

Trenco 818 Soundside Rd Edenton, NC 27932

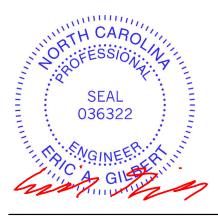
Re: 24095458F BCTH-18

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: I68234718 thru I68234729

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	QI	ty	Ply	BCTH-18		
040054505					1			l68234718
24095458F	L3	Floor Supported Gable	1		1	Job Reference (optional)		
The Building Center,	Gastonia, NC - 28052,			8.8	20 s Aug	30 2024 MiTek Industries, I	nc. Mon Sep 16 09:1	8:45 2024 Page 1
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			11-1-8 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	DEFL. Vert(LL) n, Vert(CT) n, Horz(CT) 0.0	/a - n/a 999	PLATES MT20 Weight: 48 lb	GRIP 244/190 FT = 20%F. 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	 No.2(flat) No.2(flat) No.3(flat) 	Maux-N	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0	

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

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 **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)

24095458F L2 Floor Supported Gable 1 1 The Building Center, Gastonia, NC - 28052, 8.820 s Aug 30 2024 MITek Industries, Inc. Mon Sep 16 09:18:45 2024 IIID:2SBW3Sup3LWSAdyRsYeX6hyeAY4-JIQw63ASoAr8X6ZwrAHEPy_oVii1qEMsgMbESk 0118	
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				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	GRIP 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		•

REACTIONS. All bearings 11-8-12.

2x4 SP No.3(flat)

(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-

OTHERS

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		Tru	ISS			Truss T	уре					Qty	/	Ply	BC	TH-18							1600	34720
24095458F		L1				Floor S	upported	Gable				1		1									1002	.34720
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			_	_	_																			
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58	57 56	55	54	53	52	51 50 49		47	46	45	44 43		41	40 3	39	38	37	36	35	34	33	32	31 30	
3x3	=					3x6 FP =					3x6 F	P =											3x3 =	=

				34-0-0 34-0-0			
TCDL BCLL	(psf) 40.0 10.0 0.0 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: 140 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHOR BOT CHOR WEBS	RD 2x4 SF	 No.2(flat) No.2(flat) No.3(flat) 	, ,	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	, , , ,	oc purlins,

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

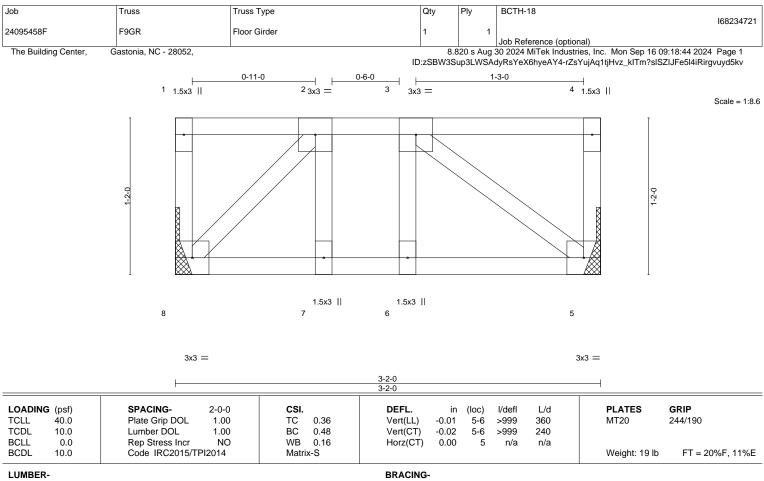
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

2x4 SP No.2(flat) 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. 8=Mechanical, 5=Mechanical (size) 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

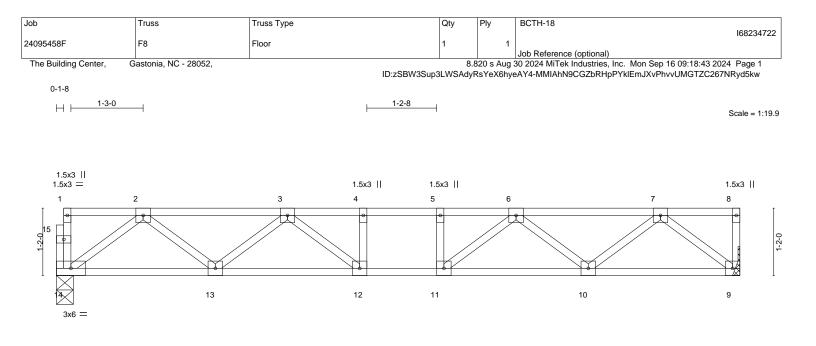
Concentrated Loads (lb) Vert: 3=-599(F)



