

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24095459F BCTH-19

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: I68234834 thru I68234845

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-19 24095459F L3 Floor Supported Gable 1 1 1 Job Reference (optional) The Building Center, Gastonia, NC - 28052, Gastonia, NC - 28052, 8.820 s Aug 30 2024 MITek Industries, Inc. Mon Sep 16 09:21:58 2024 Page 1 ID:zSBW3Sup3LWSAdyRsYeX6hyeAY4-2ZUhw7G1MQkB?6??ROn1FPUnIWaAYW7G2trxjeyd5ht 0118
24095459F L3 Floor Supported Gable 1 1 Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.820 s Aug 30 2024 MiTek Industries, Inc. Mon Sep 16 09:21:58 2024 Page 1 ID:zSBW3Sup3LWSAdyRsYeX6hyeAY4-2ZUhw7G1MQkB?6??ROn1FPUnIWaAYW7G2trxjeyd5ht 0118 1 2 3 4 5 6 7 8 9 10 Image: Comparison of the state of t
Image: Conterned and Conter
The Building Center, Gastonia, NC - 28052, 8.820 s Aug 30 2024 MiTek Industries, Inc. Mon Sep 16 09:21:58 2024 Page 1 ID:zSBW3Sup3LWSAdyRsYeX6hyeAY4-2ZUhw7G1MQkB?6??ROn1FPUnIWaAYW7G2trxjeyd5ht 0118 Scale = 1:1 1 2 3 4 5 6 7 8 9 10 0 <t< td=""></t<>
ID:zSBW3Sup3LWSAdyRsYeX6hyeAY4-2ZUhw7G1MQkB?6??ROn1FPUnlWaAYW7G2trxjeyd5ht 0H3 Scale = 1:1
0118 Scale = 1:1
Scale = 1:1
Scale = 1:1
20 19 18 17 16 15 14 13 12 11
3x3 =

			<u>11-1-8</u> 11-1-8			
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	Vert(LL) n	in (loc) l/defl L/d /a - n/a 999 /a - n/a 999 /0 11 n/a n/a	PLATES MT20 Weight: 48 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)	1	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c) oc purlins,

OTHERS 2x4 SP No.3(flat) Rigid ceiling directly applied or 10-0-0 oc bracing

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. (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.

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 **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **PCB Building Component Scietur Information**. Building from the Structure Building Component Advance interpretented and the properties of th and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type		Qty	Ply	BCTH-19			
24095459F	L2	Floor Supported Gable		1	1				168234835
						Job Reference (optional)		
The Building Center,	Gastonia, NC - 28052,						dustries, Inc. Mon S		
			ID:25BW3	Substra	Adykste	(onyeAr4-alwy)	nFPb7bKOyQpthGojl	вхс26Ехр4и/рЕ50	JBCyashu
0 ₁₁ 8									
									Scale = 1:18.9
			_			_			10
1 2	3	4	5	6		7	8	9	10
•	•	•	•	•		•	•	•	•
21	H H			H					
21									1-2-0
÷									~
				H			H	-	H
				~~~~	*******				
						**********			
20 1	9 18	17	16	15		14	13	12	11
a.a —									
3x3 =									

				11-8-12 11-8-12			
LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 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) 0.0	'a - n/a 999	PLATES MT20 Weight: 49 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHOF BOT CHOF 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 dir except end verticals. Rigid ceiling directly applied c	•	

