

Trenco 818 Soundside Rd Edenton, NC 27932

Re: NC1-94-R Caruso-Davidson-OYL NC1 94

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I56510930 thru I56511001

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 7,2023

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.



- 45, 46, 48, 51, 52, 53, 54, 35, 32, 31 except 56=-180(LC 8), 49=-349(LC 9),
- 50=-250(LC 8), 55=-251(LC 9), 34=-316(LC 8), 33=-320(LC 9)
- Max Grav All reactions 250 lb or less at joint(s) 30, 36, 37, 38, 39, 40, 41, 42
- 43, 44, 45, 46, 48, 51, 52, 53, 54, 35, 32, 31 except 56=258(LC 11),
 - 49=396(LC 10), 50=349(LC 11), 55=304(LC 10), 34=432(LC 11), 33=348(LC 10)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-56=-269/292
- WEBS 9-50=-333/277, 2-56=-470/394, 26-33=-323/340, 9-49=-376/408, 26-34=-416/364

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-2-4, Interior(1) 3-2-4 to 12-1-12, Exterior(2) 12-1-12 to 16-6-4, Interior(1) 16-6-4 to 25-10-4, Exterior(2) 25-10-4 to 29-11-5, Interior(1) 29-11-5 to 33-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 51, 52, 53, 54, 35, 32, 31 except (jt=lb) 56=180, 49=349, 50=250, 55=251, 34=316, 33=320.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







mmm February 7,2023

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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 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=155

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







ID:IkPIdlb6F0gUya0Y9sJQ_Zz1rsE-naCDV1TP0Ftca1NTO7hRvVEwpjBUDCUPcD2UICznd8J 15-3-8 7-1-12 8-1-12 13-8-8 4x6 = 5x6 🔌 12 9 10 3 \bowtie 9.00 12 11 12 4x6 🖄 4 11-9-15 -9-11 ¢ 13 14 8⁷ 5 6 2x4 || 5x8 =3x4 =



Plate Offsets (X,Y)	[3:0-3-0,0-2-2], [4:Edge,0-1-8], [6:0-4-0,	0-3-0]				1	
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 0.97	Vert(LL) -0.11	5-6 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.22	5-6 >795	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.00	5 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.07	6-7 >999	240	Weight: 123 lb	FT = 20%
			PRACING				

TOP CHORD

BOT CHORD

WEBS

LUMBER-	
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* 2-7,2-6: 2x4 SP No.2

REACTIONS. (size) 7=Mechanical, 5=Mechanical Max Horz 7=-340(LC 10) Max Uplift 7=-161(LC 8), 5=-17(LC 13)

Max Grav 7=660(LC 2), 5=649(LC 21)

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

TOP CHORD 2-7=-558/258, 2-3=-279/143, 3-4=-423/112, 4-5=-521/124

BOT CHORD 6-7=-390/410

WEBS 2-6=-245/531, 3-6=-309/190, 4-6=-104/299

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 18-8-8 to 21-8-8, Interior(1) 21-8-8 to 25-10-4, Exterior(2) 25-10-4 to 30-1-3, Interior(1) 30-1-3 to 33-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=161.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-7, 2-6, 3-6

2-0-0 oc purlins (6-0-0 max.): 1-3.

1 Row at midpt

Rigid ceiling directly applied or 9-0-9 oc bracing.

Scale = 1:70.0

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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals.
WEBS	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 19-8-0.

Max Horz 32=-76(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 32, 18, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19 All reactions 250 lb or less at joint(s) 32, 18, 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19 Max Grav

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 1-10-0, Interior(1) 1-10-0 to 9-10-0, Exterior(2) 9-10-0 to 13-10-0, Interior(1) 13-10-0 to 20-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 18, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19.



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NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-10-0, Exterior(2) 9-10-0 to 14-0-15, Interior(1) 14-0-15 to 20-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 10, 8.







reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.







1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 12-16=-371(F=-351)



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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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.







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A MITEK Affiliat 818 Soundside Road

Edenton, NC 27932



LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.3 1-11-12

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 2=0-3-0, 6=Mechanical Max Horz 2=88(LC 11) Max Uplift 2=-56(LC 8), 6=-36(LC 8)

Max Grav 2=434(LC 1), 6=368(LC 1)

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

TOP CHORD 2-4=-609/49

BOT CHORD 2-7=-119/610, 6-7=-119/610

WEBS 4-6=-610/91

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.







LOADING (pef) SPACING 2-0-0	CSI.						
TCLL 20.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr NO	TC 0.16 BC 0.10 WB 0.00	Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	n (loc)) 5-8 l 5-8) 2	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0 Code IRC2015/11PI2014 LUMBER- TOD CHORD 2x4 SD No 2	Matrix-MP	BRACING-	Struct	>999	240	Weight: 16 lb	FT = 20%

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.3 1-11-12

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 5=Mechanical Max Horz 2=40(LC 11) Max Uplift 2=-41(LC 8), 5=-12(LC 12)

Max Grav 2=200(LC 1), 5=122(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 3-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable studs spaced at 1-4-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.







