

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24095463F BCTH-23

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center (Gastonia, NC).

Pages or sheets covered by this seal: I68238454 thru I68238465

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

North Carolina COA: C-0844



September 17,2024

Gilbert, Eric

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

Job	Truss	Truss Type		Qty	Ply	BCTH-23		100000454
24095463F	L3	Floor Supported Gable		1	1	Job Reference (optional)		168238454
The Building Center,	Gastonia, NC - 28052,		ID:zSBV			30 2024 MiTek Industries, I X6hyeAY4-g5Ty4D5oh_cV		
0 ₁₁ 8								
								Scale = 1:17.9
1	2 3	4	5	6		7	8	9 10
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								-2-0
÷								
20	19 18	17	16	1	5	14	13	12 11
3x3 =								

				11-1-8 11-1-8					
LOADING (ps: TCLL 40.1 TCDL 10.1 BCLL 0.1 BCDL 10.1	.0 .0 .0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	Vert(CT)	in (loc) n/a - n/a - .00 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 48 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP 2x4 SP	No.2(flat) No.2(flat) No.3(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	irectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,

REACTIONS. All bearings 11-1-8.

(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.

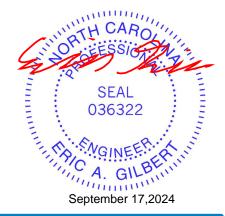
2) Gable requires continuous bottom chord bearing.

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.



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)

lob	Truss	Truss Type		Qty F	Ply E	BCTH-23		100000455
24095463F	L2	Floor Supported Gable		1	1 J	ob Reference (optional)	168238455
The Building Center,	Gastonia, NC - 28052,		ID		20 s Aug 30	2024 MiTek Industries 6hyeAY4-g5Ty4D5oh_0	, Inc. Mon Sep 16 10	
0 ₁ 18								
								Scale = 1:18.9
1 2	3	4	5	6		7	8	9 10
•	• •	•	•	•		•	•	•
21				H				
	• •	•	•	•		•	•	• •
20 19	18	17	16	15		14	13	12 11
3x3 =								
3x3 —								

			11-8-12 11-8-12			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	'a - n/a 999	PLATES MT20 Weight: 49 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 WEBS 2x4	SP No.2(flat) SP No.2(flat) SP No.3(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	,) oc purlins,

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	Trus	s			Truss Ty	ре					Q	ty	Ply	В	SCTH-23							100	238456
24095463F	L1				Floor Su	pported	Gable				1		1	1								108	230450
														Jc	b Refere	ence (o	ptional)						
The Building Center,	Gaston	ia, NC	- 2805	62,					I	D:zSBW	/3Sup3		320 s Aug JyRsYeX										
0-11-8											·			,			0			·		0-1-	
																						Scale	= 1:57.0
							276	FP=					3x6 FF										
1 2 3	4	5	6	7	8 9	10		12 13	14	15	16	17			21	22	23	24	25	26	27	2829	
														8									60 G
58 57 56	55	54	53	52	51 50 49	48	47	46	45	44 4	<u>×××××</u> 3 42	41	40	39	38	37	36	35	34	33	32	31 30	
3x3 =			20		3x6 FP =			.0	.0		FP =				50		20	20		20		3x3	_

			34-0-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL. i Vert(LL) n/: Vert(CT) n/: Horz(CT) 0.00	a - n/a	L/d PLATES GRIP 999 MT20 244/19 n/a Weight: 140 lb FT =	90 - 20%F, 11%E
BOT CHORD 2x4 SI	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	except end vertica	heathing directly applied or 6-0-0 oc purlin als. tly applied or 10-0-0 oc bracing.	S,

34-0-0

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

REACTIONS. All bearings 34-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

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).

