

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24031277 BCTH-37

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: I64319458 thru I64319472

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

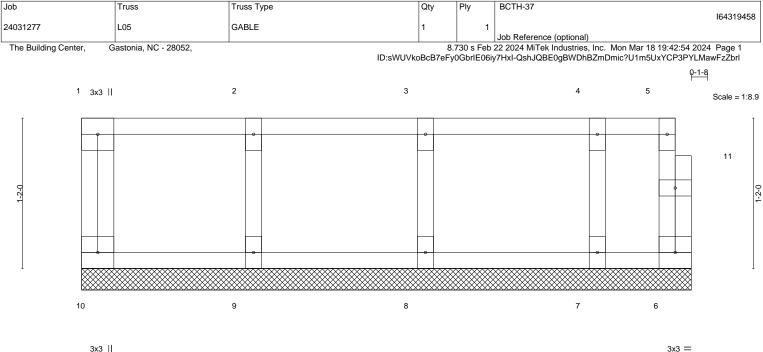
North Carolina COA: C-0844



March 20,2024

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.



3x3 ||

		1-4-0	1-4-0	0-8-12
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. DEFL. TC 0.08 Vert(LL) BC 0.02 Vert(CT) WB 0.03 Horz(CT) Matrix-R Horz(CT) 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 Weight: 23 lb FT = 20%F, 11%E

L

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

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.

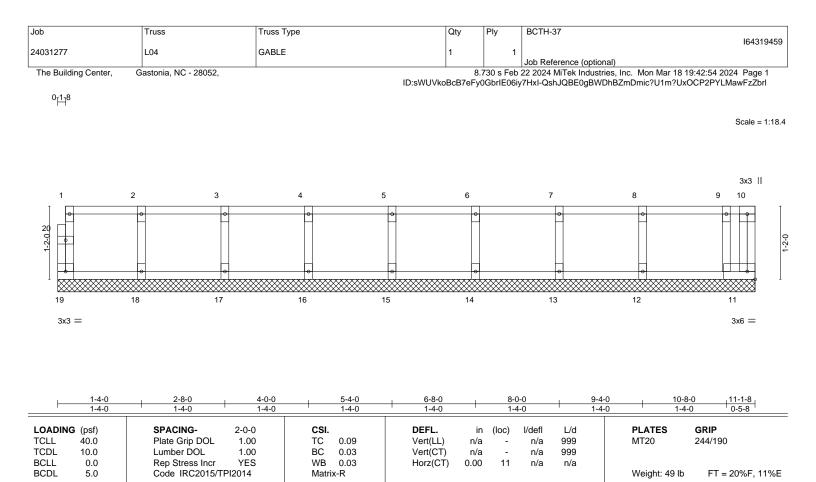
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.

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 **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)





BRACING-

TOP CHORD

BOT CHORD

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

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

except end verticals.

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LUMBER-

WFBS OTHERS

NOTES-

TOP CHORD

BOT CHORD

REACTIONS.

2x4 SP No.2(flat)

2x4 SP No.2(flat)

2x4 SP No.3(flat)

2x4 SP No.3(flat)

All bearings 11-1-8.

1) All plates are 1.5x3 MT20 unless otherwise indicated. 2) Gable requires continuous bottom chord bearing.

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

6) CAUTION, Do not erect truss backwards.

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

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

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.

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

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



G mmm March 20,2024 VIIIIIIIIIIII

818 Soundside Road

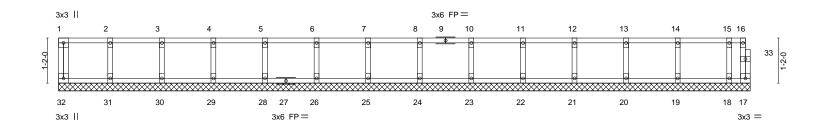
Edenton, NC 27932

MILLIN

SEAL 036322

Job	Truss	Truss Type	Qty	Ply	BCTH-37
24031277	L03	GABLE	1	1	l64319460
					Job Reference (optional)
The Building Center, G	Bastonia, NC - 28052,		8.	730 s Feb 3	22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:53 2024 Page 1
-		ID:sW	UVkoBcB7	eFy0Gbrll	E06iy7HxI-yf7xDrDOvtOM31_Zf3BNTGVbM4bITypFJhd0OozZbrm
					0- <mark>1</mark> -8

