

RE: 24052567 BCTH-29

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: TRUE HOMES RALEIGH Project Name: 24052567 Lot/Block: 29 Model: Lucas TH @ Address: 184 Camel Crazies Place City: Lillington

Model: Lucas TH @ Buies Creek Subdivision: BCTH State: NC

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

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf

Design Program: MiTek 20/20 8.7 Wind Speed: N/A mph Floor Load: 55.0 psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

	0.1"		D (
No.	Seal#	Truss Name	Date
1	165332716	F3	5/3/2024
2	165332717	F4	5/3/2024
3	165332718	L02	5/3/2024
4	165332719	F2	5/3/2024
5	165332720	F1	5/3/2024
6	165332721	L01	5/3/2024
7	165332722	L03	5/3/2024
8	165332723	F5	5/3/2024
9	165332724	F6	5/3/2024
10	165332725	F7	5/3/2024
11	165332726	F8	5/3/2024
12	165332727	F10	5/3/2024
13	165332728	L04	5/3/2024
14	165332729	F9	5/3/2024
15	165332730	L05	5/3/2024

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by The Building Center.

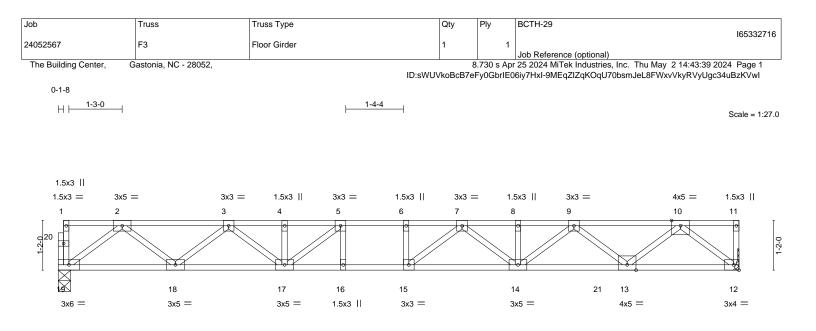
Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

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





			15-11-12 15-11-12			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.71 BC 0.88 WB 0.56 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 3 14-15 >818 360 2 14-15 >591 240 6 12 n/a n/a	PLATES MT20 Weight: 82 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.2(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	,) oc purlins,

REACTIONS. 19=0-3-8, 12=Mechanical (size) Max Grav 19=890(LC 1), 12=1112(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1859/0, 3-4=-3019/0, 4-5=-3019/0, 5-6=-3442/0, 6-7=-3442/0, 7-8=-3159/0, 8-9=-3159/0, 9-10=-2122/0

- BOT CHORD 18-19=0/1114, 17-18=0/2565, 16-17=0/3442, 15-16=0/3442, 14-15=0/3418, 13-14=0/2763, 12-13=0/1224
- 2-19=-1395/0, 2-18=0/970, 3-18=-919/0, 3-17=0/579, 5-17=-749/0, 10-12=-1562/0, 10-13=0/1169, 9-13=-835/0, WEBS 9-14=0/505, 7-14=-331/0, 7-15=-237/334

NOTES-

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

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

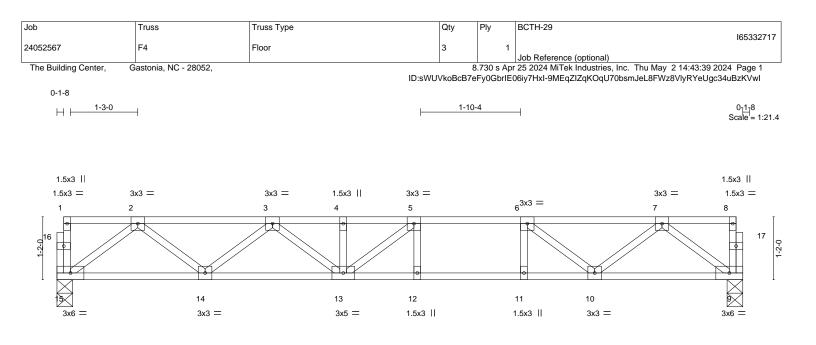
Vert: 19-21=-10, 12-21=-95(B=-85), 1-11=-100



