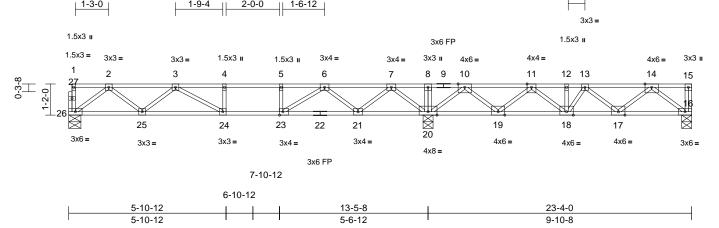


Model: Norris Rev 1 Address: City: State: NC General Truss Engineering Criteria & Design Loads Drawings Show Special Loading Conditions): Design Code: IRC2021/TPI2014 Wind Code: ASCE 7-16	n: DRB Raleigh
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Truss Name Date O 2F2DT 6/9/25
341740383972F3GE 2F4GE6/9/25341740383982F4GE6/9/25The truss drawing(s) referenced above have been prepared b Truss Engineering Co. under my direct supervision based or provided by Structural, LLC.Truss Design Engineer's Name: Gilbert, EricMy license renewal date for the state of North Carolina is DIMPORTANT NOTE: The seal on these truss component designs i that the engineer named is licensed in the jurisdiction(s) identified and the designs comply with ANSI/TPI 1. These designs are based upon parameter shown (e.g., loads, supports, dimensions, shapes and design codes), wh given to MITek or TRENCO. Any project specific information included is TRENCO's customers file reference purpose only, and was not taken into preparation of these designs. MiTek or TRENCO has not independently applicability of the design parameters or the designs for any particular but the building designer should verify applicability of design parameters and incorporate these designs into the overall building design per ANSI/TPI 1	Iding. Before use, properly

Gilbert, Eric

',

Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor				
1F1		Floor	4	1	Job Reference (optional)	174038365			
Structural, LLC, Thurmont, MD - 21788,			Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:37:58 ID:q4QKpz4bvLtXtHYbqxhrnMzBQR7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f						
	0-1-8								
H ⊥ 1-3-0 ⊥ ⊥		⊥ 1-9-4 ⊥⊥ 2-0-0 ⊥⊥ 1-6-12 ⊥			0-7-8				







Scale = 1:43.1

Plate Offsets (X, Y): [23:0-1-8,Edge]

	, , , , , <u>L</u>												
Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	(psi) 40.0	Plate Grip DOL	1-7-3		TC	0.90		-0.13	(100) 24-25	>999	480	MT20	244/190
TCDL	40.0	Lumber DOL	1.00		BC	0.90	Vert(CT)	-0.13	24-25	>999	460 360	101120	244/190
BCLL	0.0	Rep Stress Incr	NO		WB	0.60	Horz(CT)	0.03	16	>009 n/a	n/a		
BCDL	5.0	Code	IRC2021/	TDI2014	Matrix-S	0.00	11012(01)	0.05	10	n/a	n/a	Weight: 118 lb	FT = 20%F, 12%E
BCDL	5.0	Code	IRC2021/	1 12014	Maurix-S					-		weight. The ib	FI = 20%F, 12%E
LUMBER			3)	Recommend	2x6 strongbacks,	on edge	e, spaced at						
TOP CHORD	2x4 SP No.2(flat)		,	10-00-00 oc a	and fastened to ea	ach truss	s with 3-10d						
BOT CHORD	· · ·			(0.131" X 3")	nails. Strongback	s to be	attached to v	valls					
WEBS	2x4 SP No.3(flat)				ends or restrained								
OTHERS	2x4 SP No.3(flat)		4)	CAUTION, D	o not erect truss b	ackwar	ds.						
BRACING			LOA	D CASE(S)									
TOP CHORD	Structural wood she	athing directly applie	dor 1)		or Live (balanced):	Lumbe	r Increase=1	.00,					
	6-0-0 oc purlins, ex			Plate Increa									
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc		Uniform Loa									
	bracing.				26=-8, 1-15=-80								
REACTIONS		, 20=0-4-8, 26=0-5-8			ed Loads (lb)								
	Max Grav 16=965 (I),	Vert: 13=	-1067								
	26=478 (I	,											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-26=-33/0, 15-16=-	, ,											
	2-3=-920/0, 3-4=-11												
	5-6=-1180/2, 6-7=-8	-3/496, 7-8=0/1590, =-1096/0, 11-12=-262	24/0										
		=-1090/0, 11-12=-202 14=-2105/0, 14-15=0/											
BOT CHORD		=0/1191, 23-24=-2/1 <i>°</i>											
BOT ONORD	21-23=-287/635, 20	,	100,									ORTH CA	
	19-20=-435/214, 18	,										minin	1111.
	17-18=0/2969, 16-1											W'TH CA	Rolly
WEBS	4-24=-51/49, 5-23=-	279/0, 8-20=-81/0,									N	R	ALIN'S
	2-26=-734/0, 2-25=0										×.	OFFESS	and in
	3-24=-180/77, 7-20=	=-1075/0, 7-21=0/726	,								17		
	,)/744, 10-20=-1604/0	,							4		2	- K 1 2
		19=0/1250, 14-17=0/										SEA	(<u> </u>
		17=-1125/0, 11-18=0/	958,							=	:	SEA	• -
	12-18=-3/6, 13-18=-	706/0										0363	22 : =
NOTES										-			
,	ed floor live loads have	e been considered for									-	SEA 0363	1 3
this design											20	N.SNOW	FR. A S
	(s) 1 has/have been n		root								1	P. GINI	1. A
	nust review loads to ve ended use of this truss		lect								1	CA C	II BEIN
		•										A. G	L'IIII
													Tree
												lun	o 9 2025



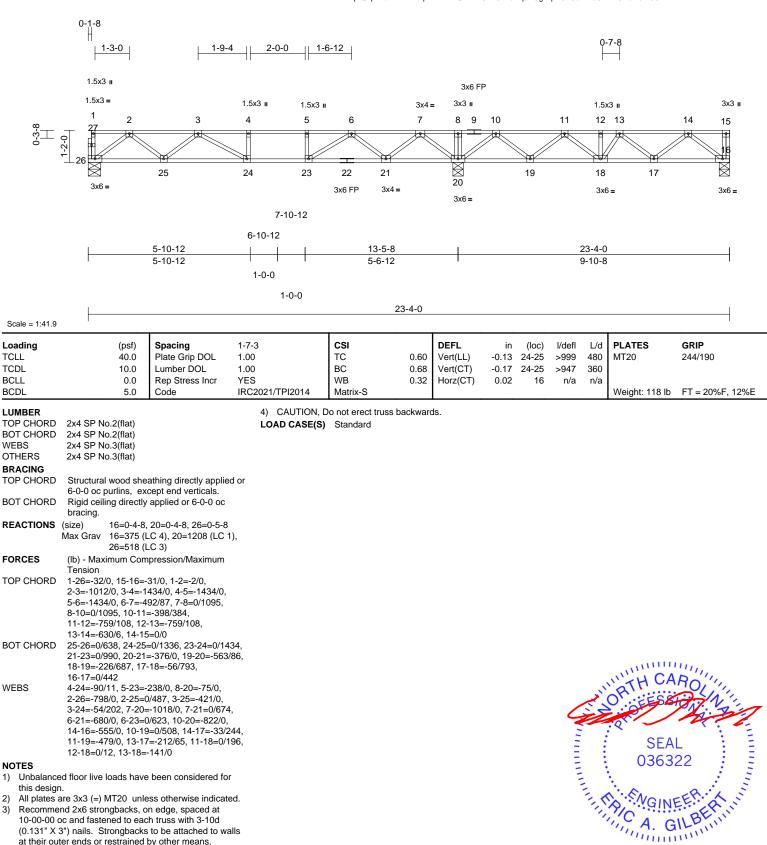
June 9,2025

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/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	Norris Rev 1-El. 5-Floor	
	1F2	Floor	10	1	Job Reference (optional)	174038366

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:37:59 ID:q4QKpz4bvLtXtHYbqxhrnMzBQR7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



at their outer ends or restrained by other means.

2)

3)



June 9,2025

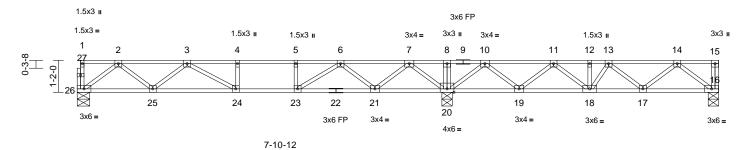
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 bucking 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)

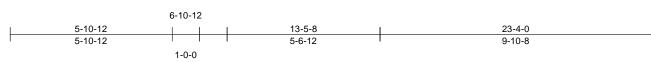
Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	1F3	Floor	3	1	Job Reference (optional)	174038367

0-1-8 Н

1-3-0









23-4-0

- ·		
Scale	=	1:41.9

Scale = 1:41.9											1
Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 NO	CSI TC 0.86 BC 0.74 WB 0.35	Vert(CT)	in -0.13 -0.17 0.02	(loc) 24-25 24-25 16	l/defl >999 >945 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		0.02	10	n/a	n/a	Weight: 118 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex	applied or 10-0-0 oc	10-00-00 oc (0.131" X 3" at their oute 5) CAUTION, I LOAD CASE(S) d or 1) Dead + Flo Plate Incre Uniform Lo	oor Live (balanced): Lumb ase=1.00	ss with 3-10d e attached to v her means. rds. er Increase=1						
REACTIONS	(size) 16=0-4-8, Max Grav 16=435 (l 26=526 (l),								
FORCES	(lb) - Maximum Com Tension	pression/Maximum									
TOP CHORD	1-26=-31/0, 15-16=- 2-3=-1031/0, 3-4=-1 5-6=-1483/0, 6-7=-4 8-10=0/1558, 10-11: 11-12=-1017/0, 12-1 13-14=-779/0, 14-15	483/0, 4-5=-1483/0, 84/94, 7-8=0/1558, =-525/256, I3=-1017/0,									
BOT CHORD	25-26=0/649, 24-25 21-23=0/1088, 20-2	=0/1365, 23-24=0/14 1=-487/0, 19-20=-607 =0/1013, 16-17=0/52	7/42,							TH CA	Politi
WEBS	6-21=-816/0, 6-23=0 14-16=-653/0, 10-19	0/498, 3-25=-434/0, =-1459/0, 7-21=0/809 0/566, 10-20=-1348/0 9=0/731, 14-17=0/336 7=-304/0, 11-18=0/14	,),					Nummer.	1 P	OR JEESS SEA 0363	L
NOTES 1) Unbalance	ed floor live loads have	e been considered for									Ξ <u>j</u> Ξ
	n. are 3x3 (=) MT20 unle :(s) 1 has/have been n		ed.							A CA C	EERA
	nust review loads to ve		rect						1	CAC	II BEIN

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated. 2)
- 3) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. 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	Norris Rev 1-EI. 5-Floor	
	1F4	Floor	1	1	Job Reference (optional)	174038368

0-1-8

1.5x3 🛚

1.5x3 =

3x6 =

1

2

26

<u>1</u>38

Scale = 1:41.9 Loading

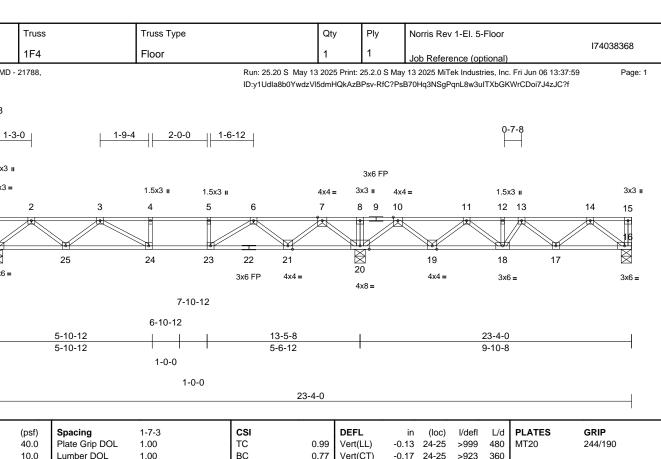
TCLL

TCDI

BCLL

BCDL

1-2-0



LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	(-)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	6-0-0 oc bracing: 20-21,19-20.
REACTIONS	(size) 16=0-4-8, 20=0-4-8, 26=0-5-8
	Max Grav 16=785 (LC 4), 20=2161 (LC 1), 26=517 (LC 3)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-26=-32/0. 15-16=-69/0. 1-2=-2/0.
	1 20 02/0, 10 10 00/0, 1 2 2/0,
	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0,
	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809,
	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809, 8-10=0/1809, 10-11=-728/53, 11-12=-1544/0,
	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809, 8-10=0/1809, 10-11=-728/53, 11-12=-1544/0, 12-13=-1544/0, 13-14=-1295/0, 14-15=0/0
BOT CHORD	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809, 8-10=0/1809, 10-11=-728/53, 11-12=-1544/0, 12-13=-1544/0, 13-14=-1295/0, 14-15=0/0 25-26=0/638, 24-25=0/1333, 23-24=0/1428,
BOT CHORD	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809, 8-10=0/1809, 10-11=-728/53, 11-12=-1544/0, 12-13=-1544/0, 13-14=-1295/0, 14-15=0/0 25-26=0/638, 24-25=0/1333, 23-24=0/1428, 21-23=0/1018, 20-21=-636/0, 19-20=-594/55,
	$\begin{array}{l} 2\text{-}3\text{=-}1012/0, 3\text{-}4\text{=-}1428/0, 4\text{-}5\text{=-}1428/0, \\ 5\text{-}6\text{=-}1428/0, 6\text{-}7\text{=-}373/205, 7\text{-}8\text{=}0/1809, \\ 8\text{-}10\text{=}0/1809, 10\text{-}11\text{=-}728/53, 11\text{-}12\text{=-}1544/0, \\ 12\text{-}13\text{=-}1544/0, 13\text{-}14\text{=-}1295/0, 14\text{-}15\text{=}0/0 \\ 25\text{-}26\text{=}0/638, 24\text{-}25\text{=}0/1333, 23\text{-}24\text{=}0/1428, \\ 21\text{-}23\text{=}0/1018, 20\text{-}21\text{=-}636/0, 19\text{-}20\text{=-}594/55, \\ 18\text{-}19\text{=}0/1381, 17\text{-}18\text{=}0/1636, 16\text{-}17\text{=}0/932 \end{array}$
BOT CHORD WEBS	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809, 8-10=0/1809, 10-11=-728/53, 11-12=-1544/0, 12-13=-1544/0, 13-14=-1295/0, 14-15=0/0 25-26=0/638, 24-25=0/1333, 23-24=0/1428, 21-23=0/1018, 20-21=-636/0, 19-20=-594/55, 18-19=0/1381, 17-18=0/1636, 16-17=0/932 4-24=-91/9, 5-23=-212/0, 8-20=-161/0,
	$\begin{array}{l} 2\text{-}3\text{=}-1012/0, 3\text{-}4\text{=}-1428/0, 4\text{-}5\text{=}-1428/0, \\ 5\text{-}6\text{=}-1428/0, 6\text{-}7\text{=}-373/205, 7\text{-}8\text{=}0/1809, \\ 8\text{-}10\text{=}0/1809, 10\text{-}11\text{=}-728/53, 11\text{-}12\text{=}-1544/0, \\ 12\text{-}13\text{=}-1544/0, 13\text{-}14\text{=}-1295/0, 14\text{-}15\text{=}0/0 \\ 25\text{-}26\text{=}0/638, 24\text{-}25\text{=}0/1333, 23\text{-}24\text{=}0/1428, \\ 21\text{-}23\text{=}0/1018, 20\text{-}21\text{=}-636/0, 19\text{-}20\text{=}-594/55, \\ 18\text{-}19\text{=}0/1381, 17\text{-}18\text{=}0/1636, 16\text{-}17\text{=}0/932 \\ 4\text{-}24\text{=}-91/9, 5\text{-}23\text{=}-212/0, 8\text{-}20\text{=}-161/0, \\ 2\text{-}26\text{=}-798/0, 2\text{-}25\text{=}0/487, 3\text{-}25\text{=}-419/0, \end{array}$
	2-3=-1012/0, 3-4=-1428/0, 4-5=-1428/0, 5-6=-1428/0, 6-7=-373/205, 7-8=0/1809, 8-10=0/1809, 10-11=-728/53, 11-12=-1544/0, 12-13=-1544/0, 13-14=-1295/0, 14-15=0/0 25-26=0/638, 24-25=0/1333, 23-24=0/1428, 21-23=0/1018, 20-21=-636/0, 19-20=-594/55, 18-19=0/1381, 17-18=0/1636, 16-17=0/932 4-24=-91/9, 5-23=-212/0, 8-20=-161/0,