Scale = 1:29.8



1-4-0 1-4-0	2-8-0 4-0-0 5-4-0 1-4-0 1-4-0 1-4-0	6-8-0 8-0-0 1-4-0 1-4-0	9-4-0 10-8-0 1-4-0 1-4-0	12-0-0 13-4 1-4-0 1-4		16-0-0	<u>17-4-0 17-10-8</u> 1-4-0 0-6-8
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 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	a - n/a	L/d 999 999 n/a	PLATES MT20 Weight: 76 lb	GRIP 244/190 FT = 20%F, 11%E
	P No.2(flat) P No.2(flat)		BRACING- TOP CHORD	Structural wood except end vertion		y applied or 6-0-0	oc purlins,

	274 01 11
BOT CHORD	2x4 SP N
WEBS	2x4 SP N

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

OTHERS

J 2

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.

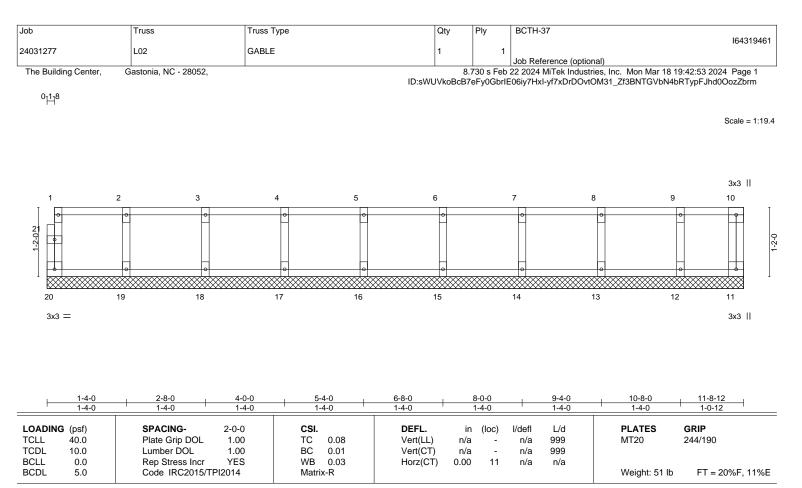
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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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 11-8-12.

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

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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

6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty Ply	BCTH-37	164319462
24031277	L01	GABLE	1 1	Job Reference (optional)	104013402
The Building Center,	Gastonia, NC - 28052,			22 2024 MiTek Industries, Inc.	Mon Mar 18 19:42:52 2024 Page 1
		IC):sWUVkoBcB7eFy0GbrIE0	06iy7HxI-UTZZ?VCl8ZGVSuP1	V6Mg8w3yRegFBkVZ651tTsMzZbrn
0- <mark>1/</mark> 8					
					Scale = 1:26.
					3x3
1 2	3 4	5 6 7	8 9	10 11	
48 0 0		<u> </u>		<u>e</u>	
27 26	25 24	23 22 21 20	19 18	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 .	ዓ-4-0 . 10-ጽ-0 .	12-0-0 . 13-4-0 .	14-8-0 . 16-1-8 .
<u> 1-4-0</u> -1-4-0	2-8-0 + 4-0-0 1-4-0 + 1-4-0 +		9-4-0 10-8-0 1-4-0 1-4-0	<u>12-0-0 13-4-0 </u> 1-4-0 1-4-0	<u>14-8-0 16-1-8</u> 1-4-0 1-5-8
1-4-0	<u>2-8-0 4-0-0 1-4-0 1-4-0 </u> SPACING- 2-0-	1-4-0 1-4-0 1-4-0	1-4-0 1-4-0	1-4-0 1-4-0	
1-4-0 LOADING (psf) TCLL 40.0	1-4-0 1-4-0 1 SPACING- 2-0- Plate Grip DOL 1.0	1-4-0 1-4-0 1-4-0 1 0 CSI. DE 0 TC 0.08 Ve	1-4-0 1-4-0 EFL. in (loc) ert(LL) n/a -	1-4-0 1-4-0 l/defl L/d l n/a 999	1-4-0 1-5-8
LOADING (psf)	1-4-0 1-4-0 SPACING- 2-0-	1-4-0 1-4-0 1-4-0 DE 0 CSI. DE 0 TC 0.08 Ve 0 BC 0.01 Ve S WB 0.03 Ho	1-4-0 1-4-0 EFL. in (loc)	1-4-0 1-4-0 I/defi L/d I n/a 999 I n/a 999 I n/a 999 I	1-4-0 1-5-8 1 PLATES GRIP

 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 purlir 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.

