

RE: 2411-0101-A - The Farm at Neills Creek Lot 00.0050 OWF

Site Information:

Project Customer: Project Name: Lot/Block: Model: Address: City:

Subdivision:

Trenco 818 Soundside Rd Edenton, NC 27932

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

Design Code: IRC2021/TPI2014 Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 50.0 psf Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Floor Load: N/A psf

Exposure Category: B

No.	Seal#	Truss Name	Date
1	169760064	F1	11/21/24
2	169760065	F2	11/21/24
3	169760066	F3	11/21/24
4	169760067	F4	11/21/24
5	169760068	F5	11/21/24
6	169760069	F6	11/21/24
7	169760070	F7	11/21/24
8	l69760071	FG1	11/21/24
9	l69760072	FG2	11/21/24
10	l69760073	FG3	11/21/24
11	l69760074	FGE1	11/21/24

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

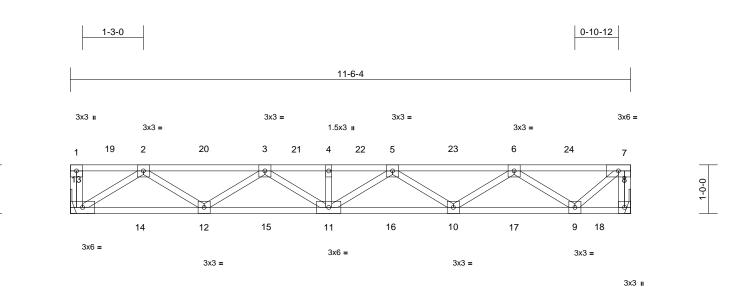
My license renewal date for the state of North Carolina is December 31, 2024 **IMPORTANT NOTE:** The seal on these truss component designs is a certification of the state of t shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	F1	Floor	1	1	I69760064 Job Reference (optional)

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Thu Nov 21 09:16:33 ID:0ONY2rLj9Xt5sUK?eFOnAJyHMYh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:23.7

1-0-0

				-								
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	0.64	Vert(LL)	-0.09	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.12	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 12%E
UMBER												
OP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
VEBS	2x4 SP No.3(flat)											
BRACING												
OP CHORD	Structural wood she		ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C									
REACTIONS	0	anical, 13= Mechani	cal									
	Max Grav 8=496 (L	C 1), 13=496 (LC 1)										
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	1-13=-259/33, 7-8=	493/0 1-2-0/0										
	2-3=-1107/0, 3-4=-1											
	5-6=-1340/0, 6-7=-4		,									
BOT CHORD	12-13=0/714, 11-12	=0/1467, 10-11=0/1	579,									
	9-10=0/1072, 8-9=0											
NEBS	2-13=-846/0, 2-12=											
	3-11=-164/305, 4-1	,	3/233,									
	5-10=-319/70, 6-10= 7-9=0/648	=0/405, 6-9=-708/0,										
NOTES												
1) Refer to gi	irder(s) for truss to tru	ss connections.									, united and the second	1111
	has been designed for										WTH CA	Roite
	0.0lb live and 3.0lb de									N	A	in the
	d at all panel points al									12	C. FESS	Marin
	nord, nonconcurrent w and 2x6 strongbacks, o		IOS.							1)		
	oc and fastened to ea										and a	N 1 E
	3") nails. Strongbacks		alls								SEA	L : E

(0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

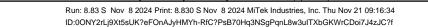
LOAD CASE(S) Standard



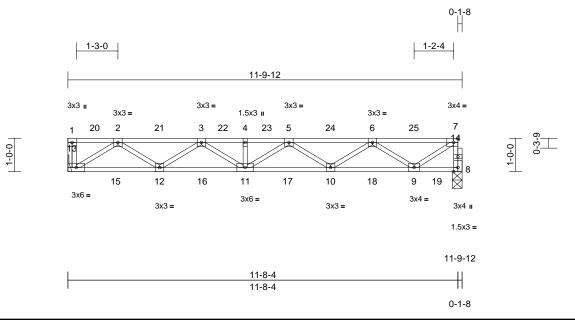
Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	F2	Floor	2	1	I69760065 Job Reference (optional)



