

Trenco

818 Soundside Rd Edenton, NC 27932

Re: 26304

JAMES DREWRY

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by C & R Truss.

Pages or sheets covered by this seal: I48578558 thru I48578570

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



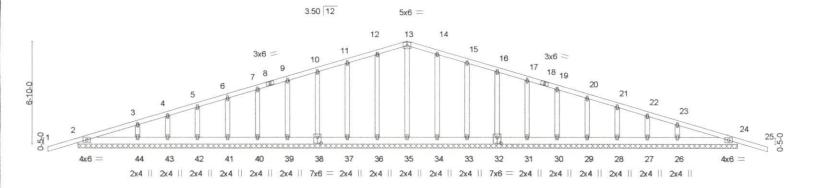
October 30,2021

Sevier, Scott

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 Reference (optional) C&R Truss Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:02 2021 Page 1 ID:eLA8y8pqhACVIH1bxbKaqOynK35-PNY6VWYcB3ejwwihoU5Cqi2EsNSrZ2fmHblue_yOe8p 2-0-0 22-0-0 44-0-0 46-0-0 22-0-0 22-0-0 2-0-0

Scale = 1:77.0



	-					44-0-0						
Plate Offse	ets (X,Y)-	[32:0-3-0,0-4-8], [38:0-3-	0,0-4-8]			, , , , ,						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	25	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.02	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	K-S	135 872					Weight: 272 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E **OTHERS**

2x4 SP No.3

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.

REACTIONS. All bearings 44-0-0.

Max Horz 2=81(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29,

28. 27

Max Grav All reactions 250 lb or less at joint(s) 35, 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29,

28, 27 except 2=293(LC 1), 24=293(LC 1), 44=261(LC 17), 26=261(LC 18)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=44ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 27.

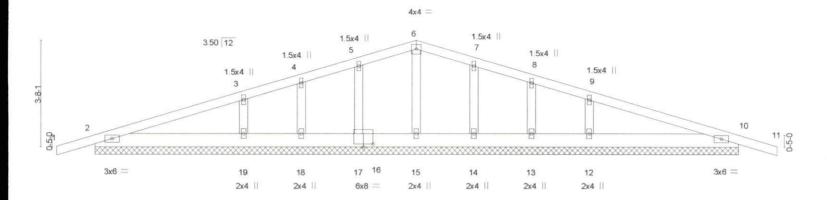


October 30,2021



Job Reference (optional) C&R Truss Autryville, NC - 28318. 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:04 2021 Page 1 ID:eLA8y8pqhACVIH1bxbKaqOynK35-LmgtvCZtjguR9Ds4vv7gw78aXB7Z1yc3kvn?jsyOe8n 2-0-0 22-4-0 24-4-0 2-0-0 11-2-0 11-2-0 2-0-0

Scale = 1:40.1



	1					22-4-0						
Plate Off:	sets (X,Y) [16:0-4-0,0-1-4]									7	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	11	n/r	120	MT20	244/190
FCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	7.60					Weight: 111 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1

OTHERS 2x4 SP No.3

All bearings 22-4-0

(lb) - Max Horz 2=41(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 17, 18, 19, 14, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 15, 17, 18, 14, 13 except 2=263(LC 1), 10=263(LC 1),

19=412(LC 17), 12=412(LC 18)

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

WEBS 3-19=-275/88, 9-12=-275/88

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 7) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 17, 18, 19, 14, 13, 12



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

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

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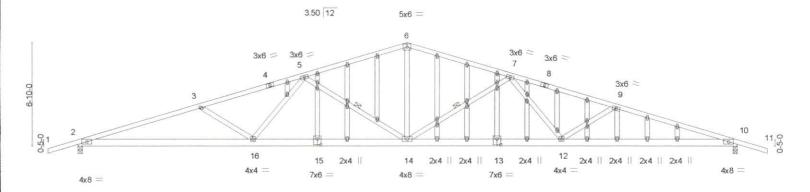
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MTek® 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 property 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



Job Reference (optional) C&R Truss 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:06 2021 Page 1 Autryville, NC - 28318 ID:eLA8y8pqhACVIH1bxbKaqOynK35-l8ndKub7Fl89PX0S1JA8?YDrN_k?Vk4MCDG6nlyOe8l 46-0-0 -2-0-0 2-0-0 15-1-10 22-0-0 28-10-6 35-8-13 44-0-0 8-3-3 6-10-6 6-10-6 6-10-6 6-10-6 8-3-3 2-0-0

