15); Pg=20.0 psf .15); Pg=20.0 ps	n (3-sec GCDL=6 nvelope aterior (' 0-11-11) ) 18-2-3 e; canti ight exp for rea DL=1.33 (roof LL Pf=18.9 =1.0; Rc 0, Lu=50 revent v for a liv where fit betw with BC SP No	iond gust) .0psf; h=25ft and C-C 1) 3-1-12 to , Interior (1) to 22-5-2, lever left and tosed;C-C for ctions showr 3: Lum DOL= psf (Lum bugh Cat B; F )-0-0 water ponding e load of 20.0 a rectangle veen the bottt DL = 10.0psi 2	; Cat. right r; 1.15 Fully g, Dpsf om f.				Weight: 203 lb	FT = 20%	_
BOT CHORD	4-5=-714/136, 1-12= 11-12=-218/250, 10-	-466/91, 5-6=-744/8 11=-101/205,	9 7)	Graphical pu or the orienta	rlin representation	does no ona the	t depict the s	size					П.,	
	9-10=-62/231, 7-9=-6	62/231, 6-7=-79/134		bottom chord	l.							"''LL CA	Dally	
	2-11=0/224, 3-9=0/2 1-11=-110/176, 5-7= 2-10=-452/59, 3-10=	:46, 4-7=-62/125, :-25/264, 3-7=-28/21 :-814/54	7, LC	OAD CASE(S)	Standard					1	10	OFFE	Mille	

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





Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C5	Piggyback Base	1	1	Job Reference (optional)	174009668

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:09 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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## Scale = 1:67.2 Plate Offsets (X, Y): [2:Edge,0-1-5], [3:0-2-11,Edge], [5:0-2-11,Edge], [6:0-3-8,0-1-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 2 20.0 F 18.9/20.0 F 10.0 F 0.0* 0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-MSH	0.87 0.38 0.42	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.10 0.01	(loc) 12-13 12-13 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 207 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.3 *Except* 8-4,13-2,7-6,3-11,11-4 Structural wood sheatt except end verticals, a (6-0-0 max.): 3-5. Rigid ceiling directly aç bracing, Except: 6-0-0 oc bracing: 12-1: 1 Row at midpt 5- (size) 7=0-3-8, 11: Max Horiz 13=247 (LC Max Grav 7=676 (LC 3 13=550 (LC	4:2x4 SP No.2 hing directly applied and 2-0-0 oc purlins pplied or 10-0-0 oc 3. -8, 3-11, 4-11 =0-3-8, 13=0-3-8 : 10) 38, 11=1019 (LC 3) :3)	2) , 3) , (,	Wind: ASCE Vasd=103mp II; Exp B; Enn Exterior(2E) · Exterior(2R) · 18-2-3, Exter to 24-9-4 zon vertical left ai forces & MW DOL=1.60 pl TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 This truss ha load of 12.0 p overhangs of Provide adeo	7-16; Vult=130mph bh; TCDL=6.0psf; B closed; MWFRS (ei -1-9-11 to 1-2-5, In 6-8-13 to 10-11-11 ior(2R) 18-2-3 to 2; e; cantilever left ar nd right exposed;C FRS for reactions s ate grip DOL=1.33 7-16; Pr=20.0 psf; 15); Pg=20.0 psf; 15); Pg=20.0 psf; ate DOL=1.15); Is= ; Cs=1.00; Ct=1.10 s been designed fo psf or 2.00 times fla on-concurrent with uate drainage to p	n (3-sec BCDL=6 nvelope terior (1 , Interio 2-5-2, li dright -C for n shown; (roof LL Pf=18.9 =1.0; Rc ), Lu=50 or great at roof lo other liv	ond gust) .0psf; h=25ft ) and C-C ) 1-2-5 to 6-8 r (1) 10-11-1 hterior (1) 22 exposed; er hembers and Lumber .: Lum DOL= psf (Lum pugh Cat B; F) -0-0 er of min rool bad of 13.9 p re loads. water pondip.	; Cat. 3-13, 1 to -5-2 nd 1.15 Fully f live sf on					
FORCES	(lb) - Maximum Compr Tension 1-2=0/112, 2-3=-432/1	ression/Maximum 30, 3-4=-170/169,	6)	* This truss h on the botton 3-06-00 tall b	as been designed n chord in all areas	for a liv where fit betw	e load of 20. a rectangle	Öpsf om					
	4-5=-460/189, 5-6=-71 6-7=-742/92	2/139, 2-13=-602/1	20, 7)	chord and an All bearings a	y other members, vare assumed to be	with BC SP No.	DL = 10.0ps 2 .	f.				N'IL CA	Della
WEBS	12-13=-252/272, 11-12 10-11=-65/229, 8-10=- 3-12=-8/225, 4-10=0/2	∠=-105/197, -65/229, 7-8=-79/13 246, 4-8=-26/220	8) 5	Graphical pu or the orienta	rlin representation tion of the purlin al	does no ong the	ot depict the s top and/or	size			111	OFTISS	a Nin
	5-8=-64/125, 2-12=-12 3-11=-436/56, 4-11=-8	29/240, 6-8=-27/261 324/52	, LO	AD CASE(S)	Standard							10 - F	Call
NOTES	ad roof live loads have be	een considered for								Ξ		SEA	

live loads have been considered for this design.





Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C4	Piggyback Base	1	1	Job Reference (optional)	174009669

Scale = 1:67.2

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:09 ID:FhKH407oWvrEiT\_F\_n?4VbzPfz7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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# Plate Offsets (X, Y): [2:Edge,0-1-5], [3:0-2-11,Edge], [5:0-2-11,Edge], [6:0-3-8,0-1-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MSH	0.74 0.36 0.21	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.09 -0.01	(loc) 12-13 12-13 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 207 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 8-4,13-2,7-6,3-11,11 Structural wood sheir 5-6-9 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, Except: 6-0-0 cc bracing: 12: 1 Row at midpt (size) 7=15-3-8, 11=15-3-8 Max Horiz 13=247 (L Max Uplift 11=-42 (L1 Max Grav 7=318 (LC 10=346 (L1)	t* -4:2x4 SP No.2 athing directly appliec cept end verticals, an -0 max.): 3-5. applied or 10-0-0 oc -13. 4-10, 4-8, 5-8, 3-11, ' 8=15-3-8, 10=15-3-8 8, 13=0-3-8 .C 12) C 10) C 30), 8=556 (LC 38), C 38), 11=476 (LC 38),	2) d or d 3) 4-11 3, 4) 5) 5) 6)	Wind: ASCE Vasd=103mp II; Exp B; Enc Exterior(2E) Exterior(2R) 18-2-3, Exter to 24-9-4 zor vertical left at forces & MW DOL=1.60 pl TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 This truss ha load of 12.0 p overhangs no Provide adeo * This truss ha	7-16; Vult=130mp bh; TCDL=6.0psf; E closed; MWFRS (6 -1-9-11 to 1-2-5, In 6-8-13 to 10-11-11 ior(2R) 18-2-3 to 2 he; cantilever left an nd right exposed; C FRS for reactions ate grip DOL=1.33 7-16; Pr=20.0 psf; ate DOL=1.15; Is b; Cs=1.00; Ct=1.10; s been designed fo pon-concurrent with quate drainage to p has been designed	h (3-sec 3CDL=6 novelope interior (1 , Interio :2-5-2, I nd right >-C for n shown; (roof LL Pf=18.5 =1.0; Rc 0, Lu=50 for great at roof Ic other In prevent v for a liv	ond gust) .0psf; h=25ft ) and C-C ) 1-2-5 to 6-i r (1) 10-11-1 terior (1) 22 exposed ; er embers and Lumber : Lum DOL= psf (Lum pugh Cat B; F )-0-0 er of min rooi pad of 13.9 p ve loads. water pondin e load of 20.	t; Cat. 8-13, 1 to 2-5-2 nd 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
FORCES TOP CHORD	13=574 (L (lb) - Maximum Com Tension 1-2=0/112, 2-3=-462 4-5=-188/171, 5-6=-2 6-7=-022/64	.C 3) pression/Maximum 2/132, 3-4=-187/171, 266/110, 2-13=-632/1	7) 8) 123,	3-06-00 tall b chord and an All bearings a Provide mech bearing plate	y 2-00-00 wide wil y other members, are assumed to be hanical connection capable of withsta	l fit betw with BC SP No. (by oth anding 4	veen the bott DL = 10.0ps 2 . ers) of truss 2 lb uplift at	tom if. to joint			A.L.	NITH CA	RO	1
BOT CHORD WEBS	12-13=-252/272, 11- 10-11=-98/148, 8-10 3-12=-7/226, 4-10=- 5-8=-344/88, 2-12=-	.12=-98/211, )=-98/148, 7-8=-79/13 166/35, 4-8=-87/66, 116/238, 6-8=-174/17	9) 34	11. Graphical pu or the orienta bottom chord	rlin representation ation of the purlin a I. Standard	does no long the	ot depict the s top and/or	size				SEA	Miç til	a farmer
NOTES 1) Unbalanc this desig	3-11=-412/57, 4-11= ed roof live loads have n.	-187/79 been considered for			Clandard					1111				unnu.

Miniminin' June 6,2025



Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C3	Piggyback Base	3	1	Job Reference (optional)	174009670

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:09 ID:nUmvtg6AlcjN4JP3Q3UrzNzPfz8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



# Scale = 1:66.3 Plate Offsets (X, Y): [2:Edge,0-1-5], [3:0-2-11,Edge], [5:0-2-11,Edge], [6:0-2-8,0-1-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.86 0.46 0.25	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.09 0.01	(loc) 10-11 11-12 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 194 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 *Except 2x4 SP No.2 2x4 SP No.3 *Except SP No.2	t* 5-6:2x4 SP No.1 t* 11-4,8-4,12-2,7-6:2	2) 2x4	Wind: ASCE Vasd=103mp II; Exp B; End Exterior(2E) Exterior(2R) 18-2-3, Exter	7-16; Vult=130mph wh; TCDL=6.0psf; B closed; MWFRS (er -1-9-11 to 1-2-5, Int 6-8-13 to 10-11-11, ior(2R) 18-2-3 to 22 	i (3-sec CDL=6 nvelope erior (1 Interio 2-5-2, li	cond gust) .0psf; h=25ft e) and C-C ) 1-2-5 to 6-8 r (1) 10-11-1 nterior (1) 22	; Cat. 3-13, 1 to -5-2					
TOP CHORD	Structural wood shea except end verticals, (6-0-0 max.): 3-5.	athing directly applied , and 2-0-0 oc purlins	1,	to 24-9-4 zon vertical left an forces & MW	ie; cantilever left an nd right exposed;C FRS for reactions s	C for n hown;	exposed ; er nembers and Lumber	Ia					
BOT CHORD	Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 11-	applied or 10-0-0 oc	3)	TCLL: ASCE Plate DOL=1 DOL=1.15 Pl	7-16; Pr=20.0 psf ( .15); Pg=20.0 psf; l ate DOL=1.15); Is=	(roof LL Pf=18.9	.: Lum DOL= ) psf (Lum ough Cat B: F	1.15 Fully					
REACTIONS	(size) 7=0-3-8, 1 Max Horiz 12=247 (L Max Grav 7=1096 (L	4-11, 4-8 2=0-3-8 .C 10) .C 3), 12=1202 (LC 3	4)	Exp.; Ce=0.9 This truss ha load of 12.0 p overhangs no	; Cs=1.00; Ct=1.10 s been designed fo osf or 2.00 times fla on-concurrent with	, Lu=50 r greate t roof lo other liv	)-0-0 er of min roof bad of 13.9 p ve loads.	live sf on					
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/112, 2-3=-121 4-5=-779/201, 5-6=- <sup>2</sup>	pression/Maximum 9/173, 3-4=-771/202, 1214/158,	5) 6)	Provide adec * This truss h on the botton 3-06-00 tall b	uate drainage to pr as been designed in chord in all areas v 2-00-00 wide will	event v for a liv where fit betv	water ponding e load of 20.0 a rectangle yeen the bott	g. Opsf om					
BOT CHORD WEBS	2-12=-1394/150, 6-7 11-12=-253/272, 10- 8-10=-58/855, 7-8=-7 3-11=0/417, 4-11=-4	=-1255/124 11=-58/855, 78/134 07/87, 4-10=0/328,	7) 8)	chord and an All bearings a Graphical pu or the orienta	y other members, v are assumed to be rlin representation of the purlin al	with BC SP No. does no ong the	DL = 10.0psi 2. ot depict the s top and/or	f. size			. In	ATH CA	ROL
NOTES	4-8=-393/91, 5-8=0/3 6-8=-24/567	399, 2-11=-18/560,	LO	bottom chord AD CASE(S)	Standard	5	-				To .		Not

# 1)

Unbalanced roof live loads have been considered for this design.



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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C2	Piggyback Base	12	1	Job Reference (optional)	174009671

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:09 ID:IICXfL5X\_IbWS9qssMycQAzPtz9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



## \_\_\_\_\_\_\_Scale = 1:66.3 Plate Offsets (X, Y): [2:Edge,0-1-5], [3:0-2-11,Edge], [5:0-2-11,Edge], [6:Edge,0-1-5]

											_		
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 18.9/20.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.85 0.46 0.25	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.09 0.01	(loc) 11-12 8-9 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0											Weight: 198 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Except SP No.2 Structural wood shee	t* 12-4,9-4,13-2,8-6:: athing directly applie	2) 2x4 d.	Wind: ASCE Vasd=103mp II; Exp B; End Exterior(2E) Exterior(2R) 18-2-3, Exter to 26-8-11 zc	7-16; Vult=130mpł h; TCDL=6.0psf; B closed; MWFRS (er 1-9-11 to 1-2-5, In 5-8-13 to 10-11-11 ior(2R) 18-2-3 to 2 ne; cantilever left a	n (3-sec CDL=6 nvelope terior (1 , Interio 2-5-2, Ii and righ	ond gust) .0psf; h=25ft ) and C-C ) 1-2-5 to 6-8 r (1) 10-11-1 nterior (1) 22 t exposed ; e	; Cat. 3-13, 1 to -5-2 end					
BOT CHORD WEBS REACTIONS	structural wood shee except end verticals, (6-0-0 max.): 3-5. Rigid ceiling directly bracing. 1 Row at midpt (size) 8=0-3-8, 1	anning directly applie , and 2-0-0 oc purlins applied or 6-0-0 oc 4-12, 4-9 3=0-3-8	a, s 3)	vertical left ar forces & MW DOL=1.60 pl TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9	nd right exposed;C FRS for reactions s ate grip DOL=1.33 7-16; Pr=20.0 psf .15); Pg=20.0 psf; ate DOL=1.15); Is= ; Cs=1.00; Ct=1.10;	-C for n shown; (roof LL Pf=18.9 =1.0; Rc ), Lu=50	nembers and Lumber : Lum DOL= psf (Lum ugh Cat B; F )-0-0	1.15 Fully					
	Max Grav 8=1198 (L	.C 3), 13=1198 (LC 3	3) 4)	This truss ha	s been designed fo	r greate	er of min roof	live sf on					
FORCES	(lb) - Maximum Com	pression/Maximum	-	overhangs no	on-concurrent with	other liv	e loads.						
TOP CHORD	1-2=0/112, 2-3=-121 4-5=-769/203, 5-6=- <sup>-</sup> 2-13=-1389/152, 6-8	5/176, 3-4=-769/203 1215/176, 6-7=0/112 =-1389/152	5) 5, 6)	* This truss h on the botton	uate drainage to pl as been designed o chord in all areas	for a liv where	vater ponding e load of 20.0 a rectangle	g. Opsf					
BOT CHORD	12-13=-234/300, 11-	12=-37/813,		chord and an	y other members, v	with BC	DL = 10.0pst	f.					1111
WEBS	3-112=0/415, 4-12=-4 4-9=-403/89, 5-9=0/4 6-9=-20/557	03/90, 4-11=0/328, 414, 2-12=-19/557,	7) 8)	All bearings a Graphical pu or the orienta bottom chord	are assumed to be flin representation tion of the purlin al	SP No. does no ong the	2 . It depict the s top and/or	size				NITH CA	ROJU
NULES			LC	AD CASE(S)	Standard					2			4

 Unbalanced roof live loads have been considered for this design.



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.sbcaccomponents.com)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C1	Piggyback Base Supported Gable	1	1	Job Reference (optional)	174009672

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:09 ID:JZkyE9ICzWk6?ne8MQmcclzPfyu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



## Plate Offsets (X, Y): [7:0-2-5,Edge], [13:0-2-5,Edge]

		1	-											
Loading	(psf)	Spacing	2-0-0		CSI	0.00	DEFL	in	(lo	c) l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15			0.38	Vert(LL)	n/a		- n/a	999	MT20	244/190	
Snow (Pt/Pg)	18.9/20.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	n/a		- n/a	999			
TCDL	10.0	Rep Stress Incr	YES		WB	0.24	Horz(CT)	-0.01	2	:0 n/a	n/a			
BCLL	0.0*	Code	IRC2021/7	FPI2014	Matrix-MR									
BCDL	10.0											Weight: 247 lb	FT = 20%	
LUMBER TOP CHORD 2x4	SP No.2		TOP	CHORD	2-33=-505/479, 1-2= 3-4=-194/221, 4-5=-	=0/112, 181/26	, 2-3=-309/39 3, 5-6=-285/4	12, 403,	4) T	CLL: ASC	E 7-16 1.15);	; Pr=20.0 psf (roo Pg=20.0 psf; Pf=	of LL: Lum DOL=1.15 18.9 psf (Lum	
BOT CHORD 2x4	SP No.2			6	6-7=-185/225, 7-8=-	211/29	95, 8-9=-211/2	295,	[	DOL=1.15 F	Plate D	OL=1.15); Is=1.0	); Rough Cat B; Fully	
WEBS 2x4	SP No.3			ç	9-10=-211/295, 10-1	1=-21	1/295,		E	Exp.; Ce=0.	9; Cs=	:1.00; Ct=1.10, L	u=50-0-0	
OTHERS 2x4	SP No.3				11-12=-211/295, 12	-13=-2	11/295,		5) 7	This truss h	as bee	n designed for g	reater of min roof live	
BRACING					13-14=-184/226, 14	-15=-2	94/407,		ŀ	oad of 12.0	psf or	2.00 times flat ro	oof load of 13.9 psf on	
TOP CHORD Stru	uctural wood she	athing directly applied	lor		15-16=-188/274, 16	-17=-1	84/212,		(	overhangs i	non-co	oncurrent with other live loads.		
6-0	-0 oc purlins ex	cept end verticals and	4		17-18=-302/378, 18	-19=0/	112,		6) F	Provide adequate drainage to prevent water ponding.				
2-0 <sup>,</sup>	-0 oc purlins (10	-0-0 max.): 7-13.	-		18-20=-496/457				7) A	All plates ar	e 2x4	MT20 unless oth	erwise indicated.	
BOT CHORD Rig	id ceiling directly	applied or 6-0-0 oc	BOT	CHORD :	32-33=-142/135, 31	-32=-1	42/135,		8) (	Gable requi	res co	ntinuous bottom	chord bearing.	
bra	cing.				30-31=-142/135, 29	-30=-1	42/135,		9) 7	russ to be	fully sl	neathed from one	face or securely	
WEBS 1 R	ow at midpt	10-27, 9-28, 8-29, 6-3	30,	2	28-29=-142/135, 27	-28=-1	42/135,		t	praced agai	nst lat	eral movement (i	.e. diagonal web).	
	•	11-26, 12-24, 14-23		-	26-27=-142/135, 24	-26=-1	42/135,		10) (	Sable studs	space	ed at 2-0-0 oc.		
<b>REACTIONS</b> (size)	) 20=24-11	-0. 21=24-11-0.		-	23-24=-142/135, 22	-23=-1	42/135,		11) *	This truss	has be	en designed for	a live load of 20.0psf	
	22=24-11	-0. 23=24-11-0.			21-22=-142/135, 20	-21=-1	42/135		0	on the botto	m cho	rd in all areas wh	ere a rectangle	
	24=24-11	-0. 26=24-11-0.	VVEE	35	10-27=-140/37, 9-28	3=-151	/59, 8-29=-12	26/11,	3	3-06-00 tall	by 2-0	0-00 wide will fit	between the bottom	
	27=24-11	-0, 28=24-11-0,		,	0-30=-216/78, 5-31=	=-223/1	70, /545		(	chord and a	ny oth	er members.		
	29=24-11	-0, 30=24-11-0,		4	4-32=-231/193, 3-33	3=-530	(040,		12) <i>i</i>	All bearings	are as	sumed to be SP	N0.2 .	
	31=24-11	-0, 32=24-11-0,			11-20=-151/60, 12-2	24=-12	0/1Z, 4/4Z0							
	33=24-11	-0			14-23=-223/89, 13-2	20 5	4/170,							
Max	Horiz 33=-264	(LC 11)			10-21=-220/102, 17	-20=-5	09/525							
Max	Uplift 20=-197	LC 10), 21=-206 (LC	<sub>9),</sub> NOT	ES								minin	in the second se	
	22=-74 (L	C 14), 26=-8 (LC 9),	í 1) l	Unbalanced	roof live loads have	been (	considered fo	r				WAH CA	Rollin	
	27=-2 (LC	C 10), 28=-8 (LC 10),	1	this design.		1.						A		
	31=-74 (L	.C 13), 32=-213 (LC 1	0), <sup>2</sup> )	Wind: ASCE	7-16; Vult=130mph	(3-sec	cond gust)	<b>.</b> .			5.	FESS	Di.	
	33=-207	(LC 9)		Vasd=103mp	oh; ICDL=6.0psf; B	CDL=6	0.0psf; h=25ft;	; Cat.			2	a io	118 1 2 -	
Max	Grav 20=311 (I	LC 29), 21=325 (LC 12	2),	II; EXP B; En	closed; MVVFRS (er	ivelope	e) and C-C Co	orner			1	2	THE PARTY	
	22=167 (	LC 36), 23=207 (LC 3	1), (	(3E) -1-9-11	to 1-2-5, Exterior(21	N) 1-2-	5 to 6-8-13,			-		054	=	
	24=166 (	LC 35), 26=159 (LC 3	5), (	Corner(3R) 6	5-8-13 to 9-8-13, EX	terior(2	(N) 9-8-13 to				:	SEA	L : =	
	27=160 (	LC 2), 28=159 (LC 36)	),	18-2-3, Corn	er(3R) 18-2-3 to 21	-2-3, E	xterior(ZN) Z	1-2-3				0235	94	
	29=166 (	LC 36), 30=208 (LC 32	2), <sup>1</sup>	0 26-8-11 Z	one; cantilever lett a	na rigr	it exposed ; e	ena		-		0233	54 : 5	
	31=167 (	LC 35), 32=333 (LC 1	1),		Ind right exposed;C-		nembers and					•	1 - S	
	33=320 (	_C 30)	1		Into TOF reactions s	nown;	Lunder				-	. A.	ai i	
FORCES (lb)	- Maximum Con	pression/Maximum	2)	DOL= 1.00 pl		the pl	one of the tru	~~			11	VGIN	EENAN	
Ten	nsion		3)	nuss uesign	ieu iui winu iudus in	i i i e pi	ane or the free	33			11,	UNA CONTRACTOR	A A A A	
				onny. Fui Sil	d Industry Cable En	d Dota	ile as applica	), blo				ILY R I	MIL	
				or consult au	alified building desi	aner a	s per ANSI/T	PI 1.				- minu	IIIII	

June 6,2025

#### Continued on page 2 WARNING - Verify d



Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020			
25040114-01	C1	Piggyback Base Supported Gable	1	1	Job Reference (optional)	74009672		

13) Provide mechanical connection (by others) of truss to

- bearing plate capable of withstanding 197 lb uplift at joint 20, 207 lb uplift at joint 33, 2 lb uplift at joint 27, 8 lb uplift at joint 28, 74 lb uplift at joint 31, 213 lb uplift at joint 32, 8 lb uplift at joint 26, 74 lb uplift at joint 22 and 206 lb uplift at joint 21.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:09 ID:JZkyE9ICzWk6?ne8MQmcclzPfyu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020				
25040114-01	L3	Roof Special Girder	1	2	Job Reference (optional)	174009673			

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:13 ID:j8Q5sAL4GR6hsEMj1ZJJEOzPfyr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:100.5

# Plate Offsets (X, Y): [1:0-4-8,0-1-5], [2:0-2-4,0-1-8], [5:Edge,0-2-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.38 0.56 0.96	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.09 0.08	(loc) 8-9 8-9 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 319 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 *Excep No.2 Structural wood she: 5-0-14 oc purlins, e Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 9-1 Row at midpt (size) 7=0-3-8, 1 Max Horiz 10=413 (L Max Grav 7=1765 (L (lb) - Maximum Com Tension 1-2=-6061/0, 2-4=-1: 5-6=-268/213, 1-10= 9-10=-544/395, 1-9= 7-8=-80/299 2-9=0/5057, 2-8=-35 5-8=0/2869, 5-7=-16	t* 8-5,7-6,7-5:2x4 SF athing directly applied xcept end verticals. applied or 10-0-0 oc 10. 6-7, 5-7 (0=0-3-8 C 6) .C 20), 10=5235 (LC pression/Maximum 834/0, 4-5=-1840/0, -5102/0, 6-7=-249/1 :0/3867, 8-9=0/4124, :13/0, 4-8=-359/249, :52/25	3) 4) d or 5) 6) 21) 7) 8) 78 9)	Unbalanced this design. Wind: ASCE Vasd=103mp II; Exp B; End and right exp Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 * This truss h on the botton 3-06-00 tall b chord and an All bearings a Bearing at joi using ANSI/T designer sho Hanger(s) or provided suff Ib down at 2 of such conn- others.	roof live loads have 7-16; Vult=130mph h; TCDL=6.0psf; B closed; MWFRS (en osed ; end vertical =1.60 plate grip DC 7-16; Pr=20.0 psf; 15); Pg=20.0 psf; 15); Pg=20.0 psf; 15); Pg=20.0 psf; ate DOL=1.15); Is= ; Cs=1.00; Ct=1.10 as been designed in a chord in all areas y 2-00-00 wide will y other members, v are assumed to be nt(s) 10 considers PI 1 angle to grain uld verify capacity of other connection d cient to support co- 9-6 on bottom cho ection device(s) is to	e been of a (3-sec CDL=6 nvelope left and DL=1.33 (roof LL Pf=13.2 a 1.0; Rc ) for a liv where fit betw with BC SP No. parallel formallel formallel formallel formallel thereits ncentra rd. The the resp	considered for cond gust) .0psf; h=25ft (); cantilever right expose cancel and the construction opsf (Lum ough Cat B; F e load of 20.0 a rectangle zeen the bott DL = 10.0psf 2. to grain valu a. Building ng surface. ) shall be ted load(s) 4 a design/selection consibility of	r Cat. left ad; 1.15 fully Dpsf c m f c r 799 ction				WITH CA	ROJ	
NOTES 1) 2-ply trus (0.131*x3 Top chor oc. Bottom cl staggeree Web con 2) All loads except if CASE(S) provided unless ot	s to be connected toget ") nails as follows: Is connected as follows hords connected as follows at 0-3-0 oc. hected as follows: 2x4 - are considered equally noted as front (F) or bar section. Ply to ply conr to distribute only loads herwise indicated.	ther with 10d 5: 2x4 - 1 row at 0-9-0 cows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ lections have been noted as (F) or (B),	LC 1) AD	AD CASE(S) Dead + Snc Increase=1. Uniform Loa Vert: 1-5= Concentrate Vert: 9=-3	Standard w (balanced): Lum 15 dds (lb/ft) -48, 5-6=-48, 9-10 d Loads (lb) 8852 (B), 12=-810 (	ber Inc =-20, 7 (B)	rease=1.15, I -9=-20	Plate				SEA 0235 OVY R.	ER. FR.	ANNIN THE STREET

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818 Soundside Road Edenton, NC 27932

June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	E3	Piggyback Base Girder	1	2	Job Reference (optional)	174009674

16-6-13

4-4-11

3x5=

12-2-1

4-4-11

1-6-3<u>4-6-14</u>

1-6-3 3-0-12

7-9-6

3-2-8

6x8 🖌

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

Scale = 1:82.3

Loading

TCDL

BCLL

BCDL

WEBS

BRACING

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

oc.