0.0

5.0

Rep Stress Incr

Code

NO

IRC2021/TPI2014

NOTES

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

12-18=0/27, 13-18=-245/0

14-16=-1169/0, 10-19=0/978, 14-17=0/473,

11-19=-953/0, 13-17=-443/0, 11-18=0/313,

- All plates are 3x3 (=) MT20 unless otherwise indicated. 2) 3) Load case(s) 1 has/have been modified. Building
- designer must review loads to verify that they are correct for the intended use of this truss.

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

0.47

Horz(CT)

0.03

16

n/a n/a

Weight: 118 lb

FT = 20%F, 12%E

at their outer ends or restrained by other means.

CAUTION, Do not erect truss backwards. 5)

WB

Matrix-S

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, 1)

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 16-26=-8, 1-6=-80, 6-15=-180



818 Soundside Road

Edenton, NC 27932

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Job	Truss	3	Truss Type		Qty	Ply	/ 1	Norris Rev	1-El. 5-	Floor		
	1F7		Floor		11	1		Job Refere	ence (op	tional)		174038369
Structural, LLC,	Thurmont, MD - 21788,		•				0 S May 1	3 2025 MiT	ek Indust	ries, Inc	. Fri Jun 06 13:38:0	D Page: 1
				ID:eTKc28IX4f_kd	v34hcpB	43zBQZI-Rf0	C?PsB70ł	Hq3NSgPqr	L8w3ulT	XbGKW	rCDoi7J4zJC?f	
	1-3-0	0-10-12			1	-3-8	2-0-0		4			0-1-8 ∦
												1.5x3 =
	3x3 u 1	.5x3 II	3x3 II	3x4 =		0.0.50						1.5x3 u
	1 2	3 4		7 8		3x6 FP 910		11		12	13	14
0-1				* *		7				æ		28 8- • • • •
1-2-0					N				V			15
		26 25 24		2 21	20	19		18	17		16	Ŕ
	3x6 =	1.5x3 I	3x6 =	3x4 =		1.5x3	II	1.5x3 ॥				3x6 =
			3x6	5 FP								
							16-3-	12				
						15-3	3-12					
		<u>7-9-4</u> 7-9-4		<u>14-3-12</u> 6-6-8							-0-8 8-12	
				000		1-(0-0			0		
							1-0-	·0				
				23-0-8								
Scale = 1:41.6		1										
Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	1-7-3 1.00	CSI TC	0.54	DEFL Vert(LL)	ir -0.1:	n (loc) 3 17-18	l/defl >999	L/d 480	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.18	3 17-18	>999	360	-	
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	NO IRC2021/TPI2014	WB Matrix-S	0.40	Horz(CT)	0.02	2 15	n/a	n/a	Weight: 116 lb	FT = 20%F, 12%E
LUMBER		•	3) One H2.5/	A Simpson Strong-Tie	connec	tors						
TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No 2(flat) *	Except* 22-15:2x4 SP		ided to connect truss it(s) 27. This connect								
WEBS	(flat) 2x4 SP No.3(flat)		does not o	onsider lateral forces nd 2x6 strongbacks, o		snaced at	t					
OTHERS	2x4 SP No.3(flat)		ِ 10-00-00 ر	oc and fastened to ea 3") nails. Strongback	ch truss	with 3-10d	ł					
BRACING TOP CHORD	Structural wood sh	eathing directly applie	d or at their ou	ter ends or restrained	by othe	r means.	walls					
BOT CHORD		xcept end verticals. y applied or 6-0-0 oc	5) CAUTION LOAD CASE(, Do not erect truss ba S) Standard	ackward	s.						
REACTIONS	(size) 15=0-5-8 Max Uplift 27=-54 (8, 23=0-4-8, 27=0-4-8 LC 4)										
		(LC 4), 23=1258 (LC 1	1),									
FORCES	(lb) - Maximum Co	mpression/Maximum										
TOP CHORD	Tension 1-27=-44/0, 14-15=											
	,	=-396/279, 4-5=-197/5 /1230, 7-8=-478/40,	51,									
		1=-1864/0, 11-12=-17	774/0,									
BOT CHORD	26-27=-97/284, 25	-26=-279/396,										
		21=0/1073, 19-20=0/18									""TH CA	RO
	18-19=0/1864, 17- 15-16=0/720	18=0/1864, 16-17=0/1	619,							J.	REFSS	6 An
WEBS	6-23=-87/0, 10-19=	=-6/201, 11-18=-169/3 =-357/122, 5-24=0/450							6	53	in or in the	12m
	2-26=-233/142, 4-2	24=-477/0, 3-26=-58/9 3=-1156/0, 7-21=0/830	7,						-		CEA	
	8-21=-792/0, 8-20=	=0/487, 10-20=-619/0,							1		SEA 0363	• –
	13-15=-901/0, 13-1 12-17=0/223, 11-1	6=0/598, 12-16=-572/ 7=-232/81	/0,								0303	44 ÷ ÷
NOTES	ad floor live loads hav	ve been considered for	r								N. ENG	ER. X S
this desigr	۱.									11	A GIN	ELERIUM
 All plates a 	are 3x3 (=) MT20 un	less otherwise indicate	ea.								A. G	ILDIN
											Jur	e 9.2025

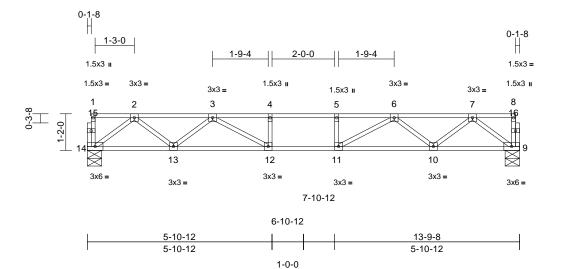
June 9,2025

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)

ENGINEERING BY AMITEK Affiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	1F5	Floor	12	1	Job Reference (optional)	174038370

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:00 ID:6dmhawY?GqKmbWA8FiuW?4zBQRp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1-0-0 13-9-8

Scale = 1:36.8

Scale = 1:36.8			i									
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	0.43	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.15	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%F, 12%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or									
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 o	C									
REACTIONS	(size) 9=0-5-8,	14=0-5-8										
	Max Grav 9=591 (L0	C 1), 14=591 (LC 1)										
FORCES	(lb) - Maximum Corr	npression/Maximum										
	Tension											
TOP CHORD	1-14=-30/0, 8-9=-30	, ,	,									
	3-4=-1906/0, 4-5=-1		,									
	6-7=-1184/0, 7-8=-2											
BOT CHORD	13-14=0/733, 12-13		906,									
WEBS	10-11=0/1605, 9-10 4-12=-183/0, 5-11=-											
WEBS	2-13=0/587, 3-13=-5		,									
	7-9=-917/0, 7-10=0/	, ,										
	6-11=0/508											
												111.

NOTES

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

 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



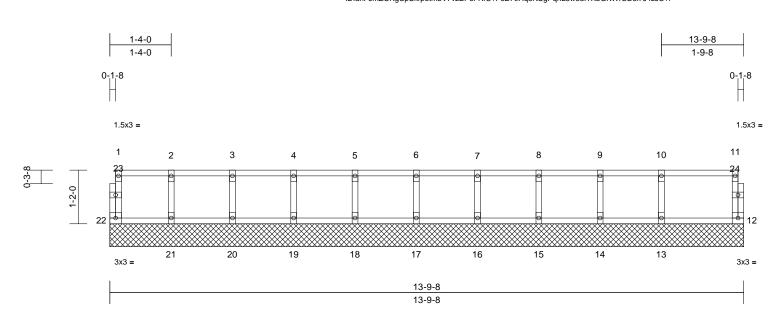
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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	Norris Rev 1-El. 5-Floor	
	1F2GE	Floor Supported Gable	1	1	Job Reference (optional)	174038371

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:37:59 ID:anFJmZOKgCpSkrpotmbV7vzBPoi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.1

		1		<u>i</u>		· · · · ·					i	:
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	0.10	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	· · /	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 58 lb	FT = 20%F, 12%E
						ļ						
LUMBER				d 2x6 strongback								
TOP CHORD	2x4 SP No.2(flat)			and fastened to								
BOT CHORD	2x4 SP No.2(flat)) nails. Strongba			valls					
WEBS	2x4 SP No.3(flat)			r ends or restrain	ed by othe	er means.						
OTHERS	2x4 SP No.3(flat)		LOAD CASE(S	Standard								
BRACING												
TOP CHORD		athing directly applie	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	5									
REACTIONS	(size) 12=13-9-	8, 13=13-9-8, 14=13	-9-8,									
	15=13-9-	8, 16=13-9-8, 17=13	-9-8,									
	18=13-9-	8, 19=13-9-8, 20=13	-9-8,									
	21=13-9-	8, 22=13-9-8										
	Max Grav 12=65 (L											
		LC 1), 15=119 (LC 1										
		LC 1), 17=117 (LC 1										
		LC 1), 19=117 (LC 1										
		LC 1), 21=107 (LC 1)),									
	22=51 (L											
FORCES	(lb) - Maximum Con	npression/Maximum										
	Tension											
TOP CHORD	1-22=-44/0, 11-12=-	, , ,									TH CA	
	,	0, 4-5=-14/0, 5-6=-14	,								, in the second	in the second se
		0, 8-9=-14/0, 9-10=-1	14/0,							1	W'TH CA	Rollin
	10-11=-14/0	~~~~~~~~								1	R	
BOT CHORD	21-22=0/14, 20-21=	, ,								N's	O'.FESS	Vil.
	18-19=0/14, 17-18=									is	10 /	1 de la compañía de
	15-16=0/14, 14-15=	0/14, 13-14=0/14,							-		.0	T: -
	12-13=0/14	100/0 1 10 100/0							-		054	, <u>1</u> €
WEBS		-108/0, 4-19=-106/0, -107/0, 7-16=-106/0,									SEA	L <u>i</u> E
	,	-101/0, 10-13=-106/0,									0363	22 : 3
NOTES	0 10-100/0, 3-14=-	101/0, 10-13-120/0	,									i E
NOTES	are 4 Ev2 (II) MT22	alaaa ath amuiaa								-		1 2
	are 1.5x3 () MT20 ur	niess otherwise								2.	N. En	Rick
indicated.	uires continuous botto	m chard boaring								25	GIN	EFRAN
	e fully sheathed from										S.C. NGIN	REN
	ainst lateral movemen										11, A. G	ILLIN
	ainst lateral movemen ds spaced at 1-4-0 oc.										A. C	IIIII
4) Gable Stud	us spaceu al 1-4-0 0C.										.lur	ne 9,2025
											501	

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)



ſ	Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor				
		1F6	Floor	8	1	Job Reference (optional)	174038372			

Structural LLC Thurmont MD - 21788

Loading

TCLL

TCDI

BCLL

BCDL

WEBS

OTHERS

BRACING

FORCES

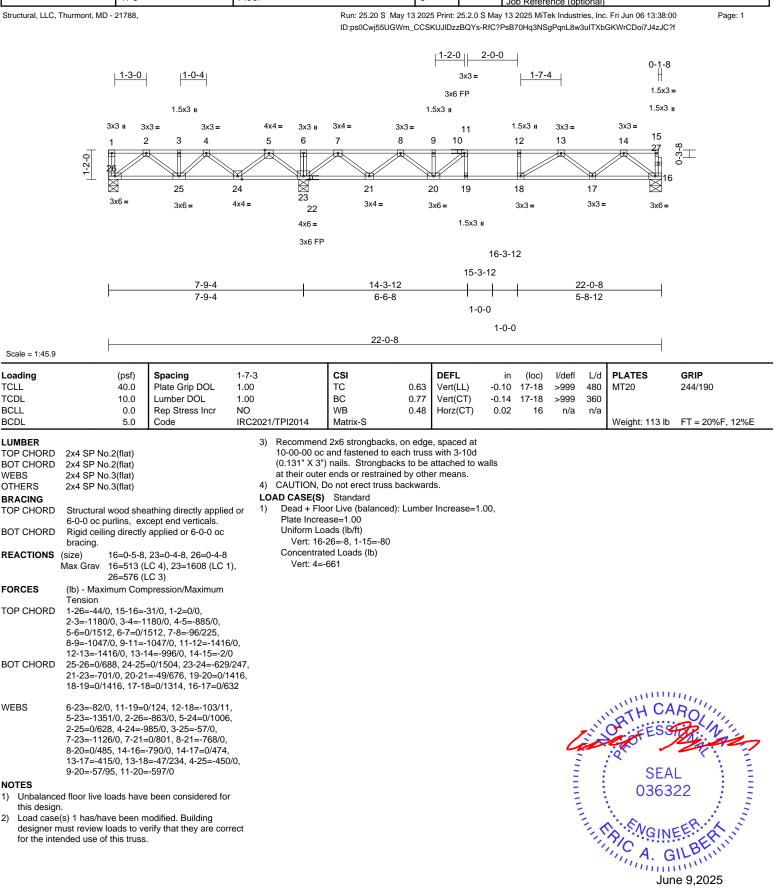
WEBS

NOTES

1)

2)

LUMBER



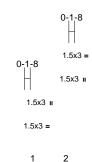
818 Soundside Road

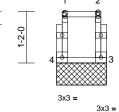
Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	1F6GE	Floor Supported Gable	1	1	Job Reference (optional)	174038373

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:00 ID:k?jU5d4a50CnnFZ1Y4fAI7zBPqO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





-3-8

1-1-8 1-1-8

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.00	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 8 lb	FT = 20%F, 12%E

LOWIDER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 1-1-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 3=1-1-8, 4=1-1-8
	Max Grav 3=33 (LC 1), 4=33 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-4=-30/0, 2-3=-30/0, 1-2=-5/0
BOT CHORD	3-4=0/5
NOTES	
1) Gable req	uires continuous bottom chord bearing.