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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- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	TC 0.29 BC 0.54 WB 0.31	DEFL. ir 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 of except end verticals.) oc purlins,

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

TONS. (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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Job	Truss	Truss Type	Qty	Ply	BCTH-18		168234723
24095458F	F7GR Gastonia, NC - 28052,	Floor Girder	1		1 Job Reference (o		00:40:40.0004 Dama 4
The Building Center,	Gastonia, NC - 28052,					ustries, Inc. Mon Sep 16 GZbRHpPYkIEmJXvIGvuL	
0-1-8		1-3-0				0-7-4	
Η							Scale = 1:30.7
1.5x3 1.5x3 =		1.5x3 1.5x3	3x6 FP=	3x	6 =	4x4 = 1.5x3 ∥	1.5x3
1 2	3	4 5 6	7 8	9	10	11 12	13 14
							1-2-0
P\$ 7							
	24	23 22 21	20	1	19		
3x6 =		1.5x3 3x5 =	3x5	= 3x6	6 FP = 3x10 =	1.5x3	
2-9-0	5-3-0	10-7-8		12	·3-0 I	18-1-4	
2-9-0	11:0-1-8,Edge]	5-4-8			7-8	4-10-4	
LOADING (psf)	SPACING- 2-0-1	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.0 Lumber DOL 1.0	D TC 0.76	Vert(LL) -0.0 Vert(CT) -0.1	07 23	>999 360 >999 240	MT20	244/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr NC Code IRC2015/TPI2014		Horz(CT) 0.0		n/a n/a	Weight: 95 lb	FT = 20%F, 11%E
LUMBER-			BRACING-				
TOP CHORD 2x4 SP BOT CHORD 2x4 SP			TOP CHORD		ural wood sheathing t end verticals.	g directly applied or 6-0-0	0 oc purlins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid	ceiling directly appli	ed or 6-0-0 oc bracing.	
	25=0-3-8, 15=4-11-12, 18= lift 15=-125(LC 1), 17=-824(LC	4-11-12, 16=4-11-12, 17=4-11-12 : 1)	2				
	av 25=666(LC 1), 18=2334(LC						
		0 (lb) or less except when showr /0, 5-6=-1499/0, 6-7=-1499/0, 7-					
9-10=0)/1937, 10-11=0/1937, 11-12=0						
17-18=	-694/0, 16-17=-694/0	607, 9-20=0/951, 3-24=-508/0, 7	, ,				
	5/340, 7-21=0/542, 13-15=0/3	15, 11-18=-1534/0, 13-16=-571/0					
NOTES-							
	loads have been considered fo 20 unless otherwise indicated.	or this design.					
 Provide mechanical c at joint 17. 	onnection (by others) of truss t	o bearing plate capable of withst	anding 125 lb uplift at j	pint 15 an	d 824 lb uplift		
,	5 , 5 , 1	0-0-0 oc and fastened to each to da or restrained by other means.	,	X 3") nail	S.		
5) CAUTION, Do not ere 6) Hanger(s) or other co		vided sufficient to support conce	ntrated load(s) 491 lb c	own at 1	1-11-12 on top	IN RTH	
chord. The design/se	lection of such connection dev	ice(s) is the responsibility of othe ace of the truss are noted as fror	rs.			Caller	Man
LOAD CASE(S) Standa	ard						EAL
1) Dead + Floor Live (ba Uniform Loads (plf)	lanced): Lumber Increase=1.0	0, Plate Increase=1.00				030	5322
	20, 1-14=-100 lb)					SI 030	
Vert: 9=-411						THE SNG	INEER
						A.	GILBE
						Sentem	ber 17 2024