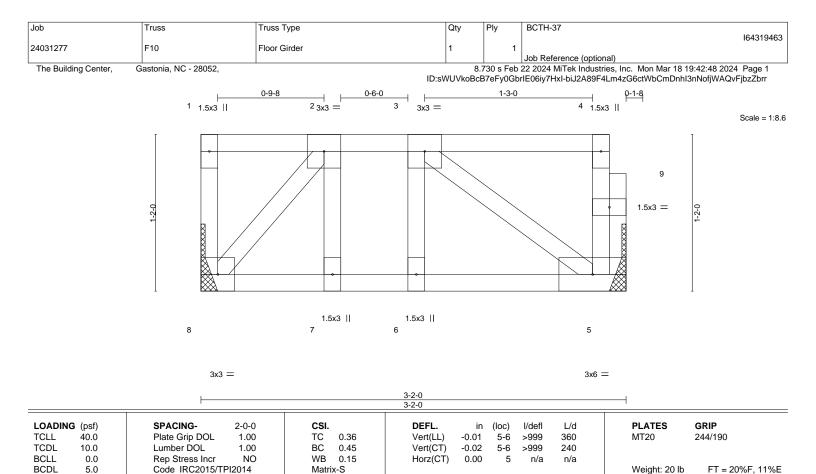
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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

 BRACING

 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) 5=Mechanical, 8=Mechanical 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

WEBS 3-5=-526/0, 2-8=-653/0

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) 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

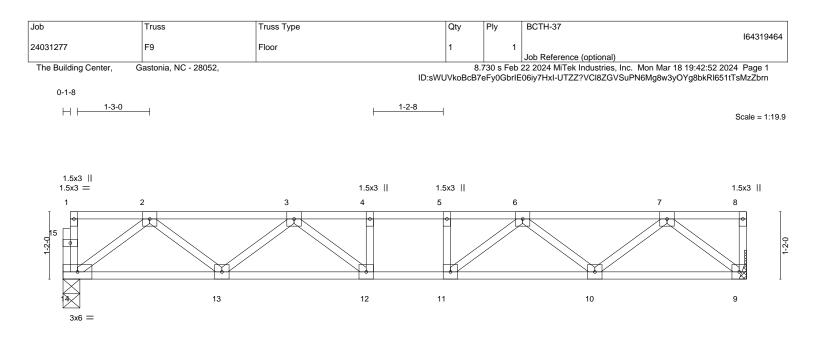
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 3=-541(F)



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818 Soundside Road Edenton, NC 27932



						11-10-0						
TCDL 10 BCLL 0	osf) 0.0 0.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.00 1.00 YES 12014	CSI. TC BC WB Matrix	0.28 0.50 0.28 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.09 0.02	(loc) 12 12 9	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP	No.2(flat) No.2(flat) No.3(flat)				BRACING- TOP CHOF BOT CHOF	RD	except	end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,

11-10-0

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

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

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

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

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

WEBS 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

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.

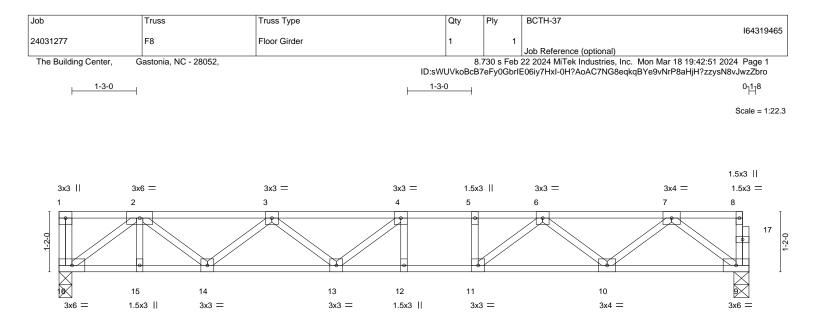
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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				13-4-8			
LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.61 BC 0.83 WB 0.37 Matrix-S	Vert(LL) -0.13	n (loc) l/defl L/d 3 12-13 >999 360 8 12-13 >864 240 3 9 n/a n/a	PLATES MT20 Weight: 70 lb	GRIP 244/190 FT = 20%F. 11%E
LUMBER TOP CHC BOT CHC WEBS	ORD 2x4 SF ORD 2x4 SF	P No.2(flat) P No.1(flat) P No.3(flat)	<u> </u>	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	, ,,,) oc purlins,

