

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 32380-32380A 60 SERENITY - ROOF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I53551680 thru I53551712

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



August 10,2022

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.



1			32-11-0		
			32-11-0		
Plate Offsets (X,Y)	[2:0-3-8,Edge], [8:0-3-0,0-3-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.07 BC 0.04 WB 0.15	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	n (loc) l/defl L/d 1 n/r 120 1 n/r 90 21 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 225 lb FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4	SP No.2 or 2x4 SPF No.2 SP No.2 or 2x4 SPF No.2		BRACING- TOP CHORD	Structural wood sheathing dire except end verticals.	ctly applied or 6-0-0 oc purlins,
WEBS 2x4 OTHERS 2x4 SLIDER Left	SP No.3 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 1-5-14		BOT CHORD WEBS	Rigid ceiling directly applied or 1 Row at midpt 11	10-0-0 oc bracing. -30

REACTIONS. All bearings 32-11-0.

(lb) - Max Horz 2=136(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 32, 33, 35, 36, 37, 38, 39, 29, 27, 26, 25, 24, 23, 22 Max Grav All reactions 250 lb or less at joint(s) 21, 2, 30, 31, 32, 33, 35, 36, 37, 38, 39, 29, 27, 26, 25, 24, 23, 22

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

TOP CHORD 10-11=-120/284, 11-12=-120/284

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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

- 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 2, 31, 32, 33, 35, 36, 37, 38, 39, 29, 27, 26, 25, 24, 23, 22.







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, 11.

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

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

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

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- 5) * This truss has been designed for a live load of 20.0pst on the bottom chord in all areas where a rectangle 3-6-0 fall by 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, 12.

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- will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.

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30-11-0 30-11-0

Plate Offsets (X,Y)	[2:0-3-8,Edge], [7:0-3-0,0-3-0], [28:0-3-0	,0-3-0]			
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 0.05 BC 0.04 WB 0.15 Matrix-S	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	i (loc) l/defl L/d 1 n/r 120 1 n/r 90 20 n/a n/a	PLATES GRIP MT20 197/144 Weight: 194 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S OTHERS 2x4 S SLIDER Left 2	P No.2 or 2x4 SPF No.2 P No.2 or 2x4 SPF No.2 P No.3 P No.2 or 2x4 SPF No.2 x4 SP No.3 1-5-14		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.
REACTIONS. All b	pearings 30-11-0.				

(lb) - Max Horz 2=119(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21 All reactions 250 lb or less at joint(s) 20, 2, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, Max Grav 22 21

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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) Gable studs spaced at 2-0-0 oc.

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

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 2, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21.







L	10-7-14	I	20-3-2	1	30-11-0
	10-7-14	I	9-7-4	1	10-7-14
Plate Offsets (X,Y)	[2:0-0-0,0-0-9], [8:Edge,0-0-9]				
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 0.90 BC 0.52 WB 0.20 Matrix-MS	DEFL. in (loc) Vert(LL) -0.19 9-11 Vert(CT) -0.29 9-11 Horz(CT) 0.05 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 168 lb FT = 20%
LUMBER- TOP CHORD 2x4 \$	SP No.2 or 2x4 SPF No.2		BRACING- TOP CHORD Structure	ral wood sheathing dired	ctly applied.

BOT CHORD

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

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x4 SP No.2 or 2x4 SPF No.2

 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 8=Mechanical Max Horz 2=123(LC 14) Max Uplift 2=-83(LC 10), 8=-68(LC 11) Max Grav 2=1292(LC 1), 8=1236(LC 1)

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

TOP CHORD 2-3=-2091/376, 3-5=-1828/384, 5-7=-1831/386, 7-8=-2094/379

BOT CHORD 2-11=-247/1782, 9-11=-62/1201, 8-9=-249/1786

WEBS 5-9=-94/696, 7-9=-453/244, 5-11=-90/692, 3-11=-452/243

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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) 2, 8.