September 17,2024



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Job	Truss		Truss Type			Qty	Ply	BCTH-18			
											168234724
24095458F	F6		Floor			2	1	Job Reference (ontional)		
The Building Cente	er, Gastonia, N	C - 28052,						30 2024 MiTek In	dustries, Inc. Mon S		
					ID:zSE	3W3Sup3LW	SAdyRsYe>	(6hyeAY4-uAkoT	18ZVFTagfqLA2jXnł	(M5uVS2dkzQ_0	OMar?yd5kx
0-1-8											
H 1-3-0				0-1	0-4						0-1-8 Scale = 1:29.8
											Scale = 1.29.0
							<u> </u>				
							3x3 =				
	4x5 =	3x4 =		3x3 =	3x3 =			6 FP =	3x4 =	4x5 =	
1	2	3	4	5 6	7		8 9	9 10	11	12	13
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k∳	22	21	20	19	18	17		16	15		K4
3x6 =	4x5 =	3x8 MT20HS F	P =	3x3 =		3x3 =		3x6 =	4x5 =	=	3x6 =
			3x6 =								

				<u>18-1-4</u> 18-1-4					
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/TF	2-0-0 1.00 1.00 YES PI2014	CSI. TC 0.87 BC 1.00 WB 0.58 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc -0.33 17-17 -0.49 17-17 0.08 1	3 >650 3 >435	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 94 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) *Except* 14-21: 2x4 SP No.1(flat) 2x4 SP No.3(flat)			BRACING- TOP CHOR BOT CHOR	exce D Rigio	pt end ver d ceiling di	ticals.	irectly applied or 2-2-0 or 10-0-0 oc bracing, l8.	•
REACTIONS.	(size) 23=0-3-8, 14=0-3-8 Max Grav 23=1065(LC 1), 14=	1065(LC 1)							
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All for 2-3=-2272/0, 3-4=-3776/0, 4-5 8-10=-3770/0, 10-11=-3770/0, 22-23=0/1331, 20-22=0/3140, 15-16=0/3143, 14-15=0/1330 12-14=-1666/0, 2-23=-1667/0,	5=-3776/0, 5-6= 11-12=-2271/ 19-20=0/4244	4556/0, 6-7=-4556/ 0 , 18-19=0/4556, 17- ⁻	0, 7-8=-4461/0, 18=0/4556, 16-17=0/427	7,				

1667/0, 12-15)/1226, 2-2 WEBS 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.



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)



Job	Truss	Truss Type		Qty	Ply	BCTH-18			10000 1705
24095458F	F5	Floor		5	1				168234725
						Job Reference	(optional)		
The Building Center, 0	Gastonia, NC - 28052,						ndustries, Inc. Mon Se		
			ID:zSBW3	3Sup3LWS	SAdyRsYe	X6hyeAY4-uAko	T18ZVFTagfqLA2jXnł	KM78VU_dI7Q_O	Mar?yd5kx
0-1-8									
⊢⊢1-3-0			1-10-4						Scale = 1:30.0
									Scale = 1.50.0
1.5x3						1.5x3			
1.5x3 = 4x5 =		1.5x3 3x3 =		ix3	3x3 = 3	x6 FP=	3x4 =	4x5 =	1.5x3
1 2	3	4 5	6 7		8	9 10	11	12	13
I le fret		0	0	•		<u> </u>	12	- Int	
923] //	\sim	\Box			- I -
									1-2-0
			1	\checkmark					
	• <u> </u>						0		
22	21 20	19	18 1	7		16	15		14
3x6 =	3x8 MT20HS FP =	3x6 =	3x3 = 3	x3 =		3x6 =	4x5 =		3x4 =
	4x5 =								

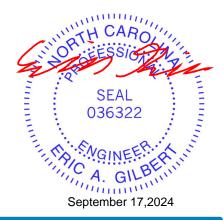
	2-9-0		5-3-0	9-11-12			12-7-4		15-1-4			-8-12	
	2-9-0) '	2-6-0	4-8-12	I		2-7-8		2-6-0		2	2-7-8	
LOADIN TCLL TCDL	NG (psf) 40.0 10.0	SPACING- Plate Grip I Lumber DO		CSI. TC 0.73 BC 0.87	DEFL. Vert(LL) Vert(CT)	-0.30	(loc) 17-18 17-18	l/defl >705 >471	L/d 360 240	MT2	ATES 20 20HS	GRIP 244/190 187/143	
BCLL BCDL	0.0 10.0	Rep Stress Code IRC2	Incr YES 015/TPI2014	WB 0.57 Matrix-S	Horz(CT)	0.08		n/a	n/a	Wei	ght: 89 lb	FT = 20%F, 11%E	
TOP CH	LUMBER- BRACING- TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals. BOT CHORD 2x4 SP No.2(flat) *Except* 14-20: 2x4 SP No.1(flat) BOT CHORD Structural wood sheathing directly applied or 5-1-10 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) 22=0-3-8, 14=Mechanical Max Grav 22=1046(LC 1), 14=1052(LC 1)												
REACT	(-												
FORCE TOP CH	IORD 2-3=-	2223/0, 3-4=-3688		r less except when shown =-4386/0, 6-7=-4386/0, 7-8 /0									
BOT CH		2=0/1305, 19-21=0, 5=0/1253	/3073, 18-19=0/4120), 17-18=0/4386, 16-17=0/	/4104, 15-16=0/30	37,							
WEBS	3-21=	,	798, 3-19=0/786, 8-	5, 2-21=0/1195, 11-15=-11 16=-564/0, 5-19=-551/0, 8-	,								
NOTES 1) Unba		e loads have been	considered for this c	lesign.									