OTHERS 2x4 SP No.3(flat) 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	5			Truss Ty	pe					Q	ty	Ply	E	BCTH-19							100	0.4000
24095459F	L1				Floor Su	pported	Gable				1		1	1	lob Refer	ence (o	otional)					1682	234836
The Building Center,	Gastoni	a, NC	- 2805	2,						ID:zS	BW3Si		820 s Aug SAdyRsY	g 30	) 2024 M	Tek Inc	lustries	Inc. M					
0- <u>1</u> -8																						0-1-	В
																						Scale	= 1:57.0
							3x6	FP =					3x6 FF	P =									
1 2 3	4	5	6	7	8 9	10	11 1	12 13	14	15	16	17	18 19	20	21	22	23	24	25	26	27	2829	
																							60 G-C-L
58 57 56	55	54	53	52	51 50 49	48	47	46	45	44 43	3 42	41	40	39	38	37	36	35	34	33	32	31 30	
3x3 =					3x6 FP =					3x6	FP =											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. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	-	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 140 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S	P No.2(flat)		BRACING- TOP CHORD		iral wood end vert	0	rectly applied or 6-0-0	

BOT CHORD

34-0-0

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

### 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. (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.

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).

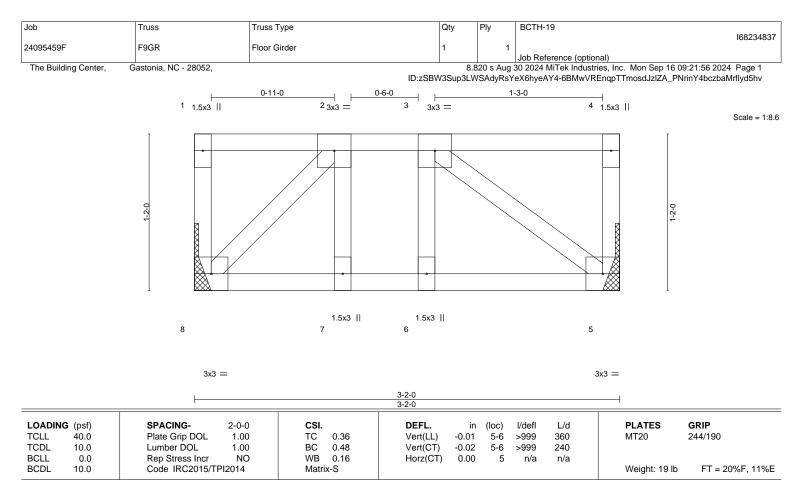
4) Gable studs spaced at 1-4-0 oc.

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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### LUMBER-

 TOP CHORD
 2x4 SP No.2(flat)

 BOT CHORD
 2x4 SP No.2(flat)

 WEBS
 2x4 SP No.3(flat)

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

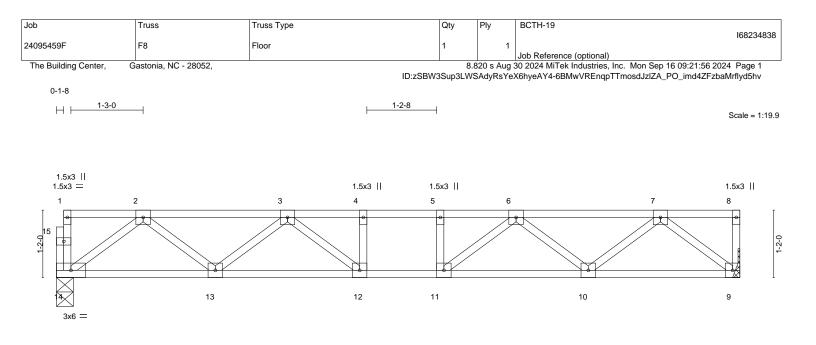
Concentrated Loads (lb) Vert: 3=-599(F)



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A MiTek Affilia 818 Soundside Road

Edenton, NC 27932



	2-9-0 2-9-0			9-2-8 6-5-8	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 IRC2015/7	2-0-0 1.00 1.00 YES IPI2014	CSI. TC 0.29 BC 0.54 WB 0.31 Matrix-S	DEFL. i Vert(LL) -0.0' Vert(CT) -0.1( Horz(CT) 0.0:	) 12 >999 240	PLATES MT20 Weight: 60 lb	<b>GRIP</b> 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 of 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.