1)

TCLL (roof)

Snow (Pf/Pg)

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:11 ID:t1TvoBKSZI9w\_UjyPCvCduzPuRt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

24-2-0

2-9-6

21-4-10

4-9-13

6x8.



5 Δ 6  $\boxtimes$ 14<sup>12</sup> 5x6 3 3x8、 10-4-1 11-6-0 2x4 II 3x6 🖌 1-4-0 13 9 16 1217 11 3x8= 3x8= 15 4x6= 2x4 II 6x8= 3x5 II 6x12、 ⊿14 12 3x8、 12L <sup>12</sup> 24-2-0 1-4-7 0-3-8 23-10-8 7-7-10 16-8-9 21-6-6 0-3-8 6-3-3 9-0-15 4-9-13 2-4-2 0-3-8 1-0-15 Plate Offsets (X, Y): [4:0-2-11,Edge], [6:0-2-11,Edge], [7:0-2-8,0-1-8], [8:0-3-8,0-1-8], [9:0-5-8,Edge], [14:0-5-4,0-3-8] Spacing 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) (loc) 20.0 Plate Grip DOL 1.15 тс 0.32 Vert(LL) -0.06 11-13 >999 240 MT20 244/190 18.9/20.0 Lumber DOL 1.15 BC 0.65 Vert(CT) -0.11 11-13 >999 180 Rep Stress Incr WB Horz(CT) 10.0 NO 0.93 0.13 10 n/a n/a 0.0 IRC2021/TPI2014 Matrix-MSH Code 10.0 Weight: 409 lb FT = 20% 2) All loads are considered equally applied to all plies, Vert: 1-4=-48, 4-6=-58, 6-8=-48, 14-15=-20, except if noted as front (F) or back (B) face in the LOAD 9-14=-20, 9-10=-20 2x4 SP No 2 CASE(S) section. Ply to ply connections have been 2x6 SP No 2 Concentrated Loads (lb) provided to distribute only loads noted as (F) or (B), 2x4 SP No.3 Vert: 9=-3904 (B), 18=-810 (B) unless otherwise indicated. Unbalanced roof live loads have been considered for 3) Structural wood sheathing directly applied or this design. 4-7-14 oc purlins, except Wind: ASCE 7-16; Vult=130mph (3-second gust) 4) 2-0-0 oc purlins (6-0-0 max.): 4-6. Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Rigid ceiling directly applied or 6-0-0 oc II; Exp B; Enclosed; MWFRS (envelope); cantilever left bracing and right exposed ; end vertical left and right exposed; **REACTIONS** (size) 10=0-3-8, 15=0-3-8 Lumber DOL=1.60 plate grip DOL=1.33 Max Horiz 15=176 (LC 6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 5) Max Grav 10=5811 (LC 20), 15=1575 (LC 20) Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum (Ib) - Maximum Compression/Maximum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Tension Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0 1-2=-2297/0, 2-3=-2302/0, 3-4=-1838/0, 6) Provide adequate drainage to prevent water ponding. 4-5=-1135/0, 5-6=-1686/0, 6-7=-2721/0, 7) \* This truss has been designed for a live load of 20.0psf 7-8=-6805/0 on the bottom chord in all areas where a rectangle 14-15=-308/218, 13-14=0/1357, 3-06-00 tall by 2-00-00 wide will fit between the bottom 11-13=0/1495, 9-11=0/4431, 8-9=0/4471, chord and any other members, with BCDL = 10.0psf. 9-10=-140/0All bearings are assumed to be SP No.2. 8) 1-14=0/1516, 2-14=-76/120, 3-13=-275/143, Bearing at joint(s) 15, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building 9) 4-13=0/1178, 6-11=0/1813, 7-11=-3336/0, 7-9=0/4718, 3-14=-219/442, 5-13=-772/0, designer should verify capacity of bearing surface. 5-11=0/585, 8-10=-5641/0, 1-15=-1536/0 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 2-ply truss to be connected together with 10d bottom chord. (0.131"x3") nails as follows: 11) Hanger(s) or other connection device(s) shall be Top chords connected as follows: 2x4 - 1 row at 0-9-0 provided sufficient to support concentrated load(s) 4729 Ib down at 21-4-10 on bottom chord. The design/ Bottom chords connected as follows: 2x6 - 2 rows selection of such connection device(s) is the responsibility of others. staggered at 0-3-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard Dead + Snow (balanced): Lumber Increase=1.15, Plate 1) Increase=1.15 Uniform Loads (lb/ft)



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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020			
25040114-01	VL1	Valley	1	1	Job Reference (optional)	174009675		

1)

Run: 8 73 S. Feb 19 2025 Print: 8 730 S. Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:16 ID:?\_izO04HWrVvyGcwgH0HHTzPuSC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road

Edenton, NC 27932



and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	L1	Roof Special	2	1	Job Reference (optional)	174009676

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:13 ID: BowcxuxO2IyMPALNb7EZPQzPfzM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:98.1 Plate Offsets (X, Y): [5:Edge.0-2-8]

	(,,, ,). [0:2090;0 2 0]												
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER TOP CHORD	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0 2x4 SP No.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202 3)	1/TPI2014 TCLL: ASCE Plate DOL=1	CSI TC BC WB Matrix-MSH 7-16; Pr=20.0 ps .15); Pg=20.0 psf	0.32 0.61 0.66 f (roof LL ; Pf=13.9	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.23 0.03	(loc) 7-8 7-8 7	l/defl >999 >724 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 147 lb	<b>GRIP</b> 244/190 FT = 20%
BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.3 *Excep No.2	t* 7-6,8-5,7-5:2x4 S	P 4)	DOL=1.15 P Exp.; Ce=0.9 * This truss h	late DOL=1.15); Is 9; Cs=1.00; Ct=1.1 has been designed	s=1.0; Ro 0 d for a liv	bugh Cat B; F re load of 20.	Fully 0psf					
BRACING TOP CHORD BOT CHORD WEBS REACTIONS	Structural wood shea 5-8-12 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 7=0-3-8, 1 Max Horiz 10=310 (L Max Uplift 7=-184 (L' Max Grav 7=794 (LC	athing directly applie applied or 8-2-11 or 6-7, 4-8, 5-8, 5-7 0=0-3-8 C 13) C 13) C 28), 10=652 (LC 2	ed or 5) c 6) 7) 9)	on the bottor 3-06-00 tall th chord and ar All bearings Bearing at jo using ANSI/ designer sho Provide mec bearing plate 7.	n chord in all area by 2-00-00 wide w by other members are assumed to be int(s) 10 consider: FPI 1 angle to grai build verify capacity hanical connection e capable of withst	is where ill fit betv , with BC e SP No. s parallel n formula / of beari n (by oth anding 1	a rectangle veen the bott :DL = 10.0ps 2 . to grain valu a. Building ing surface. ers) of truss 84 lb uplift a	tom f. ue to t joint					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	L.	UAD CASE(S)	Stanuaru								
TOP CHORD	5-6=-52/77, 1-2=-999 4-5=-844/329	9/280, 2-4=-620/32,											
BOT CHORD WEBS	9-10=-523/485, 8-9= 2-9=-320/368, 1-10= 6-7=-81/52, 2-8=-46 5-8=-482/1141, 5-7=	-494/852, 7-8=-40/1 -825/223, 1-9=-139/ 1/367, 4-8=-521/335 -762/265	15 /614, 5,									TH CA	Route
<ul> <li>5-8=-482/1141, 5-7=-762/265</li> <li>NOTES</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 31-12, Interior (1) 3-1-12 to 11-11-15, Exterior(2E) 11-11-15 to 14-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 33</li> </ul>												SEA 0235	L 94

# Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-11-15, Exterior(2E) 11-11-15 to 14-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33



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818 Soundside Road Edenton, NC 27932
Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	L2	Roof Special	5	1	Job Reference (optional)	174009677

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:13 ID:f\_U?8Ey0pc4D0JwZ9rloxezPfzL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:81.2

Vate Offsets (X, Y): [3:0-2-8,0-0-4], [5:Edge,0-2-8]														
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MSH	0.80 0.56 0.74	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.22 0.01	(loc) 7-8 7-8 7	l/defl >999 >787 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 157 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: ASI Vasd=103 II; Exp B; Exterior(2 11-11-15, cantilever right expo DOL=1.33	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excepi 7-5,8-5:2x4 SP No.3 Structural wood sheat 5-11-5 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 7=0-3-8, 1 Max Uplit 7=-91 (LC Max Grav 7=777 (LC (lb) - Maximum Com Tension 1-2=0/95, 2-3=-678/1 4-5=-853/452, 5-6=-3 6-7=-352/367 9-10=-650/549, 8-9= 3-9=-363/162, 2-9=- 5-8=-378/938, 4-8=-5 ed roof live loads have n. CE 7-16; Vult=130mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (en E) -1-9-14 to 1-2-2, Inte Exterior(2E) 11-11-15 left and right exposed sed;C-C for members a ns shown; Lumber DOI	* 7-6:2x4 SP No.1, athing directly applier (cept end verticals. applied or 6-0-0 oc 6-7, 5-7, 5-8, 4-8 0=0-3-8 C 12) 10) 2 29), 10=799 (LC 30 pression/Maximum 104, 3-4=-777/237, 386/427, 2-10=-806/ -304/529, 7-8=-197/2 19/446, 5-7=-854/500 889/433, 4-9=-205/3 been considered for (3-second gust) CDL=6.0psf; h=25ft; velope) and C-C grior (1) 1-2-2 to to 14-3-8 zone; cond forces & MWFRS L=1.60 plate grip	3) 4) 6) 7) 177, 252 8, 36 Cat.	TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.5 This truss ha load of 12.0 overhangs n * This truss h on the bottor 3-06-00 tall th chord and ar All bearings a Provide mec bearing plate 7. DAD CASE(S)	57-16; Pr=20.0 ps: .15); Pg=20.0 psf late DOL=1.15); Is 0; Cs=1.00; Ct=1.1 s been designed 1 psf or 2.00 times f on-concurrent with has been designed n chord in all area by 2-00-00 wide wi hy other members, are assumed to be hanical connection capable of withst Standard	f (roof LL ; Pf=13.5 =1.0; Rc 0 for great lat roof ld n other li d for a liv s where ill fit betv , with BC e SP No. n (by oth anding S	: Lum DOL= 9 psf (Lum ough Cat B; I er of min roo bad of 13.9 p e loads. e load of 20. a rectangle veen the bott DL = 10.0ps 2 . ers) of truss 11 lb uplift at	flive Fully flive psf on 0psf for f. to joint				SEA OCTOS OFESS SEA O235	ROLL 04 E.P. E.P. MILLER	

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818 Soundside Road Edenton, NC 27932

June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	E5	Piggyback Base Girder	1	2	Job Reference (optional)	174009678

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:11 ID:nmIKRUJqkqszdxCKv8Hr9zzPfyt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-6-3 1-6-3 8-11-3 12-2-1 15-4-15 21-2-0 -7-5-0 3-2-14 3-2-14 5-9-1 6x8 🍬 3x5= 6x8、 3 4 5 12 14 11-9-1 3x6、 6 3x6 🅢 3x6 🅢 3-9-7 2 7 1-4-0 -3-14 9 11 13 10 8 15 2x4 II 12 ğ 4x8= 4x6= 3x8= 2x4 II 6x8= **\_**14 1-4-7 0-3-8 8-9-7 15-6-11 21-2-0 7-5-0 6-9-5 5-7-5

Scale = 1:82

## 1-0-15 Plate Offsets (X, Y): [3:0-2-11,Edge], [5:0-2-11,Edge], [11:0-4-0,0-3-8]

Load	ling	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	(roof)	20.0	Plate Grip DOL	1.15		тс	0.39	Vert(LL)	-0.06	10-11	>999	240	MT20	244/190	
Snov	/ (Pf/Pg)	18.9/20.0	Lumber DOL	1.15		BC	0.64	Vert(CT)	-0.11	10-11	>999	180			
TCDI	_	10.0	Rep Stress Incr	NO		WB	0.42	Horz(CT)	0.04	7	n/a	n/a			
BCLL	-	0.0*	Code	IRC202	1/TPI2014	Matrix-MSH									
BCD	L	10.0											Weight: 369 lb	FT = 20%	
шм	BFR			3)	Unbalanced	roof live loads have	e been (	considered fo	r						
TOP	CHORD	2x4 SP No 2		-,	this design.										
BOT	CHORD	2x6 SP No.2		4)	Wind: ASCE	7-16; Vult=130mpl	n (3-sec	ond gust)							
WEB	S	2x4 SP No.3 *Except	t* 10-4.8-4:2x4 SP N	vo.2	Vasd=103mp	oh; TCDL=6.0psf; E	SCDL=6	.0psf; h=25ft;	Cat.						
BRA	CING		,		II; Exp B; En	closed; MWFRS (e	nvelope	); cantilever	left						
TOP	CHORD	Structural wood she	athing directly applie	ed or	and right exp	osed ; end vertical	left and	I right expose	ed;						
	0.10112	6-0-0 oc purlins, exc	cept end verticals. a	nd	Lumber DOL	=1.60 plate grip D0	DL=1.33	3							
		2-0-0 oc purlins (6-0-	-0 max.): 3-5.	5)	TCLL: ASCE	7-16; Pr=20.0 psf	(roof LL	.: Lum DOL=	1.15						
вот	CHORD	Rigid ceiling directly	applied or 10-0-0 oc	2	Plate DOL=1	.15); Pg=20.0 psf;	Pf=18.9	psf (Lum							
		bracing.			DOL=1.15 P	ate DOL=1.15); Is=	=1.0; R0	ough Cat B; F	ully						
REA	CTIONS	(size) 7= Mecha	nical, 12=0-3-8	6)	Exp.; Ce=0.9	i; CS=1.00; Cl=1.10	, Lu=50	J-U-U Nator popding							
		Max Horiz 12=252 (L	.C 6)	7)	* This trues h	uale urainaye lu p	for a liv	a load of 20 (	j. Inef						
		Max Grav 7=1020 (L	C 20), 12=1674 (LC	;21) ''	on the bottor	as been designed	whore	e ioau oi 20.0	psi						
FOR	CES	(lb) - Maximum Com	pression/Maximum		3-06-00 tall h	v 2-00-00 wide will	fit hetv	leen the hotte	m						
		Tension	•		chord and ar	v other members	with BC	DI = 10.00sf							
TOP	CHORD	1-12=-1935/0, 1-2=-3	3184/0, 2-3=-1142/0	), 8)	Bearings are	assumed to be: Jo	oint 12 S	SP No.2 .							
		3-4=-670/63, 4-5=-45	54/72, 5-6=-793/36,	9)	Refer to gird	er(s) for truss to tru	ss conr	ections.							
		6-7=-930/0		10	) Bearing at jo	int(s) 12 considers	paralle	to grain valu	е						
вот	CHORD	11-12=-263/333, 10-	11=-182/2181,		using ANSI/1	PI 1 angle to grain	formula	a. Building							
	~	8-10=-42/605, 7-8=-3	36/31		designer sho	uld verify capacity	of bear	ng surface.							
WEB	S	1-11=0/2304, 2-11=0	)/1529, 2-10=-1483/	159, 11	) Graphical pu	rlin representation	does no	ot depict the s	size				mmm	1111	
		3-10=0/506, 4-10=-3	50/372, 4-8=-425/69,		or the orienta	tion of the purlin a	long the	top and/or					I'L'H CA	Pall	
		5-6=0/335, 6-6=-11/5	520		bottom chord		,						21	10/1	11
NOI	ES	4	ih an u dih 40 d	12	) Hanger(s) or	other connection c	levice(s	) shall be	70			X	O MESS	in M	a la participa de la compañía de la
1) 2	-piy truss	to be connected toget	ther with 10d		provided suit	7 10 on bottom ob	ord T		79			5/4	100 -11	elle-	File
()	0.131 X3	) halls as follows:	2 2 4 1 row of 0 0	0	coloction of c	-7-10 on bollom cn	vico(c)	ie design/				2	R	K .	
1		s connected as follows	5. 2X4 - 1 10W at 0-9-	0	responsibility	of others	vice(s)	is the			-		054		: =
F	io. Sottom chi	ords connected as follo	ows: 2x6 - 2 rows	10	AD CASE(S)	Standard					- E		SEA	L	E E
S	taggered	at 0-9-0 oc	21010	1)	Dood L Spr	(balancod): Lum	bor Inc	rooco_1 15 [	Diato		=		0235	94	: E
v	Veb conne	ected as follows: 2x4 -	1 row at 0-9-0 oc.	1)	Increase-1	15		10030-1.10, 1	late				0200		2
2) A	Il loads a	re considered equally	applied to all plies.		Uniform Lo:	ads (lh/ft)							<b>N</b>		
́е	except if n	oted as front (F) or bac	ck (B) face in the LO	AD	Vert: 1-3	-48 3-5=-58 5-6=	-48 11	-12=-20 7-1	1=-20			5	Nº En	-8:0	
C	CASE(S) s	section. Ply to ply conn	ections have been		Concentrate	ed Loads (lb)	,	0,, / 1				21	GIN	5 CX	18
р	rovided to	o distribute only loads i	noted as (F) or (B),		Vert: 13=	-710 (B)						1	WY	ALL .	1
U	inless oth	erwise indicated.				· /							11, H. I	VIIII	
													in the second se	IIII	

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	E2	Piggyback Base	8	1	Job Reference (optional)	174009679

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:10 ID:tlxTEN7oa40KRtwhv75DRJzPuS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



## Plate Offsets (X, Y): [3:0-2-11,Edge], [5:0-2-11,Edge]

Scale = 1:76.8

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	I/TPI2014	CSI TC BC WB Matrix-MSH	0.73 0.81 0.58	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.40 0.05	(loc) 8-10 8-10 7	l/defl >968 >633 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 156 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-2-0 oc purlins, exi 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 7= Mecha Max Horiz 12=209 (L Max Grav 7=929 (LC (lb) - Maximum Com Tension 1-2=-1942/479, 2-3= 3-4=-779/190, 4-5=- 6-7=-1154/114 11-12=-306/305, 10- 8-10=-101/708, 7-8= 1-11=-374/1374, 2-1 2-10=-785/471, 3-10 5-8=-11/319, 6-8=-1 1-12=-1257/261	athing directly applie cept end verticals, ar -0 max.): 3-5. applied or 6-0-0 oc 4-8, 4-10 inical, 12=0-3-8 .C 10) C 3), 12=918 (LC 3) ipression/Maximum -1228/155, 588/172, 5-6=-913/10 -11=-570/1510, -60/70 1=-204/382, 1=0/456, 4-8=-403/10 7/616, 4-10=-80/147, been considered for	2) d or nd 3) 4) 5) 60, 6) 7) 8) 55, 9) LC	Wind: ASCE Vasd=103mp II; Exp B; En. Exterior(2E) Exterior(2R) 16-6-13, Exterior DOL=1.33 TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.9 Provide adec * This truss f on the bottor 3-06-00 tall b chord and ar Bearings are Refer to gird Bearing at jo using ANSI/T designer sho Graphical pu or the orienta bottom chorc	7-16; Vult=130mp h; TCDL=6.0psf; E closed; MWFRS (e 0-1-12 to 3-1-12, In 7-9-6 to 12-2-9, Ini- perior(2E) 16-6-13 to exposed ; end ver for members and wm; Lumber DOL= 7-16; Pr=20.0 psf; ate DOL=1.15); IS t; Cs=1.00; Ct=1.11 puate drainage to p tab been designed in chord in all arease y 2-00-00 wide will y other members, assumed to be: Jo er(s) for truss to tru int(s) 12 considerss PI 1 angle to grain uld verify capacity rlin representation tion of the purlin a I. Standard	h (3-sec BCDL=6 anvelope interior ( terior (1 b 21-0-4 tical left forces a =1.60 pl (roof LL Pf=18.9 =1.0; RC 0, Lu=50 revent 1 for a liv s where I fit betw with BC bint 12 § uss conr parallel formula of bear does not long the	cond gust) .0psf; h=25f; and C-C 1) 3-1-12 to 1 ) 12-2-9 to 2 cone; cantil and right & MWFRS for ate grip .: Lum DOL= 0 psf (Lum Dugh Cat B; I 0-0-0 water pondin e load of 200. water pondin e load of 200. EDL = 10.0ps SP No.2. nections. to grain valid a. Building ng surface. ot depict the e top and/or	t; Cat. 7-9-6, lever or =1.15 Fully ug. .0psf tom sf. ue size				SEA 0235	ROL 94 FER. FR. 111 94 MILL 9	
	ING - Verify design paramete	ers and READ NOTES ON 1	THIS AND IN(		EFERENCE PAGE MII-7	473 rev. 1	/2/2023 BEFOR	E USE.				ENGINEER		



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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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	Overhills-Roof-CL-20-020	
25040114-01	E1	Piggyback Base	5	1	Job Reference (optional)	174009680

Scale = 1:84.8

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

BRACING

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS

TOP CHORD

BOT CHORD

WEBS

NOTES

this design.

1)

FORCES

(size)

TCLL (roof)

Snow (Pf/Pg)

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:10 ID:2K2nPWrM\_?6bBLfG3oBq0SzPuSV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-9-4 8-11-3 12-2-1 15-4-15 21-2-0 3-3-1 3-2-14 4-1-15 3-2-14 5-9-1 6x8 🥠 3x5= 6x8、 5 6 4 14<sup>12</sup> 4x5 3 11-9-1 11-9-1 3x6 2x4 II 3x6 2 围 0-0-1 11 ŝ 18 17 15 13 10 9 8 5x10= 2x4 II 2x4 🛛 2x4 🛛 d Ľ 2x4 i 3x5= 2x4= 3x5= 5x8= 3x5= 2x4= **∟**14 5x10 12 9-8-1 16-3-11 16-2-14 1-4-7 8-1-4 8-0-8 11-2-0 0-3-8 7-8-1 14-8-1 21-2-0 11 6-3-10 3-6-1 4-5-15 0-4-7 0-0-13 0-3-8 1-5-15 6-13 1-0-15 0-0-13 Plate Offsets (X, Y): [4:0-2-11,Edge], [6:0-2-11,Edge], [9:0-3-12,0-2-8], [17:0-3-12,0-2-8], [18:0-5-4,0-2-8] 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) Spacing (loc) 20.0 Plate Grip DOL 1.15 тс 0.82 Vert(LL) -0.09 10-15 >999 240 MT20 244/190 18.9/20.0 Lumber DOL 1.15 BC 0.79 Vert(CT) -0.18 10-15 >999 180 Rep Stress Incr WB 10.0 NO 0.42 Horz(CT) 0.08 8 n/a n/a 0.0 IRC2021/TPI2014 Matrix-MSH Code Weight: 193 lb 10.0 FT = 20% 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2x4 SP No.2 \*Except\* 6-7:2x4 SP No.1 II; Exp B; Enclosed; MWFRS (envelope) and C-C 2x4 SP No.2 Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 2x4 SP No.3 \*Except\* 5-17,5-9:2x4 SP No.2 8-11-3, Exterior(2R) 8-11-3 to 13-2-1, Interior (1) 13-2-1 to 15-4-15, Exterior(2R) 15-4-15 to 19-7-14, Interior (1) Structural wood sheathing directly applied or 19-7-14 to 21-0-4 zone; cantilever left and right 3-6-9 oc purlins, except end verticals, and exposed ; end vertical left and right exposed;C-C for 2-0-0 oc purlins (6-0-0 max.): 4-6. members and forces & MWFRS for reactions shown; Rigid ceiling directly applied or 10-0-0 oc Lumber DOL=1.60 plate grip DOL=1.33 bracing, Except: 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 6-0-0 oc bracing: 14-16 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum 5-0-6 oc bracing: 12-14. DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully 1 Row at midpt 5-17.5-9 Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0 8= Mechanical, 19=0-3-8 200.0lb AC unit load placed on the bottom chord, 12-2-1 Max Horiz 19=215 (LC 10) from left end, supported at two points, 5-0-0 apart. Max Grav 8=1259 (LC 3), 19=1161 (LC 3) 5) Provide adequate drainage to prevent water ponding. (Ib) - Maximum Compression/Maximum 6) \* This truss has been designed for a live load of 20.0psf Tension on the bottom chord in all areas where a rectangle 1-19=-1466/79, 1-2=-2029/93, 3-06-00 tall by 2-00-00 wide will fit between the bottom 2-3=-2082/220, 3-4=-1533/71, 4-5=-888/112, chord and any other members, with BCDL = 10.0psf. 5-6=-694/115, 6-7=-1096/3 Bearings are assumed to be: Joint 19 SP No.2 . 7) 18-19=-300/296, 17-18=-21/1059, Refer to girder(s) for truss to truss connections. 8) 15-17=0/1626, 10-15=0/1626, 9-10=0/1626, Bearing at joint(s) 19 considers parallel to grain value 9) 8-9=0/0, 14-16=-27/21, 12-14=-1115/0, using ANSI/TPI 1 angle to grain formula. Building 11-12=-6/98 designer should verify capacity of bearing surface. Shimmon and 1-18=-11/1261, 2-18=-139/126, 7-8=-1440/0, 10) Graphical purlin representation does not depict the size 16-17=-26/205, 5-16=-26/213, 5-11=-327/87, WWWWWWWWWW or the orientation of the purlin along the top and/or 9-11=-301/76, 4-17=0/831, 6-9=0/454, bottom chord. SEAL 7-9=0/768, 14-15=0/219, 10-12=0/253, LOAD CASE(S) Standard 3-17=-412/229, 3-18=-259/571, 3594 14-17=-1205/0, 9-12=-1279/0 Unbalanced roof live loads have been considered for

> mmm June 6,2025

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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A5	Monopitch	2	1	Job Reference (optional)	174009681

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:05 ID:ujXO1J3fhNCybi6IBEPvoXzPfzC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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#### Scale = 1:80.1

## Plate Offsets (X, Y): [10:0-4-12,0-1-8]

BCDL	10.0 0.0* 10.0	Lumber DOL Rep Stress Incr Code	1.15 YES IRC2021	/TPI2014	BC WB Matrix-MSH	0.47 0.34 0.54	Vert(CT) Horz(CT)	-0.02 -0.04 0.00	10-11 10-11 10	>999 >999 n/a	180 n/a	Weight: 133 lb	FT = 20%
LUMBER TOP CHORD 22 BOT CHORD 23 WEBS 23 BRACING TOP CHORD S BOT CHORD S BOT CHORD R REACTIONS (siz Ma Ma Ma FORCES (lit	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Except 5-2-6 oc purlins, exc 3igid ceiling directly pracing. ize) 10=0-3-8, ax Horiz 12=464 (L ax Uplift 10=-364 (I ax Grav 10=1451 ( Ib) - Maximum Com	* 12-2:2x6 SP No.2 athing directly applied ept end verticals. applied or 6-0-0 oc 12=0-3-0 C 12), 12=-95 (LC 1 LC 2), 12=-95 (LC 3 orcession/Maximum	3) 4) 1 or 5) 6) 7) 1) 4) LO	Unbalanced s design. This truss has load of 12.0 p overhangs of * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mech bearing plate 12 and 364 lb	snow loads have be solved by the second second second second second solved second second second second second second solved second seco	een cor r greate t roof lo other liv or a liv where fit betw SP No. (by oth nding 9	er of min roof pad of 13.9 ps ve loads. e load of 20.0 a rectangle veen the botto 2. ers) of truss t 5 lb uplift at jo	nis live sf on Dpsf om o on					
TOP CHORD 1 5- BOT CHORD 1 9- WEBS 3 6- NOTES 1) Wind: ASCE 7 Vasd=103mpl II; Exp 8; Enci Exterior(2E) - 20-9-14 zone; vertical left an forces & MWF DOL=1.60 pla 2) TCLL: ASCE 7	Fension I-2=0/60, 2-3=-1066, 5-6=-1004/567, 6-7= 2-12=-463/125 I1-12=-749/186, 10- 9-10=-923/864, 8-9= 3-11=-71/170, 3-10= 5-10=-483/281, 5-9= 5-8=-819/524, 2-11= 7-16; Vult=130mph ph; TCDL=6.0psf; BC closed; MWFRS (en 1-10-2 to 1-1-14, In s; cantilever left and nd right exposed;C-C FRS for reactions sh ate grip DOL=1.33 7-16; Pr=20.0 psf (r 15): PR=20.0 psf (r									SEAL 02355	ROLLA		

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	VL2	Valley	1	1	Job Reference (optional)	174009682

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16 ID:Wo8aAg3flXN2L61k7aV2kFzPuSD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:68.2

this design.