Truss to be fully sheathed from one face or securely 2) braced against lateral movement (i.e. diagonal web).

3) Gable studs spaced at 1-4-0 oc.

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



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/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)



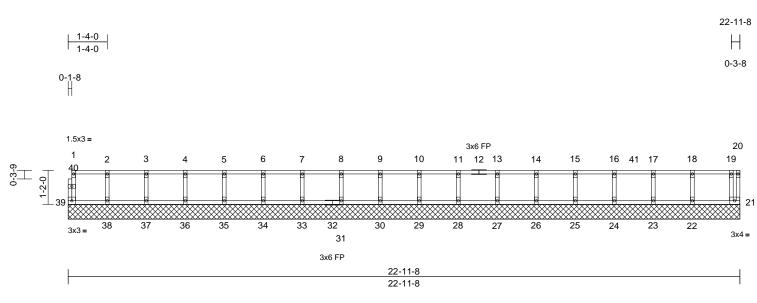
Job	Truss		Truss Type		Qty	Ply	Norris Rev	1-El. 5-Floor		
	1FGF		Floor Girder		1	1				174038374
Structural, LLC,	, Thurmont, MD - 21788,			Run: 25.20 S May				ence (optional ek Industries, In	l) nc. Fri Jun 06 13:38:0)1 Page: 1
				ID:0jUa98x?TqEG	ueonUdSuP5z	BPrt-RfC?Ps	370Hq3NSgPq	nL8w3ulTXbGł	KWrCDoi7J4zJC?f	
		0-10-12						0-6-0		
	1-3-0	3x3 =								
	3x3 _{II} 3x3 =	1.5x3 u	4x6 =	3х3 ш	4x6 =		3x6 FP 3x3 =	3x3 :	_	3x3 =
	1 2	3 4	5	5x5 II 6	7		8 9	10 11	-	^{3x3} " 12 13
0	P						R			
1-2-0	24									14
	\bigotimes	23 22	21 20			18		17 16	15	\bigotimes
	3x6 =	3x3 =	4x6 =	19 4x8 =		4x6 =		3x3 =	3x3 =	3x6 =
		1.5x3	" 3x6 FP	-770 -				1.5x3	н	
		7-9-4						7-12		
		7-9-4		ا 17-7	7-12		9-1	10-8		
Scale = 1:29.7	,				12					
Loading	(psf)	Spacing	1-7-3	CSI	DEF	ч. Г.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL TCDL	40.0 10.0	Plate Grip DOL Lumber DOL	1.00 1.00	TC BC	0.90 Ver 0.73 Ver	. ,	.02 15-16 .06 17-18	>999 480 >999 360		244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	NO IRC2021/TPI2014	WB Matrix-S	0.65 Hor.	z(CT) 0	.01 14	n/a n/a	Weight: 94 lb	FT = 20%F, 12%E
 this desig 2) Load case designer in for the interview 	 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, e; Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 19 (size) 14=0-4-8 Max Grav 14=516 (24=462 ((lb) - Maximum Cor Tension 1-24=-54/0, 13-14= 2-3=-984/0, 3-4=-91 5-6=0/2115, 6-7=0/ 8-10=-1348/0, 10-1 12-13=0/0 23-24=0/544, 22-23 19-21=-972/0, 18-1 16-17=0/1348, 15-1 6-19=-72/0, 5-19=- 5-21=0/1148, 2-23= 3-23=-212/0, 4-22= 12-14=-783/0, 7-18 8-18=-1329/0, 11-1 10-17=0/73, 11-16= xed floor live loads hav 	y applied or 10-0-0 od 9-21,18-19. 8, 19=0-4-8, 24=0-4-8 (LC 4), 19=2078 (LC (LC 3) mpression/Maximum -32/0, 1-2=0/0, 84/0, 4-5=-208/212, 2115, 7-8=-483/21, 1=-1348/0, 11-12=-94 3=0/984, 21-22=0/984 9=-859/0, 17-18=0/14 (6=0/1348, 14-15=0/6 1553/0, 2-24=-683/0, =0/561, 4-21=-1079/0 :-158/0, 7-19=-1726/0 5=-466/0, 8-17=-236/ =-11/106 re been considered for modified. Building verify that they are considered for s.	Plate Incre Uniform Lc Vert: 14 Concentrat Vert: 4= 1), 33/0, 1, 472, 524 , 6, 10, r		Lumber Incr	ease=1.00,			OR FESS SEA 0363	
(0.131" X at their ou) CAUTION	oc and fastened to ea 3") nails. Strongback uter ends or restrained N, Do not erect truss back NING - Votify design parameters	s to be attached to w I by other means. ackwards.			173 min 4/0/000					ne 9,2025
Design a truss : building	valid for use only with MiTel system. Before use, the build	k® connectors. This design ding designer must verify th is to prevent buckling of ind	THIS AND INCLUDED MITEK F is based only upon parameters e applicability of design param ividual truss web and/or chord sible personal injury and prope	s shown, and is for an ind eters and properly incorp members only. Additiona	ividual building o orate this design I temporary and	component, no into the overa permanent bra	: 			

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	Norris Rev 1-El. 5-Floor	
	1F1GE	Floor Supported Gable	1	1	Job Reference (optional)	4038375

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:37:59 ID:nK9JBeNC2bTBP2LJUCYynUzBPm8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.4

Loading	(ps	f)	Spacing	1-7-3	3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	(po 40.		Plate Grip DOL	1.00		TC	0.71	Vert(LL)	n/a	(100)	n/a	999	MT20	244/190
TCDL	10		Lumber DOL	1.00		BC	0.03	Vert(TL)	n/a	-	n/a	999		211/100
BCLL	0.		Rep Stress Incr	NO		WB	0.00	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.		Code		021/TPI2014	Matrix-R	0.03		0.00	21	n/a	n/a	Weight: 95 lb	FT = 20%F, 12%E
DODL		.0	0000	11(02	.021/1112014	Matrix IX							Weight. 55 lb	11 = 20/01, 12/02
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(fla 2x4 SP No.3(fla 2x4 SP No.3(fla 2x4 SP No.3(fla Structural wood 6-0-0 oc purlins Rigid ceiling dire bracing. (size) 21=2 23=2	ť) t) t) ectly a 2-11-8 2-11-8	thing directly applied ept end verticals. applied or 10-0-0 oc 3, 22=22-11-8, 3, 24=22-11-8, 2 -2e-21 1, 9		BOT CHORD WEBS	38-39=0/14, 37- 35-36=0/14, 34- 31-33=0/14, 30- 28-29=0/14, 27- 25-26=0/14, 24- 22-23=0/14, 21- 2-38=-100/0, 3- 5-35=-107/0, 6- 8-31=-107/0, 9- 11-28=-108/0, 1 15-25=-53/0, 16 18-22=-59/0, 19	35=0/14, 3 31=0/14, 2 28=0/14, 2 25=0/14, 2 22=0/14 37=-108/0, 34=-107/0, 30=-107/0, 3-27=-103 i-24=-360/0	3-34=0/14, 9-30=0/14, 6-27=0/14, 3-24=0/14, 4-36=-106/0 7-33=-107/0 10-29=-106// /0, 14-26=-12 0, 17-23=-375	, 0, 20/0,					
FORCES TOP CHORD	27=2 29=2 31=2 34=2 36=2 88=2 Max Grav 21=8 23=3 25=6 27=1 29=1 31=1 34=1 36=1 36=1 38=1 (lb) - Maximum Tension 1-39=-44/0, 20-3 2-3=-14/0, 3-4= 6-7=-14/0, 15	2-11-& 2-11-& 2-11-& 2-11-& 2-11-& 2-11-& 2-11-& 0 (LC 85 (LC) 4 (LC) 17 (LC) 17 (LC) 17 (LC) 17 (LC) 07 (LC) Comp 21=0/2) 21=0/2 -14/0, -14/0, -13=- -i-16=-	3, 26=22-11-8, 3, 28=22-11-8, 3, 30=22-11-8, 3, 33=22-11-8, 3, 33=22-11-8, 3, 35=22-11-8, 3, 37=22-11-8, 3, 37=22-11-8, 1), 22=73 (LC 1), C 1), 26=131 (LC 1), C 1), 26=131 (LC 1), C 1), 26=131 (LC 1), C 1), 30=117 (LC 1), C 1), 33=117 (LC 1), C 1), 33=117 (LC 1), C 1), 33=118 (LC 1), C 1), 33=117 (LC 1), Theresion/Maximum 27, 1-2=-14/0, 4-5=-14/0, 5-6=-14, 8-9=-14/0, 9-10=-1-14/0, 14/0, 13-14=-14/0, 14/0, 19-20=-2/0	, , , , /0,	 All plates a indicated. Gable requipance Truss to be braced ag. Gable studies Load case designer in for the inter Recommendation of 10-00-00 condection of (0.131" X con	are 1.5x3 () MT20 uires continuous b e fully sheathed fr ainst lateral mover is spaced at 1-4-0 (s) 1 has/have be- nust review loads - inded use of this ti- nd 2x6 strongback toc and fastened to 3") nails. Strongback toc and fastened to 3") nails. Strongback tor ends or restrain , Do not erect trus 5) Standard loor Live (balance rease=1.00 .oads (lb/ft) 1-39=-8, 1-20=-80 ated Loads (lb) 1=-438	ottom choi om one fac ment (i.e. c o c. en modifie to verify th russ. «, on edge each fruss acks to be ned by oth s backwar ed): Lumbe	d bearing. te or securely liagonal web) d. Building at they are co a, spaced at s with 3-10d attached to w art means. ds.	orrect valls		M. and M.		SEA 0363	EER HUI

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818 Soundside Road Edenton, NC 27932

June 9,2025

Job		Truss			Truss T	уре			Qt	/	Ply	Norris	s Rev '	1-El. 5-Flooi	r			
		1F3GE	Ξ		Floor S	Supported G	able		1		1	Joh F	Peferer	nce (optiona	n		174038376	
Structural, LLC,	Thurmont, MD	- 21788,		I								y 13 202	5 MiTel	k Industries, Ir	nc. Fri Jur		9 Page: 1	1
							ID:KfSU	JMs2CEBB	szpsAbN	PUYhtzE	BPii-RfC?Ps	B70Hq3	NSgPq	nL8w3ulTXbG	SKWrCDo	i7J4zJC?f		
																	22-0-8	
	1-4-0																\vdash	
	1-4-0																0-8-8	
																	0-1-8	
																	П	
											3x6 FP						1.5x3 =	
1	2	3	4	5	6	7	8	9	10		12 13	3	14	15	16	17	18 ¹⁹	T.
0-1	0	•	e	•	•	•	•	•	•	e			•	•	•	•		ř.
86 1-2-0														,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			20	
	<u> </u>	36	35	34 34	33	32	30	29	28 ×	<u>*****</u> 27	<u> </u>		25 ×	<u>24</u>	23	22	21	
	57	50	33	54	55	31	50	23	20	21	20	,	25	24	25	22	3x3 =	
						3x6 FP												
\vdash								22-0-8 22-0-8										
Scale = 1:37.7																		
Loading		(psf)	Spacing		1-7-3		CSI			DEFL	_	in ((loc)	l/defl L/c		TES	GRIP	
TCLL TCDL		40.0 10.0	Plate Grip I Lumber DO		1.00 1.00		TC BC		0.07 0.02	Vert(L Vert(1	,	n/a n/a	-	n/a 999 n/a 999		0	244/190	
BCLL BCDL		0.0 5.0	Rep Stress Code	Incr	NO	1/TPI2014	WB Matrix-R	b	0.06	Horiz	,	.00	20	n/a n/a	1	ht: 91 lb	FT = 20%F, 129	0/ E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	6-0-0 oc pu Rigid ceilin bracing. (size) (ib) - Maxir Tension 1-38=-44/0 3-4=-5/0, 4 7-8=-5/0, 8 11-13=-5/0 15-16=-5/0 37-38=0/5, 3-3-34=0/5,	2(flat) 3(flat) 3(flat) 3(flat) wood sheat urlins, exc g directly 20=22-0-8 23=22-0-8 23=22-0-8 23=22-0-8 23=22-0-8 23=22-0-8 23=22-0-8 23=22-0-8 20=14 (LC 22=122 (L 22=122 (L 22=122 (L 23=117 (L 33=117 (L 35=261 (L 37=123 (L num Comm, 19-20=-5 -5=-5/0, 5 -5=-5/0, 5	athing directly sept end verti applied or 10 3, 21=22-0-8, 3, 24=22-0-8, 3, 30=22-0-8, 3, 34=22-0-8, 3, 37=22-0-8, 3, 37=22-0-8, 3, 37=22-0-8, 3, 37=22-0-8, 3, 37=22-0-8, 3, 32=2-0-8, 3,	cals.)-0-0 oc 22=22-0 25=22-0 28=22-0 35=22-0 35=22-0 38=22-0 28=22-0 15=22-0 38=22-0 (LC 1), 7 (LC 1), 7 (or NC 1) 2) -8, 3) -8, 3) -8, 4) -8, 5) -8, -8 6) 7) LC 1) 0, 0/5, 0/5,	braced agai Gable studs Load case(s designer mi for the inter Recommen 10-00-00 oc (0.131" X 3" at their oute CAUTION, DAD CASE(S Dead + File Plate Incre Uniform Lo	res continu. fully sheati inst lateral s spaced at s) 1 has/ha ust review l d 2x6 stror c and faster ") nails. Stt er ends or r Do not erer) Standar bor Live (ba baase=1.00 bads (lb/ft) l-38=-8, 1-1 ted Loads	 %0, 6-33=- %0, 9-29=- %0, 9-29=- %0, 13-20 %0 MT20 ur MT20 ur<	-106/0, -107/0, 6=-107, 3=-106, m chor one fact on edge ch truss s to be by other ackward	7-32=- 10-28= (0, 14-2 (0, 17-2) therwise d bearing e or se liagonal d. Buildi at they se s with 3- attache er mean ds.	107/0, -107/0, 25=-107/0, 25=-107/0, 25=-111/0, e ng. currely I web). ing are correc ed at -10d ed to walls ns.	t		and the second s	IN R	H CA SEA 0363	ROUNT	Mannung.
	24-25=0/5, 20-21=0/5	23-24=0/	5, 22-23=0/5	, 21-22=0	<i></i>										AIC.	A. C. Jur	EEP HEREN HEREN De 9,2025	

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818 Soundside Road Edenton, NC 27932