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 Scietus Information**, and the from the Structure Building Component Advance interport of the property damage. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932



	12-8-12 12-8-12									
	(psf) 40.0 10.0 0.0 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.63 BC 0.82 WB 0.32 Matrix-S	Vert(LL) -0.1	in (loc) l/defl L/d 5 12-13 >999 360 0 12-13 >764 240 3 9 n/a n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%F, 11%E			
LUMBER- TOP CHORI BOT CHORI WEBS	D 2x4 SP	No.2(flat) No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied		•			

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Grav 15=680(LC 1), 9=680(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-1328/0, 3-4=-2022/0, 4-5=-2022/0, 5-6=-1935/0, 6-7=-1334/0

BOT CHORD 14-15=0/838, 13-14=0/1791, 12-13=0/1935, 11-12=0/1935, 10-11=0/1935, 9-10=0/817

WEBS 2-15=-1049/0, 2-14=0/638, 3-14=-603/0, 3-13=0/294, 5-13=-239/280, 7-9=-1022/0, 7-10=0/673, 6-10=-766/0

NOTES-

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

 Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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b	Truss	Truss Type		Qty	Ply	BCTH-29			
4052567	L02	GABLE		1	1	Job Referer	nce (optional)		l653327 ⁻
he Building Center,	Gastonia, NC - 28052,			ID:sWUVkoB		or 25 2024 Mi	Tek Industries, Inc. Th xvzCKbjdJC3_TJRRS		
0 ¹ 18									
									Scale = 1:1
1	2 3	4	5	6		7	8	9	3x3 10
0	• •	0	o	•		•	•	•	
	19 18	17	16	15		14	13	12	11
3x3 =									3x3

	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-12
LOAD TCLL TCDL		SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI. TC 0.08 BC 0.01	DEFL. Vert(LL) Vert(CT)	in (loc) n/a - n/a -	l/defl L/d n/a 999 n/a 999	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0	Rep Stress Incr Code IRC2015/7	YES	WB 0.03 Matrix-R	Horz(CT)	0.00 11	n/a n/a	Weight: 51 lb	FT = 20%F, 11%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 BOT CHORD

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

REACTIONS. All bearings 11-8-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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Job	Truss	Truss Type		Qty	Ply	BCTH-29		165332	2710
24052567	F2	Floor		5	1	1		105552	2/13
21002001	12			Ŭ		Job Reference (option	onal)		
The Building Ce	enter, Gastonia, NC - 280	052,					stries, Inc. Thu May 21		
				ID:sWUVkoBo	B7eFy0Gbr	IE06iy7HxI-hAgSMyYC	CZ4idWs0fCc76c1zqH5M	lBi4YLSyKXMlzKVw、	J
0-1-8									
1-3	3-0		1-2-1	2				0-1 ₇ 8	8
H								0-1-1 Scale = 1	1:26.2
	3x5 =	3x3 =	3x3 =	3x3	=	3x3 =	3>	<5 =	
1	2	3 4	5	6 7		8 9	10	D 11	
Ī 😡								•	I
28				H /		H A	\ //	× h	21
28									21 0 12
			Ц						-
	62		0					<u>\</u>	1
1.9	18	17	16	15		14	13	12	
3x6 =	3x5 =	3x5 =		3x3 =		3x5 =	3x5 =	3x6 =	

				15-11-12 15-11-12			
LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.51 BC 0.98 WB 0.44 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 2 14-15 >862 360 0 14-15 >623 240 6 12 n/a n/a	PLATES MT20 Weight: 83 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHOI BOT CHOI WEBS	RD 2x4 SF RD 2x4 SF	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, ,,,) oc purlins,