Snow (Pf/Pg)         13.9/20.0         Lumber DOL         1.15         BC         0.17         Vert(TL)         n/a         -         n/a         999           TCDL         10.0         Rep Stress Incr         YES         WB         0.36         Horiz(TL)         0.01         7         n/a         n/a           BCLL         0.0*         Code         IRC2021/TPI2014         Matrix-MSH         Weight: 115 lb         FT = 20%	Loading         (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         13.9/20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.25 0.17 0.36	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 115 lb	<b>GRIP</b> 244/190 FT = 20%	
--	--	--	---	-------------------------------------	----------------------	---	--------------------------	----------------------	-----------------------------	--------------------------	----------------------------------	------------------------------------	--

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
OTHERS	2x4 SP N	o.3 *Except* 11-4:2x4 SP No.2
BRACING		
TOP CHORD	Structural 6-0-0 oc p	wood sheathing directly applied or purlins.
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc
WEBS	1 Row at	midpt 4-11
REACTIONS	(size)	1=20-0-0, 7=20-0-0, 8=20-0-0, 9=20-0-0, 11=20-0-0, 12=20-0-0, 13=20-0-0
	Max Horiz	1=224 (LC 10)
	Max Uplift	1=-110 (LC 11), 7=-71 (LC 12), 8=-80 (LC 14), 9=-167 (LC 14),
	Max Grav	12=-166 (LC 13), 13=-87 (LC 13) 1=184 (LC 10), 7=154 (LC 14), 8=353 (LC 29), 9=523 (LC 29), 11=355 (LC 31), 12=522 (LC 28), 13=364 (LC 28)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=-278/ 4-5=-258/	226, 2-3=-216/152, 3-4=-258/204, 204, 5-6=-180/104, 6-7=-278/226
BOT CHORD	1-13=-14 <sup>-</sup> 11-12=-14	1/193, 12-13=-141/193, 41/193, 9-11=-141/193,
	8-9=-141/	193, 7-8=-141/193
WEBS	4-11=-204	4/106, 3-12=-440/304,
	2-13=-329	9/219, 5-9=-440/305, 6-8=-328/218
NOTES		
1) Unbalance	ed roof live l	oads have been considered for

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 10-0-0, Corner (3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 19-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
   9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 1, 71 lb uplift at joint 7, 166 lb uplift at joint 12, 87 lb uplift at joint 13, 167 lb uplift at joint 9 and 80 lb uplift at joint 8
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	E4	Piggyback Base	2	1	Job Reference (optional)	174009683

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:11 ID:EPosWCv7Whif9sB\_UiB5J?zPfzO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:63.4

## Plate Offsets (X, Y): [1:0-1-8,0-1-8], [2:0-2-11,Edge], [3:0-2-11,Edge], [4:0-1-12,0-1-8]

						_								_
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MSH	0.75 0.44 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.11 0.01	(loc) 7-8 7-8 5	l/defl >999 >999 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 140 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep Structural wood shee 2-2-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 5= Mecha Max Horiz 0, 220 (LC	t* 7-2:2x4 SP No.2 athing directly applie cept end verticals, a -0 max.): 2-3. applied or 10-0-0 or 2-8, 2-7, 3-7 nical, 9= Mechanica	3) ed or 5) nd 6) 7) Il	TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 Provide adec * This truss h on the bottom 3-06-00 tall b chord and an Refer to girdd Graphical pu or the orienta bottom chord	7-16; Pr=20.0 psf .15); Pg=20.0 psf; ate DOL=1.15); Is= b; Cs=1.00; Ct=1.10; uate drainage to p has been designed n chord in all areas by 2-00-00 wide will by other members, v ar(s) for truss to tru rlin representation tion of the purlin all I.	(roof LL Pf=18.9 =1.0; Rc ), Lu=50 revent v for a liv where fit betw with BC ss conr does no ong the	: Lum DOL= p psf (Lum hugh Cat B; F )-0-0 water pondin, e load of 20.1 a rectangle veen the bott DL = 10.0psi lections. bt depict the s t op and/or	1.15 Fully g. Opsf om f. size						
FORCES TOP CHORD BOT CHORD WEBS	Max Grav 5=797 (LC (lb) - Maximum Com Tension 1-2=-827/143, 2-3=-{ 1-9=-931/116, 4-5=-4 8-9=-216/224, 7-8=- 2-8=-6/212, 2-7=-11; 1-8=-31/390, 4-7=-3	2 13), 9=805 (LC 3) pression/Maximum 519/191, 3-4=-794/1 934/117 91/467, 5-7=-68/89 3/101, 3-7=-61/168, 1/420	LO 57,	OAD CASE(S)	Standard								100.	
NOTES 1) Unbalance this design	ed roof live loads have	been considered for	r								J.	TH CA	ROLIN	

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-8-4 to 3-8-4, Interior (1) 3-8-4 to 6-8-9, Exterior(2R) 6-8-9 to 10-11-8, Interior (1) 10-11-8 to 13-2-6, Exterior(2R) 13-2-6 to 17-5-4, Interior (1) 17-5-4 to 18-9-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A8	Roof Special	1	1	Job Reference (optional)	1

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:06 ID:u\_2qc7GJhbMX8JvZgIDv?7zPfyx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



0-2-12	6-0-2	11-8-4	11-10-0	18-5-8
0-2-12	5-9-6	5-8-2	0-1-12	6-7-8

Scale = 1:71.4			0-2-12	5-9-6		5-8-2	0-1-12	6-7-8						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.75 0.46 0.53	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.15 -0.01	(loc) 7-8 7-8 7	l/defl >805 >519 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 129 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 11-1:2x6 SP No.2 Structural wood shea 6-0-0 oc purlins, exa Rigid ceiling directly bracing. 1 Row at midpt (size) 7= Mecha Max Horiz 11=301 (L Max Uplift 7=-108 (L Max Grav 7=222 (LC 11=420 (L	t* 6-7:2x4 SP No.2, athing directly applie cept end verticals. applied or 6-0-0 oc 6-7, 5-8 inical, 8=0-3-8, 11=0 .C 12) C 12), 8=-29 (LC 15 C 32), 8=1007 (LC 3) .C 33)	3) 4) ed or 5) 6) 7) 0-3-0 LO	Unbalanced design. * This truss I on the bottor 3-06-00 tall K chord and ar Bearings are SP No.2 . Refer to gird Provide mec bearing plate 7 and 29 lb t AD CASE(S)	snow loads ha nas been desig n chord in all a by 2-00-00 wid by other memb e assumed to b er(s) for truss hanical conne e capable of wi uplift at joint 8. Standard	ave been cor gned for a liv areas where le will fit betw pers, with BC pe: Joint 11 S to truss conr ction (by oth ithstanding 1	nsidered for t e load of 20. a rectangle veen the bott DL = 10.0ps SP No.2, Joi nections. ers) of truss 08 lb uplift a	his Opsf f. f. nt 8 to t joint						
TOP CHORD	(lb) - Maximum Com Tension 1-2=-515/36, 2-4=-2	pression/Maximum 56/302. 4-5=-173/25	i9.											
BOT CHORD	5-6=-223/189, 6-7=- 10-11=-582/473, 8-1	147/171, 1-11=-374/ 0=-374/579,	72											
WEBS	7-8=-151/143 5-7=-50/125, 4-8=-33 2-8=-653/192, 1-10=	35/160, 2-10=0/196, 24/259, 5-8=-300/2	7									H CA	Rollin	
NOTES 1) Wind: AS Vasd=100 II; Exp B; Exterior(2 18-3-12 z vertical le forces & N DOL=1.6( 2) TCLL: AS Plate DOI DOL=1.15 Exp.; Ce=	CE 7-16; Vult=130mph mph; TCDL=6.0psf; Bt Enclosed; MWFRS (en E) 0-2-12 to 3-2-12, Int one; cantilever left and ft and right exposed;C MWFRS for reactions si VWFRS for reactions si CE 7-16; Pr=20.0 psf; F 5 Plate DOL=1.15); Is= :0.9; Cs=1.00; Ct=1.10	(3-second gust) CDL=6.0psf; h=25ft; ivelope) and C-C terior (1) 3-2-12 to right exposed ; end C for members and hown; Lumber roof LL: Lum DOL=1 2f=13.9 psf (Lum 1.0; Rough Cat B; Ft	Cat. .15 ully								A A A A A A A A A A A A A A A A A A A	SEA 0235	PA 94 MILLER	-

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R. MILLIN

June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	A4	Roof Special	6	1	Job Reference (optional)	174009685

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:05 ID:ujXO1J3fhNCybi6IBEPvoXzPfzC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.9				0-2-12		5-0-2	0-1-12	0-7	-0					
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	21/TPI2014	CSI TC BC WB Matrix-MSH	0.75 0.46 0.51	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.15 -0.01	(loc) 8-9 8-9 8	l/defl >805 >519 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 132 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASG Vasd=103 II; Exp B; Exterior(2 18-3-12 zc vertical lef forces & M DOL=1.60	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 12-2:2x6 SP No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 8= Mecha Max Horiz 12=313 (I Max Uplift 8=-109 (L 12=-16 (L Max Grav 8=222 (LC (lb) - Maximum Com Tension 1-2=0/60, 2-3=-496/ 5-6=-171/255, 6-7= 2-12=-503/175 11-12=-582/485, 9-1 8-9=-150/144 6-8=-50/126, 3-9=-6 5-9=-341/165, 6-9=- CE 7-16; Vult=130mph Brach Comps; BE Enclosed; MWFRS (er E) -1-10-2 to 1-1-14, Ir one; cantilever left and tand right exposed; C- WFRS for reactions s 0 plate grip DOL=1.33	athing directly applie- cept end verticals. applied or 6-0-0 oc 7-8, 6-9 nnical, 9=0-3-8, 12=0- C 12) C 12), 9=-27 (LC 15) C 11) C 33), 9=997 (LC 3), C 2) pression/Maximum 18, 3-5=-255/300, 223/190, 7-8=-147/11 11=-369/560, 28/184, 3-11=0/195, 295/27, 2-11=-59/275 (3-second gust) CDL=6.0psf; h=25ft; ivelope) and C-C therior (1) 1-1-14 to right exposed ; end C for members and hown; Lumber	2 d or 4 -3-0 6, 7 8 71, 3 Cat.	<ul> <li>PTCLL: ASC Plate DOL= DOL=1.15 Exp.; Ce=0</li> <li>Unbalanced design.</li> <li>This truss h load of 12.C overhangs</li> <li>* This truss on the botto 3-06-00 tall chord and a SP No.2.</li> <li>Refer to gir</li> <li>Provide me bearing pla 8, 16 lb upl</li> </ul>	E 7-16; Pr=20.0 p 1.15); Pg=20.0 p Plate DOL=1.15); 9; Cs=1.00; Ct=1 d snow loads have as been designed psf or 2.00 times by 2-00-00 wide the by 2-0	sf (roof LI sf; Pf=13. Is=1.0; Ri 10 a been cou- d for great flat roof I th other li ed for a li ed for a li eas where will fit bett s, with BC Joint 12 st truss coni on (by oth standing 1 27 Ib uplift	L: Lum DOL= 9 psf (Lum ough Cat B; f nsidered for t er of min roo oad of 13.9 p ve loads. er load of 20. a rectangle ween the bott CDL = 10.0ps SP No.2, Joi nections. log lb uplift a at joint 9.	1.15 Fully his f live sf on 0psf om f. nt 9 to t joint				SEA 0235	ROJ L 94 EER. ER. INT	A MANUTURINE AND

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June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	G2	Piggyback Base	2	1	Job Reference (optional)	174009686

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:11 ID:2K2nPWrM\_?6bBLfG3oBq0SzPuSV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:64.9	
Plate Offsets (X, Y):	[4:0-2-11,Edge], [5:0-2-11,Edge]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-MSH	0.43 0.23 0.29	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.07	(loc) 11 11-12 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 139 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-0-5 oc purlins, ex 2-0-0 oc purlins, (6-0	athing directly applied cept end verticals, and I-0 max ): 4-5	2) or	Wind: ASCE Vasd=103mp II; Exp B; En Exterior(2E) Exterior(2E) 14-5-10, Inte left and right exposed;C-C	7-16; Vult=130mpf bh; TCDL=6.0psf; E closed; MWFRS (e -1-9-11 to 1-2-5, In 6-9-7 to 10-1-9, Ex rior (1) 14-5-10 to 1 exposed ; end vert c for members and	n (3-sec CDL=6 nvelope terior (1 terior(2 6-9-4 z ical left forces a	cond gust) .0psf; h=25ft; e) and C-C ) 1-2-5 to 6-9 R) 10-1-9 to cone; cantilev and right & MWFRS for	; Cat. )-7, er					
BOT CHORD WEBS REACTIONS	D       Structural wood sheathing directly applied or 5-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.       I left and right exposed; C- C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33         D       Rigid ceiling directly applied or 6-0-0 oc bracing.       TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15)         S       (size)       8-0-3-8, 13=0-3-8       TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15)         Max Horiz       13=249 (LC 14)       DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully         Max Grav       8-895 (LC 44), 13=1062 (LC 44)       Lubalanced snow loads have been considered for this												
FORCES TOP CHORD	(lb) - Maximum Com Tension 2-13=-1052/266, 1-2 3-4=-941/203, 4-5=-	pression/Maximum 2=0/116, 2-3=-1210/29 557/188, 5-6942/19/	5)	design. This truss ha load of 12.0	show loads have be s been designed for psf or 2.00 times fla	r great	er of min roof bad of 13.9 ps	live sf on					
BOT CHORD	6-7=-1180/166, 7-8= 12-13=-371/316, 11- 10-11=-87/445, 9-10	948/124 -12=-259/797, )=-141/793, 8-9=-75/82	-, 6) 7) 2	Provide adec * This truss h	quate drainage to p has been designed n chord in all areas	for a liv	vater ponding e load of 20.0 a rectangle	g. Opsf					
WEBS	2-12=-61/767, 3-12= 3-11=-426/238, 4-11 5-10=-61/317, 6-10= 7-9=-112/773	=-210/281,  =-79/316, 4-10=-105/ <sup>,</sup> =-420/175, 6-9=0/89,	112, 8) 9)	3-06-00 tall b chord and ar All bearings a Bearing at jo	by 2-00-00 wide will by other members. are assumed to be int(s) 8, 13 conside	fit betv SP No.	veen the botto 2 . Ilel to grain va	om alue			Juni .	ORTH CA	ROLLIN
NOTES			,	using ANSI/1	PI 1 angle to grain	formula	a. Building			-		ig 11.	March
1) Unbalance	ed roof live loads have	been considered for	10)	designer sho	uld verify capacity	of bear	ng surface.			3		· /	11 1

this design.

designer should verify capacity of bearing surface.10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	G1	Piggyback Base Structural Gable	2	1	Job Reference (optional)	174009687

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:11 ID:6DSSYe0nSc?TUel9RSyL6dzPuSG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



## Scale = 1:72.6 Plate Offsets (X, Y): [7:0-2-5,Edge], [9:0-2-5,Edge]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/1	90
Snow (Pf/Pg)	1	8.9/20.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	n/a	-	n/a	999			
TCDL		10.0	Rep Stress Incr	YES		WB	0.27	Horz(CT)	-0.01	16	n/a	n/a			
BCLL		0.0*	Code	IRC20	21/TPI2014	Matrix-MR									
BCDL		10.0											Weight: 143	lb FT = 2	20%
LUMBER					BOT CHORD	25-26=-263/230, 24	1-25=-1-	43/126,		10) Tru	uss to be	fully s	heathed from o	one face o	r securely
TOP CHORD	2x4 SP N	lo.2				23-24=-143/126, 2	2-23=-1	43/126,		bra	aced agai	inst lat	teral movemen	t (i.e. diag	onal web).
BOT CHORD	2x4 SP N	lo.2				21-22=-143/126, 2	)-21=-1	43/126,		11) Ga	ble stude	s spac	ed at 2-0-0 oc.		
WEBS	2x4 SP N	lo.3				19-20=-143/126, 18	3-19=-1	43/126,		12) * T	his truss	has b	een designed f	or a live lo	ad of 20.0psf
OTHERS	2x4 SP N	lo.3				17-18=-143/126, 1	6-17=-1	97/169		on	the botto	m cho	ord in all areas	where a re	ectangle
BRACING				1	NEBS	8-21=-223/24, 6-22	=-195/8	2, 5-23=-304	1/175,	3-0	)6-00 tall	by 2-0	00-00 wide will	fit between	n the bottom
TOP CHORD	Structura	I wood she	athing directly applie	ed or		4-24=-303/192, 3-2	6=-577	/595,		ch	ord and a	iny oth	ner members.		
	6-0-0 oc	purlins, exc	cept end verticals, ar	nd		10-20=-192/81, 11-	19=-30	4/174,		13) All	bearings	are a	ssumed to be	SP No.2 .	
	2-0-0 oc	purlins (10-	0-0 max.): 7-9.			12-18=-302/186, 13	3-16=-5	52/570		14) Pro	ovide me	chanic	al connection	(by others)	) of truss to
BOT CHORD	Rigid ceil	ling directly	applied or 6-0-0 oc	I	NOTES					be	aring plat	te capa	able of withstai	nding 357	Ib uplift at joint
	bracing.				<ol> <li>Unbalanced</li> </ol>	roof live loads hav	e been o	considered for	or	26	, 307 lb u	plift at	i joint 25, 19 lb	uplift at joi	Int 17, 119 lb
REACTIONS	(size)	16=16-11	-0, 17=16-11-0,		this design.					up 24	ant at join	[ 10, 0	2 ID UPIIIT at joi	11(23,75)	b upint at joint
		18=16-11	-0, 19=16-11-0,	2	2) Wind: ASCE	7-16; Vult=130mp	h (3-sec	cond gust)	<b>•</b> •	24	, oz ib up	nin ar j	onit 19 and 75	ib upint at	JUITE TO.
		20=16-11	-0, 21=16-11-0,		Vasd=103m	ph; TCDL=6.0psf; E	SCDL=6	.0pst; n=25tt	; Cat.	15) Be	veled nla	te or s	him required to	o provide f	full bearing
		22=16-11	-0, 23=16-11-0,		II; EXP B; Er		nvelope	) and U-U	<b>7</b>	su	face with	n truss	chord at joint(	s) 25 17 (	21 22 23 24
		24=16-11	-0, 25=16-11-0,		Exterior(2E)	-1-9-11 10 1-2-5, II 6-9-7 to 10-1-9 Ex	terior(2	) 1-2-5 10 6-3 P) 10-1-9 to	9-7,	20	. 19. 18.		onora at joint(	, 20,, 2	_ ,,,, _ ,
		26=16-11	-0		1/1-5-8 Inter	$10^{-3-7}$ 10 $10^{-1-3}$ , L7	.8.11 70	ne: cantileve	or loft	16) Gr	aphical p	urlin re	epresentation of	does not d	epict the size
	Max Horiz	26=266 (L	_C 14)		and right ex	osed · end vertical	left and	right expose	-d·C-	or	the orien	tation	of the purlin ale	ong the tor	o and/or
	Max Uplift	16=-119 (	LC 15), 17=-19 (LC 1	11),	C for memb	ers and forces & M	NFRS f	or reactions	50,0	bo	ttom choi	rd.	•	0 1	
		18=-73 (L	C 16), 19=-82 (LC 10 C 15), 24, 75 (LC 10	6),	shown: Lum	ber DOL=1.60 plate	arip D	OL=1.33		LOAD	CASE(S	) Sta	indard		
		23=-02 (L	LC 14), 24=-75 (LC 1;	5), 11)	, -		51				•	•		IIIII.	
	Max Grav	20=-307 (	(LC 14), 20 = -357 (LC 14), 17 = 57 (LC 14)	2) .	<ol> <li>Truss design</li> </ol>	ned for wind loads i	n the pla	ane of the tru	ISS				" u C	AD.	11,
		18-210 (L	C 44), 17=37 (LC 12	2), 44)	only. For st	uds exposed to win	d (norm	al to the face	e),				"ath	00	The second
		20=224 (I	C = 60, $21 = 263$ (LC 4	43)	see Standar	d Industry Gable E	nd Deta	ils as applica	ble,			S.	OFFS	Sin	AN CONTRACT
		22=224 (L	C 62), 23=260 (LC 4	44).	or consult q	ualified building des	igner a	s per ANSI/T	PI 1.			33	STOP 3	1 AC	7.5
		24=220 (L	.C 56), 25=337 (LC <sup>2</sup>	13). '	<ol> <li>TCLL: ASCE</li> </ol>	E 7-16; Pr=20.0 psf	(roof LL	.: Lum DOL=	1.15			8 1	:0		
		26=525 (L	-C 58)	- //	Plate DOL=	1.15); Pg=20.0 psf;	Pf=18.9	) psf (Lum					(A)	5 67 54 6 67 54	1. 2
FORCES	(lb) - Max	kimum Com	pression/Maximum		DOL=1.15 F	late DOL=1.15); Is	=1.0; Ro	ough Cat B; F	Fully				: SE	.AL	: =
	Tension				Exp.; Ce=0.	9; Cs=1.00; Ct=1.1	), Lu=5(	0-0-0				:	022	504	: z
TOP CHORD	2-26=-57	0/442, 1-2=	0/116, 2-3=-343/364	4, '	<ul> <li>Unbalanced</li> </ul>	snow loads have b	een cor	isidered for t	his				025	594	- <u>-</u>
	3-4=-202	/230, 4-5=-2	201/267, 5-6=-320/4	03, ,	aesign.	a haan daalarad f	or arost	or of min root	live				<b>N</b>		1 E -
	6-7=-218	/246, 7-8=-2	234/295, 8-9=-234/2	95, '	load of 12.0	not or 2 00 times f	n great		of on			-	. A.	a	1. 8
	9-10=-21	8/246, 10-1	1=-319/399,		overbance n	psi or 2.00 times the	other liv	au ui i s.9 p /e loads	51 011			11	A NGI	NEE	83
	11-12=-2	02/270, 12-	13=-192/221,	-		quate drainage to r	revent	vater nondin	a			1	An	1.1	YN
	13-14=-3	33/359, 14-	15=0/116,	و	<ol> <li>All plates and</li> </ol>	a 2x4 MT20 unlage	otherwi	se indicated	9.				THE R	MIL	
	14-16=-5	58/434		( (	Gable requir	es continuous bott	om chor	d bearing					- min	mini	

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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.sbcaccomponents.com)

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	G5	Piggyback Base Girder	1	2	Job Reference (optional)	174009688

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:12 ID:PqvXarJqo\_13MK8mrUNz5gzPuRu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:70.1