13-4-8

REACTIONS. (size) 16=0-3-0, 9=0-3-8

Max Grav 16=989(LC 1), 9=749(LC 1)

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

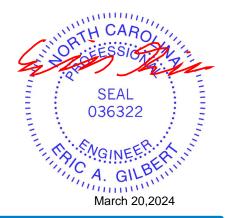
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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)

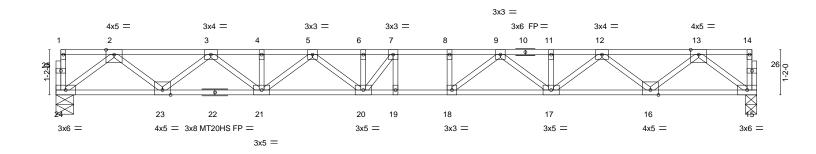


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Job	Truss	Truss Type	Qty	Ply	BCTH-37				
					164319466				
24031277	F7	Floor	2	1					
					Job Reference (optional)				
The Building Center,	Gastonia, NC - 28052,		8.	730 s Feb	22 2024 MiTek Industries, Inc. Mon Mar 18 19:42:51 2024 Page 1				
. .	ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-0H?AoAC7NG8eqkqBYe9vNrP9KHiX?wcysN8vJwzZbro								
0-1-8									

H | <u>-1-3-0</u> | <u>-1-3-4</u> | <u>-1-3-4</u> |



	8-0-0 8-0-0	8-9-4 8-8-8 9(0-10 0-8-8 0-3-5 0-0-12						
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 0.56 BC 0.87 WB 0.52 Matrix-S	DEFL. in Vert(LL) -0.32 Vert(CT) -0.45 Horz(CT) 0.07	(loc) 19 19 15	l/defl >659 >480 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 95 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 22 15 WEBS 25 REACTIONS.	44 SP No.2(flat) 44 SP No.2(flat) *Except* 5-22: 2x4 SP No.1(flat) 44 SP No.3(flat) (size) 24=0-5-8, 15=0-3-8 lax Grav 24=976(LC 1), 15=976(LC 1)		BRACING- TOP CHORD BOT CHORD	except	end vert	icals.	irectly applied or 5-8-1 or 10-0-0 oc bracing.	oc purlins,
TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All forces 250 (lb) or 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, 1 23-24=0/1227, 21-23=0/2885, 20-21=0/3892 16-17=0/2884, 15-16=0/1227 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	-4136/0, 6 ⁻ 7=-4136/0, 7-8 12-13=-2073/0 , 19-20=0/4164, 18-19=0/4 -21=0/735, 5-21=-551/0, 5	s=-4164/0, 4164, 17-18=0/3891, 5-20=0/372,					

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

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

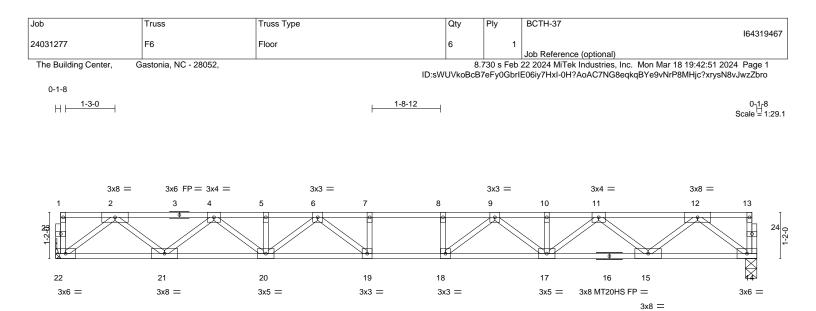
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



0-1-8 Scale = 1:29.8

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			17-8-12			
LOADING (psf)	SPACING- 2-0-0			n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.62 BC 0.80	Vert(CT) -0.40	9 18-19 >713 360 9 18-19 >519 240	MT20 MT20HS	244/190 187/143
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.51 Matrix-S	Horz(CT) 0.07	7 14 n/a n/a	Weight: 90 lb	FT = 20%F, 11%E
	P No.2(flat) P No.1(flat) *Except*		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	ectly applied or 5-8-1	4 oc purlins,
14-16:	2x4 SP No.2(flat) P No.3(flat)		BOT CHORD	Rigid ceiling directly applied o	or 10-0-0 oc bracing.	
REACTIONS. (siz Max 0	e) 22=Mechanical, 14=0-3-8 Grav 22=955(LC 1), 14=955(LC 1)					