		[2:0 1 0;0 0 0]		Г
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 0.31	Vert(LL) -0.02 6-7 >999 360 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.05 6-7 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.01 6 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01 7 >999 240 Weight: 51 lb FT = 20%

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.3 1-11-12

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 6=Mechanical, 2=0-3-0 Max Horz 2=155(LC 11) Max Uplift 6=-23(LC 12), 2=-44(LC 8) Max Grav 6=368(LC 1), 2=434(LC 1)

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

TOP CHORD 2-4=-603/45

BOT CHORD 2-7=-63/585, 6-7=-68/578 WEBS 4-6=-596/76

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.







LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals.
WEBS	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 16-7-0.

Max Horz 27=71(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 27, 15, 23, 24, 25, 26, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 27, 15, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-3-8, Exterior(2) 8-3-8 to 12-3-8, Interior(1) 12-3-8 to 16-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 15, 23, 24, 25, 26, 19, 18, 17, 16.







LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x6 SP No.2 *Except*

 3-6: 2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=71(LC 11) Max Uplift 7=-17(LC 12) Max Grav 7=722(LC 1), 5=642(LC 1)

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

- TOP CHORD 2-7=-639/142, 2-3=-774/80, 3-4=-767/86, 4-5=-551/99
- BOT CHORD 6-7=-10/582, 5-6=-10/582
- WEBS 3-6=0/328

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-3-8, Exterior(2) 8-3-8 to 12-6-7, Interior(1) 12-6-7 to 16-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 7.







818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94	
						I56510946
NC1-94-R	D03GR	SPECIAL	1	2		
				5	Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		8	.530 s Aug	11 2022 MiTek Industries, Inc. Tue Feb 7 05:48:11 2023	Page 2

ID:IkPIdIb6F0gUya0Y9sJQ_Zz1rsE-orje3rg30U1C7eAktBUQ55Ru7a?mijdvWNftPjznd82

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=578, 10=801.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5000 lb down and 425 lb up at 15-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-23=-60, 9-23=-240, 17-24=-866(F=-846), 24-25=-459(F=-439), 11-25=-405(F=-385), 10-11=-20

Concentrated Loads (lb) Vert: 26=-5000(F)











NOTES-

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

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-2-4, Interior(1) 3-2-4 to 8-6-4, Exterior(2) 8-6-4 to 12-6-4, Interior(1) 12-6-4 to 14-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 24, 18, 19, 20, 21, 22, 23, 17, 16, 15, 14 except (jt=lb) 25=141.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 24, 18, 19, 20, 21, 22, 23, 17, 16, 15, 14.



ENGINEERING BY EREENCO A MITEK AMILIATE 818 Soundside Road Edenton, NC 27932



WEBS 1-7=-184/1000, 2-6=-681/290, 3-6=0/282, 4-6=-2/335

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-6-4, Exterior(2) 8-6-4 to 12-9-3, Interior(1) 12-9-3 to 14-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.







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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-6-4, Exterior(2) 8-6-4 to 12-9-3, Interior(1) 12-9-3 to 14-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.









Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94	
					15651	0951
NC1-94-R	E04	COMMON	2	1		
					Job Reference (optional)	
Builders FirstSource Apex NC 27523					8 530 s May 26 2022 MiTek Industries, Inc. Tue Feb 7 09:01:10 2023, Page	2

ID:IkPIdlb6F0gUya0Y9sJQ_Zz1rsE-1_QMyd_w7pYY3eb7rAc1wdVbX8ryAatE6K15l5znaJ7

LOAD CASE(S) 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-50, 5-8=-50, 13-14=-20, 9-13=-20, 15-16=-30 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-5=-20, 5-8=-20, 13-14=-40, 9-13=-40, 15-16=-40 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-18=18, 5-18=13, 5-7=18, 7-8=13, 13-14=-12, 9-13=-12 Horz: 1-14=17, 1-18=-30, 5-18=-25, 5-7=30, 7-8=25, 8-9=28 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=13, 3-5=18, 5-20=13, 8-20=18, 13-14=-12, 9-13=-12 Horz: 1-14=-28, 1-3=-25, 3-5=-30, 5-20=25, 8-20=30, 8-9=-17 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-45, 5-8=-45, 13-14=-20, 9-13=-20 Horz: 1-14=-19, 1-5=25, 5-8=-25, 8-9=-25 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-45, 5-8=-45, 13-14=-20, 9-13=-20 Horz: 1-14=25, 1-5=25, 5-8=-25, 8-9=19 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-14, 5-8=5, 13-14=-12, 9-13=-12 Horz: 1-14=13, 1-5=2, 5-8=17, 8-9=16 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=5, 5-8=-14, 13-14=-12, 9-13=-12 Horz: 1-14=-16, 1-5=-17, 5-8=-2, 8-9=-13 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-31, 5-8=-11, 13-14=-20, 9-13=-20 Horz: 1-14=21, 1-5=11, 5-8=9, 8-9=7 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-11, 5-8=-31, 13-14=-20, 9-13=-20 Horz: 1-14=-7, 1-5=-9, 5-8=-11, 8-9=-21 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-19=19, 5-19=9, 5-8=2, 13-14=-12, 9-13=-12 Horz: 1-14=11, 1-19=-31, 5-19=-21, 5-8=14, 8-9=12 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=2, 5-8=19, 13-14=-12, 9-13=-12 Horz: 1-14=-12, 1-5=-14, 5-8=31, 8-9=-11 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=9, 5-8=2, 13-14=-12, 9-13=-12 Horz: 1-14=5, 1-5=-21, 5-8=14, 8-9=12 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=2, 5-8=9, 13-14=-12, 9-13=-12 Horz: 1-14=-12, 1-5=-14, 5-8=21, 8-9=-5 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-19=2, 5-19=-7, 5-8=-15, 13-14=-20, 9-13=-20 Horz: 1-14=19, 1-19=-22, 5-19=-13, 5-8=5, 8-9=3 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60. Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-15, 5-8=2, 13-14=-20, 9-13=-20 Horz: 1-14=-3, 1-5=-5, 5-8=22, 8-9=-19 18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 1-5=-20, 5-8=-20, 13-14=-20, 9-13=-20, 15-16=-40 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-58, 5-8=-44, 13-14=-20, 9-13=-20, 15-16=-30 Horz: 1-14=16, 1-5=8, 5-8=6, 8-9=6 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-5=-44, 5-8=-58, 13-14=-20, 9-13=-20, 15-16=-30 Horz: 1-14=-6, 1-5=-6, 5-8=-8, 8-9=-16