REACTIONS. (size) 19=0-3-8, 12=Mechanical Max Grav 19=859(LC 1), 12=859(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-1781/0, 3-4=-2873/0, 4-5=-2873/0, 5-6=-3224/0, 6-7=-3224/0, 7-8=-2886/0, 8-9=-2886/0, 9-10=-1779/0

BOT CHORD 18-19=0/1074, 17-18=0/2451, 16-17=0/3224, 15-16=0/3224, 14-15=0/3164, 13-14=0/2454, 12-13=0/1073

WEBS 2-19=-1344/0, 2-18=0/921, 3-18=-872/0, 3-17=0/538, 5-17=-650/0, 10-12=-1343/0, 10-13=0/919, 9-13=-879/0, 9-14=0/552, 7-14=-355/0, 7-15=-188/378

NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

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

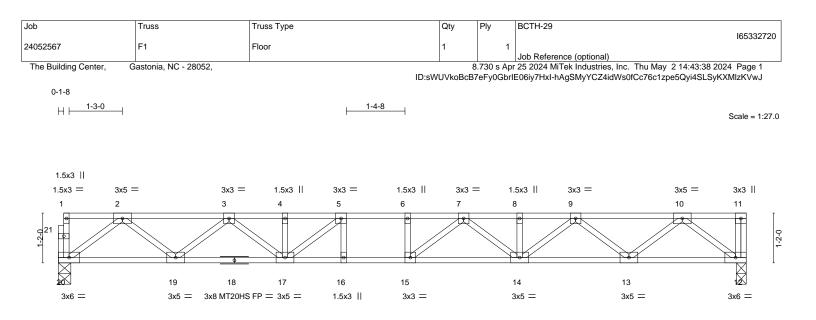
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



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	<u>5-4-8</u> 5-4-8		<u>16-1-8</u> 10-9-0										
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.55 BC 0.74 WB 0.44 Matrix-S	Vert(LL) -0.2	in (loc) l/defl 22 14-15 >880 30 14-15 >636 05 12 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 84 lb	GRIP 244/190 187/143 FT = 20%F, 11%E						
BOT CHORD 2x4 SF 12-18: WEBS 2x4 SF REACTIONS. (siz	, ,		BRACING- TOP CHORD BOT CHORD	except end vert	cals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,						
FORCES. (lb) - Max. TOP CHORD 2-3= 8-9= BOT CHORD 19-2 12-1 WEBS 2-20	Grav 20=867(LC 1), 12=873(LC 1) . Comp./Max. Ten All forces 250 (lb) o -1802/0, 3-4=-2910/0, 4-5=-2910/0, 5-6= -2926/0, 9-10=-1799/0 0=0/1084, 17-19=0/2481, 16-17=0/3282 13=0/1084 =-1358/0, 2-19=0/934, 3-19=-884/0, 3-1 =-892/0, 9-14=0/564, 7-14=-367/0, 7-15	=-3282/0, 6-7=-3282/0, 7-8 , 15-16=0/3282, 14-15=0/3 7=0/548, 10-12=-1360/0, f	3=-2926/0, 3214, 13-14=0/2484,										
	re loads have been considered for this d	esign.											

All plates are MT20 plates unless otherwise indicated.

3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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4052567 L01 The Building Center, Gastonia, NC - 2805	GABLE							10500070
The Building Center, Gastonia, NC - 2805	52		1	1	Job Reference (option			16533272
	<i>52</i> ,			.730 s Apr	25 2024 MiTek Industr E06iy7HxI-6ILaa5s?	ies, Inc. Thu Ma		
0-1-8								
								Scale = 1:26
								3x3
1 2 3	4 5	6 7	8	9	10	11	12	13
	<u>e</u>	<u>e</u>	0	•	<u> </u>	•	<u>e</u>	
27 26 25	24 23 2	2 21 20	19	18	17	16	15	14
3x3 =	3x6	3 FP =						3x3