Scale = 1:77.0



	i .	11-8-6	4	22	2-0-0		32-	3-10		ř.	44-0-0	
		11-8-6		10	-3-10		10	3-10		10	11-8-6	
Plate Offse	ets (X,Y)	[13:0-3-0,0-4-8], [15:0-3-	0,0-4-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.31	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.64	14-16	>830	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-AS	Wind(LL)	0.23	14	>999	240	Weight: 300 lb	FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied

7-14. 5-14

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP 2400F 2 0F 2x6 SP 2400F 2.0E BOT CHORD

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 10=0-3-8

Max Horz 2=-81(LC 6) Max Uplift 2=-204(LC 8), 10=-204(LC 8) Max Grav 2=1880(LC 1), 10=1880(LC 1)

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

2-3=-5059/424, 3-5=-4590/338, 5-6=-3221/307, 6-7=-3221/307, 7-9=-4590/338, TOP CHORD

9-10=-5059/424

BOT CHORD 2-16=-327/4806, 14-16=-218/3933, 12-14=-218/3933, 10-12=-327/4806 6-14=-49/1374, 7-14=-1093/150, 7-12=0/734, 9-12=-549/171, 5-14=-1093/150, **WEBS**

5-16=0/734, 3-16=-549/171

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=204, 10=204.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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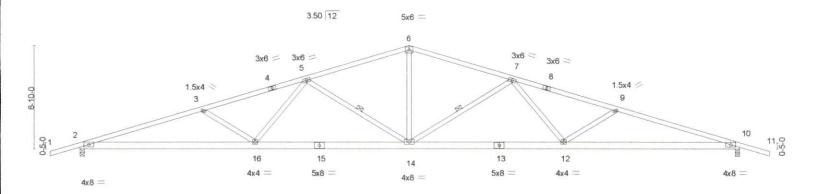


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall 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



Job Reference (optional) Autryville, NC - 28318 C&R Truss 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:07 2021 Page ID:eLA8y8pqhACVIH1bxbKaqOynK35-mLL?YEcl0bG00hbfa1hNXlm07O3EEBKVQt?fKByOe8k 2-0-0 15-1-10 22-0-0 28-10-6 35-8-13 44-0-0 46-0-0 8-3-3 6-10-6 6-10-6 6-10-6 6-10-6 8-3-3 2-0-0

Scale = 1:77.0



	11-8-6 11-8-6				3-10			3-10 3-10			44-0-0 11-8-6	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.31	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.64	14-16	>830	240	100000000000000000000000000000000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-AS	Wind(LL)	0.23	14	>999	240	Weight: 238 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied

7-14, 5-14

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x4 SP 2400F 2.0E TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-81(LC 6)

Max Uplift 2=-204(LC 8), 10=-204(LC 8) Max Grav 2=1880(LC 1), 10=1880(LC 1)

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

TOP CHORD 2-3=-5059/424, 3-5=-4590/338, 5-6=-3221/307, 6-7=-3221/307, 7-9=-4590/338,

9-10=-5059/424

BOT CHORD 2-16=-327/4806, 14-16=-218/3933, 12-14=-218/3933, 10-12=-327/4806 **WEBS**

6-14=-49/1374, 7-14=-1093/150, 7-12=0/734, 9-12=-549/171, 5-14=-1093/150,

5-16=0/734, 3-16=-549/171

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

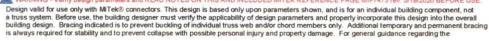
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=204, 10=204.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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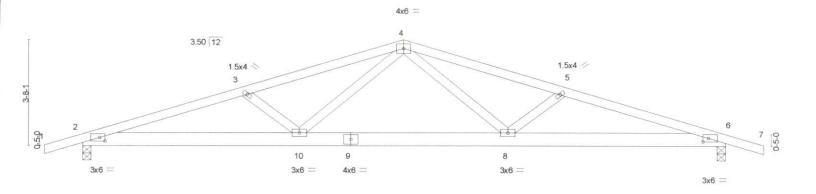






Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:08 2021 Page 1 C&R Truss Autryville, NC - 28318, ID:eLA8y8pqhACVIH1bxbKaqOynK35-EXvNlacNnvOterAr8kCc4zIFxoQBzjTffXlCsdyOe8j 2-0-0 5-8-12 16-7-4 22-4-0 2-0-0 5-8-12 5-5-4 5-5-4 5-8-12 2-0-0