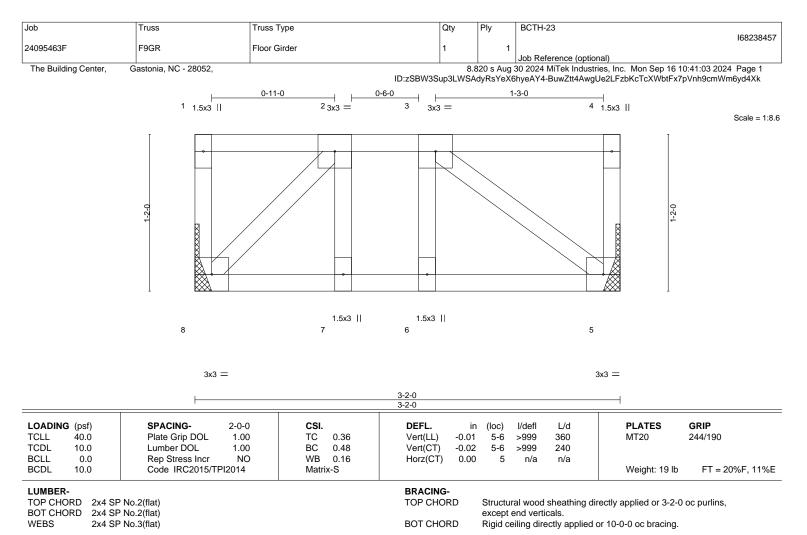
4) Gable studs spaced at 1-4-0 oc.

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.



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REACTIONS. (size) 8=Mechanical, 5=Mechanical

Max Grav 8=453(LC 1), 5=511(LC 1)

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

TOP CHORD 2-3=-491/0

BOT CHORD 7-8=0/491, 6-7=0/491, 5-6=0/491 WEBS 3-5=-616/0, 2-8=-694/0

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 644 lb down at 1-10-4 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)

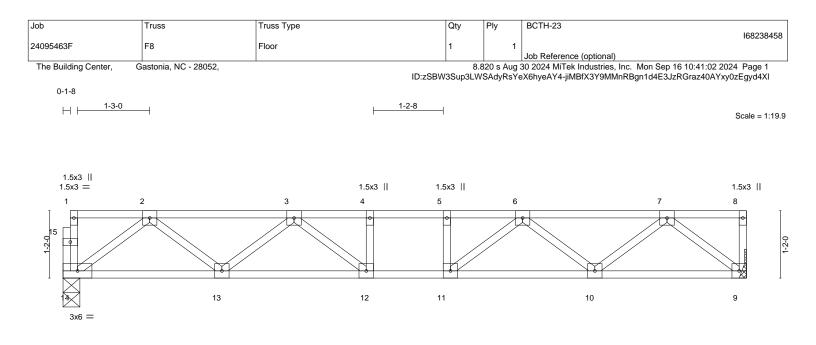
Vert: 5-8=-20, 1-4=-100 Concentrated Loads (lb) Vert: 3=-599(F)



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A MiTek Affiliat 818 Soundside Road

Edenton, NC 27932



	2-9-0 2-9-0			11-10-0 2-7-8			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.00 1.00 YES TPI2014	CSI. TC 0.29 BC 0.54 WB 0.31 Matrix-S	DEFL. ii Vert(LL) -0.07 Vert(CT) -0.10 Horz(CT) 0.03) 12 >999 240	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.2(flat) P No.2(flat) P No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	, ,,,) oc purlins,

REACTIONS. (size) 14=0-3-8, 9=Mechanical

Max Grav 14=693(LC 1), 9=699(LC 1)

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

TOP CHORD 2-3=-1338/0, 3-4=-1931/0, 4-5=-1931/0, 5-6=-1931/0, 6-7=-1314/0

BOT CHORD 13-14=0/842, 12-13=0/1760, 11-12=0/1931, 10-11=0/1746, 9-10=0/811

WEBS 7-9=-1035/0, 2-14=-1054/0, 7-10=0/655, 2-13=0/645, 6-10=-563/0, 3-13=-550/0, 6-11=0/411, 3-12=0/398

NOTES-

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.



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Edenton, NC 27932

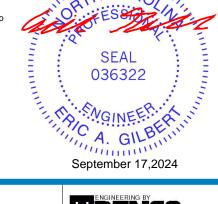
Job	Truss	Truss Type		Qty	Ply	BCTH-23	168238459
24095463F	F7GR	Floor Girder		1	1	Job Reference (optional)	100230435
The Building Center,	Gastonia, NC - 28052	, I		8.8	20 s Aug	30 2024 MiTek Industries, Inc. Mon Sep 16 10	:41:02 2024 Page 1
				ID:zSBW3Sup3LW	/SAdyRs\	/eX6hyeAY4-jiMBfX3Y9MMnRBgn1d4E3JzKrr	Zq4zdYxy0zEgyd4XI
0-1-8							
H ⊢ <u>1-3-0</u>	\neg	1-3-0				0-7-4	Scale = 1:30.7
							00010 - 1.00.1
4.5-20.11							
1.5x3 1.5x3 =		1.5x3	1.5x3		3x6	= 4x4 = 1.5x3	1.5x3
	2 3	4 5	6 7	3x6 FP =	3x6 · 9	- 4x4 - 1.5x3 10 11 12 1	
T G	2 3	4 5			9		
0-26							1-2-0
					Φ.		
	24	23 22	21	20	19	Received a second s	
3x6 =		1.5x3	3x5 =	3x5 =	3x6	FP = 3x10 = 1.5x3	