F	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	-	1-4-0	1-4-0	1-5-8
	IG (psf)	SPACIN		2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d		PLATES	GRIP
TCLL TCDL	40.0 10.0	Plate Gri Lumber I		1.00 1.00	TC BC	0.08 0.01	Vert(LL) Vert(CT)	n/a - n/a -	n/a n/a	999 999		MT20	244/190
BCLL BCDL	0.0 5.0	Rep Stre	ess Incr C2015/TP	YES 12014	WB Matri	0.03 x-R	Horz(CT)	0.00 14	n/a	n/a		Weight: 68 lb	FT = 20%F, 11%E
				2011	man		PRACINC					Wolght. 00 lb	

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 16-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 27, 14, 26, 25, 24, 23, 21, 20, 19, 18, 17, 16, 15

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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ob	Truss		Truss Typ	e			Qty	F	Ply	BCTH-29					
									,					16	5332722
4052567	L03		GABLE				1		1						
											ence (option				
The Building Center,	Gastonia, NC	- 28052,											u May 2 14:43		
						ID:	sWUVko	BcB7e	eFy0Gbrl	E06iy7HxI	-axvzCKbjd	JC3_TJRRSE	32mt8bxjy2e_\	/wNZIIVWzK	WWF
														0	-1-8 H
														Sca	le = 1:29.
3x3							3x6 FP	=							
1 2	3	4	5	6	7	8	9	10	1	1	12	13	14	15 16	
 	0	0	0	0	0	0	ф	0		0	0	0	0	00	7

XXXXXXXXX

25

26

3x6 FP =

F	1-4-0 1-4-0	 2-8-0 1-4-0	4-0-0	5-4-0 1-4-0	-	6-8-0 1-4-0	8-0-0 1-4-0	 9-4-0 1-4-0		0-8-0 1-4-0		12-0-0 1-4-0	13-	-	14-8-0 1-4-0	<u> </u>	17-4-0 17-10-8 1-4-0 0-6-8
LOADIN TCLL	G (psf) 40.0		PACING- late Grip DOL	2-0-0 1.00		CS TC	0.08		DEFL. Vert(Ll)	in n/a	(loc)	l/defl n/a	L/d 999		PLATES MT20	GRIP 244/190
TCDL	10.0	Lu	umber DOL	1.00		BC	0.02		Vert(C	Ť)	n/a	-	n/a	999			21.0,100
BCLL BCDL	0.0 5.0		ep Stress Incr ode IRC2015/			WB Mat	0.03 rix-R		Horz(C	;1)	0.00	17	n/a	n/a		Weight: 76 lb	FT = 20%F, 11%E
LUMBE	R-				I			 1	BRAC	NG-							

1-2-0

32

3x3 ||

31

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat)

TOP CHORD BOT CHORD

23

22

24

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

20

19

21

REACTIONS. All bearings 17-10-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

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30

29

28 27

2) Gable requires continuous bottom chord bearing.

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



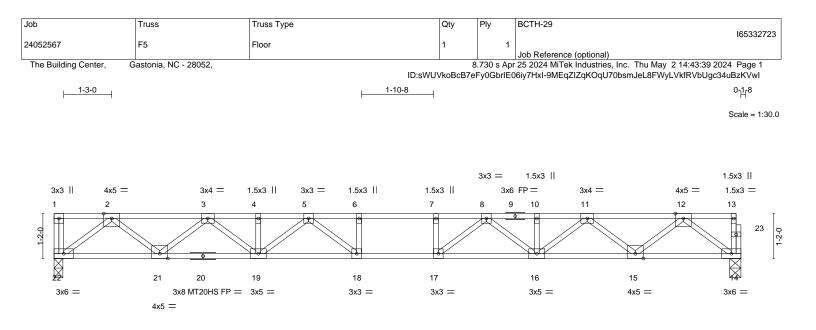
33

18 17

3x3 =

1-2-0

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)



