

Trenco 818 Soundside Rd Edenton, NC 27932

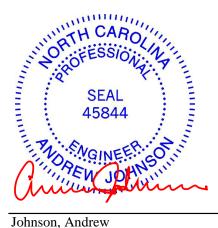
Re: 24021007 BCTH-44

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.

Pages or sheets covered by this seal: I63996952 thru I63996966

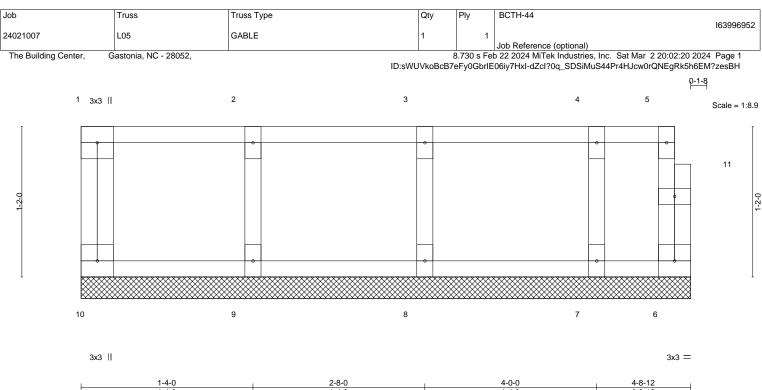
My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



March 4,2024

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.



	<u>1-4-0</u> <u>1-4-0</u>	<u>2-8-0</u> 1-4-0	4-0-0 1-4-0	<u>4-8-12</u> 0-8-12
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	CSI. DEFL. TC 0.08 Vert(LL) BC 0.02 Vert(CT) WB 0.03 Horz(CT)	in (loc) l/defl L/d n/a - n/a 999 n/a - n/a 999 0.00 6 n/a n/a	PLATES GRIP MT20 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 23 lb FT = 20%F, 11%E

LUMBER-

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

BRACING-TOP CHORD 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.



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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss T	Гуре		C	Qty	Ply	BCTH-	14				
24021007	L04	GABLE	-		1		1					163996	5953
4021007	204	GADEL	-					Job Ref	erence (op	tional)			
The Building Center,	Gastonia, NC - 28052									dustries, Inc. Sat			
					ID:sWUV	koBcB7e	eFy0GbrIE	E06iy7Hxl	-dZcl?0q_8	SDSiMuS44Pr4HJ	cwwrQDEgQk	5h6EM?zesBH	ļ
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												Scale = 1	1.40
												Scale = 1	:18.
												3x3	
1	2 3		4	5	5	6		7		8		9 10	
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19	18 1	7	**************************************	***************************************	5	14	*****	1 1	3	12		11	
3x3 =												3x6 =	
1-4-0	2-8-0	4-0-0		5-4-0	6-8-0		8-0		c	9-4-0	10-8-0	11_1_9	
1-4-0	1-4-0	1-4-0		1-4-0	1-4-0		1-4		1	1-4-0	1-4-0	0-5-8	
	0040000		001		DEEL		(1)	1/-1-41	1. (-1	DI 475			
OADING (psf) CLL 40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI. TC	0.09	DEFL. Vert(LL)	in n/a		l/defl n/a	L/d 999	PLATE MT20	S GRI 244/		
OLL 40.0		1.00	10	0.00		11/a	_	11/a	000	101120	244/	100	

LUIVIBER-	

TCDL

BCLL

BCDL

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

10.0

0.0

5.0

BRACING-TOP CHORD BOT CHORD

Vert(CT)

Horz(CT)

n/a

11

0.00

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

999

n/a

n/a

n/a

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

1.00

YES

BC

WB

Matrix-R

0.03

0.03

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

Lumber DOL

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.



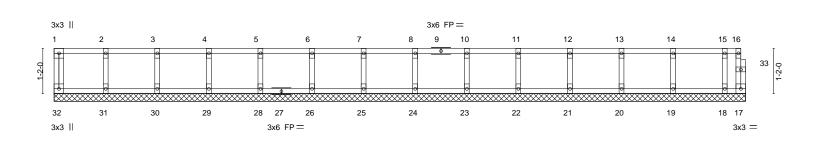
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qtv	Plv	BCTH-44
			,	,	163996954
24021007	L03	GABLE	1	1	
					Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,			8.730 s Fel	b 22 2024 MiTek Industries, Inc. Sat Mar 2 20:02:19 2024 Page 1
		IC):sWUVkoE	BcB7eFy0G	BbrlE06iy7HxI-9M3vogpMhvKrkkttWiKrl63IHS47VDBat1NgqZzesBI