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.38 0.74 0.53	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.10 0.08	(loc) 12-13 12-13 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 302 I	<b>GRIP</b> 244/190 b FT = 20	%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Structural wood shea 5-7-9 oc purlins, exu 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, Except:	athing directly applied cept end verticals, an -0 max.): 4-5, 6-7. applied or 10-0-0 oc	2) <sub>d or</sub> 3) <sup>ld</sup> 4)	All loads are except if note CASE(S) sec provided to d unless other Unbalanced this design. Wind: ASCE Vasd=103mp II; Exp B; End	considered equally ad as front (F) or ba titon. Ply to ply con istribute only loads vise indicated. roof live loads have 7-16; Vult=130mpl bh; TCDL=6.0psf; E closed; MWFRS (e	/ applied ack (B) inection is noted is been of b (3-sec BCDL=6 invelope	d to all plies, face in the LC s have been as (F) or (B), considered fo cond gust) 0.0psf; h=25ft; e); cantilever l	DAD r ; Cat. left	14) Har prov Ib d 6-0- Ib d Ib d sele resp <b>LOAD (</b> 1) De	nger(s) c vided su own at -0, 909 I own at own at ection of consibili <b>CASE(S</b> ead + Sr	or othe fficient 2-0-0, b down 12-0-0 16-0-0 such o such o ty of ot ) Sta now (ba	r connection de t to support con 909 lb down at n at 8-0-0, 909 l, and 909 lb do l on bottom cho connection devi ihers. ndard alanced): Lumb	vice(s) shal centrated lo 4-0-0, 909 lb down at wn at 14-0- rd. The des ce(s) is the er Increase	be ad(s) 909 lb down at 10-0-0, 909 0, and 915 ign/ =1.15, Plate
	6-0-0 oc bracing: 13 (size) 8= Mecha Max Horiz 14=246 (L Max Grav 8=4529 (L (lb) - Maximum Com Tension	-14. Inical, 14=0-3-8 LC 60) LC 3), 14=3992 (LC 3 Ipression/Maximum	5) 6)	and right exp Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 Unbalanced	osed ; end vertical =1.60 plate grip D0 7-16; Pr=20.0 psf .15); Pg=20.0 psf; ate DOL=1.15); Is- ; Cs=1.00; Ct=1.10 snow loads have b	left and DL=1.33 (roof LL Pf=18.9 =1.0; Ro 0, Lu=50 een cor	I right expose L: Lum DOL= <sup>2</sup> psf (Lum bugh Cat B; F D-0-0 nsidered for th	ed; 1.15 Tully nis	Ur Cc	crease= hiform Lo Vert: 1-2 13-14=- oncentra Vert: 10 (F), 22=	1.15 Dads (I 2=-48, 20, 8-2 ted Lo =-737 (-737 (I	b/ft) 2-4=-48, 4-5=- 13=-20 ads (lb) (F), 9=-737 (F) F), 23=-737 (F)	58, 5-6=-48, , 19=-737 (F , 24=-737 (F	6-7=-58, -), 21=-737 -), 25=-743
BOT CHORD	2-143673/0, 1-2-0 3-4=-3574/0, 4-5=-2 3-7=-63/12, 7-8=-14 13-14=-365/763, 2-1 10-12=0/2215, 9-10= 3-13=0/1635, 3-12=- 4-10=-114/102, 5-10	9710, 2-3=-30080, 197/0, 5-6=-3572/0, 8/12 3=0/3256, 12-13=0/3 =0/3055, 8-9=0/2982 -1306/0, 4-12=0/2505 →0/2515, 6-101040	7) 3349, 8) 9) 5, 2/0	design. This truss ha load of 12.0 p overhangs no Provide adeo * This truss h on the bottom	s been designed for osf or 2.00 times fla on-concurrent with juate drainage to p as been designed n chord in all areas	or greate at roof le other liv revent v for a liv s where	er of min roof bad of 13.9 ps ve loads. water ponding e load of 20.0 a rectangle	live sf on g. )psf		(F)		TH C	ARO	197.
NOTES 1) 2-ply truss (0.131"x3" Top chord: oc. Bottom chi staggered Web conne	to be connected togef ) nails as follows: s connected as follows ords connected as follows at 0-5-0 oc. ected as follows: 2x4 -	(12/0 (12/0 (12/0 (12/0 (10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	10 11 12 ) 13	3-06-00 tail to chord and ar )) Bearings are )) Refer to gird( 2) Bearing at jo using ANSI/T designer sho 8) Graphical pu or the orienta bottom chord	y 2-00-00 wide wil y other members. assumed to be: Jo er(s) for truss to tru- int(s) 14 considers 'PI 1 angle to grain uld verify capacity rlin representation tion of the purlin a	I fit betw bint 14 \$ iss conr parallel formula of beari does no long the	veen the botto SP No.2 . lections. to grain value a. Building ng surface. ot depict the s top and/or	e size			in the second se	SE 023	AL 594 MILL MILL MILL MILL	A.1. 25

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	G4	Piggyback Base Girder	1	2	Job Reference (optional)	174009689

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:12 ID:PqvXarJqo\_13MK8mrUNz5gzPuRu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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									-	-				
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 18.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC202	1/TPI2014	CSI TC BC WB Matrix-MSH	0.45 0.86 0.74	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.14 0.11	(loc) 12-13 12-13 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL	10.0	0000										Weight: 302 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Structural wood shea 4-9-5 oc purlins, exc 2-0-0 oc purlins (6-0- Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 13- (size) 8= Mecha	athing directly applie sept end verticals, ar 0 max.): 4-5, 6-7. applied or 10-0-0 oc 14. nical, 14=0-3-8	2) d or 3) nd 4)	All loads are except if note CASE(S) see provided to d unless othern Unbalanced this design. Wind: ASCE Vasd=103mp II; Exp B; End and right exp Lumber DOL TCI L: ASCE	considered equall ad as front (F) or b titon. Ply to ply col listribute only load wise indicated. roof live loads hav 7-16; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS ( oosed ; end vertica =1.60 plate grip D 7-16: Pr=20 0 psi	ly applied ack (B) innection is noted in re been of bh (3-sec BCDL=6 enveloped il left and OL=1.33 f (roof IL	d to all plies, ace in the LC s have been as (F) or (B), considered for cond gust) .0psf; h=25ft or cantilever d right expose t um DOL =	DAD or ; Cat. left ed; 1 15	14) Har prov lb d at 7 11-5 con LOAD C 1) De Inc Ur	nger(s) o vided su own at 3 7-6-4, 12 5-12, and 9-0 on b nection o <b>CASE(S)</b> ead + Sn crease= iiform Lo Vert: 1-2	r other fficient 3-6-4, 239 lb d d 777 l ottom d device ) Star ow (ba 1.15 bads (ll 2=-48,	r connection dev t to support conc 1239 lb down at down at 9-9-4, 1 lb down at 12-9- chord. The desig (s) is the respon- ndard alanced): Lumbe b/ft) 2-4=-48, 4-5=-56	ce(s) shall be entrated load(s 5-6-4, 1239 lb 070 lb down at 0, and 777 lb c in/selection of sibility of other r Increase=1.1 3, 5-6=-48, 6-7	s) 1239 o down t down at such s. 5, Plate 2=-58,
FORCES	Max Horiz 14=246 (L Max Grav 8=4651 (L (Ib) - Maximum Com Tension	C 8) C 25), 14=5397 (LC pression/Maximum	3)	Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 Unbalanced	.15); Pg=20.0 psf; late DOL=1.15); ls b; Cs=1.00; Ct=1.1 snow loads have b	; Pf=18.9 =1.0; Rc 0, Lu=50 peen cor	) psf (Lum bugh Cat B; F )-0-0 hsidered for th	Fully his	Co	13-14=- oncentra Vert: 19 22=-937	20, 8-1 ted Los =-957 7 (B), 2	13=-20 ads (lb) (B), 20=-937 (B) 23=-937 (B), 24=∘	, 21=-937 (B), 809 (B), 25=-€	627 (B),
TOP CHORD BOT CHORD	2-14=-5480/0, 1-2=0 3-4=-4587/0, 4-5=-27 6-7=-62/11, 7-8=-15 13-14=-333/281, 2-1 10-12=0/2903, 9-10=	/116, 2-3=-6717/0, 789/0, 5-6=-4544/0, 1/9 3=0/4346, 12-13=0/4 :0/3618, 8-9=0/3549	-, 7) 4472, 8)	design. This truss ha load of 12.0 p overhangs no Provide adeo	s been designed f osf or 2.00 times fl on-concurrent with quate drainage to p	for greate lat roof le o other liv prevent v	er of min roof bad of 13.9 p ve loads. water ponding	live sf on g.		20=-027	(В)			
WEBS	3-13=0/2360, 3-12=- 4-10=-205/44, 5-10= 6-9=0/1395, 6-8=-56	1784/0, 4-12=0/3417 0/3294, 6-10=-993/0 13/0	9) 7, ),	* This truss h on the botton 3-06-00 tall b chord and an	nas been designed n chord in all area by 2-00-00 wide wi by other members.	l for a liv s where ill fit betv	e load of 20.0 a rectangle veen the botto	Opsf om			10	OPTH CA	RO	
NOTES 1) 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn	to be connected toget ) nails as follows: s connected as follows ords connected as follow at 0-7-0 oc. ected as follows: 2x4 -	her with 10d : 2x4 - 1 row at 0-9-0 ws: 2x6 - 2 rows 1 row at 0-9-0 oc.	10 11 12 0 13	<ul> <li>b) Bearings are</li> <li>c) Refer to girdk</li> <li>c) Bearing at jo</li> <li>using ANSI/I</li> <li>designer sho</li> <li>c) Graphical pu</li> <li>or the orienta</li> <li>bottom chord</li> </ul>	assumed to be: J er(s) for truss to tri int(s) 14 considers PI 1 angle to grain uld verify capacity rlin representation ation of the purlin a I.	oint 14 S uss conr s parallel n formula of beari a does no along the	SP No.2 . lections. to grain valua a. Building ng surface. t depict the s top and/or	e size		Contraction of the second s		SEA 0235 NGIN NY R.	L 94 EER. ER.	humanning

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818 Soundside Road Edenton, NC 27932

June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	G3	Piggyback Base	2	1	Job Reference (optional)	174009690

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:11 ID:AqKh7y?Ww?IIEL9mK1wt1CzPuSI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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## Plate Offsets (X, Y): [4:0-2-11,Edge], [5:0-2-11,Edge], [6:0-4-4,0-2-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2027	1/TPI2014	CSI TC BC WB Matrix-MSH	0.81 0.30 0.28	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.06 0.04	(loc) 10-11 8-9 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 129 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 3-1-0 oc purlins, exo 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 11 1 Row at midpt (size) 8= Mecha Max Horiz 12=233 (L Max Grav 8=810 (LC	athing directly applied cept end verticals, an -0 max.): 4-5, 6-7. applied or 10-0-0 oc -12. 4-9 nical, 12=0-3-8 .C 12) C 46), 12=1045 (LC 4	2) d or d 3) (6) 4)	Wind: ASCE Vasd=103mp II; Exp B; En Exterior(2R) Exterior(2R) 16-5-12 zone vertical left a forces & MW DOL=1.60 pl TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.5 Unbalanced design.	7-16; Vult=130mpl bh; TCDL=6.0psf; E closed; MWFRS (e -1-9-11 to 1-2-5, In 6-9-7 to 9-9-7, Inte 10-1-9 to 13-1-9, In e; cantilever left and nd right exposed;C /FRS for reactions : ate grip DOL=1.33 7-16; Pr=20.0 psf; late DOL=1.15); Is- b; Cs=1.00; Ct=1.10 snow loads have b	h (3-sec 3CDL=6 invelope terior (1) interior (1) hterior (1) c for n shown; (roof LL Pf=18.9 =1.0; Rc 0, Lu=50 een cor	cond gust) .0psf; h=25ft and C-C ) 1-2-5 to 6-5 9-9-7 to 10-1 1) 13-1-9 to :xposed ; enc nembers and Lumber .: Lum DOL= 0 psf (Lum ough Cat B; F 0-0-0 nsidered for t	;; Cat. 9-7, -9, d t ∙1.15 ∓ully his						
FORCES	(lb) - Maximum Com Tension 2-12=-1048/269, 1-2 3-4=-911/196, 4-5=-5	pression/Maximum 2=0/116, 2-3=-1171/3 542/182, 5-6=-914/14	5) 00, 46, 6)	This truss ha load of 12.0 overhangs no Provide adeo	is been designed for psf or 2.00 times fla on-concurrent with quate drainage to p	or great at roof lo other liv revent	er of min root bad of 13.9 p ve loads. water pondin	f live osf on g.						
BOT CHORD	0-7=-46/0, 7-8=-126/ 11-12=-317/293, 10-	-219 -11=-230/785, 161/724	7) 8)	The Fabricat * This truss h	ion Tolerance at jo has been designed	for a liv	e load of 20.	0psf					un.	
WEBS	2-11=-65/753, 3-11= 4-10=-92/308, 4-9=- 6-9=-346/204, 6-8=-	-191/266, 3-10=-433 103/127, 5-9=-28/205 1258/308	5, 9)	on the botton 3-06-00 tall b chord and an Bearings are	n chord in all areas by 2-00-00 wide wil ny other members.	s where I fit betv	a rectangle veen the bott	om			ALL Y	OT SS	ROIN	ĺ
NOTES 1) Unbalance this desigr	ed roof live loads have	been considered for	10 11 12	<ul> <li>Refer to gird.</li> <li>Refer to gird.</li> <li>Bearing at jo using ANSI/T designer sho</li> <li>Graphical pu or the orienta bottom chorc</li> <li>DAD CASE(S)</li> </ul>	re(s) for truss to tru int(s) 12 considers IPI 1 angle to grain uld verify capacity rlin representation ation of the purlin a J. Standard	of bear does no long the	a rections. to grain valu a. Building ng surface. of depict the top and/or	ue size		. Vannar		SEA 0235	54 EFR. ER	American

Scale = 1:70.1

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Thuman June 6,2025

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 PCB Building Component Science Michael Component Advancement description (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	Overhills-Roof-CL-20-020	
25040114-01	VL3	Valley	1	1	Job Reference (optional)	174009691

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16

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GRIP

244/190

FT = 20%



FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-173/222, 2-3=-115/135, 3-4=-115/126, 4-5=-174/221

bracing.

- BOT CHORD 1-8=-161/175, 7-8=-161/175, 6-7=-161/175, 5-6=-161/175 WEBS 3-7=-244/0 2-8=-444/306 4-6=-443/306
- NOTES

Scale = 1:57.7 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

**REACTIONS** (size)

WEBS

Snow (Pf/Pg)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-0-0, Corner (3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 15-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard







Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	C7	Piggyback Base Girder	1	2	Job Reference (optional)	174009692

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:10 ID:ZBESt0bSmmd96Vbb5fpa3hzPdCw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



## Scale = 1:66.9

Plate Offsets	s (X,	Y):	[3:0-4-4	,0-1-0]	
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 NO IRC2021	1/TPI2014	CSI TC BC WB Matrix-MSH	0.48 0.22 0.16	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.00	(loc) 8-9 8-9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 333 lb	<b>GRIP</b> 244/190 FT = 20	) )%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 *Excep Structural wood shea 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 6=0-3-8, 1 Max Horiz 10=-280 ( Max Uplift 6=-214 (L Max Grav 6=1979 (L (b) Maximum Com	t* 9-1,9-3:2x4 SP No athing directly applie cept end verticals, ar -0 max.): 1-3. applied or 10-0-0 oc 1-10 10=0-3-8 LC 7) C 10), 10=-333 (LC 5 C 22), 10=1921 (LC pression/Maximum	2) 0.2 d or 3) 10 5) 5) 5) 6)	All loads are except if note CASE(S) sec provided to d unless otherv Wind: ASCE Vasd=103mp II; Exp B; End and right exp Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 Provide aded * This truss h	considered equally ad as front (F) or ba- btion. Ply to ply con listribute only loads wise indicated. 7-16; Vult=130mpl bh; TCDL=6.0psf; E closed; MWFRS (e osed ; end vertical =1.60 plate grip DC 7-16; Pr=20.0 psf; ate DDL=1.15); Is= t; Cs=1.00; Ct=1.10 juate drainage to p as been designed	y applied ack (B) i inection is noted i h (3-sec 3CDL=6 invelope left and OL=1.33 (roof LL Pf=18.9 =1.0; Rc 0, Lu=50 vrevent v for a liv	t to all plies, ace in the L s have been as (F) or (B) .0psf; h=25f .); cantilever I right expos : Lum DOL= psf (Lum ugh Cat B;   )-0-0 vater pondir e load of 20.	OAD t; Cat. left ed; =1.15 Fully g. .0psf		Vert: 7= (B), 15=	-205 (I	B), 11=-211 (B), B), 16=-205 (B),	13=-205 (E 17=-205 (E	3), 14=-205 B)
TOP CHORD	Tension 1-10=-1630/301, 1-2 2-3=-691/155, 3-4=- 4-5=-1418/180, 5-6=	2=-691/155, 1280/243, 1710/186	7) 8)	3-06-00 tall b chord and an All bearings a Provide mech	y 2-00-00 wide will by other members, are assumed to be hanical connection	l fit betv with BC SP No. (by oth	veen the bot DL = 10.0ps 2 . ers) of truss	tom sf. to						
BOT CHORD	9-10=-167/225, 8-9= 6-7=-18/36	-140/806, 7-8=-123/	899,	bearing plate	capable of withsta	anding 3	33 lb uplift a	at joint				minin	11111	
WEBS	1-9=-315/1697, 2-9= 3-8=-218/1069, 4-8= 5-7=-133/1055	283/87, 3-9=-332/13 303/155, 4-7=-67/23	32, 9) 26,	Graphical pu or the orienta	rlin representation ation of the purlin al	does no long the	t depict the top and/or	size			and a	ORTH C	ROL	Nor.
NOTES 1) 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn	to be connected toget ) nails as follows: s connected as follows ords connected as follows at 0-9-0 oc. ected as follows: 2x4 -	ther with 10d s: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows 1 row at 0-9-0 oc.	10 0 11 LC 1)	<ul> <li>Use Simpsor Truss, Single oc max. start connect truss</li> <li>Fill all nail ho DAD CASE(S)</li> <li>Dead + Snc Increase=1.</li> <li>Uniform Loa Vert: 1-3: Concentrate</li> </ul>	n Strong-Tie LUS26 Ply Girder) or equing at 1-10-8 from s(es) to back face c les where hanger i Standard ww (balanced): Lum 15 ads (lb/ft) =-56, 3-5=-46, 6-10 ed Loads (lb)	6 (4-10c iivalent the left of bottor is in cor aber Inc D=-19	Girder, 3-10 spaced at 2- end to 13-10 n chord. tact with lun rease=1.15,	0d 0-0 0-8 to nber. Plate				SEA 0235 ONY R.	L 594 EEF. MILLE ne 6,202	¢

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	Q1	Roof Special Supported Gable	2	1	Job Reference (optional)	174009693

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16 ID:?VuVYcyHgefnu8FOVA3XIYzPa?A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:82.4

Plate Offsets	(X,	Y):	[9:Edge,0-1-8]
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				-										
Loading		(psf)	Spacing	1-11-4		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	1:	3.9/20.0	Lumber DOL	1.15		BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.47	Horiz(TL)	-0.01	9	n/a	n/a		
BCLL		0.0*	Code	IRC20	21/TPI2014	Matrix-MSH		. ,						
BCDL		10.0											Weight: 140 lb	FT = 20%
						5 12- 102/122 / 1	5- 200	/167		11) Roy		to or o	him required to p	rovido full booring
		~ 2				B-16208/153 2-1	7188	/162		II) Dev	ace with	truce	chord at joint(s)	13 12 11 10
	2X4 SP N	0.2				S-12828/605 7-1	1200	/102,				Cto	chord at joint(3) a	, 13, 12, 11, 10.
	2X4 SP N	0.2			5	3-10=-208/197	1-200	127,		LUAD	ASE(S)	Sla	nuaru	
OTHERS	2X4 SP N	0.3 o 2 *Evoor	+* 12 5 12 6.2.4 60	No 2		200,101								
OTHERS	284 SP IN	0.5 Excep	1 13-3,12-0.284 3P	N0.2		an af Bara Iana da Iana a								
BRACING	<u>.</u>				) Unbalanced	root live loads have	been	considered fo	or					
TOP CHORD	Structura	I wood she	athing directly applie	d or	Inis design.	7 40. 1/114 420 mm	. (2							
	6-0-0 oc p	ourlins, exe	cept end verticals.	4	() Wind: ASCE	7-16; Vuit=130mpr		cona gust)	Cot					
BOT CHORD	Rigia cell	ing directly	applied or 6-0-0 oc		Vasu=10311	closed: MW/EPS (o		0.0psi, n=25ii	, Gal.					
WERE	1 Pow of	midnt	E 10 / 1E E 10		(3E) 0-1-12 t	o 3-0-1 Exterior(2)		to 8-11-15	Uniei					
WEDO	I ROW at	mupt	5-15, 4-15, 6-12		Corner(3R) 8	2-11-15 to 11-11-15	Evter	or(2N) 11-11	-15 to					
REACTIONS	(size)	9=14-0-8,	10=14-0-8, 11=14-0	)-8,	14-0-8 zone	cantilever left and	right ex	nosed · end	10 10					
		12=14-0-8	3, 13=14-0-8, 14=14	-0-8,	vertical left a	nd right exposed C	-C for r	nembers and						
	15=14-0-8, 16=14-0-8, 17=14-0-8, 1					FRS for reactions	shown:	Lumber						
	Max Hariz	10=14-0-0	C 10)		DOL=1.60 pl	ate grip DOL=1.33	,							
	Max Liplift	10=244 (L		12)	<ol> <li>Truss design</li> </ol>	ed for wind loads in	h the pl	ane of the tru	ISS					
	wax upiin	9=-365 (L	C = 10, $10 = -113$ (LC	13),	only. For stu	ids exposed to wind	d (norm	al to the face	e),					
		13-02 (L	C(13) 14 = 282 (IC)	11),	see Standard	d Industry Gable Er	nd Deta	ils as applica	ble,					
		15=-52 (L 1577 (L	C 13), 14=-202 (LC 1)	3)	or consult qu	alified building des	igner a	s per ANSI/T	PI 1.					
		17=-107 (	LC 13) 18=-6 (LC 1	1) <sup>4</sup>	I) TCLL: ASCE	7-16; Pr=20.0 psf	(roof Ll	.: Lum DOL=	1.15					
	Max Grav	9=358 (LC	C 11), 10=180 (LC 28	8).	Plate DOL=1	.15); Pg=20.0 psf;	Pf=13.9	9 psf (Lum					minin	1111
		11=204 (L	C 29). 12=472 (LC	- <i>),</i> 13).	DOL=1.15 P	late DOL=1.15); Is=	=1.0; Ro	ough Cat B; F	Fully			03	IN'L H CA	ROUL
		13=217 (L	.C 28), 14=295 (LC	10).	Exp.; Ce=0.9	); Cs=1.00; Ct=1.10	)					1	a	
		15=180 (L	.C 28), 16=181 (LC 2	28), '	<ol><li>All plates are</li></ol>	2x4 MT20 unless	otherwi	se indicated.				S.	OFFESS	IQ: A S
		17=183 (L	C 28), 18=67 (LC 13	3)	<ol> <li>Gable requir</li> </ol>	es continuous botto	m choi	d bearing.			1	:5		Dist 1 -
FORCES	(lb) - Max	imum Com	pression/Maximum	·	<ol> <li>Gable studs</li> <li>* This trues h</li> </ol>	spaced at 2-0-0 oc	for a liv	a load of 20	Onof		3		2	
	Tension				on the better	n chord in all areas	whore	e loau of 20.	opsi		=		CEA	1 1 1
TOP CHORD	1-18=-87/	/98, 1-2=-1	01/132, 2-3=-177/22	20,	3-06-00 tall k	v 2.00.00 wide will	fit boty	a reclarigie	om		=	:	SEA	- : :
	3-4=-285/	/352, 4-5=-/	400/494, 5-6=-485/5	i99,	chord and ar	y other members	in ben	veen the bott	UIII		=	:	0235	94 : =
	6-7=-487/	601, 7-8=-	399/495, 8-9=-291/3	، <sup>47</sup>	<ol> <li>All bearings</li> </ol>	are assumed to be	SP No	2						1 2
BOT CHORD	17-18=-22	21/193, 16-	17=-221/193,		0) Provide mec	hanical connection	(by oth	ers) of truss	to					1 1 2
	15-16=-22	21/193, 14-	15=-221/193,		bearing plate	capable of withsta	ndina 6	b uplift at ic	oint			2	X. EN.	eftin S
	13-14=-38	83/359, 12-	13=-350/312,		18, 282 lb ur	lift at joint 14, 365	b uplift	at joint 9, 92	lb.			11	GIN	1 1 1 N
	11-12=-350/311, 10-11=-356/315, uplift at joir					13, 77 lb uplift at jo	int 15.	69 lb uplift at	joint			1	WY -	all bene
	9-10=-29	1/200			16, 107 lb up	lift at joint 17, 247	b uplift	at joint 12, 5	9 lb				11. R. I	VIIII
					uplift at joint	11 and 113 lb uplift	at join	10.					- minin	m.