	17-10-8								
			17-10-8						
LOADING(psf)TCLL40.0TCDL10.0BCLL0.0BCDL5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.68 BC 0.83 WB 0.52 Matrix-S	Vert(LL) -0.3	in (loc) 30 17-18 32 17-18 37 14	l/defl >696 >506 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 91 lb	GRIP 244/190 187/143 FT = 20%F, 11%E	
BOT CHORD 2x 14 WEBS 2x REACTIONS.	4 SP No.2(flat) 4 SP No.2(flat) *Except* -20: 2x4 SP No.1(flat) 4 SP No.3(flat) (size) 22=0-2-12, 14=0-3-8 ax Grav 22=969(LC 1), 14=963(LC 1)		BRACING- TOP CHORD BOT CHORD	except	end verti	icals.	rectly applied or 5-6-6 or 10-0-0 oc bracing.	oc purlins,	
TOP CHORD	Max. Comp./Max. Ten All forces 250 (lb) o -32042/0, 3-43400/0, 4-53400/0, 5-6- -10=-3400/0, 10-11=-3400/0, 11-12=-2041/ 21-22=0/1211, 19-21=0/2838, 18-19=0/3808 14-15=0/1210 -22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 5 2-14=-1516/0, 12-15=0/1082, 11-15=-1038 7-17=-285/0, 6-18=-285/0	=-4057/0, 6-7=-4057/0, 7-{ 0 1, 17-18=0/4057, 16-17=0/ 3-19=0/717, 5-19=-522/0,	8=-4057/0, /3809, 15-16=0/2838, 5-18=-73/638,						

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

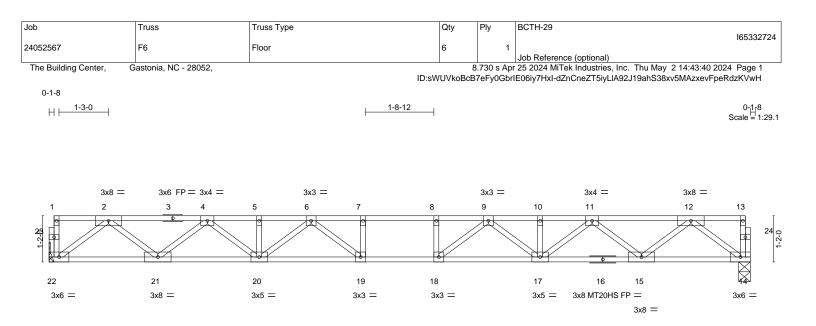
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED 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)



L	17-8-12					
	17-8-12		1			
LOADING (psf) SPACING- 2-0-0 TCLL 40.0 Plate Grip DOL 1.00 TCDL 10.0 Lumber DOL 1.00 BCLL 0.0 Rep Stress Incr YES BCDL 5.0 Code IRC2015/TPl2014	TC 0.62 Vert(LL) -0.29	n (loc) I/defl L/d 18-19 >713 360 18-19 >519 240 14 n/a n/a	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 90 lb FT = 20%F, 11%E			
LUMBER- BRACING- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) *Except* 14-16: 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) REACTIONS. (size) 22=Mechanical, 14=0-3-8 Max Grav 22=955(LC 1), 14=955(LC 1)						
14-15=0/1200	=-3993/0, 7 ⁻ 8=-3993/0, 8-9=-3993/0, /0 0, 18-19=0/3993, 17-18=0/3760, 15-17=0/2809, 4-20=0/704, 12-14=-1502/0, 12-15=0/1070,					

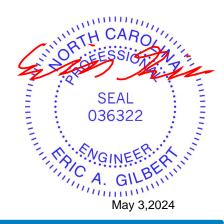
NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 1.5x3 MT20 unless otherwise indicated.