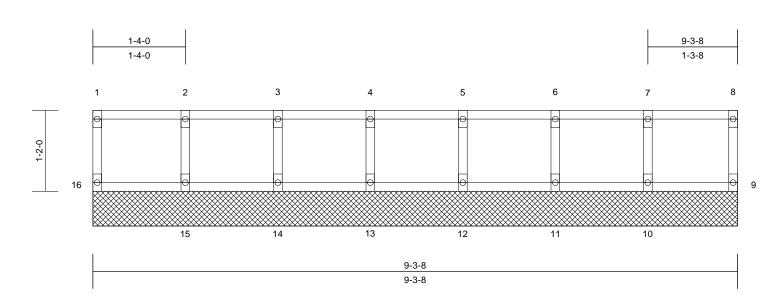
T**N**

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Job	Truss Truss Type		Qty	Ply	Norris Rev 1-El. 5-Floor	
	1F4GE	Floor Supported Gable	1	1	Job Reference (optional)	174038377

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:00 ID:90SeOd6gKjPm4teVOdb0JZz9I1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:16.6

Scale = 1:16.6												
Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI TC BC WB	0.06 0.01 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 39 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 9=9-3-8, 12=9-3-8 15=9-3-8 Max Grav 9=49 (LC 11=117 (l 13=117 (l	v applied or 10-0-0 oc 10=9-3-8, 11=9-3-8, , 13=9-3-8, 14=9-3-8 , 16=9-3-8 : 1), 10=117 (LC 1), LC 1), 12=117 (LC 1) LC 1), 14=117 (LC 1)	; ,									
FORCES	(lb) - Maximum Con Tension	LC 1), 16=51 (LC 1) npression/Maximum										
TOP CHORD		4/0, 1-2=-7/0, 2-3=-7/ 5-6=-7/0, 6-7=-7/0,	Ο,									
BOT CHORD)/7, 13-14=0/7, 12-13	=0/7,									10
WEBS	,	-106/0, 4-13=-107/0,									"TH CA	RO
NOTES										A	ON SEC	Sin Inde
	are 1.5x3 () MT20 ur	nless otherwise							/	52	FEE	Ni sin
indicated.									4			BILL
	ires continuous botto	m chord bearing.							1	()		
	e fully sheathed from								=		SEA	∖L : =
	ainst lateral movemen								=		0363	• -
	ls spaced at 1-4-0 oc.										0505	· · · · · · · · · · · · · · · · · · ·
	nd 2x6 strongbacks, c									-		1 2
	c and fastened to each 3") nails. Strongbacks									2.1	S.En	- Rik S
	er ends or restrained		ali5							3	S, GIN	EF. A.S
LOAD CASE(S		a, and mound.								1		BEIN
20/10 0/102(0											A. C	
											2000	0 2025

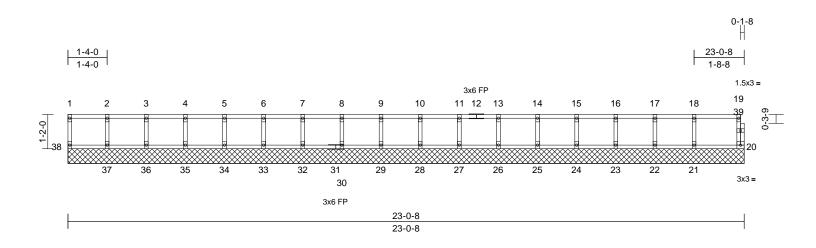


June 9,2025

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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	1F5GE	Floor Supported Gable	1	1	I740383 Job Reference (optional)	378

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:00 ID:_jsInJbmw0S4t1hBk1JPw?z911H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:39.3

		1											
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	С	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	В	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	W	VB	0.03	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI20	14 M	/latrix-R							Weight: 94 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc purlins, e: Rigid ceiling directl bracing. (size) 20=23-0 23=23-0 26=23-0 33=23-0 36=23-0 36=23-0 Max Grav 20=61 (L 22=112 (24=117 (26=117 (30=117 (33=117 (35=117 (sathing directly applied coept end verticals. y applied or 10-0-0 oc 8, 21=23-0-8, 22=23- 8, 24=23-0-8, 25=23- 8, 30=23-0-8, 32=23- 8, 34=23-0-8, 35=23- 8, 34=23-0-8, 38=23- C 1), 21=137 (LC 1), LC 1), 23=119 (LC 1), LC 1), 27=117 (LC 1), LC 1), 27=117 (LC 1), LC 1), 32=117 (LC 1), LC 1), 32=117 (LC 1), LC 1), 34=117 (LC 1), LC 1), 34=117 (LC 1), LC 1), 38=55 (LC 1)	WEBS d or NOTES 1) All pla indica 2) Gable 0-8, 3) Truss 0-8, 4) Gable 0-8, 5) Recor 0-8, 10-00 0-8, 10-00 0-8, 41 Gable 0-8, 50 Recor 0-8, 10-00 0-8, 10-00 0-9, 10-00 0-9, 10-00 0-9, 10-00 0-9, 10-00 0-9, 10-00 0-9, 10-00 0-9, 10-00 0-9, 10-00 0-0	2-37 5-34 8-33 11-2 15-2 18-2 tes are 1.5 ted. requires of to be fully 3 against I 3 dagainst I	7=-108/0, 3-36=-1 4=-107/0, 6-33=-1 0=-107/0, 9-29=-1 27=-107/0, 13-26: 24=-106/0, 16-23: 21=-123/0 5x3 () MT20 unl continuous botton / sheathed from oi lateral movement aced at 1-4-0 oc. 66 strongbacks, or d fastened to eact ails. Strongbacks hot erect truss bac	107/0, 107/0, =-107/ =-108/ less of n chor ne fac (i.e. d n edge h truss to be a by othe	7-32=-107/0, 10-28=-107/0 (0, 14-25=-107 (0, 17-22=-102 herwise d bearing. e or securely iagonal web). s, spaced at with 3-10d attached to wa er means.	7/0, 2/0,					
FORCES	(lb) - Maximum Cor Tension	npression/Maximum									S.	A	Do Inter
TOP CHORD	6-7=-11/0, 7-8=-11/ 10-11=-11/0, 11-13	0, 4-5=-11/0, 5-6=-11/ 0, 8-9=-11/0, 9-10=-1 =-11/0, 13-14=-11/0, =-11/0, 16-17=-11/0, =-11/0 =0/11, 35-36=0/11, =0/11, 32-33=0/11, =0/11, 28-29=0/11, =0/11, 22-23=0/11,	,							Contraction		SEA 0363	22 EER. Kultur

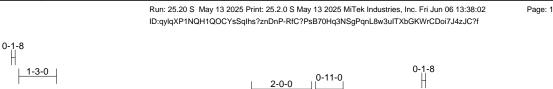
June 9,2025

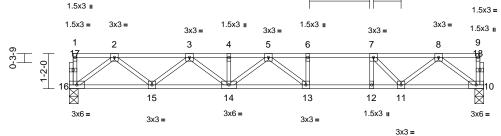
Page: 1

TRENGINEERING BY A MITEK Athiliate

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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	2F5	Floor	8	1	Job Reference (optional)	174038379





10-0-0

1-0-0



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13-9-8

<u> </u>		
Scale	= 1:38.3	

				_								
oading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.74	Vert(LL)	-0.19	13-14	>852	480	MT20	244/190
CDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.26	13-14	>627	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%F, 12%E
UMBER												
OP CHORD	2x4 SP No.2(flat)											
DT CHORD	2x4 SP SS(flat)											
EBS	2x4 SP No.3(flat)											
THERS	2x4 SP No.3(flat)											
RACING												
OP CHORD	Structural wood she	athing directly applie	ed or									
	6-0-0 oc purlins, ex	cept end verticals.										
OT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
	bracing.											
	(, 16=0-3-8										
	Max Grav 10=590 (I	LC 1), 16=590 (LC 1)									
DRCES	(lb) - Maximum Corr	pression/Maximum										
	Tension											
P CHORD	1-16=-28/0, 9-10=-5	, ,										
	2-3=-1176/0, 3-4=-1											
	5-6=-1729/0, 6-7=-1	729/0, 7-8=-1207/0,										
OT CHORD	8-9=-3/0 15-16=0/728, 14-15	-0/1614 12 14 -0/1	0.24									
	12-13=0/1729, 14-15											
EBS	6-13=-69/51, 7-12=0		092									
	2-15=0/583, 3-15=-5	, , ,										
	4-14=-48/0, 5-14=-1).									
	8-10=-864/0, 8-11=0		- ,								WITH CA	1111.
DTES	,									-	IN'LY CA	Rall
	ed floor live loads have	e been considered fo	or							1	21	01/11
de la alcalante										~	ON VESS	TA: 11.12

this design.

 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

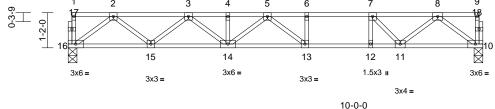


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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	2F6	Floor	4	1	Job Reference (optional)	174038380

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:02 ID:I8JCII2?Ba9H0L720XpwPCznDnO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-1-8 Н 0-1-8 1-3-0 0-11-0 Н 2-0-0 1.5x3 u 1.5x3 = 1.5x3 = 3x3 = 1.5x3 🛚 1.5x3 🛛 3x4 = 1.5x3 🛛 3x3 = 3x3 = 3x3 = 1 2 7 8 9 3 4 5 6 17 12 1 le l lę. ŀφ





13-9-8

1-0-0

Scale = 1:38.3

						. <u> </u>						
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	0.88	Vert(LL)	-0.19	13-14	>852	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69		-0.27	13-14	>603	360	-	
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	· · ·	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		- (-)					Weight: 70 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 cc purlins, ex Rigid ceiling directly bracing. (size) 10=0-3-8 Max Grav 10=600 (flat)	eathing directly applic cept end verticals. v applied or 10-0-0 or , 16=0-3-8 LC 1), 16=645 (LC 1	ed or C	Matrix-S							Weight: 70 lb	FT = 20%F, 12%E
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD BOT CHORD WEBS	1-16=-33/0, 9-10=-5 2-3=-1255/0, 3-4=-1 5-6=-1771/0, 6-7=-1 8-9=-3/0 15-16=0/794, 14-15	919/0, 4-5=-1919/0, 771/0, 7-8=-1231/0, =0/1706, 13-14=0/19 2=0/1771, 10-11=0/7 0/312, 2-16=-993/0, 588/0, 3-14=0/271,	983,									
	8-10=-878/0, 8-11=0										WHY CA	un,
NOTES											WTH CA	Ro
	ed floor live loads have	e been considered fo	r							N'	R	Shine -
this design										22	FESS	AN AN
	e(s) 1 has/have been n nust review loads to ve		rrect						4			A. H.
	ended use of this truss										054	1 1 3
10-00-00 (0.131" X	end 2x6 strongbacks, c oc and fastened to ead 3") nails. Strongbacks ter ends or restrained	ch truss with 3-10d s to be attached to w	alls								SEA 0363	• -
LOAD CASE		-								-	·	airs
	Floor Live (balanced):	Lumber Increase=1.	00,							2.5	S. NGIN	EFILAN
	rease=1.00									11	10	BEIN
	Loads (lb/ft)										A. G	ILUIN
Vert: 1	10-16=-8, 1-3=-97, 3-9	=-80									201111	um,
											Jur	ne 9,2025

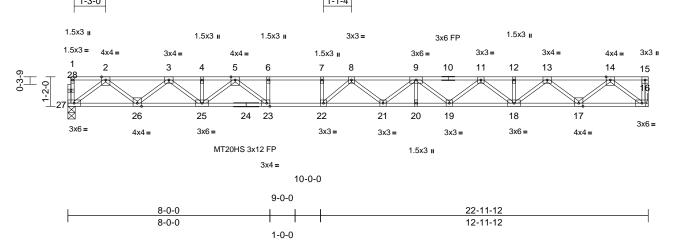
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Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor		
	2F3	Floor	9	1	Job Reference (optional)	174038381	
Structural, LLC, Thurmont, MD -	21788,	-		-	r 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:01 sB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1	
0-	1-8 1-3-0	2-0-0					



1-0-0

22-11-12

Scale = 1:45.6

Plate Offsets (X, Y): [23:0-1-8,Edge]

	A, T). [23.0-1-0,Euge	;]											
Loading	(psf)	Spacing	1-4-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		тс	0.77	Vert(LL)	-0.55	21-22	>500	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00		BC	0.77	Vert(CT)	-0.75	21-22	>363	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES		WB	0.48	Horz(CT)	0.09	16	n/a	n/a		
BCDL	5.0	Code		21/TPI2014	Matrix-S		- (-)					Weight: 117 lb	FT = 20%F, 12%E
-		1					· · · · · ·					· · ·	
LUMBER			4		S strongbacks, on								
TOP CHORD	2x4 SP SS(flat) *Exc	cept* 10-15:2x4 SP I	No.2		ned to each truss								
	(flat)				backs to be attac ained by other me		alls at their o	uter					
BOT CHORD	2x4 SP SS(flat)		E		o not erect truss		do						
WEBS	2x4 SP No.3(flat)					Dackward	15.						
OTHERS	2x4 SP No.3(flat)		L	OAD CASE(S)	Standard								
BRACING													
TOP CHORD		athing directly applie	ed or										
	5-2-11 oc purlins, e												
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	0										
REACTIONS	bracing.	nanical, 27=0-3-8											
REACTIONS	Max Grav 16=833 (I	,)										
FORCES	(lb) - Maximum Corr	<i>,,,</i>	,										
FUNCES	Tension	ipression/maximum											
TOP CHORD	1-27=-24/0, 15-16=-	27/0 1-2-1/0											
	2-3=-1834/0, 3-4=-3												
	5-6=-4285/0, 6-7=-4	, , ,											
		4049/0, 11-12=-318	R/O										
	,	14=-1831/0, 14-15=0	,										
BOT CHORD	26-27=0/1055, 25-2	,											
		2=0/4533, 20-21=0/4											
	,	9=0/3721, 17-18=0/2	,									minin	1111.
	16-17=0/1053	,	,									WAH CA	Rollin
WEBS	6-23=-396/0, 7-22=-	103/206, 2-27=-132	2/0,								1	2	
	2-26=0/1014, 3-26=	-967/0, 3-25=0/774,	,								E.	O' FESO	Pin Vil
	4-25=-101/0, 5-25=-	659/0. 5-23=0/909.									77	10 -	Na Zil
		17=0/1013, 13-17=-9	83/0,							-		:0	
	13-18=0/768, 12-18	=-39/0, 11-18=-681/0), [′]							-	5 8		
	11-19=0/427, 9-19=	-405/0, 9-20=-40/6,								=	:	SEA	L : =
		199/95, 8-22=-534/18	37								:	0363	22 : =
NOTES										CONTRACTOR NO.		0303	
	ed floor live loads have	e been considered fo	r								1		1 S - S
this design										5	-	·	airs
	 are MT20 plates unles	s otherwise indicated	d.								15	VGINI	ELIAN
, ,	rder(s) for truss to trus										11	710	- Frish
-,												A G	ILD
												A. G	in the second se
													0.0005
												Jun	ie 9,2025