2-9-0		<u>10-7-8</u> 5-4-8		13-3-0		<u> 18-1-4</u> 4-10-4	
	[11:0-1-8,Edge]	040		210		4 10 4	
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 NO	CSI. TC 0.76 BC 0.61 WB 0.47	DEFL. in Vert(LL) -0.07 Vert(CT) -0.11 Horz(CT) 0.02	23 >9 23 >9	99 360	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S				Weight: 95 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	except end	verticals.	ectly applied or 6-0-0 or 6-0-0 oc bracing.) oc purlins,
Max U	e) 25=0-3-8, 15=4-11-12, 18=4-11-12 plift 15=-125(LC 1), 17=-824(LC 1) rav 25=666(LC 1), 18=2334(LC 1), 16=	, ,					
TOP CHORD 2-3⇒	Comp./Max. Ten All forces 250 (lb) o 1274/0, 3-4=-1786/0, 4-5=-1786/0, 5-6= =0/1937, 10-11=0/1937, 11-12=0/694, 1	-1499/0, 6-7=-1499/0, 7-9					
BOT CHORD 24-25	5=0/808, 23-24=0/1664, 22-23=0/1786, 3=-694/0, 16-17=-694/0		074, 18-20=-331/0,				
WEBS 2-25= 3-23=	,034/0, 10-17034/0 1011/0, 9-182014/0, 2-24=0/607, 9- 5/340, 7-21=0/542, 13-15=0/315, 11-1 458/0						
2) All plates are 3x3 M	e loads have been considered for this d T20 unless otherwise indicated. connection (by others) of truss to beari		nding 125 lb uplift at join	t 15 and 824	lb uplift		
4) Recommend 2x6 str Strongbacks to be a	ongbacks, on edge, spaced at 10-0-0 of tached to walls at their outer ends or re		uss with 3-10d (0.131" X	3") nails.		TH C	ARO
chord. The design/s	rect truss backwards. connection device(s) shall be provided s selection of such connection device(s) is S) section. loads applied to the face of t	the responsibility of other	S.	∕n at 11-11-`	12 on top	OHIES	De al

7) 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: 15-25=-20, 1-14=-100

Concentrated Loads (lb) Vert: 9=-411(B)



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Job	Truss	Truss Type			Qty	Ply	BCTH-23			160000400
24095463F	F6	Floor			2	1				168238460
							Job Reference (10.10.11.01.00	
The Building Center, 0	Gastonia, NC - 28052,			ID:zSBW3				dustries, Inc. Mon Sep 2vO3Ewp15aTwZ?X6Q		
0-1-8					·		, i	·	0	
H ⊢ 1-3-0			0-10-	4						0- <u>1-</u> 8 Scale = 1:29.8
						3x3 =				
4x5 =	3x4 =	3x3 =		3x3 =		3x6	6 FP =	3x4 =	4x5 =	
1 2	3	4 5	6	7		8 9	9 10	11	12	13
24	*		•							25 o
411					\searrow					
				9	<u>∎</u> ¶					
	22 21	20	19	18	17		16	15		
3x6 =	4x5 = 3x8 MT20HS FP =	:	3x3 =		3x3 =		3x6 =	4x5 =		3x6 =
		3x6 =								

		1	18-1-4		1		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc) l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.87	Vert(LL) -0.33	3 17-18 >650	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 1.00	Vert(CT) -0.49	9 17-18 >435	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.08	3 14 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S				Weight: 94 lb	FT = 20%F, 11%E
UMBER-		1	BRACING-				
TOP CHORD 2x4 S	P No.2(flat)		TOP CHORD	Structural wood s	heathing direct	ctly applied or 2-2-0	oc purlins,
BOT CHORD 2x4 S	P No.2(flat) *Except*			except end vertic	als.		
14-21	: 2x4 SP No.1(flat)		BOT CHORD	Rigid ceiling direct	ctly applied or	10-0-0 oc bracing,	Except:
WEBS 2x4 S	P No.3(flat)			2-2-0 oc bracing:	18-19.17-18.		-