0-<u>1-</u>8

Scale = 1:29.8



H	1-4-0	<u>2-8-0</u> 1-4-0	4-0-0	5-4-0 1-4-0	<u>6-8-0</u> 1-4-0	-	3-0-0 1-4-0		9-4-0 1-4-0		0-8-0 1-4-0		<u>12-0-0</u> 1-4-0	-	4-0 1-0	<u>14-8-0</u> 1-4-0	16-0-0	<u>17-4-0 17-10-8</u> 1-4-0 0-6-8
LOADIN TCLL TCDL BCLL	G (psf) 40.0 10.0 0.0	PI	PACING- late Grip DOL umber DOL ep Stress Incr	2-0-0 1.00 1.00 YES	-	BC	0.08 0.02 0.03			DEFL. /ert(LL /ert(C ⁻ Horz(C	ŕ)	in n/a n/a 0.00	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a		PLATES MT20	GRIP 244/190
BCDL	5.0	C	ode IRC2015/	TPI2014		Matrix	-R			- (-	,						Weight: 76 lb	FT = 20%F, 11%E
LUMBEI TOP CH		SP No.2(fla	t)		·					BRACI		C	Structu	ral wood	sheath	ing directly	/ applied or 6-0-0) oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SP No.2(flat)

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

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. (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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lob	Truss	Truss Type		Qty	Ply	BCTH-44		10000005
24021007	L02	GABLE		1	1			16399695
The Building Center,	Gastonia, NC - 28052				8 730 c E	Job Reference (optional) eb 22 2024 MiTek Industries	Inc. Sat Mar. 2.20:0	2.18 2024 Page 1
The building Center,	Gastonia, NC - 20032	3		ID:sWUVkoBcB		E06iy7HxI-hAVXaKokwbC_6		
0 ₁ 18								
1.1								
								Scale = 1:19
								3x3
1 2	2 3	4	5	6		7 8	9	10
•	<u>e</u>	• •		o		<u> </u>	<u> </u>	

20 1	19 18	**************************************	16	15		14 13	12	11
3x3 =								3x3
3x3 —								372 []
1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-12

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

n/a

n/a

11

0.00

L/d

999

999

n/a

l/defl

n/a

n/a

n/a

except end verticals.

PLATES

Weight: 51 lb

MT20

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

GRIP

244/190

FT = 20%F, 11%E

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

NOTES-

LOADING (psf)

40.0

10.0

0.0

5.0

TCLL

TCDL

BCLL

BCDL

WEBS

OTHERS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

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

All bearings 11-8-12.

2x4 SP No.2(flat)

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

2x4 SP No.3(flat)

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).

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

2-0-0

1.00

1.00

YES

CSI.

тс

BC

WB

Matrix-R

0.08

0.01

0.03

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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Edenton, NC 27932

b	Truss		Truss Type)			Qty	Ply	BCTH-	44			
021007	L01		GABLE				1						1639969
The Building Center,	Gastonia, NC - 2	28052,							eb 22 202		stries, Inc. Sat		17 2024 Page 1
0 ₁ 18						ID:sW	'UVkoB	cB7eFy0G	brlE06iy7	HxI-D_x9N_o	69I47VRjVPHI	Nfh_PqePn1Ji	HPjuZmgzesBK
Н													Scale = 1:2
													Scale = 1:2
													3x3
1 2	3	4	5	6	7		8	g)	10	11	12	13
	0	0	0	0		0	•		<u>e</u>	0	0	0	Ŷ
1-2-8 88													
						- 							
27 26	25	24	23	22 21	2	0	19	1	8	17	16	15	14
3x3 =				3x6 FP =									3x3
1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0		10-8-0	12-0	0 13	-4-0 14	4-8-0	16-1-8

1-4-0	1-4-0 ' 1-4-0 ' 1-4-0	<u>' 1-4-0 ' 1-4-0 ' 1-4-0</u>	1-4-0 1-4-0 1-4	4-0 1-4-0 1-5-8
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08 Vert(LL)	n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01 Vert(CT)	n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.03 Horz(CT)	0.00 14 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 68 lb FT = 20%F, 11%E
				<u> </u>

LUMBER-

 TOP CHORD
 2x4 SP No.2(flat)

 BOT CHORD
 2x4 SP No.2(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BRACING-TOP CHORD 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. (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.