# SEAL 036322 September 17,2024

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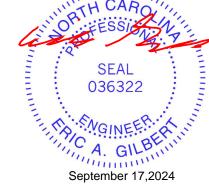
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-19		168234839
24095459F	F7GR	Floor Girder	1	1	Job Reference (	antional)	
The Building Center,	Gastonia, NC - 28052,				30 2024 MiTek In	dustries, Inc. Mon Sep 16 0	
0-1-8			ID:28BW38up3Lv	VSAdyRsi	rexonyeAr4-6BM	wVREnqpTTmosdJzIZA_PH	IZIIU4WIZDAMITIYd5hV
H <u>1-3-0</u>		1-3-0				0-7-4	
111		1				1 1	Scale = 1:30.7
1.5x3							
1.5x3 =		1.5x3    1.5x3		3x6		4x4 = 1.5x3	1.5x3
1 2	3	4 5 6	7 8	9	10	11 12 ·	13 14
926 7 7							1-2-0
				<b>ن</b>			
<del>25</del> ⊐ 3x6 =	24	23 22 21 1.5x3    3x5 =	20 = 3x5 =	19 2×6	FP = 3x10 =	1.5x3	xxxxxxxxxx
3x0 —		1.585    - 585 -		370	1F 3x10	1.585 []	
2-9-0	5-3-0	10-7-8		13-3		18-1-4	
Plate Offsets (X,Y) [	2-6-0 11:0-1-8,Edge]	5-4-8		2-7-	-8 '	4-10-4	
LOADING (psf)	SPACING- 2-	0-0 <b>CSI</b> .	DEFL. ir	n (loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1	.00 TC 0.76	Vert(LL) -0.07	23	>999 360	MT20	244/190
TCDL 10.0 BCLL 0.0	Rep Stress Incr	.00 BC 0.61 NO WB 0.47	Vert(CT) -0.11 Horz(CT) 0.02		>999 240 n/a n/a		
BCDL 10.0	Code IRC2015/TPI20	I4 Matrix-S				Weight: 95 lb	FT = 20%F, 11%E
			BRACING-	Christen			
	No.2(flat) No.2(flat)		TOP CHORD		end verticals.	ng directly applied or 6-0-0	oc puriins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid ce	eiling directly app	lied or 6-0-0 oc bracing.	
		B=4-11-12, 16=4-11-12, 17=4-11-1	2				
	lift 15=-125(LC 1), 17=-824( av 25=666(LC 1), 18=2334(I						
FORCES (Ib) - May (	Comp /Max Ten - All forces	250 (lb) or less except when show	'n				
TOP CHORD 2-3=-1	274/0, 3-4=-1786/0, 4-5=-17	86/0, 5-6=-1499/0, 6-7=-1499/0, 7					
	0/1937, 10-11=0/1937, 11-12 =0/808, 23-24=0/1664, 22-23	=0/694, 12-13=0/694 =0/1786, 21-22=0/1786, 20-21=0/	1074, 18-20=-331/0,				
17-18	=-694/0, 16-17=-694/0						
3-23=	5/340, 7-21=0/542, 13-15=0	:0/607, 9-20=0/951, 3-24=-508/0, /315, 11-18=-1534/0, 13-16=-571/					
5-21=	-458/0						
NOTES-	loads have been considered	for this design					
2) All plates are 3x3 MT	20 unless otherwise indicate	d.					
<ol> <li>Provide mechanical of 15=125, 17=824.</li> </ol>	connection (by others) of trus	s to bearing plate capable of withs	tanding 100 lb uplift at joir	nt(s) exce	ept (jt=lb)		
4) Recommend 2x6 stro		t 10-0-0 oc and fastened to each		3") nails		mm	111111
5) CAUTION, Do not er	ect truss backwards.	ends or restrained by other means				""ATH C	ARO
		rovided sufficient to support conce evice(s) is the responsibility of oth		wn at 11	-11-12 on top	IN OF FES	SIGN
		a face of the truce are noted as fre				( A C	1 A.Y