Page: 1



Scale = 1:31.4

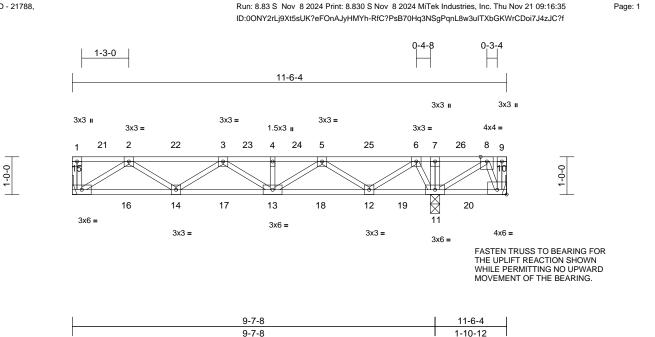
Plate Offsets (X, Y): [7:0-1-8,Edge]

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.00 YES IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.73 0.87 0.35	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.13 0.02	(loc) 10-11 10-11 8	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%F, 12%E
	2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 8=0-3-8, ´ Max Grav 8=501 (LC (lb) - Maximum Com Tension	cept end verticals. applied or 10-0-0 oc 13= Mechanical C 1), 13=511 (LC 1) pression/Maximum 500/0, 1-2=0/0, 671/0, 4-5=-1671/0, 66/0 =0/1535, 10-11=0/16 71 /\$506, 3-12=-467/0, =-258/66, 5-11=-26	991, 1/220,	Standard								
 Refer to gi Bearing at using ANS designer s This truss load of 250 panels and Bottom Ch Recomme 10-00-00 c (0.131" X at their out 	are assumed to be: , Jo irder(s) for truss to trus t joint(s) 8 considers pa SI/TPI 1 angle to grain should verify capacity of has been designed for 0.0lb live and 3.0lb dea d at all panel points ald nord, nonconcurrent wi end 2x6 strongbacks, o oc and fastened to ead 3") nails. Strongbacks ter ends or restrained I, Do not erect truss ba	ss connections. arallel to grain value formula. Building of bearing surface. r a moving concentre ad located at all mid ong the Top Chord at th any other live load n edge, spaced at th truss with 3-10d to be attached to wa by other means.	nd ds.						Continue		SEA 0363	EER. Kunn

rg) ENGINEERING BY AMITEK Affiliate 818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	F3	Floor	1	1	I69760066 Job Reference (optional)



Scale = 1:30.6

Plate Offsets (X, Y): [10:Edge,0-1-8]

	(X, Y): [10:Edge,0-1-8				-							
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	0.58 0.81 0.28	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.10 0.01	(loc) 14-15 14-15 11	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 62 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 10= Mech Mechanic Max Uplift 10=-349 (Max Grav 10=172 (I	athing directly applie cept end verticals. applied or 6-0-0 oc nanical, 11=0-3-0, 15 al (LC 3) _C 16), 11=935 (LC	6) This trus: load of 2: panels a Bottom C 7) Recomm 10-00-00 (0.131" X at their o 8) CAUTIOI 5= LOAD CASE	s has been designed 50.0lb live and 3.0lb dat all panel points hord, nonconcurreni end 2x6 strongbacks oc and fastened to 3") nails. Strongba uter ends or restrain N, Do not erect truss (S) Standard	dead loca along the t with any s, on edge each truss cks to be ed by othe	ted at all mid Top Chord a other live loa s, spaced at s with 3-10d attached to v er means.	d and ads.					
FORCES TOP CHORD BOT CHORD WEBS	2-3=-676/0, 3-4=-72 5-6=-235/35, 6-7=0/ 14-15=0/488, 13-14: 11-12=-416/0, 10-11 7-11=-259/159, 2-16 3-14=-249/119, 3-13 4-13=-257/62, 5-13=	pression/Maximum =-251/89, 1-2=0/0, 7/0, 4-5=-727/0, 721, 7-8=0/720, 8-9: =0/831, 12-13=0/51 =-162/47 5=-579/0, 2-14=-5/36 3291/135, =-57/391, 5-12=-555.	5, 60,								WITH CA	NRO4
 this desig 2) Bearings 3) Refer to g 4) Provide m bearing p 5) Provide m 	6-12=0/589, 6-11=-6 8-10=-114/390 eed floor live loads have n. are assumed to be: , Jo jirder(s) for truss to trus nechanical connection (late at joint(s) 11. nechanical connection (late capable of withstar	e been considered fo oint 11 SP No.2 . ss connections. (by others) of truss to (by others) of truss to	0						La villinger		SEA 0363	EER.KIN