4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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)



	T	T		05	Dha	BCTH-29			
Job	Truss	Truss Type		Qty	Ply	BCTH-29			165332725
24052567	F7	Floor		1	1				
The Building Center,	Gastonia, NC - 2805				8 730 c Ar	Job Reference	e (optional) k Industries, Inc. Th	May 2 14:43:40 3	2024 Page 1
The building Center,	Gastonia, NG - 2000	σΖ,		ID:sWUVkoE			InCneZT5iyLIA92J19		
0-1-8									
H <u>1-3-0</u>			0-8-8 1-3	3-4					0- <mark>1</mark> -8
									Scale [□] 1:29.8
					3x3 =				
4x5	5 = 3×	4 =	3x3 = 3x3 =		3	x6 FP=	3x4 =	4x5 =	
1 2	3	4	5 6 7	8	9	10 11	12	13	14
				•					
245					// ``	$\gg \parallel$ $>$			26 0-24
								1	
		<u>*</u>					l.	•	
24	23 2	22 21	20 19	18		17	16	i	15
3x6 =	4x5 = 3x8 MT	20HS FP $=$	3x5 =	3x3 =		3x5 =	4x	5 =	3x6 =
		3x5 =							
			0.0.4						
L	8-0		8-9-4 8-8-8 9-0-10 0-8-8 0-3-6				8-1-4		
	8-0)-0	0-8-8 0-3-6 0-0-12			g	9-0-10		
			5 5 12						

		0	-0-12				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.56 BC 0.87 WB 0.52 Matrix-S	DEFL. ir Vert(LL) -0.32 Vert(CT) -0.45 Horz(CT) 0.07	2 19 >659 5 19 >480	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 95 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 SP 15-22:	2 No.2(flat) 2 No.2(flat) *Except* 2x4 SP No.1(flat) 2x6 SP No.1(flat) 2x6 SP No.3(flat) 24=0-5-8, 15=0-3-8	·	BRACING- TOP CHORD BOT CHORD	except end vertic	als.	rectly applied or 5-8-1 or 10-0-0 oc bracing.	oc purlins,
Max G FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- BOT CHORD 23-22 16-1 WEBS 2-24=	7, 24=976(LC 1), 15=976(LC 1) Comp./Max. Ten All forces 250 (lb) o 2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6= 4164/0, 9-11=-3460/0, 11-12=-3460/0, I=0/1227, 21-23=0/2885, 20-21=0/3892 7=0/2884, 15-16=0/1227 =-1536/0, 2-23=0/1102, 3-23=-1057/0, 3 5=-1537/0, 13-16=0/1102, 12-16=-1055/	-4136/0, 6-7=-4136/0, 7-8 12-13=-2073/0 , 19-20=0/4164, 18-19=0/4 -21=0/735, 5-21=-551/0, 5	=-4164/0, 164, 17-18=0/3891, -20=0/372,				

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.3) All plates are 1.5x3 MT20 unless otherwise indicated.

7-20=-458/324

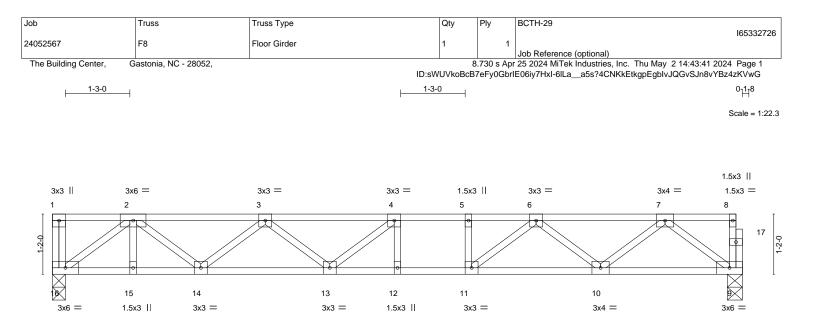
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



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)





		1	13-4-8 13-4-8	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.61	Vert(LL) -0.13 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.18 12-13 >864 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.03 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb FT = 20%F, 11%
LUMBER-			BRACING-	
TOP CHORD 2x4 SP	No.2(flat)		TOP CHORD Structural wood sheathing di	rectly applied or 6-0-0 oc purlins,

BOT CHORD

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-0, 9=0-3-8 Max Grav 16=989(LC 1), 9=749(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1799/0, 3-4=-2391/0, 4-5=-2418/0, 5-6=-2418/0, 6-7=-1491/0

BOT CHORD 15-16=0/1284, 14-15=0/1284, 13-14=0/2273, 12-13=0/2418, 11-12=0/2418, 10-11=0/2050, 9-10=0/926

WEBS 2-16=-1586/0, 2-14=0/658, 3-14=-616/0, 7-9=-1159/0, 7-10=0/735, 6-10=-728/0, 6-11=0/623

NOTES-

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

3) CAUTION, Do not erect truss backwards.