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-19			
		_								68234840
24095459F	F6	Floor			2	1	lah Dafamana (a	- 4: 1)		
The Building Center, 0	astonia, NC - 28052,				0.0		Job Reference (op	ustries, Inc. Mon Sep 1	6 00.21.55 2024	
The Building Center,	basionia, NC - 26052,							3VLc8eHQmGEKdms4		
				ID.2300330	IDSEMONO	укатело	IyeA14-e_0115D6	3VLCOERQINGERUIII54		Jubriw
0-1-8										
⊣ ⊢ 1-3-0			0-10-	4						0-1 ₇ 8
									Sc	0-1-8 ale = 1:29.8
						3x3 =				
4x5 =	3x4 =	3x3 =		3x3 =		3x6	FP =	3x4 =	4x5 =	
1 2	3	4 5	6	7		89	10	11	12	13
			0				•			•
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							$\parallel$ $//$			25 Q V V
			$\mathbf{M}$		$\mathcal{M}$				$\sim$	₩ [~
				Θ					```	
23	22 21	20	19	18	17		16	15		44
3x6 =	4x5 = 3x8 MT20HS FP =		3x3 =	:	3x3 =		3x6 =	4x5 =	3	x6 =
		3x6 =								

			18-1-4 18-1-4				
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 0.87 BC 1.00 WB 0.58 Matrix-S	Vert(LL) -0.33	(loc) l/defl 17-18 >650 17-18 >435 14 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 94 lb	<b>GRIP</b> 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 SI 14-21:	P No.2(flat) P No.2(flat) *Except* 2x4 SP No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	except end vert	icals. ectly applied	irectly applied or 2-2-0 or 10-0-0 oc bracing, 8.	, ,
· ·	ze) 23=0-3-8, 14=0-3-8 Grav 23=1065(LC 1), 14=1065(LC 1)						
TOP CHORD         2-3=           8-10           BOT CHORD         22-2	. Comp./Max. Ten All forces 250 (lb) c -2272/0, 3-4=-3776/0, 4-5=-3776/0, 5-6 =-3770/0, 10-11=-3770/0, 11-12=-2271 3=0/1331, 20-22=0/3140, 19-20=0/4244 (6=0/3143, 14-15=0/1330	=-4556/0, 6-7=-4556/0, 7- ′0	8=-4461/0,				

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, 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.

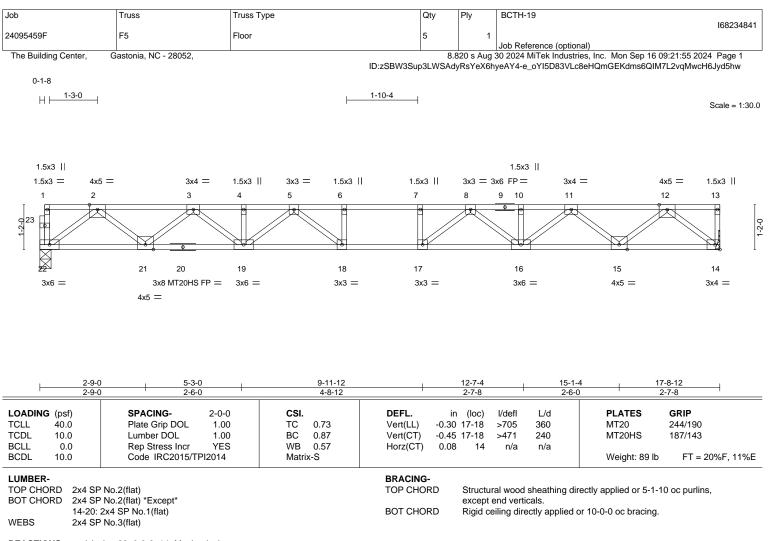
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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