Scale = 1:40.1



	-	7-6-8 7-6-8			14-9-8 7-3-0			ļ		22-4-0 7-6-8		
Plate Offse	ets (X,Y)-	[2:0-2-4,0-1-8], [6:0-2-4,0	0-1-8]		A STATE OF THE STA	7-3-0					7-0-8	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.08	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.18	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	(-AS	Wind(LL)	0.06	8-10	>999	240	Weight: 112 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

L	U	M	В	Е	R-

TOP CHORD 2x4 SP 2400F 2.0E 2x6 SP No.1 BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=41(LC 7)

Max Uplift 2=-115(LC 8), 6=-115(LC 8) Max Grav 2=973(LC 1), 6=973(LC 1)

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

TOP CHORD 2-3=-2354/204, 3-4=-2083/156, 4-5=-2083/156, 5-6=-2354/204

BOT CHORD 2-10=-141/2238, 8-10=-60/1513, 6-8=-141/2238

4-8=0/616, 5-8=-390/121, 4-10=0/616, 3-10=-390/121 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=115, 6=115,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

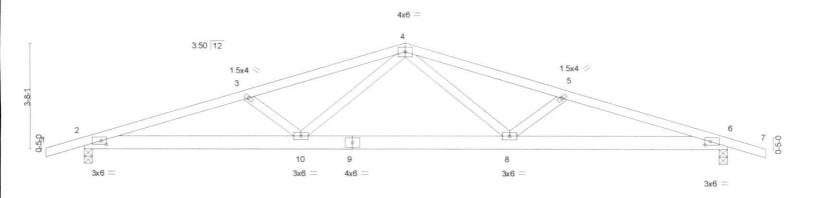


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Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:09 2021 Page 1 Autryville, NC - 28318 C&R Truss $ID: eLA8y8pqhACVIH1bxbKaqOynK35-ijTlzwd?YDWkG_k1iSjrdArQhCmQiAjouBUmO4yOe8iAlbChandArQhCmQiAjouBUmO4yOe8iAlbChandArQhC$ 11-2-0 16-7-4 22-4-0 24-4-0 5-8-12 2-0-0 2-0-0 5-8-12 5-5-4 5-5-4

Scale = 1:40.1



		7-6-8		1		14-9-8			1		22-4-0	
		7-8-8				7-3-0			A		7-6-8	
Plate Offse	ets (X,Y)	[2:0-2-4,0-1-8], [6:0-2-4,0										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.08	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.18	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix	-AS	Wind(LL)	0.06	8-10	>999	240	Weight: 112 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x6 SP No.1

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=41(LC 7)

Max Uplift 2=-115(LC 8), 6=-115(LC 8) Max Grav 2=973(LC 1), 6=973(LC 1)

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

TOP CHORD 2-3=-2354/204, 3-4=-2083/156, 4-5=-2083/156, 5-6=-2354/204

BOT CHORD 2-10=-141/2238, 8-10=-60/1513, 6-8=-141/2238

WEBS 4-8=0/616, 5-8=-390/121, 4-10=0/616, 3-10=-390/121

NOTES-

1) Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=115, 6=115
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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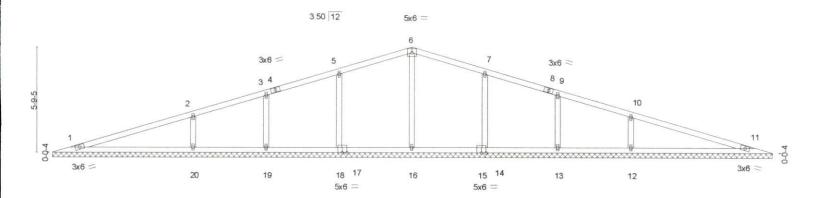
ID:eLA8y8pqhACVIH1bxbKaqOynK35-Aw18AGedJWebu8JEF9E49OOUlc6ERf3y7rEJxWyOe8h 19-9-10

39-7-4

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

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

Scale = 1:63.3



0-0 ₇ 14 0-0-14						39-7-4 39-6-7						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L∕d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a		n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TR	PI2014	Matri	x-S						Weight: 150 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 39-5-9.

(lb) - Max Horz 1=-58(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 19, 20, 14, 13, 12, 11

19-9-10

Max Grav All reactions 250 lb or less at joint(s) 1, 19, 13, 11 except 16=280(LC 1), 18=365(LC 17), 20=552(LC 17), 14=365(LC 18), 12=552(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 5-18=-276/93, 2-20=-400/132, 7-14=-276/93, 10-12=-400/132

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 19, 20, 14, 13, 12, 11.