17-8-12

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

 TOP CHORD
 2-4=-2021/0, 4-5=-3360/0, 5-6=-3360/0, 6-7=-3993/0, 7-8=-3993/0, 8-9=-3993/0, 9-10=-3360/0, 10-11=-3360/0, 11-12=-2021/0

 BOT CHORD
 21-22=0/1200, 20-21=0/2809, 19-20=0/3760, 18-19=0/3993, 17-18=0/3760, 15-17=0/2809, 14-15=0/1200

 WEBS
 2-22=-1502/0, 2-21=0/1069, 4-21=-1025/0, 4-20=0/704, 12-14=-1502/0, 12-15=0/1070, 11-15=-1025/0, 11-17=0/704, 9-17=-511/0, 9-18=-83/610, 6-20=-511/0, 6-19=-83/610, 7-19=-270/0

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

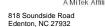
3) All plates are 1.5x3 MT20 unless otherwise indicated.

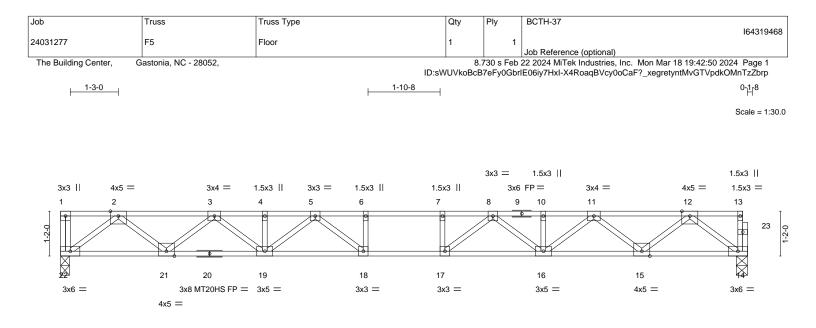
4) Refer to girder(s) for truss to truss connections.

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- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.68 BC 0.83 WB 0.52 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 17-18 -0.42 17-18 0.07 14	l/defl >696 >506 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 91 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 S 14-20	P No.2(flat) P No.2(flat) *Except* : 2x4 SP No.1(flat) P No.3(flat)	· · · · ·	BRACING- TOP CHOR BOT CHOR	D Struct	t end verf	icals.	rectly applied or 5-6-6 or 10-0-0 oc bracing.	oc purlins,
	ze) 22=0-2-12, 14=0-3-8 Grav 22=969(LC 1), 14=963(LC 1)							
TOP CHORD 2-3: 8-10 BOT CHORD 21-2	Comp./Max. Ten All forces 250 (lb) o =-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6=)=-3400/0, 10-11=-3400/0, 11-12=-2041/ 22=0/1211, 19-21=0/2838, 18-19=0/3809 15=0/1210	-4057/0, 6-7=-4057/0, 7-8 0	=-4057/0,	38,				

NOTES-

WFBS

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

7-17=-285/0, 6-18=-285/0

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.

2-22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3-19=0/717, 5-19=-522/0, 5-18=-73/638, 12-14=-1516/0, 12-15=0/1082, 11-15=-1038/0, 11-16=0/717, 8-16=-522/0, 8-17=-73/638,

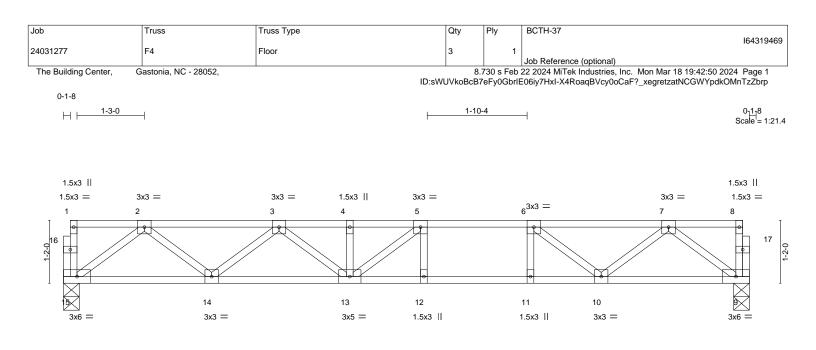
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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12-0-12						
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 0.63 BC 0.82 WB 0.32 Matrix-S	Vert(LL) -0.1	in (loc) I/defl L/d 5 12-13 >999 360 0 12-13 >764 240 3 9 n/a n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	, ,,,) oc purlins,

12-8-12

REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Grav 15=680(LC 1), 9=680(LC 1)