	L	10-7-14		20-3-2	1	30-11-0
	I	10-7-14	I	9-7-4		10-7-14
Plate Offs	sets (X,Y)	[2:0-0-0,0-0-9], [8:Edge,0-0-9]				
	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 0.90	Vert(LL) -0.18 10-12	>999 240	MT20 197/144
FCDL	10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.28 10-12	>999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.05 8	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS			Weight: 170 lb FT = 20%
	10.0	Code IRC2015/1PI2014	Matrix-MS	BRACING-		Weight: 170 lb F I = 2
TOP CHO	- DRD 2x4 S	SP No.2 or 2x4 SPF No.2		TOP CHORD Struct	tural wood sheathing dir	ectly applied.

BOT CHORD

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

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x4 SP No.2 or 2x4 SPF No.2

 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 8=0-3-8 Max Horz 2=-116(LC 11) Max Uplift 2=-83(LC 10), 8=-83(LC 11) Max Grav 2=1292(LC 1), 8=1292(LC 1)

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

TOP CHORD 2-3=-2089/375, 3-5=-1826/383, 5-7=-1826/383, 7-8=-2089/375

BOT CHORD 2-12=-219/1781, 10-12=-35/1200, 8-10=-219/1781

WEBS 5-10=-91/686, 7-10=-451/243, 5-12=-91/686, 3-12=-451/243

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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) 2, 8.







TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 13-7-0.

(lb) -Max Horz 19=160(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 14 except 18=-127(LC 10), 13=-125(LC 11)

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

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

NOTES-

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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).
- Gable studs spaced at 2-0-0 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 17, 14 except (jt=lb) 18=127, 13=125.



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



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Job	Truss	Truss Type	Qty	Ply	60 SERENITY - ROOF	
						153551689
32380-32380A	C2G	Common Girder	1	2		
				_	Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,		8	3.610 s Jul	18 2022 MiTek Industries, Inc. Mon Aug 8 21:23:31 2022	Page 2
		ID:MZhk	5Z0e?OV	dVqlZdr5xT	Xypp1p-NNNq44FfMWvCCfVqQnyHDVQS2yZDjtn_xjGp8	xypnnQ

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 19=-1216(F) 20=-1216(F) 21=-1216(F) 22=-1216(F) 23=-1216(F) 24=-1216(F)





 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.2 or 2x4 SPF No.2

 OTHERS
 2x4 SP No.2 or 2x4 SPF No.2

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

REACTIONS. All bearings 13-5-0.

(lb) - Max Horz 19=-189(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 17, 14 except 19=-135(LC 6), 12=-128(LC 7), 18=-155(LC 7), 13=-150(LC 6)

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

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 2-0-0 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 14 except (jt=lb) 19=135, 12=128, 18=155, 13=150.