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818 Soundside Road Edenton, NC 27932

November 21,2024

Job		Truss		Truss Type		Qty	Ply	The Farm	at Neills Cr	eek Lot 00.0050 C	WF
2411-0101-4	2	F4		Floor		1	1				169760067
Structural, LLC, 1				11001	Run: 8 83 S Nov				ence (option adustries Inc	nal) c. Thu Nov 21 09:16:3	5 Page: 1
	mamon, we	- 21700,			ID:UaxwFBMLwr?					2-110 NOV 21 03-10.3 XbGKWrCDoi7J4zJC 0-1-8 ∦	•
	ł	1-3-0			0-4-8 					1-4-5	
	3	3x3 II 3x3		1.5x3 II 3x6 FP 3x3 =	3x3 II 3x4 = 3x4 =	3x3:	1.5x3 u	3x3 =	3x6 =	3x4 =	
		1 38 2		4 41 5 6 42	7 8 43 9	44 10	45 11 46	12 47	13	48 14 27	
	1-0-0									15	0-3- -3-
		28 3x6 =			31 🕅 32 22	21 332			35 17 36	6 16 37 🖾	
			3x3 =	3x6 = 3x4 =	3x6 =	3x4 = 3x6	3x6 =	3x3	= 1.5x3 u	3x4 = 3x4 1.5x3 =	
	1	1	9-7	-8	I		21-5-	12		21-7-4	
	Γ		9-7	-8	I		11-1()-5		 0-1-8	
Scale = 1:41.7 Plate Offsets ()	K, Y): [14:0-	1-8,Edge]									
oading		(psf)	Spacing	1-7-3	CSI	DEF		in (loc)		_/d PLATES	GRIP
TCLL TCDL		40.0 10.0	Plate Grip DOL Lumber DOL	1.00 1.00	TC BC	0.81 Vert 0.81 Vert	(CT) -0.	09 25-26 10 18-19		80 MT20 60	244/190
BCLL BCDL		0.0 5.0	Rep Stress Incr Code	YES IRC2021/TPI2014	WB Matrix-S	0.34 Horz	2(CT) 0.	01 15	n/a r	n/a Weight: 110 I	b FT = 20%F, 12%E
FOP CHORD SOT CHORD WEBS DTHERS BRACING FOP CHORD BOT CHORD REACTIONS	6-0-0 oc pu Rigid ceilin bracing. (size) Max Grav (lb) - Maxim Tension 1-26=-259/	.2(flat) .3(flat) .3(flat) .3(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(flat) .4(C 4), 22=1178 (LC 1) C 3) pression/Maximum =-432/0, 1-2=0/0,	 4) Bearing at j using ANSI, designer sh load of 250, panels and Bottom Chc 6) Recommen 10-00-00 oc (0.131" X 3 at their oute 7) CAUTION, LOAD CASE(S 	der(s) for truss to tru oint(s) 15 considers (TPI 1 angle to grain ould verify capacity as been designed fc Olb live and 3.0lb de at all panel points al ord, nonconcurrent w d 2x6 strongbacks, o c and fastened to eac ") nails. Strongbacks pr ends or restrained Do not erect truss back	parallel to gra formula. Bui of bearing su or a moving cr and located at ong the Top 0 iith any other on edge, space ch truss with s to be attach by other mea	ain value ilding rface. concentrated all mid Chord and live loads. ced at 3-10d led to walls				
SOT CHORD	5-7=-151/6 9-10=-390/ 11-12=-113 25-26=0/48	86, 7-8=0/ 251, 10-1 34/0, 12-1 37, 24-25=	3=-1212/0, 13-14=-6							mm	11111
	21-22=-514	4/44, 19-2 [,] 292, 17-18	,	101,						OR FES	ARO
VEBS	3-25=-236/ 4-24=-257/ 7-23=0/686 9-21=0/707 11-19=-258 12-18=-200	(136, 3-24= (62, 5-24=- 6, 7-22=-6 7, 10-21=-6 8/69, 12-19 0/186, 13-1	=-578/0, 2-25=-61/34 =-310/123, -39/404, 5-23=-664/0 71/0, 9-22=-1063/0, 677/0, 10-19=-51/43/2 9=-366/112, 18=-110/351, 6=-586/0, 14-16=0/64), 2,					Commen	SE 036	• –
NOTES	d floor live lo	ads have	been considered for							SA NGI	VEEPLIN
this design											GILB, er 21,2024
	NG - Verify desi	gn parameter	s and READ NOTES ON T	HIS AND INCLUDED MITEK I	REFERENCE PAGE MII-74	473 rev. 1/2/2023	BEFORE USE			ENGINE	ERING BY