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REACTIONS. (size) 22=0-3-8, 14=Mechanical Max Grav 22=1046(LC 1), 14=1052(LC 1)

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

   TOP CHORD
   2-3=-2223/0, 3-4=-3688/0, 4-5=-3688/0, 5-6=-4386/0, 6-7=-4386/0, 7-8=-4386/0,
- 8-10=-3662/0, 10-11=-3662/0, 11-12=-2179/0 BOT CHORD 21-22=0/1305, 19-21=0/3073, 18-19=0/4120, 17-18=0/4386, 16-17=0/4104, 15-16=0/3037, 14-15=0/1253 WFBS 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.

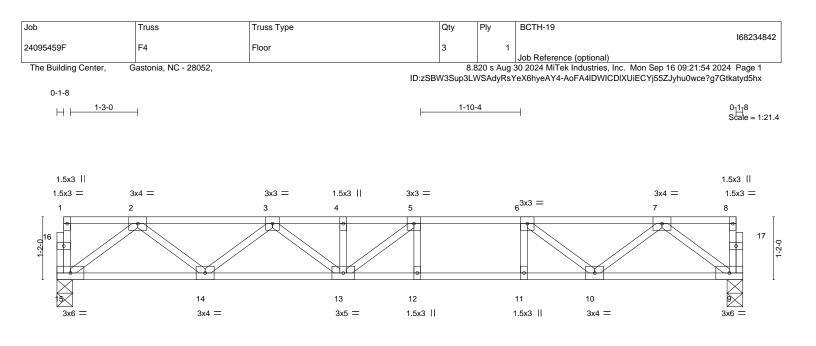
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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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	<u> </u>		8-8-		<u>12-8-12</u> 4-0-0	
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 0.66 BC 0.87 WB 0.36 Matrix-S	Vert(LL) -0.15	n (loc) I/defl L/d 5 12-13 >999 360 I 12-13 >703 240 3 9 n/a n/a	PLATES MT20 Weight: 65 lb	<b>GRIP</b> 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	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	, ,,,	oc purlins,
REACTIONS. (siz Max G	e)					

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=0/1948, 12-13=0/2109, 11-12=0/2109, 10-11=0/2109, 9-10=0/883
  - 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-

WEBS

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

Job	Truss	Truss Type	Qty	Ply	BCTH-19		168234843
24095459F	F3GR	Floor Girder	1	1	Joh Deference (option		106234643
The Building Center,	Gastonia, NC - 28052,					es, Inc. Mon Sep 16 09:	
0-1-8			ID:zSBW3Sup3	LWSAdyR	sYeX6hyeAY4-AoFA4ID	WICDIXUiECYj55ZJzqu	4lc2bg/Gtkatyd5hx
⊢		1-4-4	ł				
							Scale = 1:27.0
1.5x3							
	5 = 3x4 =		5x3    3x3 =		.5x3    3x3 =	4x6 =	
	3	4 5 6	7		8 9 21	10	11
				$\searrow$			1-2-0
	d		-				<b>74</b> , I
149⊠ 3x6 =	18 4x5 =		5 3x3 =		14 3x5 =	13 4x5 =	12 4x8 =
5x0 —	423 —	3.5 - 1.5.5 11	5x5 —		5x5 —	483 —	440 —
2-9-0	2-6-0	<u> </u>			13-4-4 2-6-0	15-11- 2-7-8	
Plate Offsets (X,Y) ['	12:Edge,0-1-8]						
LOADING (psf) TCLL 40.0	SPACING- 2-0- Plate Grip DOL 1.0			n (loc) 7 14-15	l/defl L/d >999 360		<b>GRIP</b> 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.0 Rep Stress Incr NO	BC 0.63	Vert(CT) -0.34	14-15	>554 240 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.06	) 12	11/a 11/a	Weight: 82 lb	FT = 20%F, 11%E
LUMBER-			BRACING-				
TOP CHORD 2x4 SP I BOT CHORD 2x4 SP I			TOP CHORD		ral wood sheathing dire end verticals.	ectly applied or 6-0-0 o	c purlins,
WEBS 2x4 SP I			BOT CHORD		eiling directly applied o	r 10-0-0 oc bracing.	
	19=0-3-8, 12=Mechanical						
Max Gra	av 19=1044(LC 1), 12=1865(L	C 1)					
	•	0 (lb) or less except when shown. /0, 5-6=-4266/0, 6-7=-4266/0, 7-8=-418	4/0				
8-9=-4	184/0, 9-10=-3056/0						
	=0/1303, 17-18=0/3062, 16-17= =0/2134	0/4266, 15-16=0/4266, 14-15=0/4385,	13-14=0/3924,				
		€0/1200, 2-18=0/1196, 9-13=-1129/0, 3 0, 5-17=-993/0, 7-15=-423/152	-18=-1094/0,				
NOTES-	. ,						
1) Unbalanced floor live	loads have been considered for	r this design.					
, , ,	russ to truss connections. 4, 5, 6 has/have been modified	. Building designer must review loads to	o verify that they a	re correct	for the		
intended use of this tr 4) Recommend 2x6 stro		0-0-0 oc and fastened to each truss wi	th 3-10d (0 131" ¥	(3") naile			
		ds or restrained by other means		, nans.			