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	2FGR2	Floor Girder	1	1	Job Reference (optional)	174038382

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:03 Page: 1 ID:I8JCII2?Ba9H0L720XpwPCznDnO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

	0-1-8												
	H . 1 2	0.			200 1 5	0.							
	1-3-			-	2-0-0 1-5	-0							
											THA42	2	
	4.5-2			3x6 FP									
	1.5x3 = 1	6x6 = 6x6 =	-	6x8=		4x6 II		6x6=	57011		6x6 =		S 10x16 =
	ማ 30	2 3	4	5 6 7	8	9		10	<u>11</u> 12	13	14	15	16
	0-3-												
									21 ²⁰	19		18	
	⊠ 6x6 =	28	27	26 25	24		23	22		6x6 =			_ 6x8 =
	0.00 =	6x6 =	6x8=		4x6 II			r	MT20HS 3x12 FP	0.00		MT20HS 7x10	= 0x0=
				MT20HS 3x8 FF									
				6x6 =									
				9-	0-0								
		7.4.0		8-0-0	10-0-0								
		7-4-8							<u>23-3-8</u> 13-3-8				
				0-7-8	1-0-0				10 0 0				
				1-	0-0								
	L			•		23-3-8							
Scale = 1:45.6													I
Plate Offsets ((X, Y): [8:0-3-0,Edge]], [18:0-3-12,Edge], [2	24:0-3-0,Eo	dge], [25:0-1-8,	Edge], [30:0-1-8	,0-0-9]							
Loading	(psf)	Spacing	1-7-3		CSI		DEFL		in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		TC	0.37	Vert(L	'	-0.49 23-24	>564		MT20	244/190
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.00 NO		BC WB	0.62 0.81	Vert(C Horz(C	'	-0.71 23-24 0.07 17	>391 n/a		VT20HS V18AHS	187/143 186/179
BCDL	5.0	Code		1/TPI2014	Matrix-S	0.01	11012(0	51)	0.01 11	n/a		Neight: 181 lb	FT = 20%F, 12%
LUMBER			4)		1 has/have bee								
TOP CHORD BOT CHORD	2x4 SP DSS(flat) 2x4 SP DSS(flat)				st review loads to led use of this tru		at they a	are cor	rect				
WEBS	2x4 SP No.3(flat) *E	Except* 18-15:2x4 SF	5)	Required 2x6	strongbacks, or	n edge, s							
OTHERS	No.2(flat) 2x4 SP No.3(flat)				ned to each truss backs to be atta								
BRACING			0	ends or restra	ained by other m	ieans.							
TOP CHORD		eathing directly applie	edor 6) 7)		o not erect truss Strong-Tie THA			er. 6-10)d				
BOT CHORD	6-0-0 oc purlins, ex Rigid ceiling directly	y applied or 10-0-0 or	,	Truss) or equ	ivalent at 19-4-4	from the	left end						
	bracing.		8)		s(es) to front face les where hange			h lumb	er				
REACTIONS	. ,	3, 29=0-3-8 (LC 1), 29=1160 (LC	ຄ໌	In the LOAD	CASE(S) section	n, loads a	pplied to						
FORCES		mpression/Maximum			re noted as front	t (F) or ba	ick (B).						
	Tension	44/0 4 2 0/0	1)	DAD CASE(S) Dead + Floo	or Live (balanced	d): Lumbe	r Increas	se=1.0	00,				
TOP CHORD	1-29=-39/0, 16-17= 2-3=-2865/0, 3-4=-5	-44/0, 1-2=0/0, 5122/0, 4-5=-5122/0,	,	Plate Increa									
	5-7=-7294/0, 7-8=-7	7294/0, 8-9=-7294/0,		Uniform Loa Vert: 17-2	ads (id/π) 29=-8, 1-14=-80,	14-16=-8	30						
	9-10=-8254/0, 10-1 12-13=-7220/0, 13-	,		Concentrate	ed Loads (lb)								
DOT OURSE	14-15=-4559/0, 15-	16=0/0	2000	Vert: 14=	-888 (F)								
BOT CHORD		28=0/4082, 25-27=0/6 24=0/8074, 22-23=0/8										mm	UIII.
	21-22=0/8223, 19-2	21=0/7743, 18-19=0/6									111	TH CA	ROUT
WEBS	17-18=0/2522 7-25=-651/0. 8-24=	-46/353, 2-29=-1985/	0.								A'C	FESS	B. N'I
	2-28=0/1445, 3-28=	-1510/0, 3-27=0/126	9,							4	2N	KO'	237
		-1180/0, 5-25=0/169 18=-2502/0, 14-19=0								11	1	Q	
	13-19=-77/0, 12-19	=-638/0, 12-21=0/325	5,							Ξ		SEA	•
	10-21=-266/0, 10-2 9-23=-132/403, 9-2	2=-79/0, 10-23=-95/2 4=-1207/55.	07,							Ξ	1	0363	22 :
	15-18=0/2526									111111111			1 - A - A
NOTES			_							5	-	· ENO	ER. X S
 Unbalance this design 	ed floor live loads have n.	e peen considered fo	r								11	PLAN GIN	EFRIN
	aro MT20 platos uplos	a othonwice indicate	4								11,	CA n	11 6

All plates are MT20 plates unless otherwise indicated. 2)

3) All plates are 3x6 (||) MT20 unless otherwise indicated.

818 Soundside Road Edenton, NC 27932

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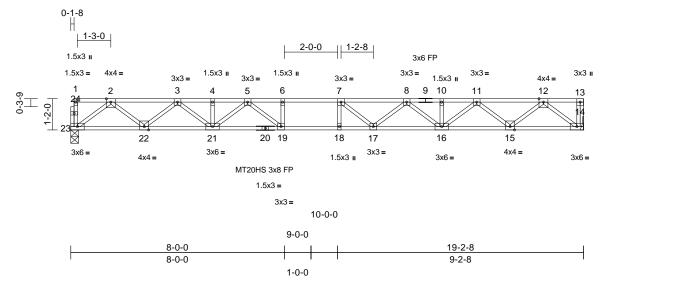
June 9,2025

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ſ	Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
		2F2	Floor	2	1	Job Reference (optional)	174038383

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:01 ID:qylqXP1NQH1QOCYsSqlhs?znDnP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-0-0 19-2-8

Scale = 1:43.2		1										
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 BC WB Matrix-S	0.71 0.94 0.46	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.46 0.07	(loc) 17-18 17-18 14	l/defl >672 >490 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 97 lb	GRIP 187/143 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) *E (flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	xcept* 20-14:2x4 SP	2 SS (0.131" X at their or 6) CAUTION	end 2x6 strongbacks oc and fastened to 3") nails. Strongba uter ends or restrain V, Do not erect truss (S) Standard	each truss cks to be ed by othe	with 3-10d attached to w er means.	valls					
TOP CHORD	5-5-11 oc purlins, e Rigid ceiling directly bracing, Except:	Structural wood sheathing directly applied or i-5-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc racing, Except: 2-2-0 oc bracing: 19-21.										
	6 (size) 14= Mechanical, 23=0-3-8											
FORCES TOP CHORD	Max Grav 14=834 (LC 1), 23=829 (LC 1) (lb) - Maximum Compression/Maximum Tension											
BOT CHORD	22-23=0/1046, 21-2 18-19=0/3741, 17-1 15-16=0/2487, 14-1	8=0/3741, 16-17=0/3										U.i
WEBS	6-19=-255/0, 7-18=- 2-22=0/957, 3-22=-6 4-21=-88/0, 5-21=-5 12-14=-1311/0, 12-1 11-16=0/653, 10-16 8-17=0/373, 7-17=-4	181/111, 2-23=-1310 014/0, 3-21=0/665, 21/0, 5-19=0/653, 15=0/957, 11-15=-92 =-38/0, 8-16=-567/0,	0/0,						4	in the second seco	ORTH CA	ROLIN
this design2) All plates a3) The Fabric	ed floor live loads have	e been considered for s otherwise indicated nt 20 = 12%							THE DAYS	A A A A A A A A A A A A A A A A A A A	SEA 0363	• –

G minin June 9,2025

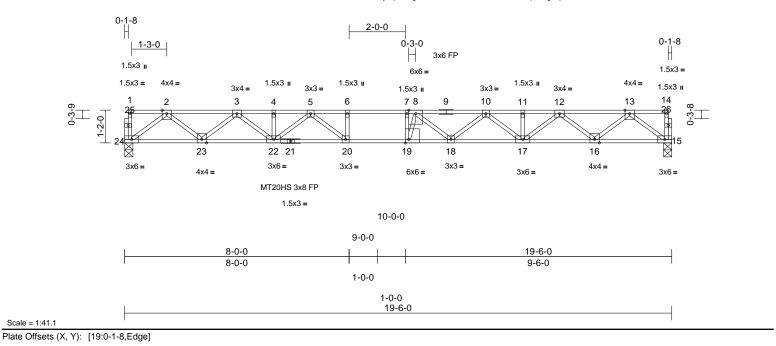
Page: 1

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Job	Truss	Truss Type	Qty Ply		Norris Rev 1-El. 5-Floor	
	2F1	Floor	4	1	Job Reference (optional)	174038384

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:01 ID:?oOYHMycqRGHgH5i5ZBHdkznDnV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



		i									i	-
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	1.00	Vert(LL)	-0.35	18-19	>656	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.48	18-19	>478	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI201	4 Matrix-S							Weight: 99 lb	FT = 20%F, 12%E
LUMBER			4) Recom	mend 2x6 strongback	ks, on edge	, spaced at						
TOP CHORD	2x4 SP No.2(flat)			0 oc and fastened to								
BOT CHORD	2x4 SP No.2(flat) *E	xcept* 21-15:2x4 SF		X 3") nails. Strongba			valls					
	(flat)		at their	outer ends or restrair	ned by othe	er means.						
WEBS	2x4 SP No.3(flat)		LOAD CAS	E(S) Standard								
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she		ed,									
	except end verticals											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
	bracing, Except:											
DEACTIONS	2-2-0 oc bracing: 20											
	(size) 15=0-3-8 Max Grav 15=841 (I	, 24=0-3-8										
FORCES	(lb) - Maximum Corr											
FURGES	(ib) - Maximum Con Tension	ipression/iviaximum										
TOP CHORD	1-24=-28/0, 14-15=-	28/0 1-2=-2/0										
	2-3=-1812/0, 3-4=-3	, ,										
	5-6=-3840/0, 6-7=-3											
	8-10=-3728/0, 10-11	I=-3064/0, 11-12=-3	064/0,									
	12-13=-1812/0, 13-1	14=-2/0										
BOT CHORD	23-24=0/1062, 22-2											11
	19-20=0/3840, 18-1		3513,								N''LL CA	DIL
	16-17=0/2534, 15-1		4.10								TH UP	ROIL
WEBS	6-20=-287/0, 7-19=- 2-23=0/976, 3-23=-9		51/0,							3	OPTH CA	D. Ant
	4-22=-88/0. 5-22=-5	, , ,							1	32	10TLU	Mini
	13-15=-1329/0, 13-1		41/0						2			n
	12-17=0/676, 11-17	,	,						-	6 8		
	10-18=0/334, 8-18=								=	:	SEA	L : =
	,	,							_	•		

NOTES

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

2) All plates are MT20 plates unless otherwise indicated.

3) The Fabrication Tolerance at joint 21 = 12%

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SEAL 036322 June 9,2025

Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor		
	2F1GE	Floor Supported Gable	1	1	Job Reference (optional)		

<u>1-4-0</u> 1-4-0

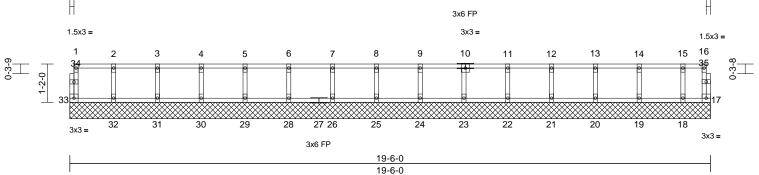
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19-6-0

0-10-0

0-1-8



Scale = 1:35.1

Loading	(psf)	Spacing	1-7-3		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		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	17	n/a	n/a		
BCDL	5.0	Code	IRC202	21/TPI2014	Matrix-R							Weight: 82 lb	FT = 20%F, 12%E
LUMBER			N	OTES									
TOP CHORD	2x4 SP No.2(flat)		1) All plates are	1.5x3 () MT20 u	inless o	therwise						
BOT CHORD	2x4 SP No.2(flat)			indicated.									
WEBS	2x4 SP No.3(flat)		2		es continuous botto								
OTHERS	2x4 SP No.3(flat)		3		ully sheathed from st lateral movement								
BRACING			4		spaced at 1-4-0 oc		liagonal web).						
TOP CHORD		athing directly applied	lor 4		2x6 strongbacks,		spaced at						
BOT CHORD	6-0-0 oc purlins, ex	applied or 10-0-0 oc			and fastened to ea								
BOTCHORD	bracing.	applied of 10-0-0 oc		(0.131" X 3")	nails. Strongback	s to be	attached to wa	alls					
REACTIONS	0	0, 18=19-6-0, 19=19-6	6-0	at their outer	ends or restrained	by othe	er means.						
		0, 21=19-6-0, 22=19-6		OAD CASE(S)	Standard								
		0, 24=19-6-0, 25=19-6											
		0, 28=19-6-0, 29=19-6											
		0, 31=19-6-0, 32=19-6	6-0,										
	33=19-6-0												
	Max Grav 17=26 (L0	LC 1), 18=86 (LC 1), LC 1), 20=116 (LC 1),											
		LC 1), 20=110 (LC 1), LC 1), 22=115 (LC 1),											
		LC 1), 24=120 (LC 1),											
		LC 1), 26=117 (LC 1),											
		LC 1), 29=117 (LC 1),											
		_C 1), 31=117 (LC 1),											
	,	_C 1), 33=40 (LC 1)										munn	Unin.
FORCES	(lb) - Maximum Corr Tension	pression/Maximum										"TH CA	Roilin
TOP CHORD		19/0, 1-2=-3/0, 2-3=-3	8/0.							/	1	A	in the last
	3-4=-3/0, 4-5=-3/0, 5		,								22	190	N. A.
	7-8=-3/0, 8-9=-3/0, 9	9-11=-8/0, 11-12=-8/0	,							7	2		num
	12-13=-8/0, 13-14=-	8/0, 14-15=-8/0,								-			
	15-16=-8/0	10 00 04 010 00 00	o /o							=	:	SEA	L : =
BOT CHORD	,	/3, 30-31=0/3, 29-30=	,							E		0363	22 =
		/3, 25-26=0/3, 24-25= /8, 21-22=0/8, 20-21=								=		. 0505	44 i E
	19-20=0/8, 18-19=0		0/0,							-	-	N	1. 2
WEBS	2-32=-107/0, 3-31=-	,								THEFT AND A	2.	N. ENG	CRIL S
	5-29=-107/0, 6-28=-										1	S, GIN	Et. A.S
	,	109/0, 10-23=-107/0,									1	CA C	BEIN
	,	I=-107/0, 13-20=-105/	0,									A. G	in the second seco
	14-19=-111/0, 15-18	3=-83/0										- ann	
												Jur	ne 9,2025