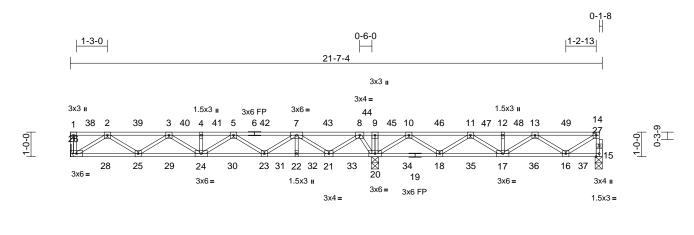
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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	F5	Floor	3	1	I69760068 Job Reference (optional)

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Thu Nov 21 09:16:36 ID:ynVITXMzh97p5oUNIfQFFkyHMYf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





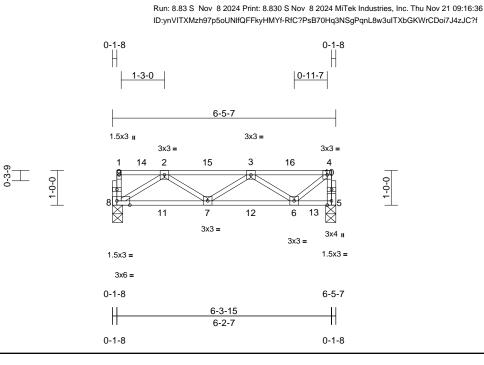
Scale = 1:41.7

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		0.69	Vert(LL)		25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC		0.82	Vert(CT)	-0.11	23-24	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB		0.40	Horz(CT)	0.01	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI20	14 Matr	rix-S							Weight: 110 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 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, Except: 10-0-0 oc bracing: 2 (size) 15=0-3-8,	applied or 6-0-0 oc 5-26,24-25,23-24. 20=0-3-8, 26=	15 SF 4) Refer 5) Bearin desig 1 or 6) Provin bearin 15. 7) This t load c panel Botto	No.2. to girder(s) for an at joint(s) ' ANSI/TPI 1 a ner should ve de mechanica ng plate capal rruss has beer of 250.0lb live s and at all pa n Chord, non	med to be: , Jc or truss to trus 15 considers p angle to grain f prify capacity o al connection (ble of withstan n designed for and 3.0lb dea anel points alo nconcurrent with	ss conr barallel formula of beari (by othe nding 3 r a mov ad loca ong the th any	ections. to grain valu a. Building ng surface. ers) of truss I lb uplift at jo ving concentr ted at all mid Top Chord a other live loa	ie to iint rated I and					
	Mechanic Max Uplift 15=-3 (LC Max Grav 15=324 (I 26=457 (I	. 3) ∟C 4), 20=1186 (LC 1 ∟C 3)	8) Reco 10-00), (0.13	mmend 2x6 s -00 oc and fa 1" X 3") nails.	strongbacks, or astened to eac Strongbacks or restrained b	n edge h truss to be	, spaced at with 3-10d attached to w						
FORCES	(lb) - Maximum Com	pression/Maximum			erect truss bad								
TOP CHORD	Tension 1-26=-259/34, 14-15 2-3=-992/0, 3-4=-13 5-7=-999/0, 7-8=-18 9-10=0/1440, 10-11 11-12=-718/215, 12 13-14=-418/34	53/0, 4-5=-1353/0, 9/334, 8-9=0/1440, =-345/591,	LOAD CA	.SE(S) Stan	ndard								1111-
BOT CHORD	22-23=-114/658, 21 20-21=-963/0, 18-20	,	,									ORTH CA	
WEBS NOTES	3-25=-374/40, 3-24= 5-24=-193/287, 5-23 7-22=-72/254, 7-21= 8-20=-803/0, 10-20= 11-18=-528/0, 11-17 12-17=-254/90, 13- 13-16=-382/70, 14-1	7=-242/209, 6=-40/457	/67, 3,							Structure.		SEA 0363	
this desigr	ed floor live loads have n. are 3x3 (=) MT20 unle		d									November	ILBLUUN,
All plates a	are 3x3 (=) 101120 Unit	se onierwise indicate	u.									Novombor	21 2024