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Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:11 2021 Page 1 C&R Truss Autryville, NC - 28318

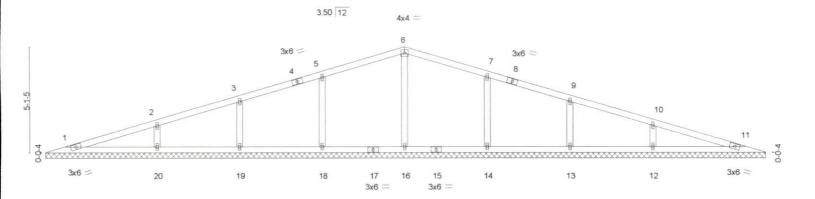
ID:eLA8y8pqhACVIH1bxbKaqOynK35-e6bWNbfG4qmRVIuQptlJibwls?VtA6f5LVzsTyyOe8g

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

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

35-0-7 17-6-3

Scale = 1:55.9



1	34-11-9 34-11-9													
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190		
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	11	n/a	n/a				
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	1 1					Weight: 129 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2

2x4 SP No.3 **OTHERS**

> All bearings 34-10-11 (lb) - Max Horz 1=-52(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 19, 20, 14, 13, 12, 11

17-6-3

All reactions 250 lb or less at joint(s) 1, 11 except 16=289(LC 1), 18=346(LC 17), 19=296(LC 1),

20=390(LC 17), 14=346(LC 18), 13=296(LC 1), 12=390(LC 18)

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

WEBS

5-18=-264/89, 2-20=-286/96, 7-14=-264/89, 10-12=-286/96

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=4ft, Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 19, 20, 14, 13, 12, 11,



October 30,2021





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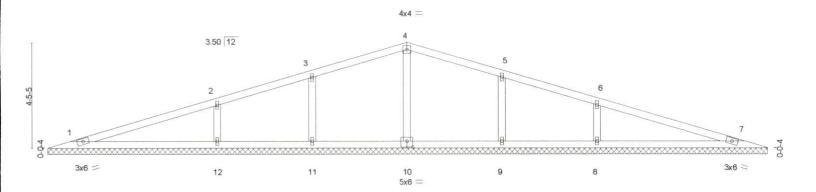


Scale = 1:48.6

15-2-12

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

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



0-0 _t 14						30-5-9						
0-0-14						30-4-11						
Plate Offse	ets (X,Y)	[10:0-3-0,0-3-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
3CLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 107 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 30-3-14.

(lb) - Max Horz 1=-45(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 12, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=323(LC 1), 11=270(LC 17), 12=504(LC 1),

9=270(LC 18), 8=504(LC 1)

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

2-12=-364/121, 6-8=-364/121 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 12, 9, 8.



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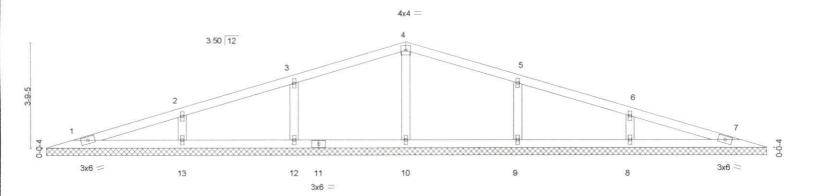


Scale = 1:41.3

12-11-6

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

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



0-0-14 0-0-14						25-10-11 25-9-14		2				-
LOADING		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	1.7 174					Weight: 89 lb	FT = 20%

BOT CHORD

BRACING-LUMBER-TOP CHORD

12-11-6

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS**

2x4 SP No.3

All bearings 25-9-0. (lb) - Max Horz 1=-38(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=295(LC 1), 12=331(LC 17), 13=352(LC 1),

9=331(LC 18), 8=352(LC 1)

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

3-12=-255/87, 2-13=-257/87, 5-9=-255/87, 6-8=-257/87 WEBS

NOTES-

REACTIONS.

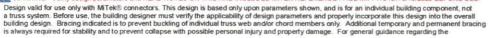
- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed, MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 12, 13, 9, 8.