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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-EI. 5-Floor	
	2F2GE	Floor Supported Gable	1	1	Job Reference (optional)	174038386

Structural LLC Thurmont MD - 21788

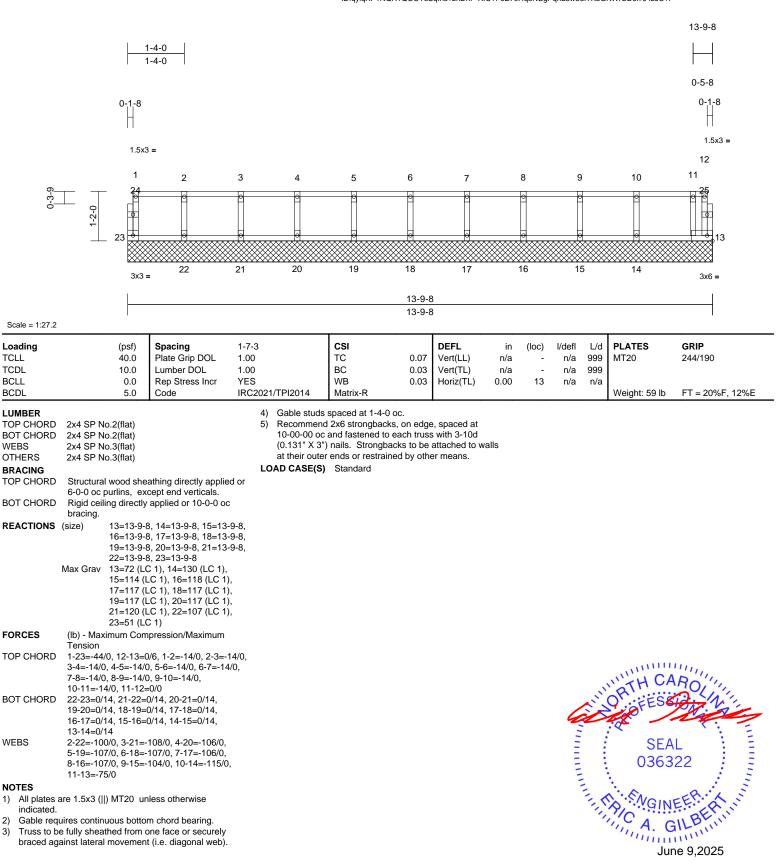
1)

2)

3)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:01 ID:qylqXP1NQH1QOCYsSqlhs?znDnP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

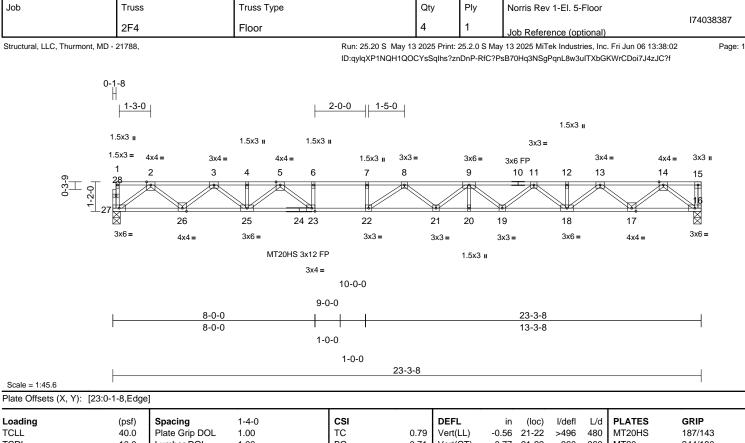


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Edenton, NC 27932

Job	Truss	Truss Type	Qty Ply		Norris Rev 1-El. 5-Floor	
	2F4	Floor	4	1	Job Reference (optional)	174038387



Loading	(psf)	Spacing	1-4-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)		21-22	>496	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)		21-22	>360	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.09	16	n/a	n/a		210,100
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S	00		0.00			, ci	Weight: 118 lb	FT = 20%F, 12%E
	0.0	0000		Matrix 0							Wolght. The lo	11 - 20,01, 12,02
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she	athing directly applied	oc and faste nails. Stron ends or rest 4) CAUTION, D LOAD CASE(S)	6 strongbacks, on e ned to each truss wi gbacks to be attache ained by other mea to not erect truss ba Standard	ith 3-10 ed to wa	0d (0.131" X 3 alls at their ou	")					
BOT CHORD	2-2-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 oc										
REACTIONS	(size) 16=0-3-8, Max Grav 16=845 (L											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-27=-24/0, 15-16=- 2-3=-1863/0, 3-4=-3 5-6=-4388/0, 6-7=-4 8-9=-4622/0, 9-11=- 12-13=-3246/0, 13-1											
BOT CHORD	22-23=0/4388, 21-22	6=0/2618, 23-25=0/3 2=0/4668, 20-21=0/4 9=0/3792, 17-18=0/20	463,									1111
WEBS	2-26=0/1032, 3-26= 4-25=-102/0, 5-25=- 14-16=-1339/0, 14-1 13-17=-1001/0, 13-1	684/0, 5-23=0/945, 17=0/1030, 18=0/789, 12-18=-41/ 9=0/444, 9-19=-421/0	0,						4	A.	ORTEESS SEA 0363	•
NOTES											0303	
	ed floor live loads have	e been considered for								2	1	1 E
this design										2	N. Fr.	Airs
2) All plates a	are MT20 plates unles	s otherwise indicated									SEA 0363	ILBERTIN'

G 100000 June 9,2025

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Job	Truss Truss Type		Qty	Ply	Norris Rev 1-El. 5-Floor
	2FGR1	Floor Girder	1	1	I74038388 Job Reference (optional)

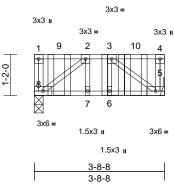
Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Fri Jun 06 13:38:03 ID:I8JCII2?Ba9H0L720XpwPCznDnO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

1-2-8 1-3-0 0-6-0 **THA422**

THA422

THA422



Scale = 1:32.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.02	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.03	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 24 lb	FT = 20%F, 12%E
LUMBER			1) Dead + Fl	oor Live (balanc	ed): Lumbe	r Increase=1	.00,					

TOP CHORD	2x4 SP SS(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathi
	3-8-8 oc purlins, excep

TOP CHORD		I wood sheathing directly applied or
	3-8-8 oc	purlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	5= Mechanical, 8=0-3-0
	Max Grav	5=951 (LC 1), 8=1173 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-8=-462	/0, 4-5=-237/0, 1-2=0/0,

2-3=-1028/0, 3-4=0/0 BOT CHORD 7-8=0/1028, 6-7=0/1028, 5-6=0/1028 WEBS 3-5=-1269/0, 2-8=-1282/0, 2-7=-116/243, 3-6=-232/127

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections. 2)
- Provide mechanical connection (by others) of truss to 3) bearing plate at joint(s) 8.
- Recommend 2x6 strongbacks, on edge, spaced at 4) 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.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) 5) or equivalent at 2-10-12 from the left end to connect truss(es) to front face of top chord.
- 6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-6-7 oc max. starting at 0-8-8 from the left end to 2-2-15 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber. 7)
- In the LOAD CASE(S) section, loads applied to the face 8)
- of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 5-8=-8, 1-4=-80

Concentrated Loads (lb)

Vert: 3=-770 (B), 9=-778 (B), 10=-272 (F)



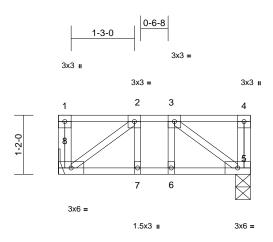
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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	2F7	Floor	1	1	Job Reference (optional)	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:02 ID:I8JCII2?Ba9H0L720XpwPCznDnO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1.5x3 🛚



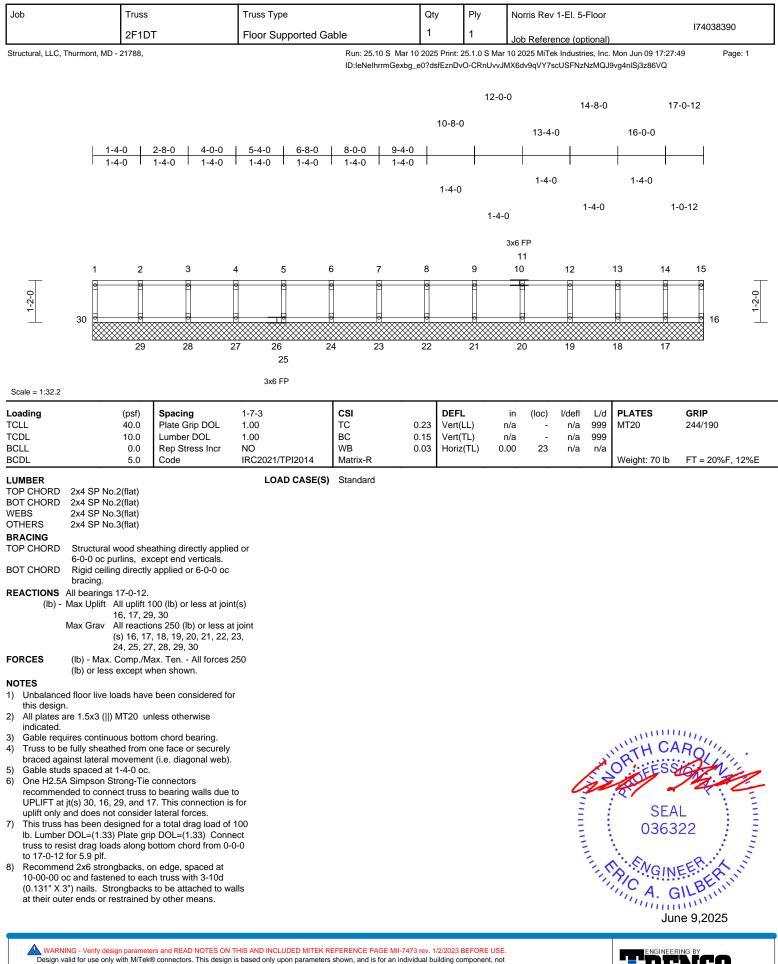
Scale = 1:22.8

Loading TCLL TCDL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00	CSI TC BC	0.24 0.12	DEFL Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 5-6 5-6	l/defl >999 >999	L/d 480 360	PLATES MT20	GRIP 244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 24 lb	FT = 20%F, 12%E
UMBER												
FOP CHORD	()											
SOT CHORD	()											
VEBS	2x4 SP No.3(flat)											
OP CHORD	Structural wood she 3-9-9 oc purlins, ex		ed or									
OT CHORD												
	bracing.											
EACTIONS	0	8= Mechanical										
	Max Grav 5=360 (L											
ORCES	(lb) - Maximum Con	npression/Maximum										
	Tension	•										
OP CHORD		1/0, 1-2=0/0, 2-3=-2	298/0,									
	3-4=0/0											
OT CHORD	7-8=0/298, 6-7=0/29 3-5=-368/0, 2-8=-36											
VEDS	3-6=-16/31	56/0, 2-7=-10/31,										
IOTES												
Unbalanc	ced floor live loads have	e been considered fo	or									
this desig												
	girder(s) for truss to trus											
	se(s) 1 has/have been n must review loads to ve		rroot								minin	11111
	tended use of this truss		Jireci								IN'TH CA	Rall
	end 2x6 strongbacks, c									5	R	. Aller
	oc and fastened to eac									K	O'.:FESS	Chillin 1
	(3") nails. Strongbacks		valls							22		12.11
	uter ends or restrained	by other means.									27 -	
	(S) Standard										SEA	1 1 =
	Floor Live (balanced):	Lumber Increase=1.	.00,						=			
	crease=1.00 h Loads (lb/ft)										0363	22 : 3
	5-8=-8, 1-4=-179									3	N 1997	1 2
	trated Loads (lb)									5	A. A.	airs
	4=-29									25	NGIN	EELAN
										11	10	BEIN
												allenin
											(IIIIIII	IIII.
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June 9,2025