November 21,2024

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	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	F6	Floor	7	1	I69760069 Job Reference (optional)



<u>Scale = 1:23.8</u> Plate Offsets (X, Y): [8:0-4-8,Edge]

		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	0.63	Vert(LL)	-0.08	7-8	>888	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.09	7-8	>831	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%F, 12%E

LUMBER

LUWIDER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 5=0-3-8, 8=0-3-8
	Max Grav 5=326 (LC 18), 8=327 (LC 15)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-8=-260/40, 4-5=-321/0, 1-2=-19/3,
	2-3=-568/0, 3-4=-354/0
BOT CHORD	7-8=0/401, 6-7=0/558, 5-6=0/45
WEBS	2-8=-474/0, 2-7=-51/301, 3-7=-171/179,
WEBS	2-8=-474/0, 2-7=-51/301, 3-7=-171/179, 3-6=-343/8, 4-6=0/414

All bearings are assumed to be SP No.3.

- Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 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

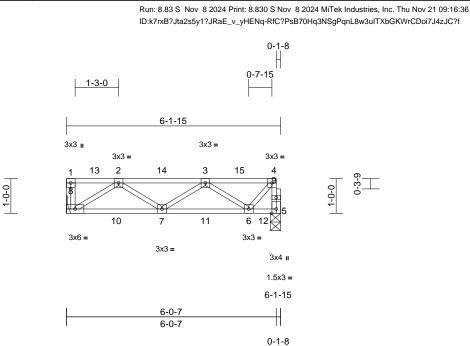


Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	F7	Floor	2	1	I69760070 Job Reference (optional)



Scale = 1:23.8

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	0.59	Vert(LL)	-0.08	7-8	>851	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.09	7-8	>799	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 33 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 sheathing directly applied
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 5=0-3-8, 8= Mechanical
REACTIONS	0
REACTIONS FORCES	(size) 5=0-3-8, 8= Mechanical
	(size) 5=0-3-8, 8= Mechanical Max Grav 5=323 (LC 16), 8=325 (LC 3)
	(size) 5=0-3-8, 8= Mechanical Max Grav 5=323 (LC 16), 8=325 (LC 3) (Ib) - Maximum Compression/Maximum
FORCES	(size) 5=0-3-8, 8= Mechanical Max Grav 5=323 (LC 16), 8=325 (LC 3) (lb) - Maximum Compression/Maximum Tension
FORCES	(size) 5=0-3-8, 8= Mechanical Max Grav 5=323 (LC 16), 8=325 (LC 3) (lb) - Maximum Compression/Maximum Tension 1-8=-259/36, 4-5=-321/0, 1-2=0/0,
FORCES TOP CHORD	(size) 5=0-3-8, 8= Mechanical Max Grav 5=323 (LC 16), 8=325 (LC 3) (lb) - Maximum Compression/Maximum Tension 1-8=-259/36, 4-5=-321/0, 1-2=0/0, 2-3=-542/0, 3-4=-299/0

or

- NOTES
- 1) Bearings are assumed to be: , Joint 5 SP No.3 .
- Refer to girder(s) for truss to truss connections. 2)
- Bearing at joint(s) 5 considers parallel to grain value 3) using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.
- LOAD CASE(S) Standard