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020					
25040114-01	PB7	Piggyback	1	4	Job Reference (optional)	174009694				

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:15 ID:Oi0WQ4UNSs\_7TGkYEZJYjdzPZxv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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					1		11-0	-9			1				
Scale = 1:50.1											7				
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	1	3.9/20.0	Lumber DOL	1.15		BC	0.04	Vert(TL)	n/a	-	n/a	999			
TCDL		10.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	7	n/a	n/a			
BCLL		0.0*	Code	IRC20	21/TPI2014	Matrix-MSH									
BCDL		10.0											Weight: 233 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING	2x4 SP N 2x4 SP N 2x4 SP N	lo.2 lo.2 lo.3		:	<ul> <li>B) Unbalanced this design.</li> <li>4) Wind: ASCE Vasd=103m II; Exp B; Er</li> </ul>	roof live loads ha 7-16; Vult=130m ph; TCDL=6.0psf iclosed; MWFRS	ave been o nph (3-sec f; BCDL=6 (envelope	considered fo cond gust) .0psf; h=25ft e) and C-C Co	r ; Cat. orner						
TOP CHORD	Structura	l wood she	athing directly applied	d or	(3E) 0-2-7 to (3R) 6-0-8 to	3-2-7, Exterior(2 9-0-8, Exterior(2	2N) 3-2-7 1 2N) 9-0-8 1	o 6-0-8, Corr to 11-10-9 zo	ner me;						
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 oc		cantilever le right expose	ft and right expos d;C-C for membe	sed ; end vers and for	rertical left an ces & MWFF	nd RS						
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=12-1-0, 7=12-1-0, 10=12-1-1 1=-134 (L 1=-102 (L 7=-26 (LC 10=-149 ( 1=150 (L (LC 29), 8 29), 10=4	2=12-1-0, 6=12-1-0, 8=12-1-0, 9=12-1-0, C 11) C 9), 2=-22 (LC 24), C 12), 8=-124 (LC 14) LC 13) C 30), 2=89 (LC 14), =397 (LC 30), 9=327 15 (LC 29)	, 7=92 7 (LC	<ul> <li>b) Truss design only. For st see Standar or consult qu</li> <li>c) TCLL: ASCE Plate DOL=: DOL=1.15 F</li> <li>Exp.; Ce=0.1</li> </ul>	ed for wind load: uds exposed to w d Industry Gable ualified building 4 7-16; Pr=20.0 p 1.15); Pg=20.0 ps late DOL=1.15); 9; Cs=1.00; Ct=1.	s in the pla vind (norm End Deta lesigner as sf (roof LL sf; Pf=13.9 Is=1.0; Ro	ane of the tru al to the face ils as applica s per ANSI/TI .: Lum DOL= 0 psf (Lum ough Cat B; F	ss ), ble, PI 1. 1.15 Fully						
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum	1	<ul> <li>Gable requil</li> <li>Gable studs</li> <li>* This trues</li> </ul>	spaced at 4-0-0	ottom chor oc.	d bearing.	Oraf						
TOP CHORD	1-2=-194 4-5=-207	/172, 2-3=- /126, 5-6=-	166/141, 3-4=-208/12 157/121, 6-7=-73/37	26,	on the botto	mas been designed m chord in all are	ed for a liv eas where will fit betw	a rectangle	om					111.	
BOT CHORD	2-10=-69 6-8=-79/1	/114, 9-10= I26	-69/114, 8-9=-69/114	4,	chord and a 0) All bearings	ny other members are assumed to b	s, with BC	DL = 10.0pst 2 .	f.			S.	TH CA	ROUT	
WEBS	4-9=-126	/0, 3-10=-4	11/322, 5-8=-402/308	8.	1) Bearing at jo	oint(s) 2, 6, 1, 7, 2	2 consider	s parallel to g	grain			×	FESS	BA NI	12
NOTES					value using	ANSI/TPI 1 angle	e to grain f	ormula. Buil	ding			SX.	Carl I	with	
<ol> <li>4-ply truss Top chord follows: 22 Bottom ch follows: 22</li> <li>All loads a except ifr CASE(S)</li> </ol>	s to be conn ds connecte x4 - 1 row a hords conne x4 - 1 row a are consider hoted as from section. Ply	ected toge d with 10d t 0-9-0 oc. cted with 1 t 0-9-0 oc. red equally nt (F) or bar to ply conr	ther as follows: (0.131"x3") nails as 0d (0.131"x3") nails a applied to all plies, ck (B) face in the LO/ nections have been	as AD	<ul> <li>designer sho</li> <li>Provide mec</li> <li>bearing plate</li> <li>2, 102 lb upl</li> <li>at joint 10, 1</li> <li>2.</li> <li>See Standaa</li> <li>Detail for Co</li> <li>consult function</li> </ul>	buld verify capaci chanical connection e capable of withs iff at joint 1, 26 lb 24 lb uplift at join rd Industry Piggyt nonection to base	ity of beari on (by oth standing 2 o uplift at jo tt 8 and 22 back Truss truss as a	ng surface. ers) of truss t 2 lb uplift at j bint 7, 149 lb l lb uplift at jo s Connection applicable, or	io oint uplift int		THILLING STREET		SEA 0235	L 94	
unloss of		only loads	noted as (F) UI (D),				iyilei.					1	WV -	11 1 11	

All loads are considered equally applied to all plies, 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 13) See Standard Industry Piggyback Truss Connection
- Detail for Connection to base truss as applicable, or consult qualified building designer. LOAD CASE(S) Standard

mann June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020				
25040114-01	PB6	Piggyback	1	2	Job Reference (optional)	174009695			

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:15 ID:mGvYCTeUNZ0iu4wFTFCM7hzPa7J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:50.1

Plate Offsets	(X, Y): [2:0-3-10,0-	1-8], [6:0-3-10,0-1-8]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr * Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.11 0.08 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 116 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood s 6-0-0 oc purlins. Rigid ceiling direc bracing. (size) 2=11-0 9=11-0 Max Horiz 2=-134 Max Uplift 2=-74 Max Uplift 2=-74 8=-148 Max Grav 2=129 8=396 10=397	heathing directly applie tty applied or 10-0-0 oc -9, 6=11-0-9, 8=11-0-9 -9, 10=11-0-9 (LC 11), 6=-54 (LC 12), (LC 14), 10=-149 (LC (LC 10), 6=109 (LC 9), (LC 30), 9=329 (LC 29) (LC 29)	4) ed or ; , 5) 13) 6) , , 7)	Wind: ASCE Vasd=103mp II; Exp B; End (3E) 0-2-7 to (3R) 6-0-8 to cantilever leff right exposed for reactions DOL=1.33 Truss design only. For stu see Standarc or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 This truss ha	7-16; Vult=130mp bh; TCDL=6.0psf; I closed; MWFRS (e 3-2-7, Exterior(2N 9-0-8, Exterior(2N t and right exposed t;C-C for members shown; Lumber Di ed for wind loads i ds exposed to win I Industry Gable E alified building des 7-16; Pr=20.0 psf; ate DOL=1.15); Is ; Cs=1.00; Ct=1.1 s been designed for	h (3-sec BCDL=6 envelope i) 3-2-7 i) 9-0-8 d ; end v s and for OL=1.60 in the pla d (norm nd Deta signer at c (roof LL Pf=13.5 =1.0; Rc 0 or greate	ond gust) .0psf; h=25ft; b) and C-C Cc o 6-0-8, Corr io 11-10-9 zo rertical left an cces & MWFR b) plate grip ane of the tru: al to the face; b) so the face; b) so the face; c) so t	; Cat. orner ner ne; id SS ss ), ble, PI 1. 1.15 fully live					
TOP CHORD BOT CHORD WEBS <b>NOTES</b> 1) 2-ply truss Top chorc follows: 2: Bottom cf follows: 2: 2) All loads a except if r CASE(S) provided t unless ott 3) Unbalanc this desig	Tension 1-2=0/18, 2-3=-18 4-5=-195/112, 5-6 2-10=-75/121, 9-76-8=-75/121 4-9=-129/0, 3-10=-75/121 4-9=-129/0, 3-10=-75/121 is to be connected with 10 k4 - 1 row at 0-9-0 co tords connected with 10 k4 - 1 row at 0-9-0 co are considered equa noted as front (F) or section. Ply to ply co o distribute only loa nerwise indicated. ed roof live loads ha n.	30/142, 3-4=-195/112, 30/142, 3-4=-195/112, 30/143, 6-7=0/18 10=-75/121, 8-9=-75/12 30/02/321, 5-8=-405/32 gether as follows: 30/02/321, 5-8=-405/32 gether as follows: 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/321, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-405/32 30/02/32, 5-8=-50/20 30/02/32, 5-8=-50/20 30/02/32,	8) 9) 1 1 1 12; as AD 13;	<ul> <li>load of 12.0 g</li> <li>overhangs nd</li> <li>Gable require</li> <li>Gable studs s</li> <li>* This truss h</li> <li>on the botton</li> <li>3-06-00 tall b</li> <li>chord and an</li> <li>All bearings a</li> <li>Provide mech</li> <li>bearing plate</li> <li>2, 54 lb uplift</li> <li>uplift at joint 4</li> <li>joint 6.</li> <li>See Standard</li> <li>Detail for Cor</li> <li>consult qualifier</li> <li>DAD CASE(S)</li> </ul>	on-concurrent with es continuous bott spaced at 4-0-0 oc las been designed n chord in all areas by 2-00-00 wide wil y other members, are assumed to be hanical connection capable of withst at joint 6, 149 lb u 8, 74 lb uplift at joi d Industry Piggyba nnection to base tr fied building design Standard	at roof in other liso om chor 2. I for a liv s where II fit betw with BC SP No. a (by oth anding 7 uplift at ju nt 2 and ack Trus russ as a ner.	ad of 13.9 ps re loads. d bearing. e load of 20.0 a rectangle veen the botto DL = 10.0psf 2. ers) of truss t 4 lb uplift at j bint 10, 148 lb 54 lb uplift ar s Connection applicable, or	Dpsf om oint o t				SEA 0235 OVY R.	ROU 94 94 94 94 94 94 94 94 94 94 94 94 94

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MEEDING

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB5	Piggyback	13	1	Job Reference (optional)	174009696

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:15 ID:WJrSRwVbGh78xbs3Wke0wHzPevV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





11-0-9

Scale = 1:50.1												
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing         2           Plate Grip DOL         1           Lumber DOL         1           Rep Stress Incr         Y           Code         II	2-0-0 1.15 1.15 YES RC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.23 0.17 0.10	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 58 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=12-1-0, 10=12-1-( Max Horiz 1=-134 (L Max Uplift 1=-101 (L 7=-27 (LC 10=-151 ( Max Grav 1=155 (LC (LC 29), 8 20) 10-4	athing directly applied o applied or 10-0-0 oc 2=12-1-0, 6=12-1-0, 8=12-1-0, 9=12-1-0, 0 C 11) C 9), 2=-29 (LC 37), i 42), 8=-124 (LC 14), LC 13) C 30), 2=95 (LC 14), 7=5 =397 (LC 30), 9=326 (L 17, (LC 30), 9=326 (L	<ul> <li>3) Truss des only. For see Stand or consult</li> <li>4) TCLL: AS Plate DOI DOL=1.1<sup>4</sup> Exp.; Ce=</li> <li>5) Gable red</li> <li>6) Gable stu</li> <li>7) * This trus on the bo</li> <li>3-06-00 tt</li> <li>All bearing a</li> <li>9) Bearing a</li> <li>value usir designer :</li> <li>10) Provide m</li> </ul>	igned for wind loads studs exposed to w lard Industry Gable qualified building dr CE 7-16; Pr=20.0 ps = 1.15); Pg=20.0 ps 5 Plate DOL=1.15; 1 0.9; Cs=1.00; Ct=1. uires continuous bo ds spaced at 4-0-0 o s has been designe tom chord in all are: any other members as are assumed to b t joint(s) 2, 6, 1, 7, 2 g ANSI/TPI 1 angle should verify capacit echanical connection	in the pl ind (norm End Deta ssigner a sf (roof Ll f; Pf=13.1 ss=1.0; R 10 ttom choroc. d for a liv as where vill fit bett s, with BC e SP No consider to grain t y of bear n (by oth	ane of the trus ial to the face, ils as applicat s per ANSI/TF 2) per ANSI/TF 2) per (Lum Dough Cat B; F 2) d bearing. 2) d bearing. 2) d bearing. 2) a rectangle veen the botto 2) L = 10.0psf 2) s parallel to g 2) formula. Build ing surface. ers) of truss to	ss ), ble, 11.15 1.15 ully Opsf om rain ding o					
FORCES TOP CHORD BOT CHORD WEBS	<ul> <li>(LC 29), 8=397 (LC 30), 9=326 (LC 29), 10=417 (LC 29)</li> <li>(Ib) - Maximum Compression/Maximum Tension</li> <li>DRD 1-2=-194/171, 2-3=-171/142, 3-4=-207/124, 4-5=-207/123, 5-6=-161/125, 6-7=-74/38</li> <li>DRD 2-10=-70/115, 9-10=-70/115, 8-9=-70/115, 6-8=-70/115</li> <li>4-9=-125/0, 3-10=-413/325, 5-8=-404/311</li> <li>(LO 29), 8=397 (LC 30), 9=326 (LC 20)</li> <li>(LO 29), 8=397 (LC 30), 9=326 (LC 30)</li> <li>(LO 29), 8=397 (LC 30), 9=326 (LC 30)</li> <li>(LO 29), 10=417 (LC 29)</li> <li>(LO 29), 10=417 (LC 29)</li> <li>(LO 29), 10=417 (LC 29)</li> <li>(LO 20), 10=413 (20)</li> <li>(LO</li></ul>								ROJU			
NOTES 1) Unbalance this design 2) Wind: ASC	ed roof live loads have n. CE 7-16: Vult=130mph	been considered for		-,						~0	SEA	L

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-2-7 to 3-2-7, Exterior(2N) 3-2-7 to 6-0-8, Corner (3R) 6-0-8 to 9-0-8, Exterior(2N) 9-0-8 to 11-10-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020					
25040114-01	PB4	Piggyback	2	1	Job Reference (optional)	174009697				

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:14 ID:Q2qS9Mh\_6egX2qXqLfMCz\_zPdho-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale =	1:47.2
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Plate Offsets (	X, Y): [2:0-3-10,0-1-8	3], [8:0-3-10,0-1-8]										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.06 0.04 0.09	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 70 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=11-0-9, 11=11-0-9 14=11-0-9 Max Horiz 2=-134 (L Max Uplift 2=-42 (LC 10=-80 (L 13=-74 (L Max Grav 2=127 (LC 10=179 (L 14=179 (L	athing directly applied applied or 10-0-0 oc 9, 12=11-0-9, 10=11-0-9 9, 12=11-0-9, 13=11-0-9 9 (C 11) (C 11) (C 11) (C 14), 11=-74 (LC 14) (C 13), 14=-80 (LC 13) (C 30), 8=115 (LC 32), (C 30), 11=194 (LC 3 (C 32), 13=195 (LC 2) (C 29)	<ul> <li>2) Wind: ASCI Vasd=103n II; Exp B; E Exterior(2E Exterior(2E Exterior(2R and right ey MWFRS for grip DOL=1</li> <li>3) Truss desig only. For s see Standa or consult of 4) TCLL: ASC Plate DOL= 10, 5) This truss h load of 12.0 overhangs</li> <li>6) All plates an</li> </ul>	E 7-16; Vult=130m ph; TCDL=6.0psf nclosed; MWFRS ) 0-2-7 to 3-2-7, In ) 6-0-8 to 9-0-8, In ever left and right posed;C-C for me reactions shown; .33 ned for wind loads uds exposed to w rd Industry Gable ualified building de E 7-16; Pr=20.0 ps Plate DOL=1.15); I 9; Cs=1.00; Ct=1. as been designed psf or 2.00 times ton-concurrent wite a 2x4 MT20 unles	ph (3-sec ; BCDL==6 (envelope terior (1) terior (1) exposed mbers ar Lumber I s in the pl ind (norm End Deta esigner a: sf (roof LL f; Pf=13.9 Is=1.0; Re 10 for great flat roof I th other II s other II	and gust) .0psf; h=25ft; and C-C 3-2-7 to 6-0-8 9-0-8 to 11-11; end vertical d forces & DOL=1.60 pla ane of the tru ane of the tru al to the face ils as applical s per ANSI/TF .: Lum DOL=: psf (Lum Dugh Cat B; F er of min roof bad of 13.9 pr re loads. se indicated	; Cat. , 0-9 left tte ss ble, PI 1. 1.15 fully live sf on					
FORCES	(lb) - Maximum Com Tension 1-2=0/18, 2-3=-145/ 4-5=-142/108, 5-6=-	npression/Maximum 129, 3-4=-112/73, 142/108, 6-7=-93/48,	<ul> <li>7) Gable required</li> <li>8) Gable stude</li> <li>9) * This truss on the botto</li> </ul>	res continuous bo s spaced at 2-0-0 d has been designe om chord in all area	ttom chor oc. ed for a liv as where	d bearing. e load of 20.0 a rectangle	)psf				WH CA	ROLLA
BOT CHORD	2-14=-107/131, 13-1 12-13=-107/131, 11-1 10-11=-107/131, 8-1	14=-107/131, -12=-107/131, 10=-107/131	3-06-00 tall chord and a 10) All bearings	by 2-00-00 wide v iny other members are assumed to b	vill fit betv s. be SP No.	veen the botto	om				2	Millin
WEBS NOTES 1) Unbalance this design	5-12=-108/68, 4-13= 3-14=-195/129, 6-11 7-10=-195/129 ed roof live loads have n.	=-222/142,  =-222/142, been considered for	<ul> <li>11) Provide me bearing pla</li> <li>2, 22 lb uplit</li> <li>at joint 14,</li> <li>42 lb uplit</li> <li>42 lb uplit</li> <li>12) See Standa Detail for C consult qua</li> </ul>	<ul> <li>11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2, 22 lb uplift at joint 8, 74 lb uplift at joint 13, 80 lb uplift at joint 10, 42 lb uplift at joint 11, 80 lb uplift at joint 10, 42 lb uplift at joint 2 and 22 lb uplift at joint 8.</li> <li>12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.</li> </ul>								L 94
			LOAD CASE(S	) Standard							min R.	Winnin

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	VL4	Valley	1	1	Job Reference (optional)	174009698

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:17 ID:Wo8aAg3flXN2L61k7aV2kFzPuSD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.6

.oading CLL (roof) Now (Pf/Pg) CDL SCLL SCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2027	1/TPI2014	CSI TC BC WB Matrix-MSH	0.23 0.17 0.25	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 59 lb	<b>GRIP</b> 244/190 FT = 20%	
UMBER OP CHORD OT CHORD THERS IRACING OP CHORD OT CHORD EACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 10-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=12-0-0 Max Horiz 1=133 (L Max Uplift 1=-118 (L 6=-115 (L Max Grav 1=128 (L 7=504 (L' (lb) - Maximum Con Tension 1-2=-178/230, 2-3=:	eathing directly applie y applied or 6-0-0 oc , 5=12-0-0, 6=12-0-0, , 8=12-0-0 C 10) .C 11), 5=-1 (LC 28), .C 14), 8=-130 (LC 12 C 10), 6=401 (LC 29) C 28), 8=389 (LC 28) npression/Maximum -184/241, 3-4=-184/2	3) d or 5) 6) 7) 3) 8) 9) 40, 10	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 Gable require Gable studs * This truss F on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 1, 1 lb uplift a at joint 6 and	ted for wind loads in ids exposed to wind d Industry Gable En ialified building desi (7-16; Pr=20.0 psf; (1.5); Pg=20.0 psf; Jate DOL=1.15); IS= 0; Cs=1.00; Ct=1.10 es continuous botto spaced at 4-0-0 oc. has been designed f n chord in all areas by 2-00-00 wide will by other members, w are assumed to be hanical connection e capable of withsta at joint 5, 130 lb upil 11 lb upilif at joint 5.	the pla l (norm d Deta gner as roof LL Pf=13.9 1.0; Rc m chor for a liv where fit betw with BC SP No. (by oth nding 1 ft at joi	ane of the tru al to the face ils as applica s per ANSI/TI :: Lum DOL= 0 psf (Lum ough Cat B; F d bearing. e load of 20.0 a rectangle veen the botto DL = 10.0psf 2. ers) of truss t 18 lb uplift at nt 8, 115 lb u	iss ble, PI 1. 1.15 Fully Opsf om f. t joint iplift						

4-5=-34/118 BOT CHORD 1-8=-44/33, 7-8=-44/33, 6-7=-44/33, 5-6=-44/33 WEBS 3-7=-303/33, 2-8=-397/305, 4-6=-398/297

#### NOTES

1) Unbalanced roof live loads have been considered for

this design. Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 6-0-0, Corner (3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 12-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

surface with truss chord at joint(s) 1, 5, 13.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB2	Piggyback	19	1	Job Reference (optional)	174009699

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:14 ID:caiZZ4aio3?h\_754UmO1PtzPdKh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-6-0 0-6-0 10-11-0 0-6-0 10-5-0 5-2-8 5-2-8 5-2-8 4x5= 4 12 14 Г 6-9-9 6-8-3 2x4 2x4 II 3 5 0-5-10 6 10 8 9 3x5 = 2x4 🛛 2x4 II 2x4 II 3x5 =

10-5-0



Scale = 1:48.5

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 13.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MSH	0.23 0.09 0.11	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL	10.0											Weight: 54 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 c purlins. Rigid ceiling directly bracing. (size) 1=11-5-7, 7=11-5-7,	athing directly applied applied or 10-0-0 oc 2=11-5-7, 6=11-5-7, 8=11-5-7, 9=11-5-7,	3) 4) d or 5) 6) 7)	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.5 Gable requiri Gable studs * This truss f on the bottor	ed for wind loads dds exposed to wi d Industry Gable I alified building de 7-16; Pr=20.0 ps late DOL=1.15); I ate DOL=1.15); I cs=1.00; Ct=1. es continuous bot spaced at 4-0-0 c has been designe n chord in all area	s in the pl ind (norm End Deta esigner a: sf (roof Ll f; Pf=13.5 s=1.0; Re 10 ttom chor oc. d for a liv as where	ane of the tru al to the face ils as applical s per ANSI/Tf :: Lum DOL=: 0 psf (Lum Dugh Cat B; F d bearing. e load of 20.0 a rectangle	ss ), ble, 21 1. 1.15 fully Dpsf						
	10=11-5-7 Max Horiz 1=-126 (L Max Uplift 1=-90 (LC (LC 12), 8 (LC 13) Max Grav 1=143 (LC 7=87 (LC 9=207 (LC	7 C 11) S 9), 2=-62 (LC 35), 7 S=-123 (LC 14), 10=-1 C 30), 2=102 (LC 13), 14), 8=337 (LC 30), C 2), 10=368 (LC 29),	=-42 8) 158 9) , 10	on the bottor 3-06-00 tall b chord and ar All bearings Bearing at jo value using / designer sho ) Provide mec	n chord in all area by 2-00-00 wide w by other members are assumed to b int(s) 2, 6, 1, 7, 2 ANSI/TPI 1 angle uld verify capacit hanical connectio	as where vill fit betw be SP No. consider to grain f y of bear on (by oth	2 . s parallel to g ormula. Build ing surface. ers) of truss t	om Irain ding o						
FORCES	(lb) - Maximum Com	pression/Maximum		2, 90 lb uplift	at joint 1, 42 lb u	iplift at joi	nt 7, 158 lb up	oint plift						
TOP CHORD BOT CHORD WEBS	1 ension 1-2=-187/158, 2-3=- 4-5=-205/118, 5-6=- 2-10=-62/107, 9-10= 6-8=-77/107 4-9=-120/0, 3-10=-4	195/156, 3-4=-206/11 182/143, 6-7=-82/56 62/107, 8-9=-62/107 45/353, 5-8=-430/334	18, 7, <sup>11</sup>	at joint 10, 12 2. ) See Standar Detail for Co consult quali	23 lb uplift at joint d Industry Piggyb nnection to base fied building desig	8 and 62 back Trus truss as a gner.	2 Ib uplift at jo s Connection applicable, or	int			-	IN H CA	Roj	M
NOTES	10 120/0,010 1	10,000,000,000	É LC	DAD CASE(S)	Standard						ZA		Sh. L	A
<ol> <li>Unbalanc this desig</li> <li>Wind: AS Vasd=103 II; Exp B; (3E) 0-2-7 (3R) 5-8-1 zone; can and right MWERS f</li> </ol>	ed roof live loads have n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B Enclosed; MWFRS (er 7 to 3-2-7, Exterior(2N) 11 to 8-8-11, Exterior(2 titlever left and right exp exposed;C-C for memb for reactions shows. Lu	been considered for (3-second gust) CDL=6.0psf; h=25ft; ivelope) and C-C Cor 3-2-7 to 5-8-11, Corr N) 8-8-11 to 11-3-0 posed ; end vertical le pers and forces & mber DOL = 160 nets	Cat. mer her							Contraction of the second s		SEA 0235	L 94	Man Internet

II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-2-7 to 3-2-7, Exterior(2N) 3-2-7 to 5-8-11, Corner (3R) 5-8-11 to 8-8-11, Exterior(2N) 8-8-11 to 11-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

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mann June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB1	Piggyback	1	1	Job Reference (optional)	

Scale = 1:45.5

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:14 ID:1hRZKk1w5RgRwpQB92ZjPgzPdK6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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Plate Offsets (	X, Y): [2:0-3-10,0-1-8	3], [8:0-3-10,0-1-8]	_		-							-	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021,	/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.06 0.03 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 65 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=10-5-0, 11=10-5-1 44=10-5-1 Max Horiz 2=-126 (L Max Uplift 2=-50 (LC 10=-74 (L 13=-76 (L Max Grav 2=114 (L1 10=163 (I 12=115 (I 14=164 (I	athing directly applied applied or 10-0-0 oc , 8=10-5-0, 10=10-5-0 0, 12=10-5-0, 13=10-0 0 C 11), 8=-30 (LC 12), C 14), 11=-76 (LC 14), C 13), 14=-75 (LC 13), C 30), 8=104 (LC 32), LC 30), 11=197 (LC 3 LC 32), 13=198 (LC 2 LC 29)	2) d or 3) 5-0, 4) 1), 0), 5) 9),	Wind: ASCE Vasd=103mp II; Exp B; En Exterior(2E) 11-3-0 zone; vertical left a forces & MW DOL=1.60 pl Truss design only. For stu See Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 This truss ha load of 12.0 overhangs n	7-16; Vult=130m bh; TCDL=6.0psf; closed; MWFRS ( 0-2-7 to 3-2-7, Int 5-8-11 to 8-8-11, cantilever left an ind right exposed; FRS for reactions ate grip DOL=1.3 ed for wind loads ds exposed to wi J Industry Gable I alified building de 7-16; Pr=20.0 ps (15); Pg=20.0 ps (15); Pg=20.0 ps (15); Pg=20.0 ps (15); Cs=1.00; Ct=1.1 s been designed ps for 2.00 times on-concurrent wit	ph (3-sec BCDL=6 (envelope terior (1) : Interior ( d right ex C-C for n s shown; 3 in the pla nd (norm End Deta signer as of (roof LL f; Pf=13.9 s=1.0; Rc 10 for greatu flat roof ld h other lin	and gust) .0psf; h=25ft; and C-C 3-2-7 to 5-8-1 1) 8-8-11 to posed ; end posed ; end hembers and Lumber ane of the tru al to the face is as applical s per ANSI/TF .: Lum DOL=: psf (Lum pugh Cat B; F er of min roof pad of 13.9 p; re loads.	; Cat. 11, ), ble, PI 1. 1.15 Fully f live sf on					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	6) 7) 8)	Gable require Gable studs	e 2x4 M120 unles es continuous bot spaced at 2-0-0 c	s otherwi ttom chor bc.	d bearing.						ining.
TOP CHORD	1-2=0/18, 2-3=-146/ 4-5=-136/102, 5-6=- 7-8=-147/133, 8-9=(	132, 3-4=-110/74, 136/102, 6-7=-92/50, )/18	9)	* This truss h on the bottor	nas been designe n chord in all area	d for a liv as where	e load of 20.0 a rectangle	Opsf			1	ORTHO	STANA.
BOT CHORD	2-14=-101/125, 13-1 12-13=-101/125, 11 10-11=-101/125, 8-1	14=-101/125, -12=-101/125, 10=-101/125	10)	chord and ar All bearings	y other members are assumed to b	e SP No.	2.				~04	Ren -	man
WEBS	5-12=-98/58, 4-13=- 6-11=-225/145, 7-10	225/145, 3-14=-183/ <sup>,</sup> )=-183/123	123,	bearing plate 2, 30 lb uplift	capable of withs at joint 8, 76 lb u	tanding 5	io lb uplift at j nt 13, 75 lb u	oint plift				SEA 0235	NL
NULES	ad roof live loads have	been considered for		at joint 14, 70	b ID uplift at joint 1	11,74 lb i	uplift at joint 1	10,				<b>1</b>	1 2
this design	a roor live loads have	Deen considered for	12)	See Standar	. joint ∠ and 30 lb d Industry Pidavb	ack Trus	s Connection				1	S. 64.	Al S