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Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94
					156510951
NC1-94-R	E04	COMMON	2	1	
					Job Reference (optional)
Builders FirstSource, Apex, NC 27523					8.530 s May 26 2022 MiTek Industries, Inc. Tue Feb 7 09:01:10 2023 Page 3

ID:IkPIdlb6F0gUya0Y9sJQ_Zz1rsE-1_QMyd_w7pYY3eb7rAc1wdVbX8ryAatE6K15I5znaJ7

LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-19=-34, 5-19=-41, 5-8=-46, 13-14=-20, 9-13=-20, 15-16=-30

Horz: 1-14=15, 1-19=-16, 5-19=-9, 5-8=4, 8-9=2

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-46, 5-8=-34, 13-14=-20, 9-13=-20, 15-16=-30

Horz: 1-14=-2, 1-5=-4, 5-8=16, 8-9=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-8=-20, 13-14=-20, 9-13=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-20, 5-8=-60, 13-14=-20, 9-13=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-8=-20, 13-14=-20, 9-13=-20, 15-16=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-20, 5-8=-50, 13-14=-20, 9-13=-20, 15-16=-30





LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 5-19=-60, 5-8=-60, 1-9=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 5-19=-50, 5-8=-50, 1-9=-20, 14-15=-30

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Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94	
NC1-94-P	E05	COMMON	5	1		156510952
	200		5	· ·	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Tue Feb 7 09:01:20 2023 Page 2 ID:IkPIdIb6F0gUya0Y9sJQ_Zz1rsE-kv18226Bnuo7GAM2RHoNKkwJqAFIW5RiPuSdeVznaIz

LOAD CASE(S) 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 5-19=-20, 5-8=-20, 1-9=-40, 14-15=-40 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 19-21=18, 5-21=13, 5-7=18, 7-8=13, 1-9=-12 Horz: 19-21=-30, 5-21=-25, 5-7=30, 7-8=25, 8-9=28 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 19-20=-8, 3-20=13, 3-5=18, 5-23=13, 8-23=18, 1-9=-12 Horz: 19-20=-4, 3-20=-25, 3-5=-30, 5-23=25, 8-23=30, 8-9=-17 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-45, 5-8=-45, 1-9=-20 Horz: 5-19=25, 5-8=-25, 8-9=-26 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 19-20=-24, 5-20=-45, 5-8=-45, 1-9=-20 Horz: 19-20=4, 5-20=25, 5-8=-25, 8-9=19 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-14, 5-8=5, 1-9=-12 Horz: 5-19=2, 5-8=17, 8-9=16 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=5. 5-8=-14. 1-9=-12 Horz: 5-19=-17 5-8=-2 8-9=-13 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-31, 5-8=-11, 1-9=-20 Horz: 5-19=11, 5-8=9, 8-9=7 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-11, 5-8=-31, 1-9=-20 Horz: 5-19=-9, 5-8=-11, 8-9=-21 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 19-22=19, 5-22=9, 5-8=2, 1-9=-12 Horz: 19-22=-31, 5-22=-21, 5-8=14, 8-9=12 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=2, 5-8=19, 1-9=-12 Horz: 5-19=-14, 5-8=31, 8-9=-11 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=9, 5-8=2, 1-9=-12 Horz: 5-19=-21, 5-8=14, 8-9=12 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=2. 5-8=9. 1-9=-12 Horz: 5-19=-14, 5-8=21, 8-9=-5 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 19-22=2, 5-22=-7, 5-8=-15, 1-9=-20 Horz: 19-22=-22, 5-22=-13, 5-8=5, 8-9=3 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-15, 5-8=2, 1-9=-20 Horz: 5-19=-5, 5-8=22, 8-9=-19 18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 5-19=-20, 5-8=-20, 1-9=-20, 14-15=-40 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-58, 5-8=-44, 1-9=-20, 14-15=-30 Horz: 5-19=8, 5-8=6, 8-9=6 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 5-19=-44, 5-8=-58, 1-9=-20, 14-15=-30 Horz: 5-19=-6, 5-8=-8, 8-9=-16 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

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Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94
			_		156510952
NC1-94-R	E05	COMMON	5	1	Job Reference (optional)