18-1-4

REACTIONS. (size) 23=0-3-8, 14=0-3-8 Max Grav 23=1065(LC 1), 14=1065(LC 1)

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

2-3=-2272/0, 3-4=-3776/0, 4-5=-3776/0, 5-6=-4556/0, 6-7=-4556/0, 7-8=-4461/0, TOP CHORD

2-3=-2272/0, 3-4=-3770/0, 1-12=-2271/0 8-10=-3770/0, 10-11=-3770/0, 11-12=-2271/0

	8-10=-3770/0, 10-11=-3770/0, 11-12=-2271/0
BOT CHORD	22-23=0/1331, 20-22=0/3140, 19-20=0/4244, 18-19=0/4556, 17-18=0/4556, 16-17=0/4277,
	15-16=0/3143, 14-15=0/1330
WEBS	12-14=-1666/0, 2-23=-1667/0, 12-15=0/1226, 2-22=0/1225, 11-15=-1135/0,
	3-22=-1129/0. 11-16=0/800. 3-20=0/812. 8-16=-648/0. 5-20=-598/0. 8-17=0/395.

2, 8-16=-648/0, 5-20=-598/0, 8-17=0/395, 5-19=-14/627, 7-17=-389/181

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

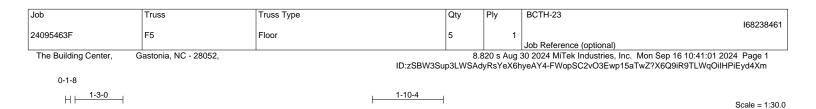
3) All plates are 1.5x3 MT20 unless otherwise indicated.

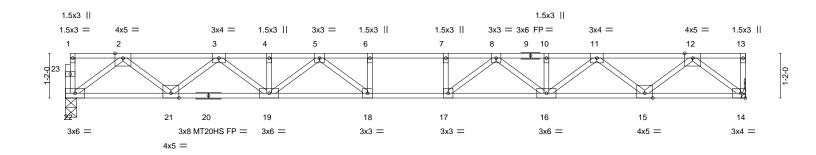
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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H	2-9-0			<u>9-11-12</u> 4-8-12		12-7-4		<u>15-1-4</u> 2-6-0		-8-12 -7-8
TCDL BCLL			2-0-0 1.00 1.00 YES	CSI. TC 0.73 BC 0.87 WB 0.57 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 17-18 -0.45 17-18 0.08 14	>705 >471	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 89 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
LUMBER- FOP CHOR BOT CHOR WEBS	D 2x4 SP 14-20:2	No.2(flat) No.2(flat) *Except* 2x4 SP No.1(flat) No.3(flat)			BRACING- TOP CHOR BOT CHOR	D Structu except	end vertical	ls.	ctly applied or 5-1-1 10-0-0 oc bracing.	0 oc purlins,
REACTION	S. (size	e) 22=0-3-8, 14=Mechani rav 22=1046(LC 1), 14=10								
FORCES. TOP CHOR BOT CHOR	D 2-3=-2 8-10= D 21-22	Comp./Max. Ten All force 2223/0, 3-4=-3688/0, 4-5=- -3662/0, 10-11=-3662/0, 1 =0/1305, 19-21=0/3073, 18	3688/0, 5-6=-4 1-12=-2179/0	4386/0, 6-7=-4386/0, 7-8	3=-4386/0,	37,				
WEBS		5=0/1253 L1600/0_2-221635/0_1	2-15-0/1205	2-21-0/1105 11-15-11	17/0					

WEBS	12-14=-1600/0, 2-22=-1635/0, 12-15=0/1205, 2-21=0/1195, 11-15=-1117/0,
	3-21=-1105/0, 11-16=0/798, 3-19=0/786, 8-16=-564/0, 5-19=-551/0, 8-17=-30/675,
	5-18=-44/661, 6-18=-279/0, 7-17=-285/0

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

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

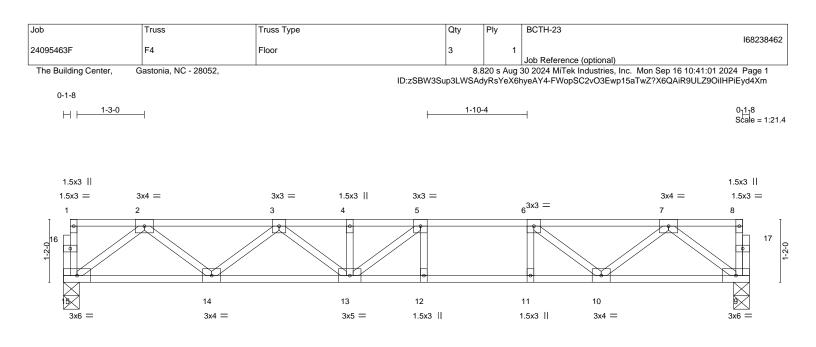
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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

5) CAUTION, Do not erect truss backwards.