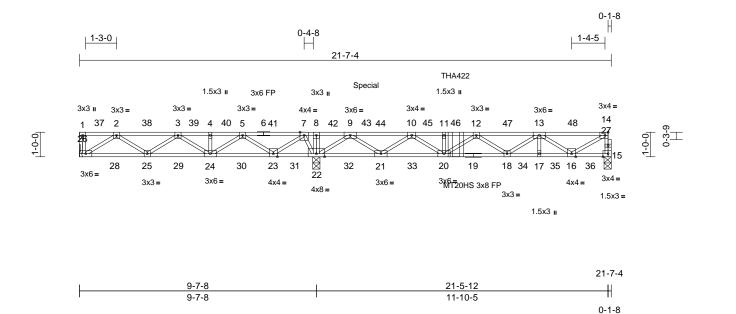
Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	FG1	Floor Girder	1	1	I69760071 Job Reference (optional)

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Thu Nov 21 09:16:37 ID:NMBR5ZPs_4VOyFCyQo_ytNyHMYc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.7

Plate Offsets (X, Y): [14:0-1-8,Edge], [15:0-2-8,Edge]

Plate Olisets (X, Y): [14:0-1-8,Edge	j, [15:0-2-8,Edge]												
Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO	04/TDI2014	CSI TC BC WB	0.96 0.91 0.49	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 25-26 18-20 15	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20HS MT20	GRIP 187/143 244/190	00/ E
BCDL	5.0	Code	IRC202	21/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 12	.%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	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) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 15=0-3-8, Mechanic Max Grav 15=591 (L 26=435 (L (lb) - Maximum Com Tension 1-26=-261/32, 14-15 2-3=-834/104, 3-4=- 5-7=-82/986, 7-8=0/ 9-10=-462/323, 10-1 11-12=-1730/0, 12-1 25-26=-21/605, 24-2 23-24=-680/616, 22- 21-22=-789/0, 20-21 18-20=0/1922, 17-18 15-16=0/83 8-22=-265/157, 2-26 2-25=-101/347, 3-25 3-24=-331/102, 4-24 5-23=-856/0, 7-23=0	athing directly applie cept end verticals. applied or 6-0-0 oc 22=0-3-8, 26= al .C 4), 22=1544 (LC 1 .C 3) pression/Maximum i=-588/0, 1-2=0/0, 886/425, 4-5=-886/4; 1911, 8-9=0/1911, 1=-1730/0, 3=-1749/0, 13-14=-8 5=-228/1023, -23=-1476/0, =-64/1224, 8=0/1532, 16-17=0/1 5=-717/25, i=-231/151, i=-260/59, 5-24=-4/4; //884, 7-22=-848/0,	3) 4) 5) d or 6) 7)), 8) 9) 25, 1(1) 51/0 12 532, L 1) 37,	 Bearings are 15 SP No.2. Refer to gird Bearing at jousing ANSI/1 designer shot This truss har load of 250.0 panels and a Bottom Chor Recommend Recommend Recommend CAUTION, E Use Simpsoi or equivalent (es) to front f Hanger(s) or provided suff lib up at 11-6 such connec In the LOAD of the truss a CAD CASE(S) Dead + Floo Plate Increa Uniform Lo. Vert: 15- 	assumed to be: , er(s) for truss to tr int(s) 15 considers FPI 1 angle to grai uld verify capacity is been designed to bl live and 3.0lb do tt all panel points a d, nonconcurrent 1 2x6 strongbacks, and fastened to e nails. Strongback ends or restraine to not erect truss to n Strong-Tie THA4 tat 15-3-9 from th face of top chord. bles where hanger other connection ficient to support of 3-0 on top chord. tion device(s) is th CASE(S) section, are noted as front Standard or Live (balanced) ase=1.00	uss coni s paralle n formul / of bear for a mo lead loca along the with any on edge ach truss ks to be d by oth- packware 422 (Sing e left en- is in con device(s poncentra The des ne respo , loads a (F) or ba	actions. I to grain value a. Building ing surface. ving concentri- tited at all mid e Top Chord a to ther live load e, spaced at s with 3-10d attached to we er means. ds. gle Chord Gird to connect t htact with lum) shall be ated load(s) 1 gn/selection - nsibility of oth pplied to the 1 ck (B).	ated and ds. valls der) russ ber. 75 of iers. face		6	25	ORTH CA	ROLIN	
this desigr	10-20=0/666, 11-20= 12-18=-232/154, 13- 13-17=-67/255, 13-1 ed floor live loads have	6=-818/0, 14-16=0/9 been considered for	0/98, 01		35 (F), 46=-139 (I	F)				1. 11.11.11.11.11.11.11.11.11.11.11.11.1	A MARTINE AND A	0363	ER	unun.