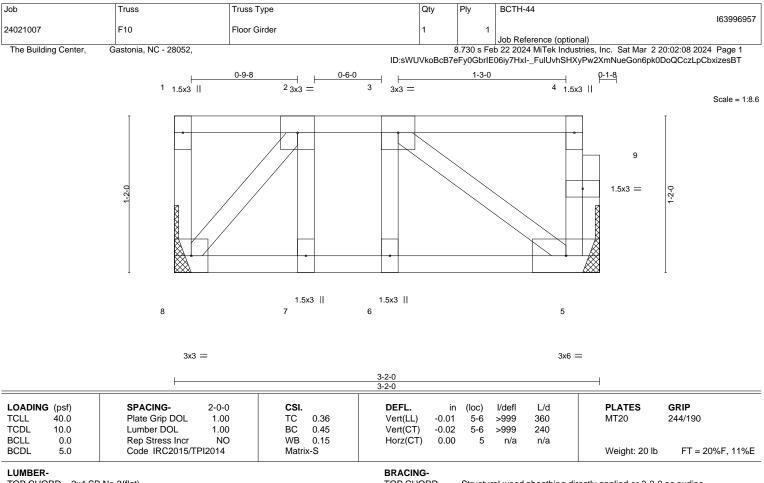
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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

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. 5=Mechanical, 8=Mechanical (size) Max Grav 5=437(LC 1), 8=425(LC 1)

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

TOP CHORD 2-3=-431/0

BOT CHORD 7-8=0/431, 6-7=0/431, 5-6=0/431 3-5=-526/0, 2-8=-653/0 WEBS

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 591 lb down at 1-10-4 on top

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

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: 5-8=-10, 1-4=-100 Concentrated Loads (lb)

Vert: 3=-541(F)



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Floor 1
Job Reference (optional) 8.730 s Feb 22 2024 MiTek Industries, Inc. Sat Mar 2 20:02:16 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-InNn9enUO_yGtH8JrZn87TRB_Eyyloe8A380DEzesBL
8.730 s Feb 22 2024 MiTek Industries, Inc. Sat Mar 2 20:02:16 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-InNn9enUO_yGtH8JrZn87TRB_Eyyloe8A380DEzesBL
ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-InNn9enUO_yGtH8JrZn87TRB_Eyyloe8A380DEzesBL
1-2-8
1.5x3 1.5x3 1.5x3
3 4 5 6 7 8

11

12

			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	CSI. TC 0.28 BC 0.50 WB 0.28	DEFL. i Vert(LL) -0.07 Vert(CT) -0.09 Horz(CT) 0.02	9 12 >999 240	PLATES MT20	GRIP 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)

3x6 =

10

9

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)

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

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

13

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.

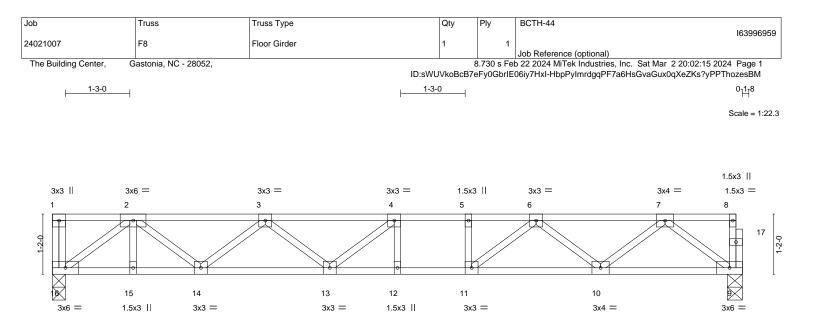
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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		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-		1	BRACING-	
TOP CHORD 2x4 SP	PNo.2(flat)		TOP CHORD Structural wood sheathing di	ectly 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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Job	Truss	Truss Type	Qty	Ply	BCTH-44		
							163996960
24021007	F7	Floor	2	1	Job Reference (optional)		
The Building Center, G	⊥ Gastonia, NC - 28052,			8 730 s Fe	b 22 2024 MiTek Industries,	Inc. Sat Mar. 2 20:02:14	2024 Page 1
					0GbrIE06iy7HxI-oPF1kzlDsl		
0-1-8				,			,
							0.4.0
⊣ ⊢ 1-3-0		⊢ <mark>0-8-8</mark> <u>1-3-4</u>					0-1-8 Scale = 1:29.8
							Ocale = 1.23.0
				3x3 =			
4x5 =	3x4 =	3x3 = 3x3 =		3x	6 FP = 3x4 =	4x5 =	
1 2	3	4 5 6 7	8		10 11 12	13	14
	3	4 5 0 7	8				
			P	_ /\$\ _			
						\sim // $^{\sim}$	
							÷
			- Itali				
24	23 22	21 20 19	18		17	16	
3x6 =	4x5 = 3x8 MT20HS FP =	3x5 =	3x3 =		3x5 =	4x5 =	3x6 =
		3x5 =					