4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 381 lb down at 1-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

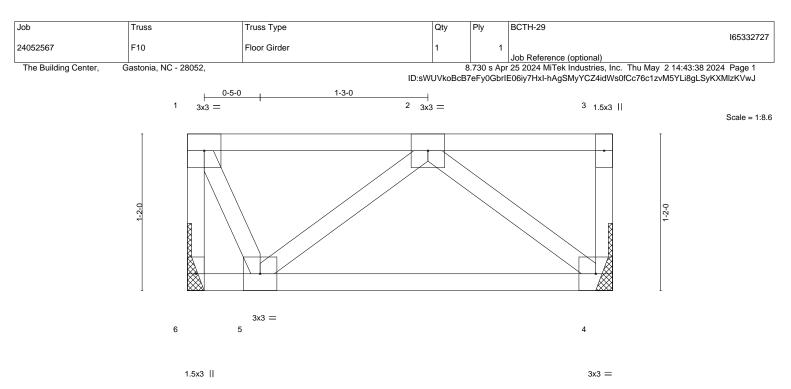
Vert: 9-16=-10, 1-8=-100

Concentrated Loads (lb)

Vert: 2=-301(B)



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			3-2-0 3-2-0									
TCDL	40.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI. TC BC	0.18 0.20	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.01	(loc) 5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/TF	NO PI2014	WB Matrix	0.17 ĸ-P	Horz(CT)	0.00	4	n/a	n/a	Weight: 18 lb	FT = 20%F, 11%E

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 6=Mechanical, 4=Mechanical (size) Max Grav 6=401(LC 1), 4=475(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-404/0

BOT CHORD 4-5=0/525 2-4=-670/0, 2-5=-484/0, 1-5=0/366

NOTES-

WEBS

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 541 lb down at 1-10-4 on top

chord. The design/selection of such connection device(s) is the responsibility of others.

4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 4-6=-10. 1-3=-100 Concentrated Loads (lb)

Vert: 2=-541(F)



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Job	Truss	Truss Type		Q	ty	Ply	BCTH-2	29				105000	700
24052567	L04	GABLE		1		1						165332	.728
		ONDEL					Job Re	ference	(optional)				
The Building Center,	Gastonia, NC - 28052,						or 25 2024	4 MiTek	Industries,		y 214:43:42		
				ID:sWU\	koBcB7	eFy0Gb	rIE06iy7H	lxl-axvzC	CKbjdJC3_	_TJRRSB2mt8	8bqjyve_uwN	ZIIVWzKVwF	
0 ¹ 18													
												0	
												Scale = 1	:18.4
												3x3	
1	2 3	4	5		6		7	7		8	9	9 10	
					0					0			I
	Ĥ Ĥ		F	-	Ĥ			Ĥ		-		ĤН	
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7													1-2-0
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			**********			******	******	******	*******				
19	18 17	16	15		14		1	13		12		11	
3x3 =												3x6 =	
1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	1	8-0	0-0	1	9-4-0	1	10-8-0	11-1-8	
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	i	1-4	4-0	1	1-4-0		1-4-0	0-5-8	
LOADING (psf)	SPACING-	2-0-0 <b>CSI</b> .		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP		
TCLL 40.0		1.00 TC	0.09	Vert(LL)	n/a	(100)	n/a	999		MT20	244/1	90	
TCDL 10.0	Lumber DOL	1.00 BC	0.03	Vert(CT)	n/a	-	n/a	999			, .		
							,	,					

LUMBER-
---------

BCLL

BCDL

 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)

0.0

5.0

BRACING-TOP CHORD BOT CHORD

Horz(CT)