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Tue Feb 7 09:01:20 2023 Page 3 ID:IkPIdIb6F0gUya0Y9sJQ_Zz1rsE-kv18226Bnuo7GAM2RHoNKkwJqAFIW5RiPuSdeVznaIz

LOAD CASE(S)

Uniform Loads (plf)

Vert: 19-22=-34, 5-22=-41, 5-8=-46, 1-9=-20, 14-15=-30

Horz: 19-22=-16, 5-22=-9, 5-8=4, 8-9=2 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 5-19=-46, 5-8=-34, 1-9=-20, 14-15=-30 Horz: 5-19=-4, 5-8=16, 8-9=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-19=-60, 5-8=-20, 1-9=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 5-19=-20, 5-8=-60, 1-9=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 5-19=-50, 5-8=-20, 1-9=-20, 14-15=-30

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-19=-20, 5-8=-50, 1-9=-20, 14-15=-30





NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 8-6-4, Exterior(2) 8-6-4 to 12-9-3, Interior(1) 12-9-3 to 14-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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







				7-9-12			1			
Plate Off	sets (X,Y)	[1:0-0-0,0-0-3]								
LOADIN	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 0.92	Vert(LL)	-0.10	5-8	>911	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.57	Vert(CT)	-0.24	5-8	>378	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL)	0.11	5-8	>793	240	Weight: 35 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 5=0-3-8 Max Horz 1=177(LC 9)

Max Grav 1=303(LC 20), 5=414(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.



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

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

except end verticals.



Max Uplift 5=-49(LC 12)



			5-9-12			
LOADING (psf) TCLL 20.0 TCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.48 BC 0.37	DEFL. Vert(LL) -0 Vert(CT) -0	in (loc) 0.04 5-8	l/defl L/d >999 360 >666 240	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.00 Matrix-MP	Horz(CT) 0 Wind(LL) 0	0.01 1 0.05 5-8	n/a n/a >999 240	Weight: 26 lb FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 1=Mechanical, 5=0-3-8 Max Horz 1=132(LC 9) Max Uplift 5=-50(LC 12)

Max Grav 1=219(LC 1), 5=263(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.







LUMBER-	
---------	--

LUMBER-		BRACING-
TOP CHORD	2x4 SP No.2	TOP CHORD
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	BOT CHORD
OTHERS	2x4 SP No.3	WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 9-29, 11-27

REACTIONS. All bearings 20-8-0.

Max Horz 36=211(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 36=-164(LC 8), 20=-116(LC 9), 35=-144(LC 9), 21=-113(LC 13)

All reactions 250 lb or less at joint(s) 36, 10, 20, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, Max Grav 22.21

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

TOP CHORD 9-10=-222/251

NOTES

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-4-0, Exterior(2) 10-4-0 to 14-6-15, Interior(1) 14-6-15 to 21-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 9) will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=164, 20=116, 35=144, 21=113.







2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-4-0, Exterior(2) 10-4-0 to 14-6-15, Interior(1) 14-6-15 to 21-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 10-4-0, Exterior(2) 10-4-0 to 14-6-15, Interior(1) 14-6-15 to 21-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.







2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 10-4-0, Exterior(2) 10-4-0 to 14-6-15, Interior(1) 14-6-15 to 20-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.






LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb) Vert: 1=-1020(F)



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Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94	
					15	6510961
NC1-94-R	H04GR	SPECIAL	1	3		
					Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,			3.530 s Aug	11 2022 MiTek Industries, Inc. Tue Feb 7 05:48:29 2023 Pa	age 2

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Feb 7 05:48:29 2023 Page 2 ID:IkPIdlb6F0gUya0Y9sJQ_Zz1rsE-GIpSr?uMn0IfHPYCxzpepuBzIq2NwtAYfA0q0gznd7m

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 3=-1020

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Max Uplift All uplift 100 lb or less at joint(s) 22, 14, 19, 20, 21, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 22, 14, 18, 19, 20, 21, 17, 16, 15

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 1-9-12, Exterior(2) 1-9-12 to 5-9-12, Corner(3) 5-9-12 to 8-9-12, Exterior(2) 8-9-12 to 12-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 22, 14, 19, 20, 21, 17, 16, 15.



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- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 25, 24, 23, 22, 21, 20, 19, 18 except (jt=lb) 28=137, 27=220.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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ACTIONS. (size) 2=0-3-0, 8=Wechanical Max Horz 2=289(LC 11) Max Uplift 2=-17(LC 12), 8=-80(LC 9) Max Grav 2=662(LC 1), 8=598(LC 1)

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

TOP CHORD 2-4=-656/65, 4-6=-348/127, 6-7=-252/135, 7-8=-580/156

BOT CHORD 2-10=-231/596, 9-10=-231/596

WEBS 4-9=-421/152, 7-9=-162/544

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-8-8, Exterior(2) 11-8-8 to 15-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

TOP CHORD 2-4=-399/86, 4-5=-180/283

BOT CHORD 2-11=-167/422, 9-11=-169/414

WEBS 6-9=-257/0, 4-9=-484/62, 5-9=-379/166

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 15-1-8, Exterior(2) 15-1-8 to 18-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 8=108.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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		1				7-10-0					1	
						7-10-0					1	
Plate Offs	sets (X,Y)	[2:0-3-14,0-5-0], [3:0-0-1	3,0-1-8], [4:Ec	lge,0-2-0]								
	• (0	054.0010						(1)			DI 4750	6.DUD
LOADING	(pst)	SPACING-	2-0-0	CSI.		DEFL.	in	(IOC)	I/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.10	4-7	>911	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.24	4-7	>381	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix	-MS	Wind(LL)	0.09	4-7	>983	240	Weight: 31 lb	FT = 20%
	,					BRACINC						