12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

H. MILLIN

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	HJ1	Roof Special Girder	2	1	Job Reference (optional)	174009701

13

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

3-7-13

1-0-0

7

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2x4 u

#### Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:12 ID:E7aB2VeRA?DX82VhyheZfVzOdh9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-6-12 -2-7-13 11-3-0 2-7-13 5-6-12 5-8-4 5x6 = 12 2.83 Г 4 12 3x5 = 3 11 10 3-4-5 9 3x10 = 2 0-3-8 • ┎╏



15

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85

Page: 1



6 14

4x5 =

Scale = 1:38

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 NO IRC202	1/TPI2014	CSI TC BC WB Matrix-MSH	0.99 0.57 0.51	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.09 0.01	(loc) 5-6 5-6 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 66 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 2x4 SP No.3	ot* 7-2:2x6 SP No.2	5) 6)	* This truss h on the bottor 3-06-00 tall h chord and an Bearings are SP No.3	nas been designed m chord in all area by 2-00-00 wide wi ny other members. a assumed to be: J	d for a liv s where ill fit betw loint 7 Sl	e load of 20. a rectangle veen the bott P No.2 , Joint	0psf om t 8					
TOP CHORD BOT CHORD	Structural wood she 2-4-4 oc purlins, ex Rigid ceiling directly bracing.	eathing directly appli cept end verticals. applied or 6-0-0 oc	ied or 7)	Bearing at jo using ANSI/ designer sho Provide mec	hint(s) 8 considers TPI 1 angle to grai buld verify capacity chanical connection	parallel n formul / of bear n (by oth	o grain value a. Building ing surface. ers) of truss f	to					
REACTIONS	(size) 7=0-4-4, Max Horiz 7=79 (LC Max Uplift 7=-78 (LC Max Grav 7=695 (LC	8=0-1-8 7) C 7), 8=-27 (LC 11) C 29), 8=633 (LC 18	9) 8) 1(	bearing plate Provide mec bearing plate 7 and 27 lb t Hanger(s) or	e at joint(s) 8. chanical connection capable of withst uplift at joint 8. cother connection	n (by oth anding 7	ers) of truss '8 lb uplift at j	to joint					
FORCES	(lb) - Maximum Con Tension	npression/Maximum	1	provided suf down and 11	ficient to support c l lb up at 3-1-6, 13	concentra 3 lb dow	ated load(s) 1 and 11 lb u	3 lb p at					
TOP CHORD	1-2=0/48, 2-3=-937/ 4-5=0/391, 2-7=-652	′0, 3-4=-177/13, 2/104		3-1-6, 66 lb o and 35 lb up	down and 35 lb up at 5-11-5, and 14	at 5-11 2 lb dov	-5, 66 lb dow /n and 43 lb (	'n up at					
BOT CHORD WEBS	6-7=-245/48, 5-6=-4 2-6=-60/981, 3-6=0/ 4-8=-636/27	1/881 130, 3-5=-831/38,		8-9-4, and 14 chord, and 1 and 20 lb up	42 lb down and 43 4 lb down and 20 at 3-1-6, 21 lb do	lb up at b up at wn and	8-9-4 on top 3-1-6, 14 lb o 9 lb up at 5-	o down 11-5,					
NOTES 1) Wind: AS Vasd=103 II; Exp B; and right Lumber D	CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B Enclosed; MWFRS (er exposed ; end vertical IOL=1.60 plate grip DC	n (3-second gust) CDL=6.0psf; h=25ft hvelope); cantilever left and right expose L=1.33	t; Cat. left ed; 1 <sup>r</sup>	21 lb down a 8-9-4, and 4 design/selec responsibility I) In the LOAD of the truss a	and 9 lb up at 5-11 1 lb down at 8-9-4 tion of such conner y of others. CASE(S) section, are noted as front (	I-5, and I on both ection de Ioads a (F) or ba	41 lb down a om chord. Th vice(s) is the oplied to the ck (B).	t he face		į	and a	TH CA	ROLIN

2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 4) load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (lb/ft)
  - Vert: 1-2=-46, 2-4=-46, 5-7=-19
  - Concentrated Loads (lb)
  - Vert: 11=-78 (F=-39, B=-39), 12=-231 (F=-116, B=-115), 13=7 (F=3, B=3), 14=-11 (F=-6, B=-6), 15=-82 (F=-41, B=-41)



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	M2	Monopitch	8	1	Job Reference (optional)	174009702

## Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:13 ID:JmpSuosNzbDwA4CbAa4O0hzPcU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







#### Scale = 1:36.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.01	6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 61 lb	FT = 20%
			5) * This truss	has been designe	ed for a liv	e load of 20.	Opsf					

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No.3 \*Except\* 7-2:2x6 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **REACTIONS** (size) 5= Mechanical, 7=0-3-0 Max Horiz 7=135 (LC 12) Max Uplift 5=-16 (LC 15), 7=-59 (LC 11) Max Grav 5=437 (LC 22), 7=551 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension 1-2=0/50, 2-3=-602/139, 3-4=-109/74, TOP CHORD 4-5=-160/112, 2-7=-536/267

BOT CHORD 6-7=-280/294, 5-6=-260/586 WEBS 3-6=0/96, 3-5=-584/224, 2-6=-119/474

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-10-3 to 1-1-13, Interior (1) 1-1-13 to 10-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- 3) Unbalanced snow loads have been considered for this desian.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 7 SP No.2. 6)
- Refer to girder(s) for truss to truss connections. 7)
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 59 lb uplift at joint 7 and 16 lb uplift at joint 5.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB9	Piggyback	1	2	Job Reference (optional)	174009703

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:15 ID:sgUBXIX0Q7oYrY\_w3bI5BHzOZTT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.1

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MSH	0.39 0.29 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.01	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 122 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE WEBS REACTIONS FORCES TOP CHORE BOT CHORE BOT CHORE	<ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.3</li> <li>Structural wood sheat</li> <li>6-0-0 oc purlins, exit</li> <li>Rigid ceiling directly bracing.</li> <li>1 Row at midpt</li> <li>(size) 2=9-0-6, 6</li> <li>9=9-0-6</li> <li>Max Horiz 2=312 (LC</li> <li>Max Grav 2=314 (LC</li> <li>7=501 (LC</li> <li>(lb) - Maximum Com</li> <li>Tension</li> <li>1-2=0/18, 2-3=-867/7</li> <li>4-5=-273/300, 6-9=0</li> <li>2-8=-229/254, 7-8=-</li> </ul>	athing directly appliec sept end verticals. applied or 10-0-0 oc 5-9 5-9 5 (12) C 11), 6=-114 (LC 12 C 13), 8=-131 (LC 13 5 (10), 6=222 (LC 29), 5 (29), 8=358 (LC 29) pression/Maximum 792, 3-4=-627/607, 70, 5-6=-281/228 182/234, 6-7=-182/23	3) I or 4) -0-6, 5) ), () 6) 7) 8) 9) 14	Wind: ASCE Vasd=103mp II; Exp B; End (3E) 0-2-7 to cantilever left right exposed for reactions DOL=1.33 Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 This truss ha load of 12.0 p overhangs no Gable studs 4 * This truss h on the bottom 3-06-00 tall bb	7-16; Vult=130mpf h; TCDL=6.0psf; B closed; MWFRS (er 3-2-7, Exterior(2N) and right exposed t;C-C for members shown; Lumber DC ed for wind loads ir ds exposed to wind I Industry Gable Er alified building desi 7-16; Pr=20.0 psf; 15); Pg=20.0 psf; 15); Pg=20.0 psf; ate DOL=1.15); Is= ; Cs=1.00; Ct=1.10; s been designed for psf or 2.00 times fla on-concurrent with es continuous botto spaced at 4-0-0 oc. as been designed in chord in all areas y 2-00-00 wide will	n (3-sec GCDL=6 nvelope ) 3-2-7 f i ; end v and for DL=1.60 h the pla d (norm d Deta igner as (roof LL Pf=13.9 e1.0; Rc other liv or greate at roof lo other liv for a liv where fit betw	ond gust) .0psf; h=25ft .0 and C-C C o 9-4-13 zon ertical left ar cess & MWFF ) plate grip ane of the true al to the face Is as applical s per ANSI/TI : Lum DOL= psf (Lum nugh Cat B; F er of min roof bad of 13.9 p re loads. d bearing. e load of 20.0 a rectangle veen the bott	; Cat. orner e; dd RS ss ), ble, PI 1. 1.15 fully flive sf on				WITH CA	ROMINICA
NOTES 1) 2-ply trus Top chor follows: 2 Bottom c follows: 2 2) All loads except if CASE(S) provided unless of	s to be connected toget ds connected with 10d ( x4 - 1 row at 0-9-0 oc. hords connected with 10 x4 - 1 row at 0-9-0 oc. are considered equally noted as front (F) or bac section. Ply to ply conn to distribute only loads herwise indicated.	her as follows: 0.131"x3") nails as 0d (0.131"x3") nails a applied to all plies, ck (B) face in the LOA ections have been noted as (F) or (B),	10 11 s 12 ND 13 LC	<ul> <li>All bearings a</li> <li>Bearing at joi using ANSI/T designer sho</li> <li>Provide mech bearing plate</li> <li>14 lb uplif uplift at joint a</li> <li>See Standarr Detail for Con consult qualif</li> <li>DAD CASE(S)</li> </ul>	are assumed to be nt(s) 9, 6 considers PI 1 angle to grain uld verify capacity in anical connection capable of withsta ft at joint 6, 180 lb u 3 and 219 lb uplift a d Industry Piggybar nection to base tru- ied building design Standard	SP No. s paralle formula of beari (by oth nding 2 uplift at at joint 2 ck Trus: uss as a er.	2 . el to grain val a. Building ng surface. ers) of truss i 19 lb uplift af joint 7, 131 ll 2. s Connection upplicable, or	iue to t joint o		1. manutes		SEA 02359	

June 6,2025

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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 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	Overhills-Roof-CL-20-020	
25040114-01	PB8	Piggyback	8	1	Job Reference (optional)	174009704

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:15 ID:DZ\_H?ARd1BFaoAD6FAk3t2zPdOI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.1

Plate Offsets	(X, Y): [2:0-2-10,0-1-0	), [6:0-8-8,Edge]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-MSH	0.82 0.59 0.34	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.02	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 MT20HS Weight: 61 lb	<b>GRIP</b> 244/190 187/143 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 2=9-0-6, 9=9-0-6 Max Horiz 2=312 (LC Max Uplift 2=-219 (L 7=-180 (L Max Grav 2=314 (LC 7=501 (LC	eathing directly applie cept end verticals. applied or 10-0-0 oc 5-9 6=9-0-6, 7=9-0-6, 8= C 12) C 11), 6=-114 (LC 1: C 13), 8=-131 (LC 1: C 10), 6=222 (LC 29) C 29), 8=358 (LC 29)	3) ed or 5) c 6) c 7) e9-0-6, 2), 9) 3) 10] ), 11]	TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.9 This truss ha load of 12.0 overhangs n All plates are Gable requir Gable studs * This truss H on the bottor 3-06-00 tall k chord and ar All bearings Bearing at jo using ANSI/ designer sho Provide mee	7-16; Pr=20.0 psf .15); Pg=20.0 psf; late DOL=1.15); Is ; Cs=1.00; Ct=1.1 is been designed fip psf or 2.00 times fi on-concurrent with MT20 plates unle es continuous bott spaced at 4-0-0 oc has been designed n chord in all areas by 2-00-00 wide will by other members, are assumed to be int(s) 9, 6 consider FPI 1 angle to grain build verify capacity hanical connection	(roof LL Pf=13.5 =1.0; Rc or great at roof lo other lis so other lis so so ther of a liv s where of a liv s where l fit betw with BC SP No. s paralli for mula of bear	: Lum DOL= b psf (Lum bugh Cat B; F er of min roof pad of 13.9 p ve loads. wise indicate d bearing. e load of 20.1 a rectangle veen the bott DDL = 10.0psi 2. el to grain val a. Building ng surface.	1.15 Fully f live sf on ed. Opsf om f. lue					
FORCES	(lb) - Maximum Com Tension 1-2=0/18, 2-3=-867/	791, 3-4=-627/607,	,	bearing plate 2, 114 lb upl uplift at joint	e capable of withsta ift at joint 6, 180 lb 8 and 219 lb uplift	anding 2 uplift at at joint 2	19 lb uplift at joint 7, 131 ll	t joint b					ID
BOT CHORD WEBS	4-5=-273/300, 6-9=( 2-8=-182/234, 7-8=- 4-7=-510/418, 3-8=-	D/0, 5-6=-281/228 182/234, 6-7=-182/2 415/374	12) 234	Detail for Co consult quali	d Industry Piggyba nnection to base tr fied building design	ck Trus uss as a ner.	s Connection applicable, or				and the	ORTH CA	ROUT
NOTES 1) Wind: AS Vasd=103 II; Exp B; (3E) 0-2-7 cantilever right expo for reactic DOL=1.33 2) Truss des only. For	CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B Enclosed; MWFRS (er 7 to 3-2-7, Exterior(2N) 1eft and right exposed used;C-C for members ons shown; Lumber DC 3 signed for wind loads in studs exposed to wind	(3-second gust) CDL=6.0psf; h=25ft; hvelope) and C-C Co 3-2-7 to 9-4-13 zone ; end vertical left and and forces & MWFR DL=1.60 plate grip the plane of the trus I (normal to the face)	LO Cat. orner e; d S S ss	AD CASE(S)	Standard					1. and and a second second		SEA 0235	L 94 EER. R.

DOL=1.33 Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



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June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB16	Piggyback	8	1	Job Reference (optional)	174009705

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16 ID:oxAWL48IhMvFjzakA3SUeKzPcR9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

or consult qualified building designer as per ANSI/TPI 1.

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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	21/TPI2014	CSI TC BC WB Matrix-MP	0.26 0.26 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 38 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.3</li> <li>Structural wood she</li> <li>6-0-0 oc purlins.</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 2=7-9-0,4</li> <li>Max Horiz 2=-96 (LC Max Uplift 2=-21 (LC Max Grav 2=238 (LC (LC 2))</li> <li>(lb) - Maximum Com Tangia</li> </ul>	athing directly applie applied or 10-0-0 or 4=7-9-0, 6=7-9-0 ; 11) ; 14), 4=-17 (LC 14) C 2), 4=238 (LC 2), 6 apression/Maximum	4 5 ed or 6 7 8 6=181 9 1	<ul> <li>TCLL: ASCE Plate DOL=</li> <li>DOL=1.15 P</li> <li>Exp.; Ce=0.9</li> <li>This truss hat load of 12.0</li> <li>overhangs n</li> <li>Gable studs</li> <li>* This truss I on the bottoo</li> <li>3-06-00 tall I chord and at</li> <li>All bearings</li> <li>Provide mec bearing plate</li> </ul>	5 7-16; Pr=20.0 p 1.15); Pg=20.0 ps 1.15); Pg=20.0 ps 1.12b; Pg=20.	sf (roof Ll sf; Pf=13.5 Is=1.0; Rd 10 I for great flat roof I th other li thto ther li thto ther li thto rhor oc. ed for a liv as where will fit betv s. oe SP No. on (by oth standing 2	.: Lum DOL= ) psf (Lum ) pugh Cat B; F er of min roof ) ad of 13.9 p ve loads. d bearing. e load of 20.1 a rectangle veen the bott 2. ers) of truss 11 b uplift at	1.15 Fully f live sf on Opsf om to					
TOP CHORD BOT CHORD WEBS	1-2=0/18, 2-3=-254/ 4-5=0/18 2-6=-67/140, 4-6=-6 3-6=-75/69	109, 3-4=-254/109, 8/143	1	2, 17 ib upili uplift at joint 1) See Standar Detail for Co	4. d Industry Piggyt nection to base	back Trus truss as a	s Connection						
NOTES	0 0- 10/00		L	OAD CASE(S)	Standard	gner.						mm	11110
<ol> <li>Unbalance this design 2) Wind: AS Vasd=100 II; Exp B; Exterior(2 zone; car and right MWFRS grip DOL:</li> <li>Truss des only. For see Stand</li> </ol>	ed roof live loads have in. iCE 7-16; Vult=130mph 3mph; TCDL=6.0psf; Br Enclosed; MWFRS (er 2E) 0-2-7 to 3-2-7, Interi 2R) 4-4-11 to 7-4-11, Ini- tilever left and right exp exposed;C-C for memb for reactions shown; Lu =1.33 signed for wind loads in s tuds exposed to wind dard Industry Gable End	been considered fo (3-second gust) CDL=6.0psf; h=25ft; ivelope) and C-C ior (1) 3-2-7 to 4-4-1 terior (1) 7-4-11 to 8 posed; end vertical pers and forces & imber DOL=1.60 pla the plane of the true (normal to the face) d Details as applical	r Cat. 1, -7-0 left ss ), ble,								and the second s	SEA 0235	L 94 EEP. Fruit

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R. MILLIN June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB17	Piggyback	1	2	Job Reference (optional)	174009706

#### Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16 ID:5H69pTDh1WnF32c45147QpzPcR2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:37

Plate Offsets (	(X, Y): [2:0-2-10,0-1-0]	], [4:0-2-10,0-1-0]												
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MP	0.13 0.13 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 76 lb	<b>GRIP</b> 244/190 FT = 20%	,
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD WEBS NOTES 1) 2-ply truss Top chord follows: 2: Bottom ch follows: 2: Bottom ch follows	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=7-9-0,4 Max Horiz 2=-96 (LC Max Uplift 2=-22 (LC Max Uplift 2=-22 (LC Max Grav 2=239 (LC (LC 2) (lb) - Maximum Com Tension 1-2=0/18, 2-3=-254/ 4-5=0/18 2-6=-77/163, 4-6=-71 3-6=-76/70 s to be connected toget ds connected with 10d ( x4 - 1 row at 0-9-0 oc. are considered equally noted as front (F) or bac section. Ply to ply com to distribute only loads herwise indicated.	athing directly applie applied or 10-0-0 oc 11) 14), 4=-18 (LC 14) 22), 4=239 (LC 2), 6 pression/Maximum 110, 3-4=-254/110, 8/167 ther as follows: (0.131"x3") nails as 0d (0.131"x3") nails as 0d (0.131"x3") nails as 0d (0.131"x3") nails as 0d (0.131"x3") nails as	4) d or 5) =181 6) 7) 8) 9) 10 35 11 12 AD 13 LC	Wind: ASCE Vasd=103mp II; Exp B; Enc Exterior(2E) Exterior(2E) zone; cantile and right exp MWFRS for r grip DOL=1.3 Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 This truss ha load of 12.0 p overhangs nu Gable require Gable studs : ) * This truss h on the bottom 3-06-00 tall b chord and ar ) Provide mecl bearing plate 2, 18 lb uplift uplift at joint . ) See Standard Detail for Con consult qualit DAD CASE(S)	7-16; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS ( 0-2-7 to 3-2-7, Inte 4-4-11 to 7-4-11, Iver left and right e iosed; C-C for men reactions shown; I 33 ed for wind loads ids exposed to wird l ndustry Gable E alified building de 7-16; Pr=20.0 psf late DOL=1.15); Is ; Cs=1.00; Ct=1.1 s been designed to psf or 2.00 times f on-concurrent with es continuous bott spaced at 4-0-0 on tas been designed n chord in all area by 2-00-00 wide win yo other members. are assumed to be hanical connection e capable of withst at joint 4, 22 Ib up 4.	oh (3-sec BCDL=6 BCDL=6 envelope erior (1) Interior ( exposed nbers an Lumber I in the pli- nd peta signer as f (roof LL ; Pf=13.5 s=1.0; Rc 0 for greate lat roof lu toom chor c. d for a liv s where ill fit betv e SP No. h (by oth and russ as aner.	cond gust) cond gust) consr, h=25ft; and C-C 3-2-7 to 4-4-1 1) 7-4-11 to 8 constructions constructions ane of the true ane of the true at to the face is as applicat s per ANSI/TF .: Lum DOL=' psf (Lum Dough Cat B; F er of min roof bad of 13.9 ps re loads. d bearing. e load of 20.0 a rectangle ween the botto 2. ers) of truss to 2 do truss to 3 connection applicable, or	; Cat. 11, 3-7-0 left ate ss ), bble, PI 1. 1.15 fully live sf on Opsf om o				SEA 0235	L 94 EEER. ER.	

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818 Soundside Road Edenton, NC 27932

June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB3	Piggyback	1	2	Job Reference (optional)	174009707

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:14 ID:LR\_IEul6rS2vTsCpX1?KGDzPdA8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.5

Plate Offsets (X, Y): [4:0-2-10,0-1-0]

			-										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.15 0.03 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 94 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) 2-ply truss Top chorc follows: 2: Bottom ch follows: 2: Bottom ch follows: 2: NI loads a except if CASE(S) provided t unless ott 3) Unbalanc this desig	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 4=8-0-8, 6 9=8-0-8 Max Horiz 9=-154 (L Max Uplift 4=-172 (L 7=-307 (LC (lb) - Maximum Com Tension 8-9=0/0, 1-8=-187/19 2-3=-200/197, 3-4=- 7-8=-155/191, 6-7=- 2-7=-257/126, 3-6=- s to be connected toget Is connected with 10d ( x4 - 1 row at 0-9-0 oc. are considered equally orded as front (F) or bad section. Ply to ply com o distribute only loads herwise indicated. ed roof live loads have n.	athing directly applied cept end verticals. applied or 10-0-0 oc 5=8-0-8, 7=8-0-8, 8=8 C 11) C 12), 6=-166 (LC 14 9), 8=-68 (LC 10) 2 9), 6=372 (LC 30), 3 30), 8=151 (LC 29) pression/Maximum 97, 1-2=-171/216, 348/352, 4-5=0/18 155/191, 4-6=-155/15 496/416 ther as follows: 0.131"x3") nails as 0d (0.131"x3") nails as 0d (0.131"x3") nails as ck (B) face in the LO/ lections have been noted as (F) or (B), been considered for	4) d or (-0-8, (-), (-0-8, (-), (-), (-), (-), (-), (-), (-), (-)	Wind: ASCE Vasd=103mp II; Exp B; End (3E) 0-112 tr Exterior(2N) right exposed for members Lumber DOL Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15 PI Exp.; Ce=0.9 This truss ha load of 12.0 g overhangs nd Gable require Gable studs 3 ) * This truss ha on the botton 3-06-00 tall b chord and and b Bearing at joi using ANSI/T designer sho ) Provide mech bearing plate 8, 172 Ib upli at joint 6 and ) See Standard DAD CASE(S)	7-16; Vult=130mpł h; TCDL=6.0psf; E closed; MWFRS (e o 2-10-0, Corner(3) 5-10-0 to 8-4-5 zor J; end vertical left : and forces & MWF =1.60 plate grip DC ed for wind loads in ds exposed to wind I ndustry Gable Er alified building des 7-16; Pr=20.0 psf; ate DCL=1.15); Is= (; Cs=1.00; Ct=1.10; s been designed fc psf or 2.00 times fla on-concurrent with as continuous botto spaced at 4-0-0 oc. as been designed fc psf or 2.00 wide will y other members. are assumed to be int(s) 9, 8 considers PI 1 angle to grain uld verify capacity nanical connection capable of withsta ft at joint 4, 64 lb up 172 lb uplift at join d Industry Piggyban mection to base tru ided building design Standard	n (3-sec GCDL=6 nvelope R) 2-10 R) 2-10 cant and righ RS for DL=1.33 n the pla d (norm nd Deta igner as (roof LL Pf=13.9 =1.0; Rc ) or greate at roof k other liv or greate tat roof k other liv where fit betw SP No. s paralle formula of beari (by oth nding 6 colift at jot t 4. ck Truss uss as a ler.	cond gust) .0ps; h=25ft; a) and C-C Cc o to 5-10-0, illever left and tt exposed;C- reactions sho ane of the tru: al to the face ills as applical s per ANS/TF b psf (Lum b psf (Lum b psf (Lum b psf (Lum b psf (Lum b psf (Lum c load of 13.9 ps re loads. d bearing. e load of 20.0 a rectangle veen the botto 2. el to grain val a. Building ng surface. ers) of truss t s Connection applicable, or	Cat. priner C C Ss ), ble, 11.15 fully live sf on ue o oint uplift		. Annum.		SEA 0235	RO L 94 MILL 94 MILL 10 6,2025

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 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)

TRENCO A MiTek Affiliate

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	M1	Monopitch	18	1	Job Reference (optional)	174009708

#### Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:13 ID:joSjNCUwG4JKyJKerZ17G9zPcUa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:38.9