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	6-7-8 6-7-8		8-8-12 2-1-4				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.66 BC 0.87 WB 0.36 Matrix-S	Vert(LL) -0.15	n (loc) l/defl 5 12-13 >999 I 12-13 >703 3 9 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.2(flat) P No.1(flat) P No.3(flat)	BRACING- TOP CHORD BOT CHORD	except end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,	
REACTIONS. (siz	e) 15=0-3-8, 9=0-3-8						

Max Grav 15=743(LC 1), 9=743(LC 1)

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

TOP CHORD 2-3=-1458/0, 3-4=-2208/0, 4-5=-2208/0, 5-6=-2109/0, 6-7=-1464/0

 BOT CHORD
 14-15=0/906, 13-14=0/1048, 12-13=0/2109, 11-12=0/2109, 10-11=0/2109, 9-10=0/883

 WEBS
 7-9=-1104/0, 2-15=-1135/0, 7-10=0/757, 2-14=0/718, 6-10=-824/0, 3-14=-638/0, 3-13=0/332, 5-13=-225/294, 6-11=0/252

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.



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Job	Truss	Truss Type	Qty	Ply	BCTH-23	
24095463F	F3GR	Floor Girder	1	1		168238463
The Building Center,	Gastonia, NC - 28052,					Inc. Mon Sep 16 10:41:00 2024 Page 1
0-1-8			ID:zSBW3Sup3LW	SAdyRsYeX	6hyeAY4-nJEREs2Hdl63E	BtWOwC2m_uu161t4c1VFTeXs9nyd4Xn
⊣	1	1-4	-4			Scale = 1:27.
						00010 - 1.27.
1.5x3 1.5x3 = 4	<5	= 1.5x3 3x3 =	1.5x3 3x3	= 1.	5x3	4x6 = 1.5x3
1 2		4 5	6 7	8		10 11
				\backslash		
				L	-	
1291 3x6 =	18 4x5 =	17 16 3x5 = 1.5x3	15 3x3 =		4 x5 =	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
2-9	0 5-3-0	1	10-10-4		13-4-4	15-11-12
2-9 Plate Offsets (X,Y)	0 2-6-0 [12:Edge,0-1-8]		5-7-4		2-6-0	2-7-8
LOADING (psf)	SPACING- 2-0			in (loc)	l/defl L/d	PLATES GRIP
TCLL 40.0 TCDL 10.0		00 TC 0.59 00 BC 0.63		7 14-15 4 14-15	>999 360 >554 240	MT20 244/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr N Code IRC2015/TPI201	VO WB 0.64 4 Matrix-S	Horz(CT) 0.0	6 12	n/a n/a	Weight: 82 lb FT = 20%F, 11%E
LUMBER-			BRACING-			
	DSS(flat) DSS(flat)		TOP CHORD		al wood sheathing direct and verticals.	tly applied or 6-0-0 oc purlins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid ce	iling directly applied or 1	10-0-0 oc bracing.
	e) 19=0-3-8, 12=Mechanical rav 19=1044(LC 1), 12=1865(LC 1)				
FORCES. (Ib) - Max.	Comp./Max. Ten All forces 2	50 (lb) or less except when showr	۱.			
	2222/0, 3-4=-3648/0, 4-5=-364 4184/0, 9-10=-3056/0	18/0, 5-6=-4266/0, 6-7=-4266/0, 7-	8=-4184/0,			
	=0/1303, 17-18=0/3062, 16-1 3=0/2134	7=0/4266, 15-16=0/4266, 14-15=0/	/4385, 13-14=0/3924,			
WEBS 10-12	=-2725/0, 2-19=-1632/0, 10-1	3=0/1200, 2-18=0/1196, 9-13=-112 7/0, 5-17=-993/0, 7-15=-423/152	29/0, 3-18=-1094/0,			
NOTES-		,				
1) Unbalanced floor live	e loads have been considered truss to truss connections.	for this design.				
	4, 5, 6 has/have been modifie	d. Building designer must review I	oads to verify that they	are correct	for the	
4) Recommend 2x6 str	ongbacks, on edge, spaced at	10-0-0 oc and fastened to each trends or restrained by other means.		X 3") nails.		
5) CAUTION, Do not e	ect truss backwards.					NICH CAPOUL
,	, , , , , , , , , , , , , , , , , , , ,	face of the truss are noted as fror				CR FESSION A
, , ,	alanced): Lumber Increase=1.	00, Plate Increase=1.00			G	Sin Man
	20, 1-21=-100, 11-21=-420(F					SEAL =
Uniform Loads (plf)	ase=1.00, Plate Increase=1.00					036322
3) 1st chase Dead + FI	20, 1-21=-100, 11-21=-420(F por Live (unbalanced): Lumbe	=-320) r Increase=1.00, Plate Increase=1.	.00		1111 CONTRACTOR OF STREET	\/ ₹
	=-20, 1-6=-100, 6-21=-20, 11-2				in the	NGINEER ON N
 2nd chase Dead + F Uniform Loads (plf) 	loor Live (unbalanced): Lumbe	er Increase=1.00, Plate Increase=1	.00			A GILDIN
u /	-20, 1-5=-20, 5-21=-100, 11-2	1=-420(F=-320)				September 17 2024
						September 17,2024