TOP CHORD

BOT CHORD

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

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=105(LC 11) Max Uplift 2=-48(LC 8), 4=-33(LC 8) Max Grav 2=371(LC 1), 4=304(LC 1)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

 Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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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Plate Offsets	s (X,Y)	[2:0-3-14,0-5-0]									1	
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	0.Ó	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.05	4-7	>999	360	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.11	4-7	>635	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL 1	0.0	Code IRC2015/T	PI2014	Matri	ĸ-MP	Wind(LL)	0.05	4-7	>999	240	Weight: 24 lb	FT = 20%
LUMBER-						BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=81(LC 11) Max Uplift 2=-44(LC 8), 4=-25(LC 12) Max Grav 2=293(LC 1), 4=222(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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

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

except end verticals.

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 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Plate Offsets (X,Y	[2:0-3-14,0-5-0]							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.33 BC 0.39 WB 0.14 Matrix-MS	DEFL. in Vert(LL) -0.07 Vert(CT) -0.13 Horz(CT) 0.01 Wind(LL) 0.00	n (loc) 7 5-8 8 5-8 2 9 5-8	l/defl >999 >698 2 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 37 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x BOT CHORD 2x WEBS 2x WEDGE Left: 2x4 SP No.3	4 SP No.2 4 SP No.2 4 SP No.3	BRACING- TOP CHORD BOT CHORD	Struc excep Rigid	tural wood ot end verti ceiling dire	sheathing dir icals. ectly applied o	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,	
REACTIONS. M M M	(size) 5=Mechanical, 2=0-3-0 ax Horz 2=104(LC 11) ax Uplift 5=-33(LC 8), 2=-48(LC 8) ax Grav 5=300(LC 1), 2=368(LC 1)							

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-403/66

- BOT CHORD 2-5=-143/373
- WEBS 3-5=-380/124

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



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	6-5-0								
LOADING (psf) SPACING- 2-0-0 TCLL 20.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2015/TPI2014 10	CSI. TC 0.34 BC 0.33 WB 0.07 Matrix-MS	DEFL. in (lc Vert(LL) -0.05 5 Vert(CT) -0.10 5 Horz(CT) 0.00 Wind(LL) -0.00 5	bc) I/defl L/d 5-6 >999 360 5-6 >771 240 5 n/a n/a 5-6 >999 240	PLATES GRIP MT20 244/190 Weight: 32 lb FT = 20%					

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 REACTIONS. (size) 6=0-3-8, 5=Mechanical

Max Horz 6=104(LC 9) Max Uplift 6=-47(LC 8), 5=-32(LC 12)

Max Grav 6=320(LC 1), 5=239(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-252/125

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.



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BRACING-TOP CHORD

RD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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



LOADING TCLL TCDL BCLL	G (psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.16 0.08 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 -0.00	(loc) 1 1 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-R						Weight: 36 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS OTHERS 2x4 SP No.3 BRACING-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.

BOT CHORD

REACTIONS. All bearings 6-5-0.

Max Horz 13=104(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 10, 11, 12

Max Grav All reactions 250 lb or less at joint(s) 13, 8, 9, 10, 11, 12

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

6) Gable studs spaced at 1-4-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 10, 11, 12.



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10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-15 to 3-2-15, Exterior(2) 3-2-15 to 6-10-4, Corner(3) 6-10-4 to 9-10-4, Exterior(2) 9-10-4 to 13-5-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 1, 7, 8 except (jt=lb) 10=100.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.39 BC 0.15 WB 0.05 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4	BRACING- TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins,			

BOT CHORD

except end verticals.

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

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

B01 011011B	EX. 0. 1101E
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

REACTIONS. All bearings 7-1-12.

- Max Horz 6=-152(LC 8) (lb) -
 - Max Uplift All uplift 100 lb or less at joint(s) 4, 6, 3 except 5=-108(LC 13)
 - Max Grav All reactions 250 lb or less at joint(s) 4, 6, 3 except 5=362(LC 20)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-250/260

WEBS 2-5=-276/177

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 6-8-8 to 9-8-8, Exterior(2) 9-8-8 to 13-5-9 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Gable requires continuous bottom chord bearing.

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

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Bearing at joint(s) 4, 6, 3, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6, 3 except (jt=lb) 5=108.

9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 5.

10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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REACTIONS. All bearings 9-3-4.

(lb) - Max Horz 8=-131(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 8, 4, 6

Max Grav All reactions 250 lb or less at joint(s) 5, 8, 4 except 7=265(LC 20), 6=319(LC 20)

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.

Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 4-7-0 to 9-10-4, Exterior(2) 9-10-4 to 13-5-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Bearing at joint(s) 5, 8, 4, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 8, 4, 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 7, 6.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.