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Image: space of the state of the space of the s	Job	Truss		Truss Type		Qt	/ Ply	′ I	Norris Rev	1-El. 5-	Floor		
Backer LG, Lumon MD 12178		2F13		Floor		4	1		lob Refere	ence (on	tional)		174038391
<pre></pre>	Structural, LLC, T	hurmont, MD - 21788,			Run: 25.20) S May 13 202	5 Print: 25.2.0						03 Page: 1
10-0 Scale = 143.9 1-0-0 22-8-4 Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan=""2"Colspan="2"Col		3x3 II 1 2 28	1.5x3 II 3 4 27 26 25 1.5x3 II 7-5-0	5 6 7 24 23 3x6 FP	ID:BbnCfB 1-5 44 = 22 3x4 = 11-7-0	knv4wwrcbwaQ 2-0-0 0 21 1.5x3 II 1.5x3 II	9 9 20 1 1.5x3 II	0 S May 1 RfC?PsB7 3x6 Ff 1 10	3 2025 MiTi 0Hq3NSgPo 1 1.5 12 12 18 3x6	ek Industi qnL8w3ui k3 II 13 6 = 22-8-4	ries, Inc ITXbGK	2. Fri Jun 06 13:38: WrCDoi7J4zJC?f	0-1-8 1.5x3 = 1.5x3 ≡ 1.5x3 ≡ 15 29 6 15 15 15 15 15 15 15 15 15 15
1-0-0 22-8-4 2-2-8-4 Colspan="2">2-2-8-4 Colspan="2">Colspan="2"		·	7-5-0	•	4-2-0	1-0-0				9-1-4			
Scale = 1:43.9 22:8-4 Loading TCL Loading (L) CDL CDL CDL Ed BCL Ed BCL Ed BCL Ed BCL Ed BCL Ed BCL Ed Ed Ed Ed Ed Ed Ed Ed Ed Ed Ed Ed Ed													
Loading TCLL (pst) 40.0 Spacing 40.0 1-7-3 100 CSI TC DEFL TC in (loc) Ideft Vert(LL) -0.22 19-20 >831 480 MT20 244/190 BCDL 0.0 Rep Stress Incr NO BC 0.81 Vert(CT) 0.03 19-20 >611 360 BCDL 5.0 Code IRC2021/TPI2014 Matrix-S 0.38 Vert(CT) 0.03 19-20 >611 360 DFO CHORD 5.0 Code IRC2021/TPI2014 Matrix-S 0.38 Hor(CT) 0.03 16 n/a n/a DFO CHORD 2x4 SP No.3(ftat) To:Code 10-5224 SP No.2 3 Refer to girder(s) for truss to truss connections. 4 Provide mechanical connection (by others) of truss to trus to trus to bearing plate capable of withstanding 11 b uplift at joint 23. 8 Refer to girder(s) for truss to truss with 3-100 0.0131* X 3*) nails. Strongbacks, on edge, spaced at 10-00-00 cor and fastened to each truss with 3-100 0.0131* X 3*) nails. Strongbacks to be attached to walls at their oure refs or restrained by other means. 6 CAUTION, Do not erect truss backwards. CAUTION, Do not erect truss backwards		I			2		1-0						I
TCLL 40.0 Lumber DOL 1.00 TC 0.54 Vert(LL) -0.22 19-20 >831 480 TCDL 0.0 Lumber DOL 1.00 BC 0.81 Vert(CT) -0.30 19-20 >611 360 BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Will Vert(CT) -0.30 16 n/a n/a BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Warks-S Horz(CT) 0.03 16 n/a n/a n/a N/a BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Work(CT) -0.30 16 n/a <	Scale = 1:43.9												
TOP CHORD 2x4 SP SS(flat) *Except* 10-15:2x4 SP No.2 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 28. BOT CHORD 2x4 SP No.2(flat) *Except* 24-16:2x4 SP SS (flat) 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 28. WEBS 2x4 SP No.3(flat) 5. Recommend 2x6 Strongbacks, on edge, spaced at 0.0-000 co 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. BRACING 5. Recommend 2x6 Strongbacks to be attached to walls at their outer ends or restrained by other means. BOT CHORD Structural wood sheathing directly applied or 6-0-0 cc bracing. 6. CAUTION, Do not erect truss backwards. BOT CHORD (size) 16=0-3-8, 23=0-3-8, 28= Mechanical Max Uplift 28=-11 (LC 4), 23=-1162 (LC 1), 28=-269 (LC 3) CAUTION, Do not erect truss backwards. FORCES (b) - Maximum Compression/Maximum Tension 28. CAUTION, 28=-269 (LC 3) CAUTION, 11-12=-19230, 12=-00, 2-3=-402(13, 14, 4-58=-227), 12=-00, 2-3=-402(13, 14, 4-58=-267/32), 7-8=-7850, 8-29=-37/286, 26-27=-131/408, 2-25=-463/85, 2-22=-31/20(162, 21-22=-0/1698, 19=-90/2134, 17=18=-19=0/2134, 17=18=-19=0/2134, 17=18=-0/219, 11=2-19220, 11=18=-19=0/2134, 17=18=-0/2134, 17=18=-0/2134, 17=18=-0/2134, 17=18=-0/2134, 17=18=-0/2134, 17=18=-0/129, 14=-12420, 14=15=-0/2 CAUTION Con Conne Conne Conne Conne Conne Conne Conne	TCLL TCDL BCLL	40.0 10.0 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1.00 1.00 NO	TC BC WB	0.81	Vert(LL) Vert(CT)	-0.22 -0.30	2 19-20 0 19-20	>831 >611	480 360	MT20	244/190
11-18=-269/0, 11-19=-193/36, 9-19=0/513 NOTES	BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD WEBS	(flat) 2x4 SP No.2(flat) *E (flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. size) 16=0-3-8, Mechanic Max Uplift 28=-11 (L Max Grav 16=614 (U 28=269 (I (1b) - Maximum Con Tension 1-28=-45/0, 15-16=- 2-3=-408/131, 3-4=- 5-6=0/792, 6-7=0/75 8-9=-1698/0, 9-11=- 12-13=-1923/0, 13 27-28=-37/266, 26-2 25-26=-131/408, 23 22-23=-120/169, 19-2 17-18=0/1690, 16-1 6-23=-115/0, 8-21=- 5-23=-627/0, 2-28=- 2-27=-120/157, 4-22 4-26=-33/67, 7-23=- 8-22=-1144/0, 14-1 13-17=-583/0, 13-18	Except* 24-16:2x4 SP eathing directly applie to applied or 6-0-0 oc , 23=0-3-8, 28= ; 23=0-3-8, 28= ; 24 LC 4) LC 4), 23=1162 (LC 4) LC 3) appression/Maximum -28/0, 1-2=0/0, -408/131, 4-5=-257/3 92, 7-8=-785/0, -2019/0, 14-12=-192; 14=-1242/0, 14-15=-2 27=-131/408, -25=-463/85, -22=0/1698, 18-19=0/2 7=0/762 J/326, 9-20=-346/0, -359/46, 5-25=0/330, 5=-354/0, 14-17=0/62 8=0/298, 12-18=-15/2	bearing pla 28. 5) Recomment 10-00-00 c (0.131" X 2 at their out d or 6) CAUTION, LOAD CASE(S 1), 1), 03, 3/0, 2/0 1134, 3, 25, 2,	te capable of ad 2x6 strongb c and fastened ") nails. Stron er ends or rest Do not erect t	withstanding 1 acks, on edge I to each truss gbacks to be rained by othe	1 lb uplift a s, spaced at with 3-10d attached to er means.	it joint t 1				ORTH CA ORTH CA SEA 0363	

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)

ENGINEERING BY A MITek Atfiliate 818 Soundside Road Edenton, NC 27932

b	Truss	Truss Type		Qty	Ply	Norris Rev	/ 1-El. 5-	Floor		
	2F12	Floor		4	1	Job Refere	ence (on	tional)		174038392
uctural, LLC, Thurmont, MD -	21788,		Run: 25.20 S May 13 ID:BbnCfBknv4wwrcby		25.2.0 S May 1	3 2025 MiT	ek Indust	ries, Inc		3 Page: 1
<u> 1-3</u>	3-0		0-3-0 ⊣		1-4				C	I-1-8 ∦
3х3 п	1.5x3 II 1.5x3	ı 3x3 ıı 3x4=	1.5x3 и = 6x6 =		3x6 Ff 1		х3 ш		1	1.5x3 = .5x3 ш
0-2-1	2 3 4 2 3 4 27 26	5 6 7 	8 9 23 22	10	11	13	*			16 29 약 * · · · · · · · · · · · · · · · · · · ·
3x6 =		24 3x6 FP 3x6 =	3x4 = 6x6 =	1.5x3 13-7-0	II	3x6	6 =		:	3x6 =
			12-7-0)						
<u> </u>	7-4-0		1-7-0	<u> </u>			22-8-4			_
I	7-4-0	1 2	I-3-0 1-0-0	1 1			9-1-4			I
ale = 1:44.1			22-8-4	1-0-0						
te Offsets (X, Y): [22:0-1	1-8,Edge]									
ading LL DL LL	(psf)Spacing40.0Plate Grip DOL10.0Lumber DOL0.0Rep Stress Incr	1-7-3 1.00 1.00 NO	BC 0. WB 0.	69 Vert(L 70 Vert(C 54 Horz(.L) -0.20 CT) -0.2	20-21 7 20-21	l/defl >922 >673 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
DL	5.0 Code	IRC2021/TPI2014	Matrix-S						Weight: 116 lb	FT = 20%F, 12%

at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

3) Refer to girder(s) for truss to truss connections. 2x4 SP No.2(flat) *Except* 25-17:2x4 SP SS Recommend 2x6 strongbacks, on edge, spaced at 4) 2x4 SP No.3(flat) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls

2x4 SP No.3(flat) BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28,26-27,24-26. **REACTIONS** (size) 17=0-3-8, 24=0-5-8, 28= Mechanical Max Grav 17=634 (LC 7), 24=1107 (LC 1),

28=285 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-28=-43/0, 16-17=-28/0, 1-2=0/0, 2-3=-421/102, 3-4=-421/102, 4-5=-421/102, 5-6=0/612, 6-7=0/612, 7-8=-976/0, 8-9=-1909/0, 9-10=-1909/0, 10-12=-2168/0, 12-13=-2026/0, 13-14=-2026/0, 14-15=-1293/0, 15-16=-2/0 BOT CHORD 27-28=-5/303, 26-27=-102/421, 24-26=-313/166, 23-24=0/410, 22-23=0/1643,

21-22=0/1909, 20-21=0/1909, 19-20=0/2256, 18-19=0/1766, 17-18=0/789 WEBS 6-24=-122/0, 9-22=-834/0, 10-21=-273/0, 5-24=-532/0, 2-28=-380/6, 5-26=0/463, 2-27=-125/151, 3-27=-87/68, 4-26=-239/0, 7-24=-1063/0, 7-23=0/753, 8-23=-899/0, 8-22=0/1136, 15-17=-988/0, 15-18=0/656, 14-18=-615/0, 14-19=0/332, 13-19=-18/0, 12-19=-294/0, 12-20=-175/79, 10-20=0/434



BOT CHORD

WEBS

OTHERS

(flat)

```
MILLING
            CAR
                 0
VALUE IIII
           SEAL
         036322
             GILB
          minim
            June 9,2025
```

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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	2F10	Floor	2	1	Job Reference (optional)	174038393

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:03 Page: 1 ID:iODqRrj99mo3ET0k0iCSVOzmIRN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-3-0 0-9-12 0-1-8 0-1-8 1.5x3 u H 1-4-0 2-0-0 1-4-4 Н 3x4 = 1.5x3 = 3x6 FP 1.5x3 II 1.5x3 II 3x3= 1.5x3 ı 1.5x3 = 3x3 II 3x4 = 3x4 = 1.5x3 🛚 1.5x3 u 3x3= 3x4 = 3x3= 4x4 = 16 2 3 4 5 6 7 8 9 10 11 12 13 14 15 0-3-9 30 -2-0 281 Ø ĕ Ř 26 2423 20 19 18 27 22 21 25 3x6= 3x6 = 3x6 FP 3x6 = 3x4 =3x6 =3x3= 3x4 = 4x6= 1.5x3 II 4x4 = 1.5x3 u 13-10-12 12-10-12 3-11-4 11-10-12 22-0-0 3-11-4 7-11-8 8-1-4 1-0-0 1-0-0 22-0-0 Scale = 1:46.6 Plate Offsets (X, Y): [2:0-1-8,Edge], [21:0-1-8,Edge] 1-7-3 CSI DEFL in (loc) l/defl L/d PLATES GRIP (psf) Spacing 40.0 Plate Grip DOL 1.00 TC 0.55 Vert(LL) -0.20 19-20 >999 480 MT20 244/190 10.0 Lumber DOL 1.00 BC 0.59 Vert(CT) -0.28 19-20 >775 360 Rep Stress Incr NO WB Horz(CT) 0.0 0.49 0.03 17 n/a n/a Code IRC2021/TPI2014 Matrix-S Weight: 113 lb FT = 20%F, 12%E 5.0 2) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to TOP CHORD 2x4 SP SS(flat) *Except* 12-16:2x4 SP No.2 UPLIFT at jt(s) 28. This connection is for uplift only and (flat) BOT CHORD does not consider lateral forces. 2x4 SP No.2(flat) *Except* 24-17:2x4 SP SS Load case(s) 1 has/have been modified. Building 3) (flat) 2x4 SP No.3(flat) designer must review loads to verify that they are correct 2x4 SP No.3(flat) for the intended use of this truss. 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d TOP CHORD Structural wood sheathing directly applied or (0.131" X 3") nails. Strongbacks to be attached to walls 6-0-0 oc purlins. except end verticals. at their outer ends or restrained by other means. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc 5) CAUTION, Do not erect truss backwards. bracing. LOAD CASE(S) Standard REACTIONS 17=0-3-8, 25=0-3-8, 28=0-3-8 (size) Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Max Uplift 28=-344 (LC 4) Plate Increase=1.00 17=702 (LC 7), 25=1432 (LC 1), Max Grav Uniform Loads (lb/ft) 28=53 (LC 3) Vert: 17-28=-8, 1-16=-80 (Ib) - Maximum Compression/Maximum Concentrated Loads (lb) Tension Vert: 1=0 TOP CHORD 1-28=-124/0, 16-17=-28/0, 1-2=-7/0, 2-3=0/665, 3-4=0/1471, 4-5=0/1471, 5-6=-481/0, 6-7=-1790/0, 7-8=-1790/0 8-9=-2661/0, 9-10=-2661/0, 10-11=-2661/0, 11-13=-2389/0, 13-14=-2389/0, 14-15=-1460/0, 15-16=-2/0 27-28=-665/0, 26-27=-665/0, 25-26=-665/0, BOT CHORD \cap 23-25=-359/0 22-23=0/1223 21-22=0/2239 20-21=0/2661, 19-20=0/2627, 18-19=0/2023, 17-18=0/877 4-25=-42/60, 9-21=-294/0, 10-20=-155/30, SEAL 3-25=-1094/0, 2-28=0/828, 2-27=-221/0, 3-26=0/248, 5-25=-1403/0, 5-23=0/1022 036322 6-23=-972/0, 6-22=0/730, 7-22=-97/0, 8-22=-579/0, 8-21=0/684, 15-17=-1099/0, 15-18=0/759, 14-18=-733/0, 14-19=0/467, 13-19=-61/0, 11-19=-304/0, 11-20=-179/335

NOTES

WEBS

Loading

TCLL

TCDL

BCLL

BCDL

WEBS

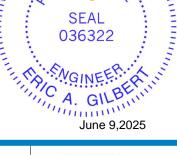
OTHERS

FORCES

BRACING

LUMBER

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

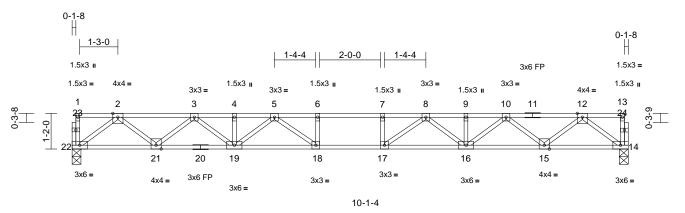


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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor	
	2F9	Floor	5	1	Job Reference (optional)	174038394

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:03 ID:TfxXKtMUCwQYP8?tEfIltQzmFjY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