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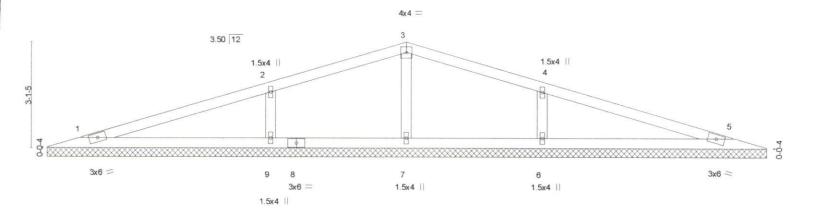






vancy Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:14 2021 Page ID:eLA8y8pqhACVIH1bxbKaqOynK35-3hGe0dh8Mi80Mmd?U?J0KEYCeDV5NTqX1TCX4HyOe8d 10-7-15 21-3-14 10-7-15

Scale = 1:34.0



	21-3-0 21-3-0													
LOADING	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.20	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCDL	10.0	Lumber DOL	1.15	TC BC	0.39	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	MT20	244/190		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a				
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 69 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 21-2-2.

(lb) - Max Horz 1=-31(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=483(LC 17), 6=483(LC 18)

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

WEBS 2-9=-354/117, 4-6=-354/117

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.



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

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

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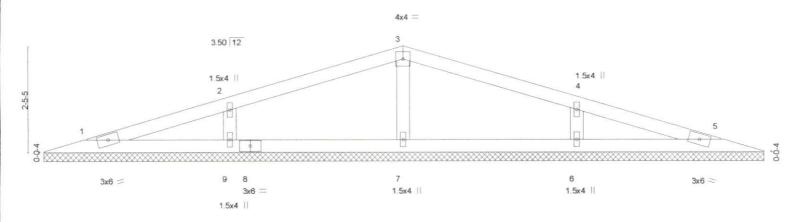






vancy Job Reference (optional) Autryville, NC - 28318 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:15 2021 Page 1 C&R Truss ID:eLA8y8pqhACVIH1bxbKaqOynK35-Xtq1Dzim73Gt_wCB2iqFsR5QQdtX6xOhG7x4cjyOe8c 16-9-0 8-4-8 8-4-8 8-4-8

Scale = 1:26.6



0-0 ₁ 14 0-0-14					16-9-0 16-8-2							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L∕d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	121	n/a	999		
3CLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 52 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 16-7-4. (lb) - Max Horz 1=-24(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=289(LC 1), 9=346(LC 17), 6=346(LC 18)

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

WEBS 2-9=-261/86, 4-6=-261/86

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.



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

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

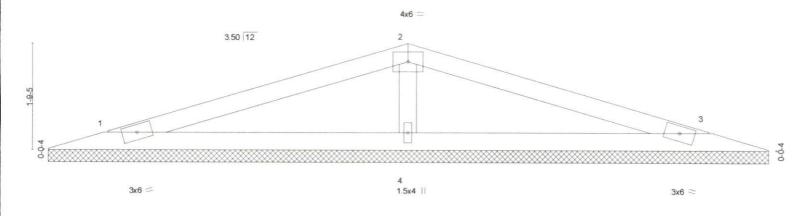
October 30,2021



Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Oct 29 06:26:16 2021 Page 1
ID:eLA8y8pqhACVIH1bxbKaqOynK35-?4OPRJjOuMPkc3nNcQLUPfeZi0BbrOSqVnhd8AyOe8b C&R Truss, Autryville, NC - 28318, 6-1-1 12-2-2 6-1-1

Scale = 1:19.3



0-0-14		12-2-2 12-1-4										
LOADING TCLL	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.36	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
CDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	MT20	244/190
CLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a	1	
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 35 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS**

2x4 SP No.3

(size) 1=12-0-7, 3=12-0-7, 4=12-0-7

Max Horz 1=-16(LC 6)

Max Uplift 1=-19(LC 8), 3=-19(LC 8), 4=-24(LC 8) Max Grav 1=176(LC 17), 3=176(LC 18), 4=463(LC 1)

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

WEBS 2-4=-317/87

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

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

October 30,2021





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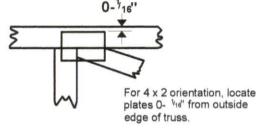


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Min size shown is for crushing only.

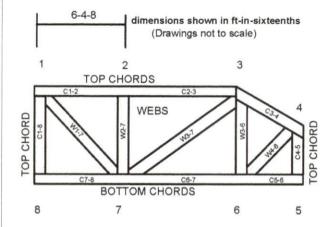
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

Design Standard for Bracing.

DSB-89: BCSI:

Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses. **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.