2) All plates are MT20 plates unless otherwise indicated.

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

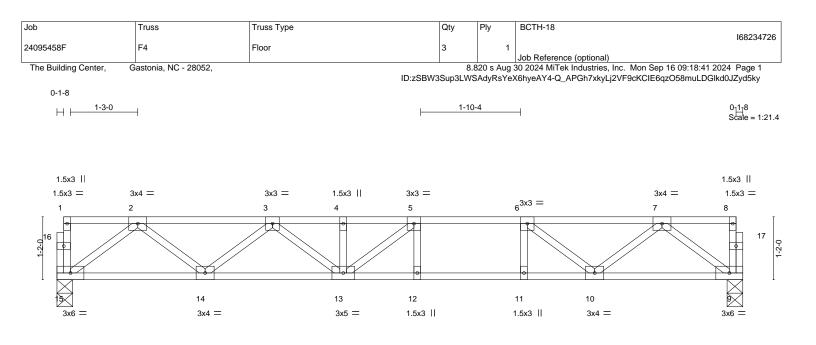
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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818 Soundside Road Edenton, NC 27932



	<u>6-7-8</u> 6-7-8		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) l/defl L/d 5 12-13 >999 360 1 12-13 >703 240 3 9 n/a 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	Structural wood sheathing di except end verticals. Rigid ceiling directly applied	,	oc purlins,
REACTIONS. (size 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,

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 BCT	H-18		168234727
24095458F	F3GR	Floor Girder	1		eference (optional		
The Building Center,	Gastonia, NC - 28052,					, Inc. Mon Sep 16 09:18:4 Lj2VF9cKCIE6q_X5CbuG	
0-1-8		1-4	-4				
H	1						Scale = 1:27.0
1.5x3							
$1.5x3 = 4x$ $1 \qquad 2$	5 = 3x4 = 3	1.5x3	1.5x3 3x3 = 6 7	= 1.5x3 8	3x3 = 9 21	4x6 = 10	1.5x3 11
				•			
							1-2-0
	<u> </u>						
12 3x6 =	18 4x5 =	17 16 3x5 = 1.5x3	15 3x3 =	14 3x5 =		13 4x5 =	12 4x8 =
5x0 —	4x5 —	3x3 — 1.5x3	383 —	3x3 —		4x5 —	4x0 —
2-9-	0 1 5-3-0		10-10-4		13-4-4	15-11-12	
2-9-			5-7-4		2-6-0	2-7-8	
LOADING (psf)	SPACING- 2-0-	CSI.	DEFL. i	n (loc) l/defl	L/d	PLATES GR	IP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.0 Lumber DOL 1.0	D TC 0.59	Vert(LL) -0.17	7 14-15 >999 4 14-15 >554	360 240	MT20 244	/190
BCLL 0.0 BCDL 10.0	Rep Stress Incr NO Code IRC2015/TPI2014	D WB 0.64 Matrix-S	Horz(CT) 0.00		n/a	Weight: 82 lb	FT = 20%F, 11%E
LUMBER-			BRACING-				,
TOP CHORD 2x4 SP BOT CHORD 2x4 SP	DSS(flat) DSS(flat)		TOP CHORD	Structural woo except end ve		tly applied or 6-0-0 oc p	urlins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid ceiling d	irectly applied or	10-0-0 oc bracing.	
) 19=0-3-8, 12=Mechanical av 19=1044(LC 1), 12=1865(L	C 1)					
FORCES. (lb) - Max.	Comp./Max. Ten All forces 25	0 (lb) or less except when shown	1.				
	2222/0, 3-4=-3648/0, 4-5=-3648 4184/0, 9-10=-3056/0	/0, 5-6=-4266/0, 6-7=-4266/0, 7-8	8=-4184/0,				
	=0/1303, 17-18=0/3062, 16-17= 3=0/2134	0/4266, 15-16=0/4266, 14-15=0/	/4385, 13-14=0/3924,				
	=-2725/0, 2-19=-1632/0, 10-13: =0/333, 3-17=0/747, 7-14=-257/	=0/1200, 2-18=0/1196, 9-13=-112 0, 5-17=-993/0, 7-15=-423/152	29/0, 3-18=-1094/0,				
NOTES-							
2) Refer to girder(s) for	e loads have been considered for truss to truss connections.	-					
 Load case(s) 1, 2, 3, intended use of this t 		. Building designer must review le	oads to verify that they a	are correct for the	9		
Strongbacks to be at	tached to walls at their outer en	0-0-0 oc and fastened to each tr ds or restrained by other means.		< 3") nails.			
5) CAUTION, Do not er 6) In the LOAD CASE(\$		ace of the truss are noted as fror	nt (F) or back (B).			UNIT CAR	11111
LOAD CASE(S) Stand						S. OP TESST	5/1/2
Uniform Loads (plf)	alanced): Lumber Increase=1.0				1		
Dead: Lumber Increa	-20, 1-21=-100, 11-21=-420(F= ase=1.00, Plate Increase=1.00	-320)			111	SEAL	
	-20, 1-21=-100, 11-21=-420(F=				Contraction of the second	03632	2
Uniform Loads (plf)		ncrease=1.00, Plate Increase=1.	00				
4) 2nd chase Dead + F	-20, 1-6=-100, 6-21=-20, 11-21 oor Live (unbalanced): Lumber	=-340(F=-320) Increase=1.00, Plate Increase=1	.00			- CA SNGINE	ENER
Uniform Loads (plf) Vert: 12-19=	-20, 1-5=-20, 5-21=-100, 11-21	=-420(F=-320)				A. GI	LBLIN
						September	