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

2-15=10/338, 13-14=0/1791, 12-13=0/1935, 11-12=0/1935, 10-11=0/1935, 9-10=0/817 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 WEBS

NOTES-

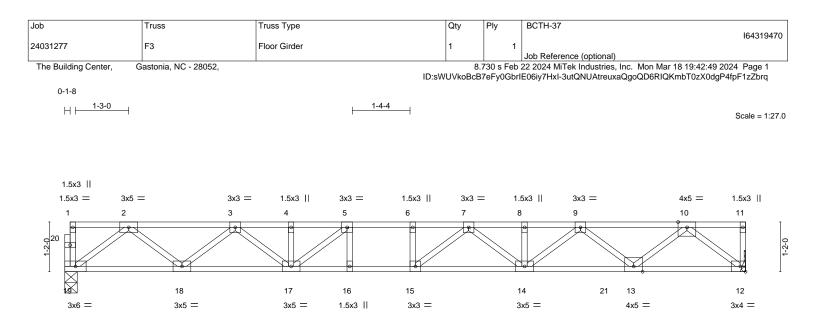
1) Unbalanced floor live loads have been considered for this design.

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



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15-11-12							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.71 BC 0.88 WB 0.56 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 3 14-15 >818 360 2 14-15 >591 240 6 12 n/a n/a	PLATES MT20 Weight: 82 lb	GRIP 244/190 FT = 20%F, 11%E	
LUMBER-		Matrix-S	BRACING-		Weight. 62 lb	FT = 20%F, TT%E	
TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			TOP 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.			

15-11-12

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

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

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

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 TOP CHORD

BOT CHORD WEBS

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

NOTES-

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

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

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

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

4) CAUTION, Do not erect truss backwards.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

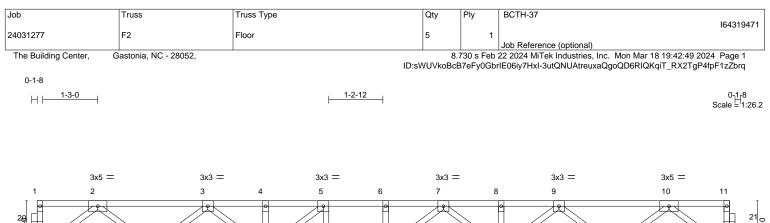
Vert: 19-21=-10, 12-21=-95(B=-85), 1-11=-100

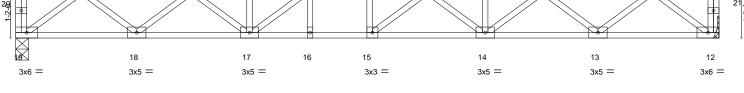


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818 Soundside Road





			<u>15-11-12</u> 15-11-12			
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. TC 0.51 BC 0.98 WB 0.44	Vert(LL) -0.2	n (loc) l/defl L/d 2 14-15 >862 360 0 14-15 >623 240 6 12 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 83 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)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 2-2-0 oc bracing.		

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

Max Grav 19=859(LC 1), 12=859(LC 1)

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

NOTES-

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

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

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

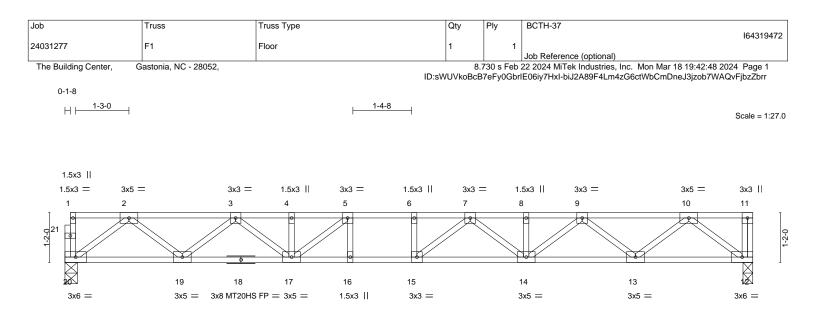
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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



5-4-8			16-1-8					
1	5-4-8		10-9-0					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.55 BC 0.74 WB 0.44 Matrix-S	Vert(LL) -0.22	(loc) l/defl 14-15 >880 14-15 >636 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) 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 20=867(LC 1), 12=873(LC 1) BOT CHORD							oc purlins,	
FORCES. (ib) - Max. Comp./Max. Ten All forces 250 (ib) 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								

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) 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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