ŀ	8-0-0 8-0-0	8-8-8 9 0-8-8			<u>18-1-4</u> 9-0-10		
LOADING (psf) TCLL 40.0		CSI. TC 0.56	DEFL. in Vert(LL) -0.32	()	/defl L/d •659 360	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 5.0	Rep Stress Incr YES	BC 0.87 WB 0.52 Matrix-S	Vert(CT) -0.45 Horz(CT) 0.07	19 > 15	480 240 n/a n/a	MT20HS Weight: 95 lb	187/143 FT = 20%F, 11%E
BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) *Except* 15-22: 2x4 SP No.1(flat) 2x4 SP No.3(flat) (size) 24=0-5-8, 15=0-3-8		TOP CHORD BOT CHORD	except en	d verticals.	irectly applied or 5-8-1 or 10-0-0 oc bracing.	oc purlins,
	Max Grav 24=976(LC 1), 15=976(LC 1) - Max. Comp./Max. Ten All forces 250 (lb) or		4164/0				
BOT CHORD	2-3=-2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6= 8-9=-4164/0, 9-11=-3460/0, 11-12=-3460/0, 23-24=0/1227, 21-23=0/2885, 20-21=0/3892, 16-17=0/2884, 15-16=0/1227	2-13=-2073/0					
WEBS	2-24=-1536/0, 2-23=0/1102, 3-23=-1057/0, 3 13-15=-1537/0, 13-16=0/1102, 12-16=-1055/ 7-20=-458/324		,				
NOTES-							

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

2) All plates are MT20 plates unless otherwise indicated.

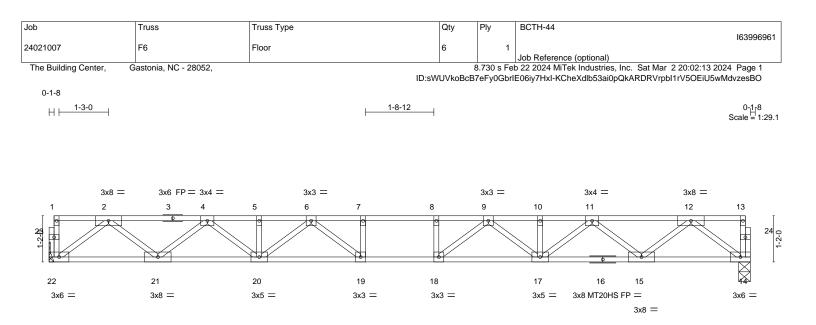
3) All plates are 1.5x3 MT20 unless otherwise indicated.

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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818 Soundside Road Edenton, NC 27932



			<u>17-8-12</u> 17-8-12			
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 YES Code IRC2015/TPI2014	CSI. TC 0.62 BC 0.80 WB 0.51 Matrix-S	Vert(LL) -0.29	n (loc) l/defl L/d 9 18-19 >713 360 0 18-19 >519 240 7 14 n/a n/a	MT20 MT20HS	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 SF 14-16: WEBS 2x4 SF REACTIONS. (size	 ² No.2(flat) ² No.1(flat) *Except* ² X4 SP No.2(flat) ³ No.3(flat) ⁴ No.3(flat) ⁶ 22=Mechanical, 14=0-3-8 ⁴ ray 22=955(LC 1), 14=955(LC 1) 		BRACING- TOP CHORD BOT CHORD	except end verticals.	ning directly applied or 5-8-1	4 oc purlins,
FORCES. (lb) - Max. TOP CHORD 2-4=- 9-10= BOT CHORD 21-22 WEBS 2-22= 11-15	Comp./Max. Ten All forces 250 (lb) o -2021/0, 4-5=-3360/0, 5-6=-3360/0, 6-7= 3360/0, 10-11=-3360/0, 11-12=-2021/ 2=0/1200, 20-21=0/2809, 19-20=0/3760 5=0/1200 1502/0, 2-21=0/1069, 4-21=-1025/0, 4 5=-1025/0, 11-17=0/704, 9-17=-511/0, 5 =-270/0, 8-18=-270/0	=-3993/0, 7 ⁻ 8=-3993/0, 8-9 0 , 18-19=0/3993, 17-18=0/3 I-20=0/704, 12-14=-1502/0)=-3993/0, 3760, 15-17=0/2809, 0, 12-15=0/1070,			
NOTES						