1-0-0 18-2-8

Scale = 1:37.7	
Scale = 1.377	

Loading TCLL (ps) 40.0 Spacing (p) tab Grip DOL Lumber DOL Lumber DOL ECL 1.0.0 CSI TC BC 0.28 0.0.8 DEFL Vert(LL) in (loc) I/def Vert I/def I/def Vert I/de
TCDL 10.0 BCLL Lumber DOL 1.00 Rep Stress Incr BC 0.98 WB Vert(CT) -0.38 17-18 >567 360 Max BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Horz(CT) 0.07 14 n/a n/a LUMBER Code IRC2021/TPI2014 Matrix-S Weight: 92 lb FT = 20%F, 12%E LUMBER 2x4 SP No.2(flat) Matrix-S Vert(CT) 0.07 14 n/a n/a BOT CHORD 2x4 SP No.2(flat) Vert(CT) 0.07 14 n/a n/a BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Vert(CT)
BCLL 0.0 Rep Stress Incr YES WB 0.42 Horz(CT) 0.07 14 n/a N/a BCDL 5.0 Code IRC2021/TPI2014 Matrix-S 0.42 Horz(CT) 0.07 14 n/a n/a LUMBER TOP CHORD 2x4 SP No.2(flat) BCDCHORD 2x4 SP No.3(flat) FT = 20%F, 12%E BOT CHORD 2x4 SP No.3(flat) Verget: 42 SP No.3(flat) Verget: 42 SP No.3(flat) Verget: 42 SP No.3(flat) OTHERS 2x4 SP No.3(flat) Verget: 42 SP No.3(flat) Verget: 42 SP No.3(flat) Verget: 42 SP No.3(flat) BOT CHORD Structural wood sheathing directly applied or 6-0-0 cp puritins, except end verticals. Structural wood sheathing directly applied or 2-2-0 cc Structural wood sheathing directly applied or 2-2-0 ac BOT CHORD Rigid ceiling directly applied or 2-2-0 ac Matrix-S Verget: 4-4785 (LC 1), 22-785 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension Top CHORD 1-22-280, 13-14=-280, 1-2=-210, 2-210, 2-210, 2-210, 2-210, 2-210, 2-210, 2-210, 10-12=-1668/0, 4-2-732(0, 4-5=-2792/0, 4-5=-2792/0, 4-5=-2792/0, 10-12=-1668/0, 4-2-732/0, 10-12=-1668/0, 4-2-732/0, 10-12=-1668/0, 12-13=-20 BOT CHORD 21-22-0987, 19-21-02232, 18-19=-0/3136, 15-16=0/2323, 14-19=0/3136, 15-16=0/2323, 14-15=-0/2326, 15-16=0/2323, 14-15=-0/2326, 15-16=0/2323, 14-15=-0/2326, 15-16=0/2323, 14-15=-0/2326, 15-16=0/2326, 14-15=0/2326, 14-15=0/2326, 14-15=0/23
BCDL 5.0 Code IRC2021/TPI2014 Matrix-S LUMBER TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS + T = 20%F, 12%E WEBS 2x4 SP No.2(flat) WEBS
TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (2iz) 14=0-3-8, 22=0-3-8 Max Grav Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (b) Maximum Compression/Maximum Tension TOP CHORD 2-3=1668/0, 3+4=-2792/0, 1-2=-270/0, 5-6=-3366/0, 7-8=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 1-12=-1668/0, 1-21-33=-2/0 BOT CHORD 2-3=2-0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323,
TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (2iz) 14=0-3-8, 22=0-3-8 Max Grav Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (b) Maximum Compression/Maximum Tension TOP CHORD 2-3=1668/0, 3+4=-2792/0, 1-2=-270/0, 5-6=-3366/0, 7-8=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 1-12=-1668/0, 1-21-33=-2/0 BOT CHORD 2-3=2-0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323,
BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 cp purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav Maximum Tompression/Maximum ToP CHORD (lb) Naximum Compression/Maximum ToP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4==-2792/0, 4-5=-2792/0, 5-6=-3366/0, 7-8=-3
OTHERS 2x4 SP No.3(ha) BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 (Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3-366/0, 5-6=-3366/0, 6-7=-3366/0, 7-8
BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav (size) 14=0-3-8, 22=0-3-8 Max Grav TOP CHORD (b) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323,
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 0-12=-1668/0, 1-2=-10-2323, 18-19=0/3136, 15-16=0/2323, 18-19=
6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=-0/3366, 16-17=0/3136, 15-16=0/2323, 4-5
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (lb) - Maximum compression/Maximum Tension 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-33=66/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-3360/0, 6-7=-300/0, 6-7=-300/0, 6-7=-300/0, 6-7=-300/0, 6-7=-300/0, 6-7=-30/0, 6-7=-30/
bracing. bracing. REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 6-7=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 41.45, 0/2007
REACTIONS (size) 14=0-3-8, 22=0-3-8 Max Grav Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323,
Max Grav 14=785 (LC 1), 22=785 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323,
FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-168/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 14-10=0/2323, 18-19=0/2323, 18-19=0/3136,
TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 14-15_0/2023
TOP CHORD 1-22=-28/0, 13-14=-28/0, 1-2=-2/0, 2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 41.45_0/2002
2-3=-1668/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-3366/0, 6-7=-3366/0, 7-8=-3366/0, 8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 14-15 0/2021
8-9=-2792/0, 9-10=-2792/0, 10-12=-1668/0, 12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 14-15-0/2021
12-13=-2/0 BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 14 16 - 0/2032
BOT CHORD 21-22=0/987, 19-21=0/2323, 18-19=0/3136, 17-18=0/3366, 16-17=0/3136, 15-16=0/2323, 14 15 0/2021
17-18=0/3366, 16-17=0/3136, 15-16=0/2323,
14-15=0/96/ WEBS 6-18=-241/0.7-17=-241/0.2-22=-1236/0.
2-21=0/887, 3-21=-852/0, 3-19=0/598,
4-19=-78/0, 5-19=-439/0, 5-18=-46/555,
12-14=-1236/0, 12-15=0/887, 10-15=-852/0,
10-16=0/598, 9-16=-78/0, 8-16=-439/0,
8-17=-46/555
NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d

P) 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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Job		Truss		Truss Type		Qty	PI	y	Norris Rev	/ 1-El. 5-	Floor			
		2F14		Floor		3	1		Job Refere		tional)		174038395	
Structural, LLC, T	hurmont. MD -	21788.			Run: 25.20 S	May 13 2025	Print: 25.2	2.0 S Mav				. Fri Jun 06 13:38:0	3 Page	 e: 1
- 1-2-0	1-3-(3x3 ⊪ 1 28 3x6 =	2	0-10-4 1.5x3 II 3 4 27 26 25 1.5x3 II	3x3 II 5 6 24 23 3x6 FP	3x4= 7 22	2-0-0 2-0-0 3 2 21 1.5x3 II	9 9 20 1.5x3 II	<u>4</u> ⊣ 3x6	FP 1. 0 11 1	5x3 II 2 1	3	14 17	0-1-8 1.5x3 = 1.5x3 II 15 29 16 3x6 =	
			7-8-12 7-8-12	3x6 =	<u>11-10-12</u> 4-2-0	13-10 12-10-12 1-0-0				<u>23-0-0</u> 9-1-4				
Scale = 1:43.9					23-0	1-0 D-0	-0						_	
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 NO IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.54 0.81	DEFL Vert(LL) Vert(CT) Horz(CT	-0. -0.	in (loc) 22 19-20 30 19-20 03 16	l/defl >830 >610 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 118 lb	GRIP 244/190 FT = 20%F, 1	2%E
BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD	(flat) 2x4 SP No.2 (flat) 2x4 SP No.3 2x4	2(flat) *Exi 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 3(flat) 4(flat)	bression/Maximum 8/0, 1-2=0/0, 39/107, 4-5=-268/2 , 7-8=-815/0, 038/0, 11-12=-1936 I=-1248/0, 14-15=-2 =-107/439, 25=-435/79, 22=0/1722, 18-19=0/2 =0/7766	lo.2 10-00-00 (0.131" 3 SS at their of 4) CAUTIO LOAD CASI d or 1), 80, 5/0, 2/0	<pre>iend 2x6 strongbacl) oc and fastened to (3") nails. Strongb uiter ends or restrai N, Do not erect trus E(S) Standard</pre>	each truss acks to be a ned by other	with 3-10 ttached to means.	d			I. M.	WITH CA	ROLIN	
this design.	5-23=-640/0 2-27=-110/1 4-26=-20/70 8-22=-1144/ 13-17=-587/ 11-18=-272/	, 2-28=-3 75, 4-25= 1, 7-23=-1 10, 14-16= 10, 13-18= 10, 11-19= ads have l	327, 9-20=-347/0, 79/26, 5-25=0/344, 351/0, 3-27=-71/5 036/0, 7-22=0/829, 958/0, 14-17=0/62 -0/302, 12-18=-16/2 195/37, 9-19=0/51 been considered fo	28, 2, 6						Maniffitter.		A. G	22 EERER	Mannunn

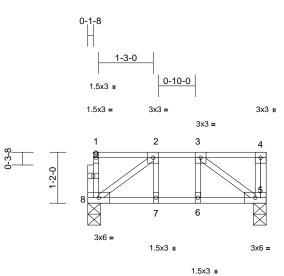


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Job	Truss	Truss Type	Qty	Ply	Norris Rev 1-El. 5-Floor
	2F8	Floor	1	1	I74038396 Job Reference (optional)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Fri Jun 06 13:38:02 ID:xsVvYCM6yEYP1Ia3oMpXQezmFjX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.24	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 24 lb	FT = 20%F, 12%E

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 5=0-3-8, 8=0-3-8
	Max Grav 5=360 (LC 1), 8=349 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	
	Tension
	Tension 1-8=-109/0, 4-5=-114/0, 1-2=-7/0, 2-3=-335/0,
TOP CHORD	Tension 1-8=-109/0, 4-5=-114/0, 1-2=-7/0, 2-3=-335/0, 3-4=0/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 3) 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.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Plate Increase=1.00
 - Uniform Loads (lb/ft) Vert: 5-8=-8, 1-4=-180

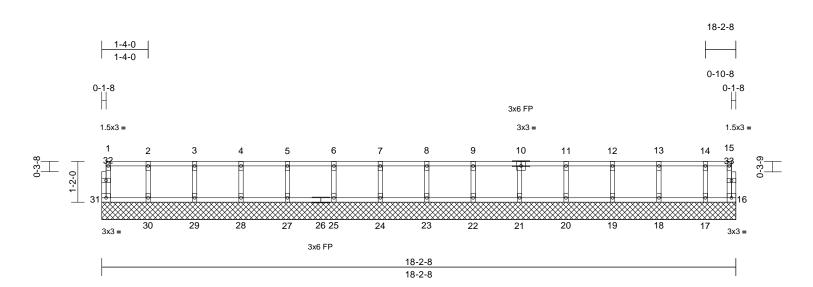
MILLIN CAR O, С 11111111111 THE ADDRESS OF SEAL 036322 G minin June 9,2025

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



Job	Truss	Truss Type		Ply	Norris Rev 1-El. 5-Floor	
	2F3GE	Floor Supported Gable	1	1	Job Reference (optional)	74038397

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Scale = 1:33.1

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 IRC202	1/TPI2014	CSI TC BC WB Matrix-R	0.06 0.02 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 76 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 ARD 2x4 SP No.2(flat) indicated. ARD 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) 3 Truss to be fn braced again 4 Gable studes of 6-0-0 oc purlins, except end verticals. BRD Rigid ceiling directly applied or 10-0-0 oc bracing. Indicated. 2 Gable require 3 Gable require 3 Truss to be fn braced again 4 Gable studes 5 Recommend 10-00-00 oc a (0.131" X 3") at their outer 10-00-00 oc bracing. 				e 1.5x3 () MT20 unless otherwise es continuous bottom chord bearing. ully sheathed from one face or securely ist lateral movement (i.e. diagonal web). spaced at 1-4-0 oc. 2x6 strongbacks, on edge, spaced at and fastened to each truss with 3-10d nails. Strongbacks to be attached to walls ends or restrained by other means. Standard								
FORCES	(lb) - Maximum Com Tension 1-31=-38/0, 15-16=-2	pression/Maximum 21/0, 1-2=-3/0, 2-3=-3	3/0,									TH CA	RONIN
BOT CHORD	12-13=-8/0, 13-14=- 30-31=0/3, 29-30=0/ 25-27=0/3, 24-25=0/ 21-22=0/3, 20-21=0/ 17-18=0/8, 16-17=0/ 2-30=-107/0, 3-29=- 5-27=-107/0, 6-25=- 8-23=-106/0, 9-22=- 11-20=-104/0, 12-19)-11=-8/0, 11-12=-8/0 8/0, 14-15=-8/0 3, 28-29=0/3, 27-28= 3, 23-24=0/3, 22-23= 8, 19-20=0/8, 18-19= 8 107/0, 4-28=-107/0,	=0/3, =0/3, =0/8,							Contraction of the second seco		SEA 0363	22 ER &
NOTES	14-17=-85/0											A. G	ILBE IIII

June 9,2025

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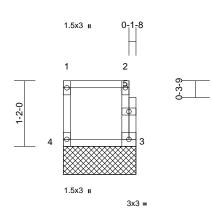
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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	Norris Rev 1-El. 5-Floor			
	2F4GE	Floor Supported Gable	1	1	Job Reference (optional)	174038398		

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1.5x3 =





Scale = 1:20.5

Scale = 1.20.3												
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	0.05	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 7 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											

TOP CHORD	Structural wood sheathing directly applied or 1-3-8 oc purlins, except end verticals.								
BOT CHORD		Rigid ceiling directly applied or 10-0-0 oc							
REACTIONS	(size)	3=1-3-8, 4=1-3-8 3=44 (LC 1), 4=48 (LC 1)							
FORCES	(lb) - Maximum Compression/Maximum								

TOP CHORD 1-4=-42/0, 2-3=-42/0, 1-2=-7/0 BOT CHORD 3-4=0/7

Tension

001 0110

NOTES

- Gable requires continuous bottom chord bearing.
 Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at
- 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

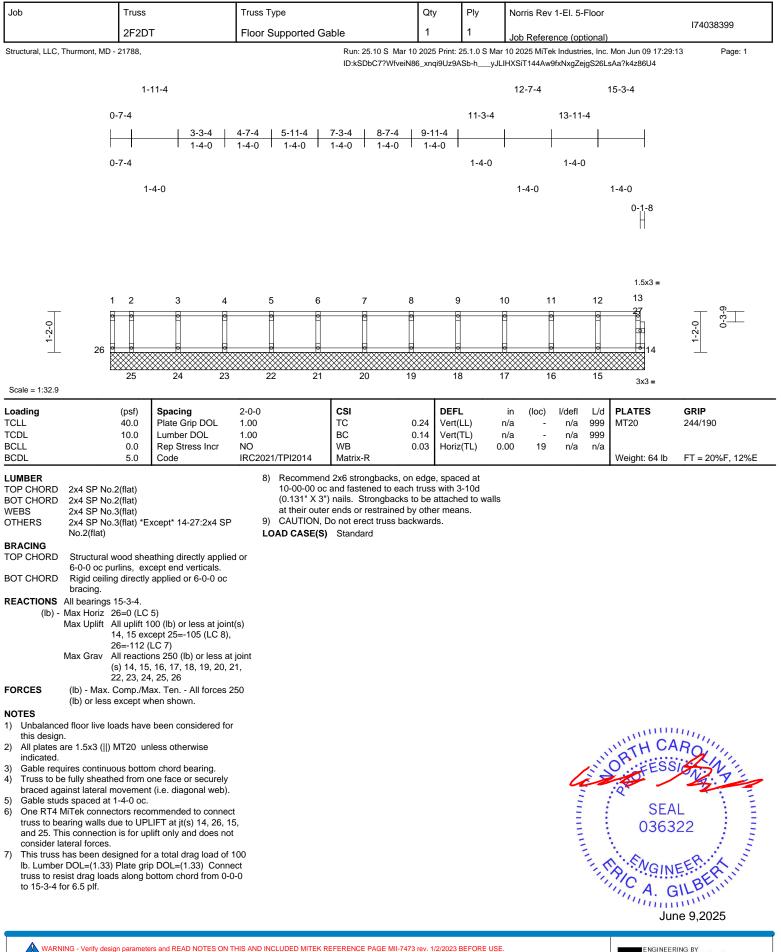
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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