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

5) CAUTION, Do not erect truss backwards.

6) 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: 12-19=-20, 1-21=-100, 11-21=-420(F=-320)

2) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

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

3) 1st chase Dead + Floor Live (unbalanced): 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)

4) 2nd chase Dead + Floor Live (unbalanced): 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)

# Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	BCTH-19		
					168234843		
24095459F	F3GR	Floor Girder	1	1			
					Job Reference (optional)		
The Building Center,	Gastonia, NC - 28052,		8	820 s Aug	30 2024 MiTek Industries, Inc. Mon Sep 16 09:21:54 2024 Page 2		
		ID:zSBW3Sup3LWSAdyRsYeX6hyeAY4-AoFA4IDWICDIXUiECYj55ZJzqu4lcZbg7Gtkatyd5hx					

## 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) 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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Job	Truss	Truss Type		Qty	Ply	BCTH-19		16823484	4
24095459F	F2	Floor		5	1			10020404	
The Building Center, G	astonia, NC - 28052,		ID:zSB		320 s Aug 3		Inc. Mon Sep 16 09:21:54 DIXUiECYj55ZJ_8u1Yccug		
0-1-8					,			, ,	
⊣ ⊢ 1-3-0			1-4-4					Scale = 1:27	7.0
1.5x3									
1.5x3 = 3x6 =	= 3x3 =	1.5x3    3	x3 = 1.5x3	3x3 =	= 1.5	5x3	3x6 =	1.5x3	
1 2	3	4	5 6	7	8	9	10	11	
				2					1-2-0
	18	17	16 15		1	4	13	12	
3x6 =	3x6 =	3x5 = 1.	5x3    3x3 =		3	x5 =	3x6 =	3x4 =	

2-9		<u> </u>	13-4-4 2-6-0	<u>15-11-12</u> 2-7-8
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.         DEFL.         in (           TC         0.57         Vert(LL)         -0.21         14           BC         0.77         Vert(CT)         -0.32         14           WB         0.50         Horz(CT)         0.06           Matrix-S         Horz(CT)         0.06		PLATES MT20         GRIP 244/190           Weight: 82 lb         FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.2(flat) P No.1(flat) P No.3(flat)	ех	tructural wood sheathing directly a xcept end verticals.	
REACTIONS. (siz Max C	e) 19=0-3-8, 12=Mechanical srav 19=941(LC 1), 12=947(LC 1)			