November 21,2024

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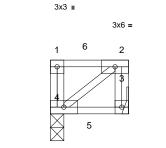
Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	FG2	Floor Girder	1	1	I69760072 Job Reference (optional)

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Thu Nov 21 09:16:37 ID:u9d3tDODDmNXL5emt4TjK9yHMYd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-0-



Special



0-0-1

3x6 =

3x3 II

Scale = 1:19.4

Loading (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO IRC2021/T	PI2014	CSI TC BC WB Matrix-P	0.68 0.41 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 n/a	(loc) 3-4 3-4 -	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 11 lb	GRIP 244/190 FT = 20%F, 12%E
1-5-7 oc purlins, exo BOT CHORD Rigid ceiling directly bracing.	applied or 10-0-0 oc nical, 4=0-3-0 C 10), 4=-166 (LC 10) C 5), 4=220 (LC 3) pression/Maximum	p lk 9) lr or o LOAI 1)	brovided suffi b up at 0-7- such connect n the LOAD of the truss a D CASE(S) Dead + Floo Plate Increa Uniform Loa Vert: 3-4=	or Live (balanced): se=1.00 uds (lb/ft) =-10, 1-2=-100 ud Loads (lb)	ncentra ne desi respor oads aj) or ba	ted load(s) 4 gn/selection nsibility of oth oplied to the ck (B).	of ners. face					

- Unbalanced floor live loads have been considered for 1)
- this design. 2)
- Bearings are assumed to be: Joint 4 SP No.2 . 3)
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 7) 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.



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0050 OWF
2411-0101-A	FG3	Floor Girder	1	1	I69760073 Job Reference (optional)

1-3-0

THA422

3x3 🛛

1-0-0

1-0-10

3x3 🛛

2-9-10

THA422

3x3 =

8

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Thu Nov 21 09:16:38 ID:u9d3tDODDmNXL5emt4TjK9yHMYd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2 7 1 3 6 3x6 = 3x6 =

Scale = 1:20.1												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.08	4-5	>363	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.09	4-5	>337	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2(flat) 2x4 SP SS(flat) 2x4 SP No.3(flat)		Concentrat	ads (lb/ft) =-10, 1-3=-100 ed Loads (lb) ·213 (F), 2=-183 (F)		· · · ·						

WEBS	2x4 SP N	o.3(flat)
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	2-9-10 oc	purlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	4= Mechanical, 5=0-3-0
	Max Grav	4=323 (LC 6), 5=437 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-5=-329	/0. 3-4=-262/20. 1-2=0/0. 2-3=0/0

-262/20, 1-2=0/0, 2-3=0/0 *э*/О, BOT CHORD 4-5=0/246 WEBS 2-5=-291/0, 2-4=-306/0

NOTES

1) Bearings are assumed to be: Joint 5 SP SS .

Refer to girder(s) for truss to truss connections. 2)

Provide mechanical connection (by others) of truss to 3)

- bearing plate at joint(s) 5. 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and
- Bottom Chord, nonconcurrent with any other live loads. Recommend 2x6 strongbacks, on edge, spaced at 5) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-4-0 oc max. starting at 0-3-15 from the left end to 1-7-15 to connect truss(es) to front 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