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3-5-4 3-5-4 $2x4 \parallel 4$ $9.00 | \overline{12} | 2x4 \parallel 1$ 3 | 4 $9.00 | \overline{12} | 2x4 \parallel 1$ 3 | 7 | 2x4 = 1

2x4 ||

2x4 =

3-5-4

LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 1/defl L/d PLATES GRIP	
TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) n/a - n/a 999 MT20 244/190	
TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) n/a - n/a 999	
BCLL 0.0 * Rep Stress Incr NO WB 0.02 Horz(CT) -0.00 7 n/a n/a	
BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 15 lb FT = 20%	6

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.

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

- **REACTIONS.** All bearings 3-5-4.
 - (lb) Max Horz 1=69(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 5, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 2, 5, 6

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 7, 2, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 5, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



818 Soundside Road Edenton, NC 27932 Scale = 1:15.8

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2x4 =

			3-5-4							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 Code IRC Code IRC	2-0-0 DOL 1.15 DL 1.15 Incr NO 2015/TPI2014	CSI. TC 0. BC 0. WB 0. Matrix-P	12 09 00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 13 lb	GRIP 244/190 FT = 20%

2 5 4

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.3 BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-5-4, 5=3-5-4, 2=3-5-4, 4=3-5-4 Max Horz 1=69(LC 9) Max Uplift 1=-115(LC 19), 2=-94(LC 12), 4=-11(LC 12) Max Grav 1=85(LC 12), 2=260(LC 19), 4=95(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.

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

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 7) Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=115.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





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LOADING	(p3i)	SI AGING-	2-0-0	001.				(100)	1/uen	L/U	ILAILO	UKII .	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.00	8	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	912014	Matri	x-S						Weight: 84 lb	FT = 20%	
LUMBER-						BRACING-							
TOP CHOP	RD 2x4 SP No.3	3				TOP CHOR	D	Structur	al wood :	sheathing dir	ectly applied or 6-0-0	oc purlins,	
BOT CHOF	RD 2x4 SP No.3	3						except e	end vertion	als.			

WEBS

I OF CHORD	2X4 SF IN0.3
BOT CHORD	2x4 SP No.3
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 7-8

REACTIONS. All bearings 15-11-12.

Max Horz 1=268(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 13, 12, 10, 9

Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 13=276(LC 1), 12=276(LC 1), 10=361(LC 19), 9=314(LC 19)

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

TOP CHORD 1-2=-303/283, 2-3=-273/267, 3-4=-267/250, 4-5=-268/279

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-3 to 3-10-3, Interior(1) 3-10-3 to 15-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) All plates are 2x4 MT20 unless otherwise indicated.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 13, 12, 10, 9.



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REACTIONS. All bearings 11-3-4.

(lb) - Max Horz 1=211(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 6, 1, 8 except 7=-104(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 1 except 8=323(LC 1), 7=386(LC 19)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-262/275, 1-2=-269/256
- WEBS 4-7=-263/155

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-3 to 2-8-10, Interior(1) 2-8-10 to 11-1-8 zone; cantilever left and right exposed ; end vertical

left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 8 except (jt=lb) 7=104.



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	10.0	Code IRC2015/TF	12014	Matri	x-S	BRACING					Weight: 36 Ib	FT = 20%
BCLL (0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	4	n/a	n/a		FT 00%
TCDL 10	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCLL 20	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
LOADING (p	psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

BOT CHORD

except end verticals.

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

 TOP CHORD
 2x4 SP No.3

 BOT CHORD
 2x4 SP No.3

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

REACTIONS. (size) 1=7-7-6, 4=7-7-6, 5=7-7-6

Max Horz 1=159(LC 11) Max Uplift 1=-5(LC 8), 4=-30(LC 9), 5=-97(LC 12)

Max Grav 1=134(LC 20), 4=133(LC 19), 5=354(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-267/158

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 7-5-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 1, 4, 5.



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***** $\sim \sim \sim \sim$ 5 ⁴ 2x4 || 2x4 🥢 2x4 ||

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.17 BC 0.10 WB 0.04 Matrix-P	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 244/190 Weight: 25 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP	No.3		BRACING- TOP CHORD	Structur	ral wood	sheathing d	irectly applied or 5-4-11 oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=5-4-11, 4=5-4-11, 5=5-4-11

Max Horz 1=108(LC 9) Max Uplift 1=-6(LC 8), 4=-20(LC 9), 5=-72(LC 12)

Max Grav 1=88(LC 20), 4=90(LC 19), 5=250(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 5-2-15 zone; cantilever left and right exposed ; end vertical left

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide

will fit 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) 1, 4, 5.



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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.20 BC 0.13 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 244/190 Weight: 12 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 1=3-2-0, 3=3-2-0 Max Horz 1=58(LC 11) Max Uplift 3=-20(LC 12) Max Grav 1=103(LC 1), 3=111(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



Structural wood sheathing directly applied or 3-2-0 oc purlins,

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

except end verticals.

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Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94		
					156510982		
NC1-94-R	V08	GABLE	1	1			
					Job Reference (optional)		
Builders FirstSource (Apex,	NC), Apex, NC - 27523,	8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Feb 7 05:48:54 2023 Page 1					

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Feb 7 05:48:54 2023 Page 1 ID:lkPldlb6F0gUya0Y9sJQ_Zz1rsE-16qv5YB2uhR6nFz?vjmVK9jFtvlZGNmEPZafPkznd7N

Scale = 1:56.0



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.70 BC 0.22 WB 0.12 Matrix-S	DEFL. Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.0	n (loc) a - a - D 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 114 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 S	P No.2		BRACING- TOP CHORD	Struct	ural wood	sheathing di	rectly applied or 6-0-0	oc purlins,

BOT CHORD

WEBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 10-11, 9-12

REACTIONS. All bearings 12-7-15.