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818 Soundside Road Edenton, NC 27932

EN

Job	Truss	Truss Type	Qty	Ply	BCTH-23			
24095463F	F3GR	Floor Girder	1	1	168238463			
210001001					Job Reference (optional)			
The Building Center, G	Gastonia, NC - 28052,		8.8	20 s Aug	30 2024 MiTek Industries, Inc. Mon Sep 16 10:41:00 2024 Page 2			
		ID:zSBW3Sup3LWSAdyRsYeX6hyeAY4-nJEREs2Hdl63BtWOwC2m_uu161t4c1VFTeXs9nyd4Xn						

LOAD CASE(S) Standard

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 12-19=-20, 1-6=-100, 6-21=-20, 11-21=-340(F=-320)

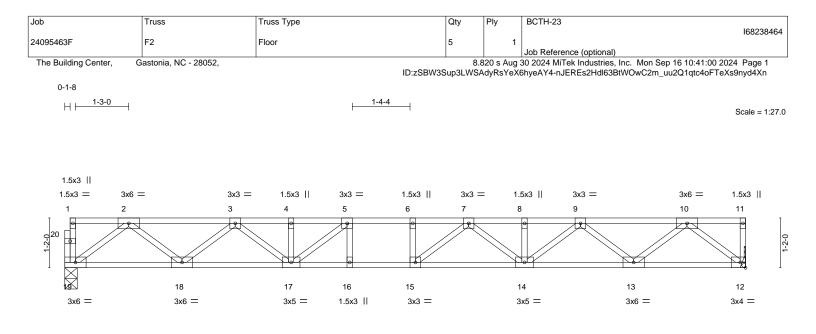
Vert: 12-19=-20, 1-6=-100, 6-21=-20, 11-21=-340(F=-320 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 12-19=-20, 1-5=-20, 5-21=-100, 11-21=-420(F=-320)

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2-9		<u>5-3-0</u> 2-6-0		<u>10-10-4</u> 5-7-4		13-4-4 2-6-0		<u>1-12</u> 7-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACIN Plate Gri Lumber Rep Stre Code IR	p DOL 1.00 DOL 1.00	CSI. TC 0.57 BC 0.77 WB 0.50 Matrix-S	Vert(LL) -0.21	n (loc) l/defl 1 14-15 >903 2 14-15 >595 6 12 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 82 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	except end verti	cals.	ctly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,	

REACTIONS. (size) 19=0-3-8, 12=Mechanical

Max Grav 19=941(LC 1), 12=947(LC 1)

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

TOP CHORD 2-3=-1963/0, 3-4=-3153/0, 4-5=-3153/0, 5-6=-3545/0, 6-7=-3545/0, 7-8=-3152/0, 8-9=-3152/0, 9-10=-1921/0

BOT CHORD

18-19=0/1168, 17-18=0/2682, 16-17=0/3545, 15-16=0/3545, 14-15=0/3460, 13-14=0/2657, 12-13=0/1121 10-12=-1431/0, 2-19=-1463/0, 10-13=0/1041, 2-18=0/1034, 9-13=-958/0, 3-18=-936/0, 9-14=0/631, 3-17=0/601, 7-14=-394/0, 5-17=-711/0, 7-15=-159/412

NOTES-

WEBS

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.