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	BCTH-18
					168234727
24095458F	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 09:18:41 2024 Page 2
			ID:zSBW3Sup3LW	SAdyRsYe	X6hyeAY4-Q_APGh7xkyLj2VF9cKCIE6q_X5CbuGpGlkd0JZyd5ky

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-18		16823472	8
24095458F	F2	Floor		5	1			10023472	"
						Job Reference (optional)			
The Building Center, C	Gastonia, NC - 28052,						Inc. Mon Sep 16 09:18:41		
			ID:zSBV	/3Sup3LW	/SAdyRsYe	eX6hyeAY4-Q_APGh7xky	Lj2VF9cKCIE6q?r59OuJ6	Glkd0JZyd5ky	
0-1-8									
⊣ ⊢ 1-3-0			1-4-4					Coole 1:07	7.0
								Scale = 1:27	.0
1.5x3									
1.5x3 = 3x6 =	= 3x3 =	1.5x3 3	3x3 = 1.5x3	3x3 =	= 1.8	5x3	3x6 =	1.5x3	
1 2	3	4	5 6	7	8	9	10	11	
		e /	2					•	I
0-2-0		$\sim \parallel$		$// \sim$	\searrow				1-2-0
+							\searrow		÷
	1		le le f					<u> </u>	1
	18	17	16 15		1	4	13	12	
3x6 =	3x6 =								
3x0 —	3x0 —	3x5 = 1	.5x3 3x3 =		3	x5 =	3x6 =	3x4 =	

2-5			0-10-4 5-7-4		13-4-4 2-6-0	+ 15-1 2-7	
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 0.57 BC 0.77 WB 0.50 Matrix-S	- ()	14-15 >903 14-15 >595	360 240 n/a	PLATES MT20 Weight: 82 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	 No.2(flat) No.1(flat) No.3(flat) 	· · · · · ·	BRACING- TOP CHORD BOT CHORD	except end vertica	heathing directly a als. tly applied or 10-0-		oc purlins,
REACTIONS. (siz Max 0	e) 19=0-3-8, 12=Mechanical Grav 19=941(LC 1), 12=947(LC 1)						

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

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 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 TOP CHORD