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

Vinnennen SEAL 036322 G 11111111 November 21,2024



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Job	Truss		Truss Type		Qty	Ply	The Farm	at Neills Cree	k Lot 00.0050 OW	F
2411-0101-A	FGE1		Floor Supported Ga	able	1	1	lah Dafar	nno (ontional	N N	169760074
Structural, LLC, Thurmo	_			Run: 8.83 S Nov 8		.830 S Nov 8		ence (optional ndustries, Inc. T		Page: 1
0-0-1	3x3 II 1 53 2 54 36 I 38 35 39 3x3 II			21-7-4 8 60 9 61 1 8 60 9 61						9 0-0-1 -0-0 -0-1 0
Scale = 1:41.7				21-5-12 21-5-12					21-7- 0-1-1	
Plate Offsets (X, Y):	[19:0-2-8,Edge) 								
L oading 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	BC		(LL) (TL)	in (loc) n/a - n/a - .00 19	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 85 lb	GRIP 244/190 FT = 20%F, 12%E
VEBS 2x4 3 DTHERS 2x4 3 BRACING TOP CHORD Struc 6-0- BOT CHORD Rigin brac REACTIONS (size) Max U Max C Max C FORCES (lb) - Tens TOP CHORD 1-36 2-3= 6-7= 10-1 14-1	SP No.2(flat) SP No.3(flat) SP No.3(flat) SP No.3(flat) stural wood she o cc purlins, ex 1 ceiling directly ng. 19=21-7-4 22=21-7-4 22=21-7-4 32=21-7-4 32=21-7-4 35=21-7-4 35=21-7-4 35=21-7-4 28=21-7-4 35=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 28=21-7-4 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28=21-7-4 28=21-7-4 28=21-7-4 2	eathing directly applied (cept end verticals. / applied or 6-0-0 oc 4, 20=21-7-4, 21=21-7 4, 23=21-7-4, 24=21-7 4, 26=21-7-4, 24=21-7 4, 29=21-7-4, 31=21-7 4, 33=21-7-4, 34=21-7 4, 33=21-7-4, 34=21-7 4, 33=21-7-4, 34=21-7 4, 36=21-7-4 C 18), 21=-11 (LC 51), 5(0), 28=-3 (LC 64), LC 68), 20=289 (LC 65) LC 68), 24=285 (LC 65) LC 64), 24=285 (LC 65) LC 64), 24=285 (LC 65) LC 54), 33=283 (LC 55) LC 54), 33=283 (LC 55) LC 54), 35=283 (LC 55) LC 54), 35=283 (LC 55) LC 54), 35=283 (LC 55) LC 54), 35=283 (LC 55) Sa, 8-9=-35/3, 5-6=-35/3, a, 4-5=-35/3, 5-6=-35/3, a, 4-5=-35/3, 16-17=-35/3, a=-35/3, 16-17=-35/3,	or WEBS -4, -4, NOTES -4, 1) All plates are indicated. 2) Gable requir 3) Truss to be 1 braced agair 4) Gable studs 7), 5) All bearings 5), 6) Bearing at jc using ANSI/ designer sho 3), 0ne H2.5A 3 7), recommend UPLIFT at jt 3), 24, 23, 22, a does not cor 8) This truss ha load of 250.0 panels and a Bottom Chor 3, 9) Recommend 10-00-00 oc (0.131" X 3" at their outer	35-36=-3/35, 34-35= 32-33=-3/35, 31-32= 28-29=-3/35, 27-28= 22-23=-3/35, 24-25= 22-23=-3/35, 24-25= 22-23=-3/35, 24-25= 22-23=-271/13, 3-34= 5-32=-272/10, 6-31= 8-28=-272/10, 13-2 14-23=-272/10, 13-2 14-23=-272/10, 15-2 16-21=-272/10, 15-20 16-21=-272/10, 15-20 16-21=-272/10, 15-	-3/35, 29-3 -3/35, 26-27 -3/35, 23-24 -3/35, 20-27 -273/10, 4-3 -272/10, 7-2 -272/10, 7-2 -272/10, 10 (a=-272/10, 10 (a=-273/10, 0 (a=-275/7) less otherwiddle and face or side of the second seco	I=-3/35, Y=-3/35, I=-3/35, I=-3/35, I=-3/35, I=-3/35, I=-3/35, I=-3/35, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, I=-272/10, 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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 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)

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ENGINEERING BY

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