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

WEBS 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-

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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ob	Truss	Truss Type		Qty	Ply	BCTH-19			10000 10
4095459F	F1	Floor		1	1				16823484
The Building Center,	Gastonia, NC - 28052,			8.8	 820 s Aug	Job Reference ( 30 2024 MiTek In		Mon Sep 16 0	9:21:53 2024 Page 1
			ID:zSBV	W3Sup3LV	VSAdyRs	eX6hyeAY4-hchc	tPCuXu5uvK7	72erCsYMnl?V	ekt53Xvc7B2Ryd5hy
0-1-8	1-6-0					2-0-0			0-1-8
-3-0	1-6-0					2-0-0	-1		Scale = 1:56
3x4 = $1 2$ $41$ $3x6 = 3x$	3x3 = 3x3 = 3 4 5 6 3 4 5 6 3 9 38 37 4 = 3x5 = 3x4	4x6 $3x5 = 3x6 = 3x6 FP =$ 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 11 7 8 9 10 7 8 9 10 7 8 9 10 7 8 9 10 7 8 9 10 7 8 9 10 7 8 9	= 3x3    4x6 = 12 13 12 13 33 3	4x5 = 14 2 31 6 = 3x6 FP	15 30 4x6 =	x5 = 16 17 29 4x4 =	3x3 = 18 19 20 19 20 28	27	3x6 = 23  24 26  25 3x6 =  3x6 =
<u>2-9-0</u> 2-9-0 Plate Offsets (X,Y) OADING (psf) CLL 40.0 CDL 10.0 3CLL 0.0	[29:0-1-8,Edge], [37:0-1-8,E SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	<u>-3-0 1-4-8 2-6-0 2-7- (dge)</u> 2-0-0 <b>CSI.</b> 1.00 TC 0.79 1.00 BC 1.00 YES WB 0.72		) -0.23 ) -0.34	(loc) 8 27-28 9 27-28 5 25	26-1-8 4-10-8 //defi L/d >915 360 >622 240 n/a n/a		+ 31-3-0 2-6-0 PLATES MT20	<u>34-0-0</u> 2-9-0 GRIP 244/190
BCDL 10.0	Code IRC2015/TPI2	014 Matrix-S		·			V	Veight: 172 lb	FT = 20%F, 11%
10-20 BOT CHORD 2x4 \$ 25-3	SP No.2(flat) *Except* ): 2x4 SP DSS(flat) SP No.2(flat) *Except* I: 2x4 SP DSS(flat) SP No.3(flat)		BRACIN TOP CH BOT CH	IORD	except	ral wood sheathir end verticals. iling directly app		-	oc purlins,
(	ize) 41=0-3-8, 33=0-5-8, 25 Grav 41=804(LC 3), 33=2454								
TOP CHORD 2-3 8-9 14- 19- BOT CHORD 40- 34-	=-1615/0, 3-4=-2498/0, 4-5=-2 =-1683/489, 9-11=-78/1262, 1 15=-2103/370, 15-16=-2103/3 21=-3082/0, 21-22=-3082/0, 2 41=0/988, 39-40=0/2175, 38 36=-860/992, 33-34=-1961/0, 29=0/3328, 27-28=0/3348, 26 1=-1237/0, 11-33=-1829/0, 2-	39=0/2575, 37-38=0/2575, 36-37 32-33=-1856/0, 30-32=-764/129/ -27=0/2619, 25-26=0/1140 40=0/817, 11-34=0/1388, 3-40=- 144/425, 7-36=-774/0, 23-25=-1-	0, 7-8=-1683/489, -14=-278/1186, 3/0, 18-19=-3328/0, '=-200/2189, 8, 29-30=-57/2726, 728/0, 9-34=-1302/0 428/0, 13-33=-1960	)/0,					
WEBS 2-4 3-3 23- 19	26=0/1000, 13-32=0/1521, 22 -27=-339/53, 16-30=-908/0, 19 7=-350/0, 7-37=0/880	9-28=-491/147, 16-29=0/1164, 17	7-29=-498/0,						



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