0.00

11

n/a

n/a

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

Weight: 49 lb

FT = 20%F, 11%E

**REACTIONS.** All bearings 11-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 17, 16, 15, 14, 13, 12

YES

WB

Matrix-R

0.03

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Rep Stress Incr

Code IRC2015/TPI2014

#### NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

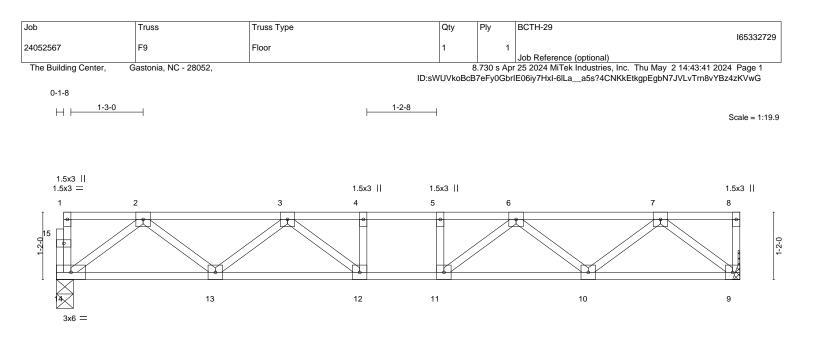
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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			11-10-0 11-10-0			
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	<b>CSI.</b> TC 0.28 BC 0.50 WB 0.28	<b>DEFL.</b> i Vert(LL) -0.07 Vert(CT) -0.09 Horz(CT) 0.02	9 12 >999 240	PLATES MT20	<b>GRIP</b> 244/190
BOT CHORD 2x4 S	P No.2(flat) P No.2(flat) P No.3(flat) P No.3(flat)	Matrix-S	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FT = 20%F, 11%E

(size)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

14=0-3-8, 9=Mechanical

Max Grav 14=634(LC 1), 9=641(LC 1)

TOP CHORD 2-3=-1217/0, 3-4=-1769/0, 4-5=-1769/0, 5-6=-1769/0, 6-7=-1195/0

BOT CHORD 13-14=0/779, 12-13=0/1619, 11-12=0/1769, 10-11=0/1606, 9-10=0/750

2-14=-975/0, 2-13=0/570, 3-13=-523/0, 3-12=-24/370, 7-9=-958/0, 7-10=0/580, 6-10=-535/0, 6-11=-13/381 WEBS

#### NOTES-

REACTIONS.

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

2) All plates are 3x3 MT20 unless otherwise indicated.

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

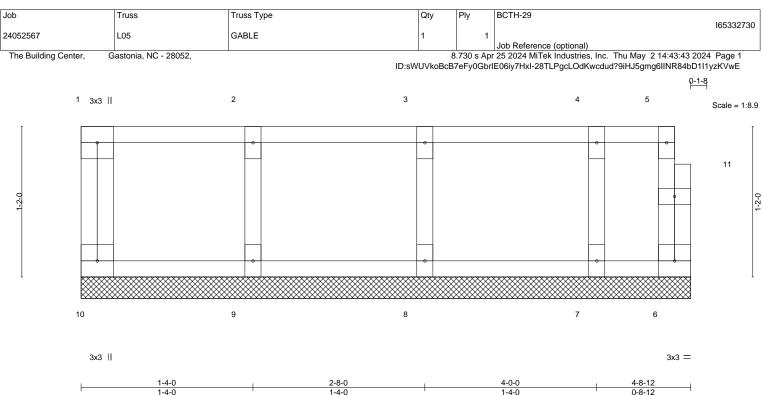
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED 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 Scietus Information**, and the from the Structure Building Component Advance interport of the property damage. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



		1-4-0			1-4-0	1	1-4-0				0-8-12	
LOADING	· · ·	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matri	x-R						Weight: 23 lb	FT = 20%F, 11%E

2x4 SP No.2(flat)
2x4 SP No.2(flat)
2x4 SP No.3(flat)
2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-8-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-8-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

## NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



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