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MP	0.38 0.14 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 6 5-6 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 51 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=103 II; Exp B; E Exterior(27 7-9-0 zone vertical left forces & M DOL=1.60 2) TCLL: ASC Plate DOL DOL=1.15 Exp; Ce=1 3) Unbalance design.	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 'Exce 2x4 SP No.3 'Exce 2x4 SP No.3 Structural wood sh 6-0-0 oc purlins, e Rigid ceiling direct bracing. (size) 7=0-3-0, Max Horiz 7=90 (LL Max Uplift 7=-48 (L Max Uplift 7=-48 (L Max Grav 7=451 (I (lb) - Maximum Co Tension 1-2=0/50, 2-3=-406 4-5=-85/220 6-7=-205/66, 5-6=- 3-5=-395/211, 3-6 2-6=-2/360, 4-8=-3 CE 7-16; Vult=130mp mph; TCDL=6.0psf; Enclosed; MWFRS (c E) -1-10-3 to 1-1-13, e; cantilever left and t and right exposed; WFRS for reactions plate grip DOL=1.33 CE 7-16; Pr=20.0 psf; Plate DOL=1.15); Is 0.9; Cs=1.00; Ct=1.1 ed snow loads have t	pt* 7-2:2x6 SP No.2 eathing directly applied xcept end verticals. y applied or 10-0-0 oc 8=0-1-8 C 11), 8=-21 (LC 15), C 2), 8=315 (LC 22) mpression/Maximum /96, 3-4=-72/5, 197/369 0/68, 2-7=-440/261, 16/169 h (3-second gust) 3CDL=6.0psf; h=25ft; i nvelope) and C-C nterior (1) 1-1-13 to ight exposed ; end -C for members and shown; Lumber (roof LL: Lum DOL=1: Pf=13.9 psf (Lum =1.0; Rough Cat B; Fu ) een considered for thi	4) 5) d or 6) 7) 8) 9) <b>L (</b> Cat. .15 Illy s	This truss ha load of 12.0 p overhangs nd * This truss h on the botton 3-06-00 tall b chord and an Bearings are SP No.3 . Bearing at joi using ANSI/T designer sho Provide mect bearing plate 7 and 21 lb u DAD CASE(S)	s been designed for sef or 2.00 times fla on-concurrent with as been designed in chord in all areas y 2-00-00 wide will y other members. assumed to be: Joo nt(s) 8 considers p PI 1 angle to grain uld verify capacity nanical connection capable of withsta plift at joint 8. Standard	r greatit t roof lr other lin for a liv where fit betv int 7 SI arallel 1 formul: of bear (by oth nding 4	er of min roof pad of 13.9 ps ve loads. e load of 20.0 a rectangle veen the botto P No.2 , Joint o grain value a. Building ng surface. ers) of truss t ers) of truss t 8 lb uplift at jo	live sf on )psf om 8 0 o point				SEA 0235		
												Jun	e 6,2025	

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 BCEL Building Component Science Use Component Categories (http://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	Overhills-Roof-CL-20-020	
25040114-01	M4	Monopitch	2	1	Job Reference (optional)	174009709

4-0-4

4-0-4

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:13 ID:B3S2Vi821X5yxn8e5C1Zb0zPfz5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-0-8

4-0-4

Page: 1





#### Scale = 1:39.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 48 lb	FT = 20%
LUMBER	4) * This truss has been designed for a live load of 20.0psf											

TOP CHORD	2x4 SP No	.2
BOT CHORD	2x4 SP No	.2
WEBS	2x4 SP No	.3 *Except* 6-1:2x6 SP No.2
OTHERS	2x4 SP No	.3
BRACING		
TOP CHORD	Structural v	wood sheathing directly applied or
	6-0-0 oc pi	urlins, except end verticals.
BOT CHORD	Rigid ceilin	g directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	6=0-3-0, 7=0-1-8
	Max Horiz	6=64 (LC 11)
	Max Uplift	7=-22 (LC 11)
	Max Grav	6=315 (LC 22), 7=328 (LC 22)
FORCES	(lb) - Maxir	num Compression/Maximum
	Tension	·
TOP CHORD	1-2=-429/1	19, 2-3=-75/1, 3-4=-103/236
BOT CHORD	5-6=-155/5	5, 4-5=-230/399
WEBS	2-4=-429/2	47. 2-5=0/74. 1-6=-293/122.
	1-5=-76/39	9. 3-7=-329/180
		,

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum 2) DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

- This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 6 SP No.2, Joint 7 SP No.3.
- Bearing at joint(s) 7 considers parallel to grain value 6) using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to 7) bearing plate at joint(s) 7.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 7
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020				
25040114-01	М3	Monopitch	4	1	Job Reference (optional)	174009710			

## Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:13

Page: 1





Scale = 1:38.9

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MP	0.38 0.14 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 6 5-6 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 51 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 7=0-3-0, 8 Max Horiz 7=90 (LC Max Uplift 7=-48 (LC Max Grav 7=451 (LC (lb) - Maximum Com Tension 1-2=0/50, 2-3=-406/9 4-5=-85/220 6-7=-205/66, 5-6=-11 3-5=-395/211, 3-6=0 2-6=-2/360, 4-8=-311	t* 7-2:2x6 SP No.2 athing directly applie cept end verticals. applied or 10-0-0 oc 3=0-1-8 11) 11), 8=-21 (LC 15) 2), 8=315 (LC 22) pression/Maximum 96, 3-4=-72/5, 97/369 /68, 2-7=-440/261, 5/169	4) 5) d or 6) 7) 8) 9) Lt	<ul> <li>This truss ha load of 12.0   overhangs n</li> <li>This truss h</li> <li>This truss h</li> <li>on the bottor</li> <li>3-06-00 tall b</li> <li>chord and ar</li> <li>Bearings are SP No.3.</li> <li>Bearing at jo</li> <li>using ANSI/1</li> <li>designer sho</li> <li>Provide mect</li> <li>bearing plate</li> <li>Provide mect</li> <li>bearing plate</li> <li>7 and 21 lb u</li> <li>OAD CASE(S)</li> </ul>	s been designed for bosf or 2.00 times fla on-concurrent with has been designed in chord in all areas by 2-00-00 wide will y other members. assumed to be: Joc int(s) 8 considers p PI 1 angle to grain uld verify capacity hanical connection is at joint(s) 8. hanical connection capable of withsta plift at joint 8. Standard	or great at roof k other liv for a liv s where I fit betw bint 7 SI o formula of bear (by oth anding 4	er of min roof bad of 13.9 p: ve loads. e load of 20.0 a rectangle veen the bottu P No.2, Joint to grain value a. Building ing surface. ers) of truss t 8 lb uplift at j	i live sf on Opsf om 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
NOTES 1) Wind: ASI Vasd=103 II; Exp B; Exterior(2) 7-9-0 zon- vertical lei forces & M DOL=1.60 2) TCLL: AS Plate DOI DOL=1.15 Exp. Ce=	CE 7-16; Vult=130mph Bmph; TCDL=6.0psf; BG Enclosed; MWFRS (en E) -1-10-3 to 1-1-13, In e; cantilever left and rig ft and right exposed;C MWFRS for reactions si 0 plate grip DOL=1.33 CE 7-16; Pr=20.0 psf; E 7 plate DOL=1.15; Is=: 0 Plate DOL=1.15; Is=:	(3-second gust) CDL=6.0psf; h=25ft; velope) and C-C terior (1) 1-1-13 to iht exposed ; end C for members and hown; Lumber roof LL: Lum DOL=1; rf=13.9 psf (Lum 1.0; Rough Cat B; Fu	Cat. .15 ılly							A Kananana		SEA 0235	RONNEL 94

3) Unbalanced snow loads have been considered for this design.



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	VL7	Valley	2	1	Job Reference (optional)	174009711

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:17 ID:WXc9css?IJESoVETdVi3YgzPuSU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:35.7

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.25 0.24 0.19	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 35 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this desig 2) Wind: AS Vasd=100 II; Exp B; (3E) 0-0-( (3R) 4-0-( cantilever right export for reactic DOL=1.3 3) Truss des only. For see Stance or consult	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sl 7-11-9 oc purlins. Rigid ceiling direc bracing. (size) 1=8-0-0 Max Horiz 1=87 (L 4=-65 (l Max Grav 1=67 (L (LC 2) (lb) - Maximum Cc Tension 1-2=-151/262, 2-3 1-4=-215/191, 3-4 2-4=-553/254 ed roof live loads haven. CE 7-16; Vult=130m 3mph; TCDL=6.0psf; Enclosed; MWFRS ( 0 to 3-0-0, Exterior(21 0 to 7-0-0, Exterior(21 0 to 7-0-0, Exterior(21 1 left and right expose sed;C-C for member ons shown; Lumber E 3 signed for wind loads studs exposed to wid dard Industry Gable Et to aualifed building de	eathing directly applied ly applied or 6-0-0 oc , 3=8-0-0, 4=8-0-0 C 12) C 35), 3=-13 (LC 34), C 13) C 34), 3=67 (LC 35), 4 mpression/Maximum =-151/262 =-215/191 e been considered for h (3-second gust) BCDL=6.0psf; h=25ft; envelope) and C-C Co h) 3-0-0 to 4-0-0, Corne; d; end vertical left and s and forces & MWFR: OL=1.60 plate grip in the plane of the trus d (normal to the face) nd Details as applicab signer as per ANSI/TP	4) d or 6) 6) 7) 8) 9) =566 10 L0 Cat. crner er 5 S s, le, 11.	TCLL: ASCE Plate DOL=1 DOL=1.15 Pl Exp.; Ce=0.9 Gable require Gable studs : * This truss h on the botton 3-06-00 tall b chord and an All bearings a Provide mect bearing plate 1, 13 lb uplift DI Beveled plate surface with 1 DAD CASE(S)	7-16; Pr=20.0 psf, 15); Pg=20.0 psf; ate DOL=1.15); Is; ; Cs=1.00; Ct=1.11 ses continuous bottt spaced at 4-0-0 oc as been designed n chord in all areas y 2-00-00 wide wil y other members. are assumed to be nanical connection capable of withsta at joint 3 and 65 II e or shim required truss chord at joint Standard	(roof LL Pf=13.9 =1.0; Ro op om chor : for a liv s where I fit betv SP No. (by oth anding to uplift a to provi (s) 1, 3.	L: Lum DOL= ) psf (Lum ) ugh Cat B; F d bearing. e load of 20.0 a rectangle veen the botto 2. ers) of truss t 3 lb uplift at j de full bearing	1.15 fully Dpsf om oint				VVergni: 35 ID H CA SEA 0235	RO 1 94
		<u> </u>										R. N	MILLIN

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	VL5	Valley	1	1	Job Reference (optional)	174009712

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries. Inc. Thu Jun 05 13:53:17 ID:WXc9css?IJESoVETdVi3YgzPuSU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Sool	-	1.25	7
Judi	C =	1	. /

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.25 0.24 0.19	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 35 lb	<b>GRIP</b> 244/190 FT = 20%
ECDL LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 7-11-9 oc purlins. Rigid ceiling directly bracing. (size) 1=8-0-0, 3 Max Horiz 1=87 (LC Max Uplift 1=-13 (LC 4=-65 (LC Max Grav 1=67 (LC (LC 2) (lb) - Maximum Com Tension 1-2=-151/262, 2-3=- 1-4=-215/191, 3-4=- 2-4=-553/254	athing directly applied applied or 6-0-0 oc 3=8-0-0, 4=8-0-0 12) 35), 3=-13 (LC 34), 13) 34), 3=67 (LC 35), 4= pression/Maximum 151/262 215/191 been considered for	4)   or 6) 7) 8) 9) 5566 10 LC	TCLL: ASCE Plate DOL=1 DOL=1.15 PI Exp.; Ce=0.9 Gable require Gable studs s * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mect bearing plate 1, 13 lb uplift DAD CASE(S)	7-16; Pr=20.0 psf 15); Pg=20.0 psf; ate DOL=1.15); Is ; Cs=1.00; Ct=1.1; se continuous bott spaced at 4-0-0 oc as been designed n chord in all areas y 2-00-00 wide wil y 2-00-00 wide wil y 2-00-00 wide will y 2-00-00 wide will y 2-00-00 wide the nanical connection capable of withsta at joint 3 and 65 II e or shim required truss chord at joint Standard	f (roof LL Pf=13.S =1.0; Rc 0 om chor c. for a livs s where Il fit betw s SP No. (by oth anding 1 b uplift a to provi (s) 1, 3.	L: Lum DOL=1 9 psf (Lum ough Cat B; F d bearing. e load of 20.0 a rectangle veen the botto 2. ers) of truss tr 3 lb uplift at jo de full bearing	I.15 ully psf om obint				Weight: 35 lb	F1 = 20%
<ol> <li>Wind: ASC Vasd=103 II; Exp B; I (3E) 0-0-0 (3R) 4-0-0 (3R) 4-0-0 cantilever right expo- for reactio DOL=1.33</li> <li>Truss desi only. For see Stand or consult</li> </ol>	CE 7-16; Vult=130mph imph; TCDL=6.0psf; B0 Enclosed; MWFRS (en to 3-0-0, Exterior(2N) to 7-0-0, Exterior(2N) left and right exposed sed;C-C for members a ns shown; Lumber DO a igned for wind loads in studs exposed to wind ard Industry Gable End qualified building desig	(3-second gust) CDL=6.0psf; h=25ft; C velope) and C-C Corr 3-0-0 to 4-0-0, Corne 7-0-0 to 8-0-0 zone; ; end vertical left and and forces & MWFRS L=1.60 plate grip the plane of the truss (normal to the face), d Details as applicable gner as per ANSI/TPI	Cat. ner r e, 1.								A A A A A A A A A A A A A A A A A A A	SEA 0235	L 94 MILLERING

- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

June 6,2025
Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	N2	Monopitch	1	1	Job Reference (optional)	174009713

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:14 ID:Pb0WkMkGkE8xruIEI6v0q5zPenR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



## Scale = 1:55.8

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021/TPI20	14 CSI TC BC WB Matrix-MP	0.68 0.79 0.43	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.20 0.00	(loc) 3-4 3-4 3	l/defl >999 >389 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 55 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E 2x4 SP No.2 2x4 SP No.3 *Excep 2.0E Structural wood shee 6-11-0 oc purlins, e: Rigid ceiling directly bracing. 1 Row at midpt (size) 3= Mecha	t* 2-3:2x4 SP 2400F athing directly applie xcept end verticals. applied or 7-6-6 oc 2-3 nical, 4= Mechanical	5) Provio bearin 4 and 6) Load desig for th LOAD CA 1) Dea Incre Unifi V 3) Dea	de mechanical conr g plate capable of 176 lb uplift at joini case(s) 1, 3 has/ha her must review loa intended use of th <b>SE(S)</b> Standard d + Snow (balanced case=1.15 form Loads (lb/ft) ert: 1-2=-48, 4-5=-2 d + 0.75 Roof Live	hection (by oth withstanding 5 t 3. Ive been modif ads to verify tha his truss. d): Lumber Inco 20, 3-5=-35 (balanced) + 0	res) of truss t 4 lb uplift at j ied. Building at they are cc rease=1.15, f rease=1.15, f	to joint prrect Plate pr:					
FORCES TOP CHORD BOT CHORD WEBS	Max Horiz 4=291 (LC Max Uplift 3=-176 (L Max Grav 3=459 (LC (lb) - Maximum Com Tension 1-2=-407/429, 2-3=-/ 3-4=-545/549 1-3=-454/466	C 12) C 10), 4=-54 (LC 9) C 28), 4=402 (LC 29) pression/Maximum 473/372, 1-4=-372/27	Lum Unifi Vi	ber Increase=1.15, orm Loads (lb/ft) ert: 1-2=-50, 4-5=-2	Plate Increase	e=1.15						
<ul> <li>NOTES</li> <li>1) Wind: ASC Vasd=103 II; Exp B; E Exterior(2I Zone; cant and right e MWFRS fc grip DOL=</li> <li>2) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=</li> <li>3) * This truss on the bott 3-06-00 ta chord and</li> <li>4) Refer to gi</li> </ul>	CE 7-16; Vult=130mph imph; TCDL=6.0psf; B( Enclosed; MWFRS (en E) 0-1-12 to 3-1-12, Int tillever left and right exp exposed;C-C for memb or reactions shown; Lu :1.33 CE 7-16; Pr=20.0 psf ( :=1.15); Pg=20.0 psf ( :=1.15); Pg=20.0 psf ( :=1.15); Pg=20.0 psf ( :=1.15); Pg=20.0 psf ( :=1.15); S= 0.9; Cs=1.00; Ct=1.10 s has been designed fi tom chord in all areas t ull by 2-00-00 wide will any other members. irder(s) for truss to trus	(3-second gust) CDL=6.0psf; h=25ff; ( ivelope) and C-C terior (1) 3-1-12 to 6-5 boosed; end vertical le ters and forces & mber DOL=1.60 plate troof LL: Lum DOL=1. Yf=13.9 psf (Lum 1.0; Rough Cat B; Fu or a live load of 20.0p where a rectangle fit between the bottor is connections.	Cat. 9-4 9ft 15 Ily vsf								SEA 0235	ROJ 1 94 94 MILL MILL MILL MILL MILL MILL MILL MIL



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 BCEL Building Component Science Use Component Categories (http://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	Overhills-Roof-CL-20-020	
25040114-01	N1	Monopitch	6	1	Job Reference (optional)	174009714

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:13 ID:Pb0WkMkGkE8xruIEl6v0q5zPenR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



## Scale = 1:55.8

													_
Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 13.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB Matrix-MP	0.59 0.40 0.43	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a -0.12 0.00	(loc) - 3-4 3	l/defl n/a >688 n/a	L/d 999 180 n/a	<b>PLATES</b> MT20	<b>GRIP</b> 244/190	
BCDL	10.0	Code		Matrix-IVII							Weight: 55 lb	FT = 20%	
LUMBER FOP CHORD BOT CHORD WEBS	2x4 SP 2400F 2.0E 2x4 SP No.2 2x4 SP No.3 *Excep 2.0E	t* 2-3:2x4 SP 2400F	5) Provide mec bearing plate 4 and 205 lb LOAD CASE(S)	hanical connection capable of withsta uplift at joint 3. Standard	(by oth Inding 6	ers) of truss 0 lb uplift at	to joint						
	Structural wood sho	athing directly applie	d or										
	6-11-0 oc purlins, et	xcept end verticals.											
BOT CHORD	Rigid ceiling directly bracing.	applied or 7-8-2 oc											
WEBS	1 Row at midpt	2-3											
REACTIONS	(size) 3= Mecha Max Horiz 4=291 (LC	inical, 4= Mechanica C 12)	I										
	Max Uplift 3=-205 (L	C 10), 4=-60 (LC 9)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD BOT CHORD	1-2=-407/429, 2-3=-4 3-4=-545/549	473/372, 1-4=-372/2	76										
WEBS	1-3=-454/466												
NOTES		(2 ccccd suct)											
Vasd=103	mph: TCDL=6.0psf: B	CDL=6.0psf: h=25ft:	Cat.								, mining	11111	
II; Exp B; E	Enclosed; MWFRS (en	velope) and C-C									TH CA	ROIL	
Exterior(2E	E) 0-1-12 to 3-1-12, Int	terior (1) 3-1-12 to 6-	9-4							-	O	id mill	
zone; cant	ilever left and right exp	oosed ; end vertical l	eft							Z		millin	-
MWFRS fo	or reactions shown; Lu	mber DOL=1.60 plat	te							1	2	- K1 - E	
grip DOL=	1.33								=	:	SEA	1 1 5	
2) TCLL: AS( Plate DOL	CE 7-16; Pr=20.0 psf () –1 15): Pg=20.0 psf: F	roof LL: Lum DOL=1 2f=13.9 psf (Lum	.15						= =		0225		
DOL=1.15	Plate DOL=1.15); Is=	1.0; Rough Cat B; Fi	ully						3		0235	94 : 3	
Exp.; Ce=0	0.9; Cs=1.00; Ct=1.10											1 8	
<ol> <li>This trus: on the bott</li> </ol>	s has been designed for from chord in all areas i	or a live load of 20.0	psf							2.	X SNGIN	ERIAS	
3-06-00 ta	Il by 2-00-00 wide will	fit between the botto	m							14	OAL	E.S.	
chord and	any other members.										1, R. 1	MILTIN	
<ol><li>Refer to gi</li></ol>	rder(s) for truss to trus	s connections.									in min	mm	

June 6,2025

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TRENCO A MiTek Affiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB10	Piggyback	1	2	Job Reference (optional)	174009715

2-8-11

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

Scale = 1:31.5 Loading

TCLL (roof)

TCDL

BCLL

BCDL

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

1)

2)

3)

this design.

Snow (Pf/Pg)

Run: 8 73 S. Feb 19 2025 Print: 8 730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:15 ID:5H69pTDh1WnF32c45147QpzPcR2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-5-6

Page: 1

2-8-11 2-8-11 h-e-c 4x5 = 3 12 14 Г 3-7-12 3-9-6 5 6 2x4 🛚 2x4 = 2x4 = 5-5-6 2-0-0 CSI DEFL L/d PLATES GRIP (psf) Spacing in (loc) l/defl 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 244/190 1 15 BC 13 9/20 0 Lumber DOL 0.08 Vert(TL) n/a n/a 999 10.0 Rep Stress Incr YES WB 0.02 Horiz(TL) 0.00 5 n/a n/a 0.0 Code IRC2021/TPI2014 Matrix-MP 10.0 Weight: 54 lb FT = 20%Wind: ASCE 7-16; Vult=130mph (3-second gust) 4) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2x4 SP No.2 II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner 2x4 SP No.2 2x4 SP No.3 (3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate Structural wood sheathing directly applied or grip DOL=1.33 6-0-0 oc purlins. Truss designed for wind loads in the plane of the truss 5) Rigid ceiling directly applied or 6-0-0 oc only. For studs exposed to wind (normal to the face), bracing. see Standard Industry Gable End Details as applicable. **REACTIONS** (size) 1=6-5-13, 2=6-5-13, 4=6-5-13, or consult qualified building designer as per ANSI/TPI 1. 5=6-5-13, 6=6-5-13 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 6) Max Horiz 1=-70 (LC 9) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum Max Uplift 1=-204 (LC 29), 2=-111 (LC 13), DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully 6=-5 (LC 14) Exp.; Ce=0.9; Cs=1.00; Ct=1.10 1=121 (LC 10), 2=327 (LC 29). Max Grav Gable requires continuous bottom chord bearing. 5=96 (LC 2), 6=276 (LC 2) Gable studs spaced at 4-0-0 oc. 8) (lb) - Maximum Compression/Maximum \* This truss has been designed for a live load of 20.0psf Tension on the bottom chord in all areas where a rectangle 1-2=-137/208, 2-3=-153/159, 3-4=-82/77, 3-06-00 tall by 2-00-00 wide will fit between the bottom 4-5=-75/12 chord and any other members. 2-6=-93/106, 4-6=-93/106 10) All bearings are assumed to be SP No.2. 3-6=-203/69 11) Bearing at joint(s) 2, 4, 1, 5, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building The second secon designer should verify capacity of bearing surface. 2-ply truss to be connected together as follows: 12) Provide mechanical connection (by others) of truss to Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. bearing plate capable of withstanding 111 lb uplift at joint Bottom chords connected with 10d (0.131"x3") nails as 2, 204 lb uplift at joint 1, 5 lb uplift at joint 6 and 111 lb follows: 2x4 - 1 row at 0-9-0 oc. uplift at joint 2. All loads are considered equally applied to all plies, 13) See Standard Industry Piggyback Truss Connection except if noted as front (F) or back (B) face in the LOAD Detail for Connection to base truss as applicable, or consult qualified building designer. CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), LOAD CASE(S) Standard unless otherwise indicated. Unbalanced roof live loads have been considered for mann June 6,2025





Edenton, NC 27932

WWWWWWWW

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB11	Piggyback	7	1	Job Reference (optional)	174009716

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:15 ID:oxAWL48IhMvFjzakA3SUeKzPcR9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-0-6-0 11-6 2-8-11 5-5-6 2-8-11 2-8-11 0-6-0 4x5 = 3 12 14 Г 3-7-12 3-9-6 2 4 -5-10 1 5 6 2x4 = 2x4 🛛 2x4 = 5-5-6

Scale = 1:31.6

Plate Offsets	(X, Y): [2:0-2-10,0-1-0]	], [4:0-2-10,0-1-0]												
<b>Loading</b> TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MP	0.12 0.13 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=103	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she: 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=5-5-6, 4 Max Horiz 2=-70 (LC Max Uplift 2=-10 (LC Max Uplift 2=-10 (LC (LC 2) (lb) - Maximum Com Tension 1-2=0/18, 2-3=-157/ 4-5=0/18 2-6=-37/74, 4-6=-37/ 3-6=-44/22 ed roof live loads have n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; B(	athing directly applie applied or 10-0-0 or 4=5-5-6, 6=5-5-6 ; 11) ; 14), 4=-8 (LC 14) C 2), 4=164 (LC 2), 6 upression/Maximum 85, 3-4=-157/85, /78 been considered for (3-second gust) CDL=6.0psf; h=25ft;	4) 5) c 6) 7) 8) 5)=146 9) 10 11 11 Cat.	TCLL: ASCE Plate DOL=1 DOL=1.15 P Exp.; Ce=0.9 This truss ha load of 12.0 overhangs n Gable requir Gable studs * This truss f on the bottor 3-06-00 tall t chord and ar All bearings 1 0) Provide mec bearing plate 2, 8 lb uplift a at joint 4. ) See Standar Detail for Co consult quali	<ul> <li>7-16; Pr=20.0 psf.</li> <li>.15); Pg=20.0 psf;</li> <li>late DOL=1.15); ls</li> <li>cs=1.00; Ct=1.1</li> <li>ls been designed f</li> <li>psf or 2.00 times fl</li> <li>on-concurrent with</li> <li>es been designed</li> <li>n chord in all areas</li> <li>by 2-00-00 wide wi</li> <li>by other members.</li> <li>are assumed to be</li> <li>hanical connectior</li> <li>e capable of withsta</li> <li>at joint 4, 10 lb upli</li> <li>d Industry Piggyba</li> <li>nnection to base tr</li> <li>field building desig</li> <li>Standard</li> </ul>	(roof LI Pf=13.5) =1.0; R0 0 or great at roof lo other li om chor 5. for a liv s where I fit betw s SP No. 6 (by oth anding 1 ft at join ack Trus uss as a ner.	:: Lum DOL= ) psf (Lum ) ugh Cat B; F er of min roof ) pad of 13.9 ps // loads. d bearing. e load of 20.0 a rectangle veen the bottor 2. ers) of truss t o lb uplift at j t 2 and 8 lb u s Connection applicable, or	1.15 Fully for sign of the sig				HTH CA	ROLLET	
11; Exp B; (3E) zone	Enclosed; IVIVERS (en	ivelope) and C-C Co	tical									1 7 1	K .	-

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



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A Millek A 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	CJ3	Jack-Open	4	1	Job Reference (optional)	174009717

# Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:10 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