17-9-12

NOTES-

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

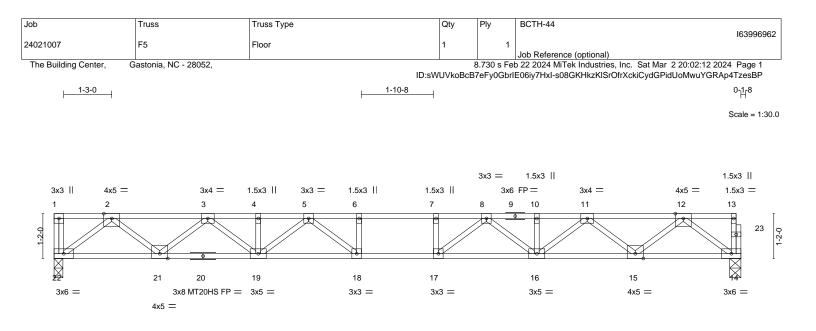
2) All plates are MT20 plates unless otherwise indicated.

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.



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			17-10-8					
			17-10-8					
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 0.68 BC 0.83 WB 0.52 Matrix-S	Vert(LL) -0.3	in (loc) 30 17-18 32 17-18 37 14	I/defl L/d >696 360 >506 240 n/a n/d	0 MT20 0 MT20HS	GRIP 244/190 187/143 FT = 20%F, 11%E	
BOT CHORD 2x4 14- WEBS 2x4 REACTIONS. (TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals. BOT CHORD 2x4 SP No.2(flat) *Except* BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3(flat) 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.							
TOP CHORD 2- 8- BOT CHORD 2- 1 WEBS 2- 12	ax. Comp./Max. Ten All forces 250 (lb) o 3=-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6- 10=-3400/0, 10-11=-3400/0, 11-12=-2041/ -22=0/1211, 19-21=0/2838, 18-19=0/3809 4-15=0/1210 22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3 -14=-1516/0, 12-15=0/1082, 11-15=-1038 17=-285/0, 6-18=-285/0	4057/0, 6-7=-4057/0, 7-8 0 , 17-18=0/4057, 16-17=0/ ;-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.

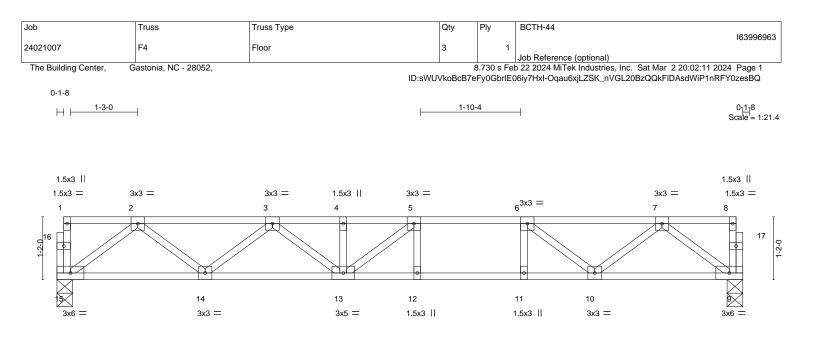
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.

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.



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			12-8-12 12-8-12			
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 0.63 BC 0.82 WB 0.32 Matrix-S	Vert(LL) -0.1	n (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
BOT CHORD 2x4 SF	2 No.2(flat) 2 No.1(flat) 2 No.3(flat)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o) oc purlins,	

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.



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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

	1										
Job	Truss	Truss Type		1	Qty	Ply	BCTH-44			16399696	64
24021007	F3	Floor Girder			1	1				10399090	54
21021001							Job Reference (option	al)			
The Building Center,	Gastonia, NC - 28052,						b 22 2024 MiTek Indus	tries, Inc. Sat Ma			
				ID:sWL	JVkoBcB7	eFy0Gbrl	E06iy7HxI-wd0Wvbijo8	C79Mh9UJgktCB	2nppdu0mGo	7hi0azesBR	
0-1-8											
⊣ ⊢ 1-3-0			1-4-4							Scale = 1:2	7.0
1.5x3											
1.5x3 = 3x5	= 3x3	= 1.5x3	3x3 =	1.5x3	3x3 =	1.	5x3 3x3 =		$4x5 \equiv$	1.5x3	
1 2	3	4	5	6	7	8	3 9		10	11	
		•	8	0	12		0 /2		1 e	•	I
020 7 7		\sim \square				\sim		< <i>//</i>			1-2-0
÷											÷-
			0								I
	18	17	16	15		1	14 2 ²	1 13		12	
3x6 =	3x5 =	3x5 =	1.5x3	3x3 =		3	8x5 =	4x5 =		3x4 =	