Max Horz 1=272(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 18, 17, 16, 15, 14, 13 except 11=-158(LC 11),

12=-103(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

TOP CHORD 1-2=-381/382, 2-3=-331/323, 3-4=-303/301, 4-5=-271/269

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 12-6-3 zone; cantilever left and right exposed; end vertical left

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) All plates are 2x4 MT20 unless otherwise indicated.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 19, 18, 17, 16, 15, 14, 13 except (jt=lb) 11=158, 12=103.



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Job	Truss	Truss Type	Qty	Ply	Caruso-Davidson-OYL NC1 94	
				-		156510983
NC1-94-R	V09	GABLE	1	1		
					Job Reference (optional)	
Builders FirstSource (Apex, I	NC), Apex, NC - 27523,		8	.530 s Aug	11 2022 MiTek Industries, Inc. Tue Feb 7 05:48:55 2023	Page 1
		ID:IkP	Idlb6F0gU	lya0Y9sJQ	Zz1rsE-VJNHluCgf?ZyPPXBSRHktNGTaJ5R?piNeDJCx	Aznd7M

10-5-4 10-5-4







				10-5-4 '
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 0.51	Vert(LL) n/a - n/a 999 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) n/a - n/a 999
BCLL	0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) -0.00 6 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 57 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3 2x4 SP No.3 BOT CHORD 2x4 SP No.3 WEBS OTHERS 2x4 SP No.3

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-5-4.

(lb) -Max Horz 1=222(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 6, 1, 7 except 8=-105(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 1 except 8=385(LC 19), 7=349(LC 19)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-2=-312/317
- WEBS 2-8=-266/154

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 10-3-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1, 7 except (jt=lb) 8=105.



Scale = 1:46.4

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LUMBER-

 TOP CHORD
 2x4 SP No.3

 BOT CHORD
 2x4 SP No.3

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=8-2-9, 4=8-2-9, 5=8-2-9

Max Horz 1=172(LC 9) Max Uplift 1=-7(LC 8), 4=-33(LC 9), 5=-102(LC 12)

Max Grav 1=139(LC 20), 4=198(LC 19), 5=415(LC 19)

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

TOP CHORD 1-2=-255/248 WEBS 2-5=-289/167

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 8-0-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=102.



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<u>5-11-15</u>

$\begin{array}{c|c} 2x4 \parallel & & \\ 9.00 \boxed{12} \\ & & 2x4 \parallel & 7 \\ & & 2x4 \parallel & 7 \\ & & & & \\ 6 \\ & & & & & \\ 2x4 \not\approx & & & & \\ 2x4 \not\approx & & & & \\ 2x4 \parallel & & & & \\ \end{array}$

LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d PLATES GRIP in (loc) 20.0 Plate Grip DOL 1.15 тс Vert(LL) 999 244/190 TCLL 0.22 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.12 Vert(CT) n/a 999 n/a BCLL 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 28 lb FT = 20% LUMBER-BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.3

 BOT CHORD
 2x4 SP No.3

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

REACTIONS. (size) 1=5-11-15, 4=5-11-15, 5=5-11-15

Max Horz 1=122(LC 9)

Max Uplift 1=-6(LC 8), 4=-23(LC 9), 5=-81(LC 12)

Max Grav 1=99(LC 20), 4=100(LC 19), 5=281(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 5-10-3 zone; cantilever left and right exposed; end vertical left

and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide

will fit 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) 1, 4, 5.



Structural wood sheathing directly applied or 5-11-15 oc purlins,

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

except end verticals.

Scale = 1:27.3

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 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 sand truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADIN TCLL TCDL BCLL BCDL	G (psf) 20.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.32 BC 0.20 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 15 lb	GRIP 244/190 FT = 20%
	R-			BRACING-						

LUMBER-TOP CHORD

TOP CHORD2x4 SP No.3BOT CHORD2x4 SP No.3WEBS2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.

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

REACTIONS. (size) 1=3-9-4, 3=3-9-4 Max Horz 1=72(LC 9) Max Uplift 3=-25(LC 12) Max Grav 1=128(LC 1), 3=137(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



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2x4 1/

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LOADING	(psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	IS	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	4	Matrix	(-P						Weight: 4 lb	FT = 20%

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LUMBER-
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TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3

REACTIONS. (size) 1=1-6-9, 2=1-6-9, 3=1-6-9 Max Horz 1=26(LC 12) Max Uplift 2=-20(LC 12) Max Grav 1=44(LC 1), 2=35(LC 19), 3=22(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-6-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11 except (jt=lb) 8=128, 12=127.



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(1) Onderline to the local fract been considered in a costign.
(2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-6-14, Exterior(2) 7-6-14 to 10-6-14, Interior(1) 10-6-14 to 14-8-15 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=124, 8=124.



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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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-9-4, Exterior(2) 5-9-4 to 8-9-4, Interior(1) 8-9-4 to 11-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 7 except (jt=lb) 6=102, 8=103.