BOT CHORD

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, WEBS

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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lob	Truss	Truss Type	Qty	Ply	BCTH-18		
24095458F	F1	Floor	1	1			168234729
				200 0 4110	Job Reference (optio		19:40 2024 Dogo 1
The Building Center,	Gastonia, NC - 28052,					ies, Inc. Mon Sep 16 09∷ eDsQLhz3dh3ivHmihma9	
0-1-8							
-3-0	1-6-0				2-0-0		0-1-8
							Scale = 1:56
3x4 = $1 2$ 41 41 $3x6 = 3x4$		7 8 9 10 11 12 		15 30 4x6 =	$x5 = \\ 16 17 18 \\ 29 28 \\ 4x4 = 3x3 = \\ x3 = \\ x4x4 = 3x3 $		3x6 = 23 24 43 6 25 6 = 3x6 =
2-9-0 2-9-0 Plate Offsets (X,Y) OADING (psf) CLL 40.0 CDL 10.0 GCL 0.0 CCDL 10.0	[29:0-1-8,Edge], [37:0-1-8,E SPACING- Plate Grip DOL Lumber DOL	c-3-0 1-4-8 2-6-0 2-7-8 dge]	Vert(LL) -0.23	(loc) 27-28 27-28 25	26-1-8 4-10-8 1/defl L/d >915 360 >622 240 n/a n/a	28-9-0 31-3-0 2-7-8 2-6-0 PLATES MT20 Weight: 172 lb	<u>34-0-0</u> 2-9-0 GRIP 244/190 FT = 20%F, 11%I
						Weight: 172 ib	11 = 20701, 1170
L UMBER- TOP CHORD 2x4 S	P No.2(flat) *Except*		BRACING- TOP CHORD	Structur	al wood sheathing di	rectly applied or 6-0-0 o	c purlins,
	: 2x4 SP DSS(flat) P No.2(flat) *Except*		BOT CHORD		end verticals. iling directly applied	or 2.2.0 oc bracing	
25-31	: 2x4 SP DSS(flat)		BOTCHORD	Rigiu ce	aning directly applied	or 2-2-0 oc bracing.	
VEBS 2x4 S	P No.3(flat)						
	ze) 41=0-3-8, 33=0-5-8, 25 Grav 41=804(LC 3), 33=2454						
TOP CHORD 2-3=	1615/0, 3-4=-2498/0, 4-5=-2 1683/489, 9-11=-78/1262, 1	s 250 (lb) or less except when shown. 498/0, 5-6=-2575/0, 6-7=-2575/0, 7-8= 1-12=0/3418, 12-13=0/3418, 13-14=-2 70, 16-17=-3328/0, 17-18=-3328/0, 18 2-23=-1908/0 9=0/2575, 37-38=0/2575, 36-37=-200/	78/1186, 19=-3328/0,				
14-1 19-2	1=0/988.39-40=0/2175 38-3						
14-1 19-2 3OT CHORD 40-4 34-3 28-2	86=-860/992, 33-34=-1961/0, 29=0/3328, 27-28=0/3348, 26	,					
14- 19-2 30T CHORD 40- 34-3 28-2 VEBS 2-4 3-33 23-2 19-	36=-860/992, 33-34=-1961/0, 29=0/3328, 27-28=0/3348, 26 1=-1237/0, 11-33=-1829/0, 2- 9=0/413, 9-36=0/1003, 5-39=- 26=0/1000, 13-32=0/1521, 22		9-34=-1302/0, 13-33=-1960/0, 91, 14-30=0/1133,				
An end of the second se	36=-860/992, 33-34=-1961/0, 29=0/3328, 27-28=0/3348, 26 =-1237/0, 11-33=-1829/0, 2- 9=0/413, 9-36=0/1003, 5-39=- 66=0/1000, 13-32=0/1521, 22 27=-339/53, 16-30=-908/0, 19 7=-350/0, 7-37=0/880 ve loads have been considered ver loads have been considered i MT20 unless otherwise indic trongbacks, on edge, spaced	27=0/2619, 25-26=0/1140 40=0/817, 11-34=0/1388, 3-40=-728/0, 144/425, 7-36=-774/0, 23-25=-1428/0, 26=-925/0, 14-32=-1428/0, 22-27=0/5 9-28=-491/147, 16-29=0/1164, 17-29=-	9-34=-1302/0, 13-33=-1960/0, 91, 14-30=0/1133, 498/0,	3") nails.	Ĺ	ORTH CA	ROLIN



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ENGINEERING BY REENCED A MiTek Affiliate 818 Soundside Road Edenton, NC 27932