## Scale = 1:27.2

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	1:	(psf) 20.0 3.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.62 0.33 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.06 -0.10 0.05	(loc) 4-5 4-5 3	l/defl >999 >706 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x6 SP N Structura 6-0-0 oc µ Rigid ceil bracing. (size) Max Horiz Max Uplift Max Grav	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	athing directly applie cept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 11) 15), 5=-51 (LC 11) 22), 4=69 (LC 22), 22)	5) 6) 2d or 7) 8) 5	* This truss h on the bottor 3-06-00 tall h chord and ar Bearings are Refer to gird Provide mec bearing plate 5 and 40 b to DAD CASE(S)	has been designed in chord in all area by 2-00-00 wide w by other members assumed to be: , er(s) for truss to tr hanical connectio e capable of withsi uplift at joint 3. Standard	d for a liv s where iill fit betv Joint 5 \$ russ conr n (by oth tanding 5	e load of 20. a rectangle veen the bott SP No.2 . nections. ers) of truss i 1 lb uplift at j	Opsf om to joint						
FORCES	(lb) - Max Tension	imum Com	pression/Maximum												
TOP CHORD BOT CHORD	2-5=-357/ 4-5=0/0	243, 1-2=0	/50, 2-3=-77/49												
<ol> <li>Wind: ASt Vasd=103 II; Exp B; Exterior(2 6-0-15 zor vertical lei forces &amp; M DOL=1.60</li> </ol>	CE 7-16; Vu 3mph; TCDL Enclosed; M E) -1-10-3 to ne; cantilevo ft and right o /WFRS for 1 0 plate grip [	It=130mph =6.0psf; B0 IWFRS (en o 1-1-13, In or left and ri exposed;C- reactions sl DOL=1.33	(3-second gust) CDL=6.0psf; h=25ft; velope) and C-C terior (1) 1-1-13 to ight exposed ; end C for members and hown; Lumber	Cat.									HTH CA	ROLIN	

- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

SEAL 023594 WGINEER HUMAN June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	CJ2	Jack-Open	4	1	Job Reference (optional)	174009718

-1-10-8

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

## Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:10 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-1-11

Page: 1





Scale = 1:25.7

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MR	0.38 0.18 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.02 0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x6 SP No.2 Structural wood she 4-1-11 oc purlins, e Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-0 Max Horiz 5=50 (LC Max Uplift 3=-26 (LC Max Grav 3=104 (LI 5=364 (LI	eathing directly applie except end verticals. <sup>7</sup> applied or 10-0-0 or anical, 4= Mechanica 11) 2 15), 5=-57 (LC 11) C 22), 4=34 (LC 20), C 22)	5) * This tru on the bo 3-06-00 chord an 6) Bearings 7) Refer to 8) Provide 1 bearing 1 5 and 26 al, LOAD CASE	ss has been designed totom chord in all area all by 2-00-00 wide w d any other members are assumed to be: , girder(s) for truss to tr nechanical connection late capable of withst lb uplift at joint 3. (S) Standard	d for a liv is where ill fit betv Joint 5 \$ russ conr n (by oth tanding 5	le load of 20.0 a rectangle veen the botto SP No.2 . nections. ers) of truss t 7 lb uplift at j	Opsf om to oint					
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Con Tension 2-5=-319/215, 1-2=0 4-5=0/0	0/50, 2-3=-54/31										
NOTES 1) Wind: AS( Vasd=103) II; Exp B; I Exterior(2I 4-0-15 zor vertical lef forces & M DOL=1.60 2) TCLL: AS( Plate DOL DOL=1.15 Exp.; Ce= 3) Unbalance design. 4) This truss load of 12 overhangs	CE 7-16; Vult=130mpf imph; TCDL=6.0psf; B Enclosed; MWFRS (et E) -1-10-3 to 1-1-13, In e; cantilever left and it t and right exposed;C- IWFRS for reactions s 0 plate grip DOL=1.33 CE 7-16; Pr=20.0 psf; I c=1.15); Pg=20.0 psf; I c Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10 ed snow loads have be has been designed fo .0 psf or 2.00 times fla s non-concurrent with 0	a (3-second gust) CDL=6.0psf; h=25ft; hvelope) and C-C iterior (1) 1-1-13 to right exposed ; end -C for members and thown; Lumber (roof LL: Lum DOL=1 Pf=13.9 psf (Lum -1.0; Rough Cat B; Fu been considered for th r greater of min roof t roof load of 13.9 ps other live loads.	Cat. 1.15 ully live live						THURSE STREET	and a state of the	SEA 0235	L 94 MILLERING

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

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R. M H. MIL June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	K1	Flat Girder	1	2	Job Reference (optional)	174009719

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:12 ID:xf2Rz1cEZbaL2Co8usBBGUzOZmj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3-0-1





Scale =	1:25
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 NO IRC2021	I/TPI2014	CSI TC BC WB Matrix-MP	0.15 0.53 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.00	(loc) 3-4 3-4 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 57 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 2-0-0 oc purlins: 1-2 Rigid ceiling directly bracing. (size) 3= Mecha Max Horiz 4=-70 (LC Max Grav 3=967 (LC (lb) - Maximum Com Tension 1-4=-109/49, 1-2=-2: 3-4=-62/55 1-3=-43/43	, except end verticals applied or 10-0-0 oc nical, 4= Mechanical : 7) C 3), 4=861 (LC 3) pression/Maximum 8/21, 2-3=-109/25	5) 6) 7) 5. 8) 9) 10	Unbalanced design. Provide adec * This truss h on the bottom 3-06-00 tall b chord and an Refer to girde Graphical pu or the orienta bottom chorco Hanger(s) or provided suff lb down at 1 bottom chorco device(s) is t	snow loads have quate drainage to las been designen n chord in all area y 2-00-00 wide w y other members er(s) for truss to tu rlin representation tion of the purlin l. other connection icient to support of -1-12, and 788 lb l. The design/sel he responsibility of Standard	been cor prevent of d for a live swhere rill fit betw russ conr n does no along the device(s concentra down at ection of of others.	vater ponding e load of 20.0 a rectangle veen the botto nections. bt depict the s top and/or ) shall be tted load(s) 7 3-1-12 on such connect	nis g. opsf om size 86					
NOTES 1) 2-ply truss (0.131"x3") Top chords oc. Bottom chords oc. Bottom chords oc. Bottom chords oc. Bottom chords oc. Bottom chords oc. Provided to unless othe 3) Wind: ASC Vasd=1037 II; Exp B; E and right e: Lumber DOL DOL=1.15 Exp.; Ce=0	to be connected toget or nails as follows: a connected as follows at 0-9-0 oc. acted as follows: 2x4 - re considered equally bited as front (F) or bar ection. Ply to ply conro distribute only loads erwise indicated. E 7-16; Vult=130mph mph; TCDL=6.0psf; Br inclosed; MWFRS (er Sposed ; end vertical I DL=1.60 plate grip DO E 7-16; Pr=20.0 psf; F Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10;	ther with 10d 5: 2x4 - 1 row at 0-9-0 cows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LOA noted as (F) or (B), (3-second gust) CDL=6.0psf; h=25ft; C ivelope); cantilever le eft and right exposed L=1.33 roof LL: Lum DOL=1. Pf=18.9 psf (Lum 1.0; Rough Cat B; Ful Lu=50-0-0	1) AD Cat. ft ; 15 Ily	Dead + Snc Increase=1. Uniform Loa Vert: 1-2: Concentrate Vert: 5=-0	w (balanced): Lu 15 ads (lb/ft) =-56, 3-4=-19 ad Loads (lb) 626 (F), 6=-628 (l	mber Inc	rease=1.15, F	Plate				SEA 0235	ROLL 94 EER. FR. MILL NILL 10 6 2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	VL8	Valley	2	1	Job Reference (optional)	174009720

1-11-13

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:17 ID:WXc9css?IJESoVETdVi3YgzPuSU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-8-10

3-11-9

Page: 1





3-11-9

Scale = 1:27.2

-												
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.04	<b>DEFL</b> Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
	10.0	Rep Stress Incr	YES	WB Motrix MD	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/1PI2014	Mathx-MP	_						Weight: 16 lb	FT = 20%
LUMBER			6) Gable st	uds spaced at 4-0-0 o	DC.							
TOP CHORD	2x4 SP No.2		7) * This tru	iss has been designe	d for a liv	e load of 20.0	Opsf					
BOT CHORD	2x4 SP No.2		on the b	ottom chord in all are	as where	a rectangle						
OTHERS	2x4 SP No.3		3-06-00 chord ar	d any other members		veen the botto	om					
BRACING	Other strengt was a disk a	- the internation of the second in	All beari	has are assumed to h	e SP No	2						
TOP CHORD	Structural wood she	athing directly applie	ed or 9) Provide	mechanical connection	on (by oth	ers) of truss to	0					
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc	bearing	plate capable of withs	standing 9	) Ib uplift at joi	int 4.					
201 0110112	bracing.											
REACTIONS	(size) 1=4-0-0, 3	3=4-0-0, 4=4-0-0	10) Beveled	plate or shim require	d to provi	de full bearing	g					
	Max Horiz 1=-41 (LC	C 9)		Mill liuss choid al joi	m(s) 1, 3.							
	Max Uplift 4=-9 (LC	13)	LUAD CASE	(3) Stanuaru								
	Max Grav 1=57 (LC (LC 2)	34), 3=57 (LC 35), 4	4=219									
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension	150										
TOP CHORD	1-2=-47/58, 2-3=-47	/53										
BOT CHORD	1-4=-65/69, 3-4=-65	/69										
NOTES	2-4149/01											
1) Unbalanc	ed roof live loads have	been considered fo	r									
this desig	n.											n
2) Wind: AS	 CE 7-16; Vult=130mph	(3-second gust)										in the second se
Vasd=103	Bmph; TCDL=6.0psf; B	CDL=6.0psf; h=25ft;	; Cat.								WITH UF	ROUL
II; Exp B;	Enclosed; MWFRS (er	velope) and C-C Co	orner							Z		
(3E) zone	; cantilever left and rig	ht exposed ; end ver	rtical							32	top IC	Nilla-
left and ri	ght exposed;C-C for m	embers and forces a	Š.									
arin DOL			ale									. 11 E
<ol> <li>3) Truss des</li> </ol>	aned for wind loads in	the plane of the true	ss						=		SEA	
only. For	studs exposed to wind	(normal to the face	),						- E		0235	94
see Stand	dard Industry Gable En	d Details as applical	ble,									1 2
or consult	qualified building desi	gner as per ANSI/TF	PI 1.									- 1 - S -
4) ICLL: AS	CE 7-16; Pr=20.0 psf (	root LL: Lum DOL=	1.15							2	X SNOW	EFRID S
DOI = 1.1	5 Plate DOI =1 15); Is-	-1=13.9 psi (Lum :1.0: Rough Cat B: F	ully							14	O	55 6 8
Exp.; Ce=	=0.9; Cs=1.00; Ct=1.10	,	,								YR	MILLIN

5) Gable requires continuous bottom chord bearing.

June 6,2025



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	VL6	Valley	1	1	Job Reference (optional)	174009721

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:17 ID:WXc9css?IJESoVETdVi3YgzPuSU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.3

Plate Offsets (X, Y): [2:Edge,0-2-7]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MP	0.10 0.10 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD 2x4 SP BOT CHORD 2x4 SP BRACING TOP CHORD Structu 3-11-9 BOT CHORD Rigid cd bracing REACTIONS (size) Max Hori Max Grai FORCES (b) - Mi Tensior TOP CHORD 1-2=-22 BOT CHORD 1-2=-22 BOT CHORD 1-3=-18 NOTES 1) Unbalanced roof livit this design. 2) Wind: ASCE 7-16; \ Vasd=103mph; TCI I; Exp B; Enclosed; (3E) zone; cantileve left and right expose MWFRS for reaction grip DOL=1.33 3) Truss designed for to only. For studs exp see Standard Indus or consult qualified 4) TCLL: ASCE 7-16; I Plate DOL=1.15; P DOL=1.15 Plate DO Exp.; Ce=0.9; Cs=1 5) Gable requires cont 6) Gable studs spaced	No.2 No.2 No.2 ral wood she oc purlins. illing directly iz 1=-41 (LC v 1=160 (LC aximum Com b 20/45, 2-3=-2 3/135 e loads have /ult=130mph DL=6.0psf; Bi MWFRS (er er left and rigi MWFRS  (er er left and	athing directly applied applied or 10-0-0 oc 3=4-0-0 9) 2 2), 3=160 (LC 2) pression/Maximum 20/45 been considered for (3-second gust) CDL=6.0psf; h=25ft; (velope) and C-C Con the exposed; end verti embers and forces & mber DOL=1.60 plate the plane of the truss (normal to the face), d Details as applicable gner as per ANSI/TPI roof LL: Lum DOL=1. 2f=13.9 psf (Lum 1.0; Rough Cat B; Fu m chord bearing.	7) * This tr on the b 3-06-00 chord a 8) All bear 9) Bevelec surface LOAD CAS	uss has been designed ottom chord in all area tall by 2-00-00 wide w nd any other members ings are assumed to b plate or shim required with truss chord at join E(S) Standard	d for a liv as where vill fit betv e SP No. 4 to provi ht(s) 1, 3.	e load of 20.0p: a rectangle veen the bottom 2 . de full bearing	sf				SEA 0235	RO PO PA	

ENGINEERING BY

June 6,2025

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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB14	Piggyback	2	2	Job Reference (optional)	174009722

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16 ID:\_Jt6DfUs5zQH4Hj6pxy2nEzPcQj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



12 14 Г





3x5 =

2-3-11

Scale = 1:30.4

## Plate Offsets (X, Y): [2:0-2-10,0-1-0], [3:Edge,0-2-7], [4:0-2-10,0-1-0]

				-									
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0 2x4 SP No.2 2x4 SP No.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014 Truss design only. For str see Standar	CSI TC BC WB Matrix-MP	0.01 0.01 0.00 s in the pla vind (norm End Deta	DEFL Vert(LL) Vert(CT) Horz(CT) ane of the tru al to the face ils as applica	in n/a n/a 0.00 ss ), ble,	(loc) - - 2	l/defl n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 22 lb	<b>GRIP</b> 244/190 FT = 20%
BRACING TOP CHORD BOT CHORD REACTIONS	Structural wood shea 3-4-2 oc purlins. Rigid ceiling directly bracing. (size) 2=2-3-11, Max Horiz 2=-34 (LC Max Grav 2=111 (LC	athing directly applied applied or 10-0-0 oc 4=2-3-11 11) 2 2), 4=111 (LC 2)	d or 6) 7) 8)	or consult qu TCLL: ASCE Plate DOL= DOL=1.15 F Exp.; Ce=0. This truss ha load of 12.0 overhangs n Gable requi	Jalified building d 57-16; Pr=20.0 p 1.15); Pg=20.0 ps Plate DOL=1.15); 9; Cs=1.00; Ct=1 as been designed psf or 2.00 times ion-concurrent wi res continuous bo	lesigner as osf (roof LL sf; Pf=13.9 Is=1.0; Ro .10 d for great flat roof lo ith other lin ottom chor	s per ANSI/TI :: Lum DOL= ) psf (Lum ) psf (Cat B; F er of min roof ) pad of 13.9 p /e loads. d bearing.	PI 1. 1.15 Fully Flive sf on					
<ul> <li>FORCES</li> <li>TOP CHORD BOT CHORD</li> <li>NOTES</li> <li>1) 2-ply truss Top chords bottom cho follows: 2x4</li> <li>2) All loads ar except if no CASE(S) s provided to unless othe</li> <li>3) Unbalancee this design.</li> <li>4) Wind: ASC</li> <li>Vasd=103n II; Exp B; E (3E) zon; left and righ MWFRS fo grip DOL=1</li> </ul>	(lb) - Maximum Com Tension 1-2=0/18, 2-3=-66/25 2-4=-14/38 to be connected toget s connected with 10d ( 4 - 1 row at 0-9-0 oc. re considered equally ords connected with 10 4 - 1 row at 0-9-0 oc. re considered equally oted as front (F) or bac ection. Ply to ply conn ection. Ply to ply conn o distribute only loads n erwise indicated. d roof live loads have E 7-16; Vult=130mph mph; TCDL=6.0psf; B0 inclosed; MWFRS (en cantilever left and righ th exposed;C-C for me r reactions shown; Lut 1.33	pression/Maximum 5, 3-4=-66/25, 4-5=0/ ther as follows: (0.131"x3") nails as 0d (0.131"x3") nails as 0d (0.131"x3") nails a applied to all plies, ck (B) face in the LO/ tections have been noted as (F) or (B), been considered for (3-second gust) CDL=6.0psf; h=25ft; ( velope) and C-C Cor the exposed; end verti embers and forces & mber DOL=1.60 plate	9) 10 118 11 12 12 15 LC AD Cat. mer ical e	Gable studs ) * This truss on the botto 3-06-00 tall chord and a ) All bearings ) See Standar Detail for CC consult qual DAD CASE(S)	spaced at 4-0-0 has been designe m chord in all are by 2-00-00 wide v ny other member are assumed to t rd Industry Piggyl onnection to base ified building desi Standard	oc. ed for a liv as where will fit betv s. be SP No. back Trus e truss as a igner.	e load of 20.1 a rectangle veen the both 2 . s Connection applicable, or	Dpsf om				SEA 0235	ROL 94 EEER EER

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June 6,2025

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB13	Piggyback	4	1	Job Reference (optional)	174009723

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:16 ID:DnO4XwNr\_VQP726aLFpASYzPcQr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



2-3-11



## Scale = 1:30.2

Plate Offsets (X, Y): [3:Edge,0-2-7]

·`													
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15		BC	0.04	Vert(TL)	n/a	-	n/a	999	-	
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TF	PI2014	Matrix-MP								
BCDL	10.0											Weight: 11 lb	FT = 20%
LUMBER			6) G	able studs :	spaced at 4-0-0 c	C.							
TOP CHORD	2x4 SP No.2		7) * <sup>-</sup>	This truss h	as been designe	d for a liv	e load of 20.0	)psf					
BOT CHORD	2x4 SP No.2		or	n the botton	n chord in all area	as where	a rectangle						
BRACING			3-	-06-00 tall b	y 2-00-00 wide w	vill fit betv	veen the botto	om					
TOP CHORD	Structural wood she 3-4-2 oc purlins.	athing directly applie	dor ch 8)Al	nord and an II bearings a	y other members are assumed to b	s. be SP No.	2.						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	; 9) Be va	earing at joi alue using A	int(s) 2, 4, 1, 5, 2 ANSI/TPI 1 angle	consider to grain f	s parallel to g ormula. Build	rain ding					
REACTIONS	(size) 1=3-4-2, Max Horiz 1=-34 (LC Max Uplift 1=-78 (LC Max Grav 1=24 (LC 5-100 (L)	2=3-4-2, 4=3-4-2, 5= 2 9) 2 29), 2=-11 (LC 13) 10), 2=215 (LC 29), 2 2)	3-4-2 de 3-4-2 10) Pi be 2, 11) Se	esigner sho rovide mecl earing plate , 78 lb uplift ee Standare	uld verify capacit hanical connectio capable of withs at joint 1 and 11 d Industry Piggyb	ty of beari on (by oth standing 1 Ib uplift a back Trus	ng surface. ers) of truss to 1 lb uplift at jo t joint 2. s Connection	o oint					
FORCES	(lb) - Maximum Con	npression/Maximum	D	etail for Cor	nnection to base fied building desig	truss as a oner	applicable, or						
	Tension		LOAD	CASE(S)	Standard	9							
TOP CHORD	1-2=-40/95, 2-3=-75 4-5=-87/24	6/27, 3-4=-76/22,		(0)	etandara								
BOT CHORD	2-4=-32/48												
NOTES													
1) Unbalance	ed roof live loads have	been considered for											
this design	). DE 7.40: \/k400	(0										minin	ing.
<ol> <li>Wind: ASC Vasd=103i II; Exp B; E (3E) zone; left and rig MWFRS fc grip DOL=</li> <li>Truss desi only. For s see Standa</li> <li>TCLI - ASC</li> </ol>	The full sumption of the probability of the probabi	I (3-second gust) CDL=6.0psf; h=25f; velope) and C-C Co ht exposed ; end verl embers and forces & umber DOL=1.60 plat the plane of the trus ( normal to the face) d Details as applicab gner as per ANSI/TP (roof II - 1 um DOI = 1	Cat. rner tical s s , le, I 1. 15							. annum.		SEA 0235	ROU L 94
Plate DOL DOL=1.15 Exp.; Ce=( 5) Gable requ	=1.15); Pg=20.0 psf; Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10 uires continuous botto	Pf=13.9 psf (Lum 1.0; Rough Cat B; Fu m chord bearing.	ılly								in the	WGIN WY R. Jur	e 6,2025



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Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020	
25040114-01	PB12	Piggyback	2	1	Job Reference (optional)	174009724

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:15 ID:wRTR3XISdMXPnz3ERHBXg4zPcQy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



2x4 II

2-3-11

Scale = 1:32.4

Plate Offsets (	(X, Y): [2:0-2-10,0-1-0]	], [4:0-2-10,0-1-0]												
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MP	0.02 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 13 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103 II; Exp B; I Exterior(2) vertical lef forces & M DOL=1.6C 3) Truss desi only. For see Stand or consult 4) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheat 3-4-2 oc purlins. Rigid ceiling directly bracing. (size) 2=2-3-11, Max Horiz 2=-34 (LC Max Uplift 2=-1 (LC Max Uplift 2=-1 (LC (LC 2) (lb) - Maximum Com Tension 1-2=0/18, 2-3=-49/2: 2-6=-21/35, 4-6=-21/ 3-6=-24/0 ed roof live loads have n. CE 7-16; Vult=130mph Bmph; TCDL=6.0psf; Bd Enclosed; MWFRS (en E) zone; cantilever left ft and right exposed; C- MWFRS for reactions s1 igned for wind loads in studs exposed to wind lard Industry Gable Eniq qualified building desig qualified building desig cE 7-16; Pr=20.0 psf; F 5 Plate DOL=1.15); Is=- 0.9; Cs=1.00; Ct=1.10	athing directly applie applied or 10-0-0 oc 4=2-3-11, 6=2-3-11 :11) 14), 4=-1 (LC 14) 2), 4=76 (LC 2), 6=7 pression/Maximum 2, 3-4=-50/23, 4-5=0, /35 been considered for (3-second gust) CDL=6.0psf; h=25ft; velope) and C-C and right exposed ; o C for members and hown; Lumber the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP roof LL: Lum DOL=1 2f=13.9 psf (Lum 1.0; Rough Cat B; FL	5) 6) 7) d or 8) 9) 1( 0 1 1 /18 L( /18 L( /18 L( /18 L( /18 L( /11) /11. .15 /11. .15	<ul> <li>This truss ha load of 12.0   overhangs n</li> <li>Gable requir</li> <li>Gable studs</li> <li>* This truss h on the bottor 3-06-00 tall b chord and ar</li> <li>Provide mec bearing plate 1 lb uplift at j joint 4.</li> <li>See Standarn Detail for Co consult quali</li> </ul>	s been designed f psf or 2.00 times f on-concurrent with es continuous bott spaced at 2-0-0 or ias been designed in chord in all area by 2-00-00 wide with y other members. are assumed to be hanical connection e capable of withst oint 4, 1 lb uplift a d Industry Piggyba nnection to base t fied building desig Standard	or great lat roof lin other lin com chor c. I for a liv s where ill fit betw e SP No. h (by oth anding 1 t joint 2 a ack Trus ner.	er of min roof bad of 13.9 ps ve loads. d bearing. e load of 20.0 a rectangle veen the botto 2. ers) of truss t l b uplift at joi and 1 lb uplift s Connection applicable, or	live sf on opsf om int 2, at				SEA 0235	RO L 94 EER. F. MILL MILL MILL De 6,2025	
WARN	NING - Verify design paramete	rs and READ NOTES ON 1	THIS AND IN	ICLUDED MITEK RI	EFERENCE PAGE MII-	7473 rev. 1	/2/2023 BEFORE	USE.				ENGINEEI		

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TRENCED A MITEK Affiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Overhills-Roof-CL-20-020		
25040114-01	CJ1	Jack-Open	4	1	Job Reference (optional)	174009725	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu Jun 05 13:53:10 ID:jtufIM7QGDz5JdZRXUWK2ozPfz6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







## Scale = 1:24.3

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.38 0.17 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x6 SP No.2 2t1-11 oc purlins, e: Rigid ceiling directly bracing. (size) $3=$ Mecha 5=0-3-0 Max Horiz $5=34$ (LC Max Uplift $3=-31$ (LC 5=-72 (LC Max Grav $3=14$ (LC (LC 22)	athing directly applied xcept end verticals. applied or 10-0-0 oc inical, 4= Mechanical, 12) 21), 4=-21 (LC 21), 21), 4=16 (LC 11), 5=	5) * This tru on the by 3-06-00 chord an 6) Bearings d or 7) Refer to 8) Provide u bearing p 5, 31 lb u LOAD CASE	ss has been designe titom chord in all area all by 2-00-00 wide w d any other members are assumed to be: , girder(s) for truss to tr nechanical connectio plate capable of withs plift at joint 3 and 21 (S) Standard	d for a liv as where vill fit betw , , Joint 5 S russ conr n (by oth tanding 7 Ib uplift a	e load of 20. a rectangle veen the bott SP No.2 . nections. ers) of truss '2 lb uplift at t joint 4.	Opsf om to joint					
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASG Vasd=103 II; Exp B; Exterior(2 2-0-15 zoo vertical lef forces & M DOL=1.60 2) TCLL: AS Plate DOL DOL=1.15 Exp.; Ce= 3) Unbalance design. 4) This truss load of 12 overhangs	(lb) - Maximum Com Tension 2-5=-256/197, 1-2=0 4-5=0/0 CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; Bt Enclosed; MWFRS (en E) -1-10-3 to 1-1-13, In ne; cantilever left and r ft and right exposed; C- MWFRS for reactions si 0 plate grip DOL=1.33 CE 7-16; Pr=20.0 psf; [L= =1.15); Pg=20.0 psf; [L= 5 Plate DOL=1.15); Is= 5 Plate DOL=1.15); Is= 5 Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10 ed snow loads have be has been designed for .0 psf or 2.00 times flat s non-concurrent with c	pression/Maximum //50, 2-3=-36/14 (3-second gust) CDL=6.0psf; h=25ft; ( invelope) and C-C invelope) and	Cat. 15 Ily s ve on								SEA 0235	L 94

June 6,2025

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GINEERING















(06) STRONGBACK DETAILS

SECURE W/(3)166 NAUS & EACH VERTICAL. LOCATE AS CLOSE TO BOTTOM CHOR) AS POSSIBLE. STRONGBACKS SPACED AT 10"-O" (MAX) ARE REQUIRED TO MAINTAINS CERTAIN FIRE ASSEMBLES. STRONGBACKS ARE RECOVINENDED TO MINIMIZE VIDRATION.

2)16d NAILS @ TOP & BOTTOM