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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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 5-2-9, Interior(1) 5-2-9 to 5-8-13, Exterior(2) 5-8-13 to 7-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 5.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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gable end zone and C-C Exterior(2) 0-7-7 to 3-7-7, Interior(1) 3-7-7 to 5-11-12, Exterior(2) 5-11-12 to 8-11-12, Interior(1) 8-11 11-4-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 5, 6, 8.



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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide

will fit 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.



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9 8 7

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.25 BC 0.04 WB 0.03 Matrix-P	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) l/defl n - n/a n - n/a 0 6 n/a	L/d 999 999 n/a	PLATES GRIP MT20 244/190 Weight: 37 lb FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI	2 No.2 2 No.2	·	BRACING- TOP CHORD	Structural wood	l sheathing di icals.	rectly applied or 6-0-0 oc purlins,

BOT CHORD

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

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

REACTIONS. All bearings 6-3-8.

Max Horz 1=129(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 9, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 6, 9, 8, 7

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 6-1-12 zone; cantilever left and right exposed ; end vertical left

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) All plates are 2x4 MT20 unless otherwise indicated.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 6, 9, 8, 7.



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TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3 2x4 SP No.3 WEBS OTHERS 2x4 SP No.3

REACTIONS. (size) 1=4-11-8, 4=4-11-8, 5=4-11-8

Max Horz 1=99(LC 9)

Max Uplift 1=-6(LC 8), 4=-19(LC 9), 5=-66(LC 12) Max Grav 1=79(LC 20), 4=82(LC 19), 5=227(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-9-12 zone; cantilever left and right exposed ; end vertical left

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide

will fit 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) 1, 4, 5.



Structural wood sheathing directly applied or 4-11-8 oc purlins,

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

except end verticals.

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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.29 BC 0.18 WB 0.00 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	GRIP 244/190 FT = 20%
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3 WEBS 2x4 SP No.3

WEBS 2x4 SP No.3 **REACTIONS.** (size) 1=3-7-8, 3=3-7-8 Marking 1 - 62(1-6-2)

Max Horz 1=69(LC 9) Max Uplift 3=-24(LC 12)

Max Grav 1=122(LC 1), 3=131(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



Structural wood sheathing directly applied or 3-7-8 oc purlins,

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

except end verticals.

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 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



2x4 🥢

2x4

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

LOADING(psf)TCLL20.0TCDL10.0BCLL0.0*BCDL10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.05 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/190 Vert(CT) n/a - n/a 999 MT20 244/190 Horz(CT) 0.00 3 n/a n/a Weight: 9 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	SP No.3		BRACING- TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except and verticals

BOT CHORD

BOT CHORD2x4 SP No.3WEBS2x4 SP No.3

REACTIONS. (size) 1=2-3-8, 3=2-3-8 Max Horz 1=39(LC 11) Max Uplift 3=-13(LC 12) Max Grav 1=68(LC 1), 3=74(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



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LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d PLATES GRIP in (loc) 20.0 Plate Grip DOL 1.15 тс Vert(LL) 999 244/190 TCLL 0.05 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a 999 n/a BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 7 lb FT = 20% BRACING-LUMBER-

TOP CHORD

BOT CHORD

TOP CHORD2x4 SP No.3BOT CHORD2x4 SP No.3WEBS2x4 SP No.3

REACTIONS. (size) 1=1-11-13, 3=1-11-13 Max Horz 1=32(LC 11) Max Uplift 3=-11(LC 12)

Max Grav 1=56(LC 1), 3=60(LC 19)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



Structural wood sheathing directly applied or 1-11-13 oc purlins,

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

except end verticals.

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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.22 BC 0.13 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES GRIP MT20 244/190 Weight: 13 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

2x4 SP No.3 2x4 SP No.3 BOT CHORD 2x4 SP No.3 WEBS

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-2-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=3-2-13, 3=3-2-13 (size) Max Horz 1=60(LC 11) Max Uplift 3=-21(LC 12) Max Grav 1=106(LC 1), 3=114(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3.



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	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 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3 2x4 SP No.3 WEBS OTHERS 2x4 SP No.3

REACTIONS. (size) 1=4-7-13, 4=4-7-13, 5=4-7-13

Max Horz 1=92(LC 9) Max Uplift 1=-5(LC 8), 4=-17(LC 9), 5=-61(LC 12)

Max Grav 1=73(LC 20), 4=77(LC 19), 5=211(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-6-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 1, 4, 5.



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BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-7-13 oc purlins, except end verticals.

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





LOADING (ps TCLL 20 TCDL 10 BCLL 0 BCDL 10	rsf)).0).0).0 *).0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC BC WB Matrix	0.19 0.11 0.04 -P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%	
LUMBER- TOP CHORD 2x4 SP No.3					BRACING- TOP CHOR	D	Structur	al wood	sheathing di	rectly applied or 5-6-13	3 oc purlins,		

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=5-6-13, 4=5-6-13, 5=5-6-13

Max Horz 1=112(LC 9) Max Uplift 1=-6(LC 8), 4=-21(LC 9), 5=-75(LC 12)

Max Grav 1=91(LC 20), 4=93(LC 19), 5=259(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 5-5-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 1, 4, 5.



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