F			15-11-12 15-11-12			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.71 BC 0.88 WB 0.56 Matrix-S	Vert(LL) -0.23	n (loc) I/defl L/d 3 14-15 >818 360 2 14-15 >591 240 3 12 n/a n/a	PLATES MT20 Weight: 82 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2	4 SP No.2(flat) 4 SP No.1(flat) 4 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. (size) 19=0-3-8, 12=Mechanical

Max Grav 19=890(LC 1), 12=1112(LC 1)

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

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



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A MiTek Af 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type		Qty	Ply	BCTH-44			
								1639969	965
24021007	F2	Floor		5	1				
						Job Reference (option			
The Building Center, 0	Gastonia, NC - 28052,					eb 22 2024 MiTek Indus			
				ID:sWUVkoB	cB7eFy0Gbrl	E06iy7HxI-SRS8hFh51c	4GXC6yxb9VL?fx8QF	Rs9bM6ZTy8T8zesBS	
0-1-8									
1-3-0			1-2-12	1				0 ₁ 1 ₇ 8	3
H								0-1-8 Scale = 1:	:26.2
3x5 =	3x3 =		3x3 =	3>	3 =	3x3 =	3	8x5 =	
1 2	3	4	5	6 7		8 9	1	10 11	
		0	P		P			•	Ī
		. H /		Н //	\prec	H / K	. /7	K H	21
28	\sim // \sim	//					\sim //		1-2-0 1-2-1
4									÷
		Y\$\$/				3.K/			
· X ·								/X	1
	18	17	16	15		14	13	12	
			10						
3x6 =	3x5 =	3x5 =		3x3 =		3x5 =	3x5 =	3x6 =	

				15-11-12 15-11-12			
LOADING TCLL TCDL BCLL BCDL	i (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 CHO BOT CHO 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

 $2-19 = -1344/0, \ 2-18 = 0/921, \ 3-18 = -872/0, \ 3-17 = 0/538, \ 5-17 = -650/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-13 = 0/919, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-13 = 0/919, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-13 = 0/91$ WEBS

9-14=0/552, 7-14=-355/0, 7-15=-188/378

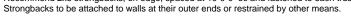
NOTES-

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.

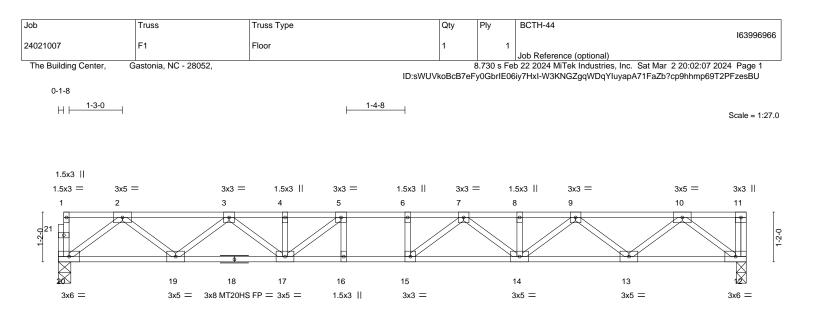
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.





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)





	<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(CT) -0.	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		
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD BRACING- TOP CHORD BOT CHORD 2x4 SP No.2(flat) *Except* 12-18: 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. WEBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. (size) 20=0-3-8, 12=0-2-12 Max Grav BOT CHORD) oc purlins,		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1802/0, 3-4=-2910/0, 4-5=-2910/0, 5-6=-3282/0, 6-7=-3282/0, 7-8=-2926/0, 8-9=-2926/0, 9-10=-1799/0 BOT CHORD 19-20=0/1084, 17-19=0/2481, 16-17=0/3282, 15-16=0/3282, 14-15=0/3214, 13-14=0/2484, 12-13=0/1084 WEBS 2-20=-1358/0, 2-19=0/934, 3-19=-884/0, 3-17=0/548, 10-12=-1360/0, 10-13=0/931, 9-13=-892/0, 9-14=0/564, 7-14=-367/0, 7-15=-181/396, 5-17=-685/0									
	e 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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