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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-23		
24095463F	F1	Floor	1	1			168238465
The Building Center,	Gastonia, NC - 28052,		8.8	20 s Aug	Job Reference (optiona 30 2024 MiTek Industries		:41:00 2024 Page 1
-					6hyeAY4-nJEREs2Hdl63		
0-1-8 ∦⊨ <mark>1-3-0</mark>	1-6-0				2-0-0		0-1-8
H							0-1-8 Scale = 1:56.6
3x4 = $1 2$ 41 $3x6 = 3x4$	3 4 5 6 7 39 38 37	8 9 10 11	3x3 4x6 = 4x5 = 12 13 14	15 30 4x6 =	x5 = 56 6 17 18 29 28 4x4 = 3x3 = 56		3x6 = 23 24 43 26 26 25 x6 = 3x6 =
2-9-0 2-9-0 Plate Offsets (X,Y) LOADING (psf) TCDL 40.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	5-3-0 6-7-8 8-4-8 19-7-8 2-6-0 1-4-8 1-9-0 1-3-0 [29:0-1-8,Edge], [37:0-1-8,Edge] 9-7-8 9-7-8 SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 1.00 Rep Stress Incr YES Code IRC2015/TPI2014 1 1 1 1		Vert(LL) -0.23	(loc) 27-28 27-28 25		8-9-0 31-3-0 -7-8 2-6-0 PLATES MT20 Weight: 172 lb	<u>34-0-0</u> 2-9-0 GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP 10-20: BOT CHORD 2x4 SP 25-31: WEBS 2x4 SP	 No.2(flat) *Except* 2x4 SP DSS(flat) No.2(flat) *Except* 2x4 SP DSS(flat) No.3(flat) a) 41=0-3-8, 33=0-5-8, 25=0-3- 		BRACING- TOP CHORD BOT CHORD	except e	al wood sheathing direct and verticals. iling directly applied or	tly applied or 6-0-0	
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- 14-15 19-21 BOT CHORD 40-41 34-36 28-25 WEBS 2-41= 3-39 23-26 19-2 6-37= NOTES- 1) Unbalanced floor liv 2) All plates are 1.5x3 3) Recommend 2x6 str	irav 41=804(LC 3), 33=2454(LC Comp./Max. Ten All forces 250 -1615/0, 3-4=-2498/0, 4-5=-2498/ -1683/489, 9-11=-78/1262, 11-12 5=-2103/370, 15-16=-2103/370, 1 1=-3082/0, 21-22=-3082/0, 22-23 1=0/988, 39-40=0/2175, 38-39=0/ 5=-860/992, 33-34=-1961/0, 32-3 9=0/3328, 27-28=0/3348, 26-27=1 =-1237/0, 11-33=-1829/0, 2-40=0 =0/413, 9-36=0/1003, 5-39=-144/ 65=0/1000, 13-32=0/1521, 22-26=: -7=-339/53, 16-30=-908/0, 19-28= =-350/0, 7-37=0/880 e loads have been considered for MT20 unless otherwise indicated rongbacks, on edge, spaced at 10 trached to walls at their outer end rect truss backwards.	 (b) or less except when shown 0, 5-6=-2575/0, 6-7=-2575/0, 70/3418, 12-13=0/3418, 13-14=6-17=-3328/0, 17-18=-3328/0, 17-18=-3328/0, 12-1908/0 2575, 37-38=0/2575, 36-37=-20 3=-1856/0, 30-32=-764/1298, 25/2619, 25-26=0/1140 817, 11-34=0/1388, 3-40=-728/125, 7-36=-774/0, 23-25=-1428/925/0, 14-32=-1428/0, 22-27=0-491/147, 16-29=0/1164, 17-29 this design. -0-0 oc and fastened to each tr 	8=-1683/489, -278/1186, 18-19=-3328/0, 00/2189, 0-30=-57/2726, 0, 9-34=-1302/0, 0, 13-33=-1960/0, /591, 14-30=0/1133, =-498/0,	3") nails.	(Within	OR DESS	ROUNT



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RENCO