Job	Truss	Truss Type	Qty	Ply	60 SERENITY - ROOF	-		
32380-32380A	C4G	Common Girder	1	2	Job Reference (options	SD		
84 Components (Dunn),	Dunn, NC - 28334,		8	.610 s Jul	18 2022 MiTek Industri	es, Inc. Mon Aug 8 21:23:34 2022 Page 1		
	1	ID:Mz 3-1-11 6-8-8	hk5Z0e?O 10-3-5	VdVqlZdr	5xTXypp1p-oy3zj5HXfR 13-5-0	Hn37EP5wV_r823w9fTwFxQdhVTlGypnnN		
	·	3-1-11 ' 3-6-13 '	3-6-13	'	3-1-11			
		4x6				Scale = 1:45.2		
	₹ 1 2 4x8 %	10.00 12 3x6 ≁ 2			3x6 № 4 4x8 № 5			
	5-0.3		3	14 7		ο. Ο Ο		
	4xi	5 6x8 = 7x10 =	10.0.5	6×	(8 = 4x6			
		3-1-11 $6-8-83-1-11$ $3-6-13$	3-6-13		3-1-11			
	:0-3-8,0-4-4], [8:0-5-0,0-4-4], [8	9:0-3-8;0-4-4]						
LOADING (pst) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NC	CSI. DEFL. TC 0.18 Vert(LL) BC 0.63 Vert(CT) WB 0.42 Horz(C)	in -0.03) -0.06 T) 0.01	(loc) 7-8 7-8 6	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 197/144		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS				Weight: 222 lb F I = 20%		
LUMBER- TOP CHORD 2x4 SP N BOT CHORD 2x6 SP N WEBS 2x4 SP N 1-10,5-6:	Io.2 or 2x4 SPF No.2 Io.2 Io.2 or 2x4 SPF No.2 *Except* 2x6 SP No.2	BRACIN TOP CH BOT CH	ig- Iord Iord	Structur except e Rigid ce	al wood sheathing dire and verticals. iling directly applied or	ctly applied or 6-0-0 oc purlins, 10-0-0 oc bracing.		
REACTIONS. (size) Max Hor Max Upli Max Gra	10=0-5-8, 6=0-5-8 z 10=-169(LC 4) ift 10=-252(LC 9), 6=-225(LC 8 v 10=4599(LC 1), 6=4142(LC) 1)				TH CARO		
FORCES. (lb) Max. C TOP CHORD 1-2=-32 5-6=-33 BOT CHORD 9-10=-7 WEBS 3-8=-24 5-7=-1	omp./Max. Ten All forces 25(180/228, 2-3=-2914/248, 3-4=- 766/219 163/257, 8-9=-200/2625, 7-8=- 10/3413, 4-8=-647/132, 4-7=-8 42/2884) (lb) or less except when shown. 2914/248, 4-5=-3439/226, 1-10=-3779/220, 136/2594 7/701, 2-8=-695/135, 2-9=-91/765, 1-9=-140/28	58,		(Contraction of the second sec	SEAL 036322		
NOTES- 1) 2-ply truss to be connected Top chords connected Bottom chords connect Webs connected as fo 2) All loads are considered	NOTES- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.							
 ply connections have I 3) Unbalanced roof live Id 4) Wind: ASCE 7-10; Vul gable end zone; cantil 5) This truss has been de 6) * This truss has been de 6) * This truss has been de 7) Provide mechanical control 7) Provide mechanical control 7) Provide mechanical control 7) Provide mechanical control 8) Hanger(s) or other control 1-4-4, 1283 lb down and down and 83 lb up at 	been provided to distribute only bads have been considered for t=120mph Vasd=95mph; TCDI ever left and right exposed ; er assigned for a 10.0 psf bottom c designed for a live load of 20.0 tom chord and any other memi ponnection (by others) of truss to annection device(s) shall be prov- nd 83 lb up at 3-4-4, 1283 lb d 9-4-4, and 1290 lb down and 8	 loads noted as (F) or (B), unless otherwise inc this design. =6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; I d vertical left and right exposed; Lumber DOL= hord live load nonconcurrent with any other live psf on the bottom chord in all areas where a recovers. bearing plate capable of withstanding 100 lb unided sufficient to support concentrated load(s) pown and 83 lb up at 5-4-4, 1283 lb down and 84 lb up at 11-4-4 on bottom chord. The design 	icated. Enclosed; 1.60 plate loads. ctangle 3-6 plift at join 1283 lb do 3 lb up at /selection	MWFRS grip DOL 5-0 tall by t(s) excep wn and 8 7-4-4, ar of such c	(envelope) =1.60 2-0-0 wide pt (jt=lb) 13 lb up at td 1283 lb connection			
device(s) is the respor	nsibility of others.					August 10 2022		
Continued on page 2						August 10,2022		
			E 14 0 10 000 E		-			



Job	Truss	Truss Type	Qty	Ply	60 SERENITY - ROOF	
						153551691
32380-32380A	C4G	Common Girder	1	2		
				_	Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,		8	3.610 s Jul	18 2022 MiTek Industries, Inc. Mon Aug 8 21:23:34 2022	Page 2
		ID:MZ	hk5Z0e?C	VdVqlZdr5	ixTXypp1p-oy3zj5HXfRHn37EP5wV_r823w9fTwFxQdhVTI	GypnnN

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 9=-1283(F) 11=-1283(F) 12=-1283(F) 13=-1283(F) 14=-1283(F) 15=-1290(F)





Plate Offsets (X,Y)--[14:0-4-3,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 тс 0.08 Vert(LL) -0.00 14 n/r 120 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) -0.00 14 90 n/r WB BCLL 0.0 Rep Stress Incr YES 0.10 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 132 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 except end verticals. 2x4 SP No.3 BOT CHORD WFBS Rigid ceiling directly applied or 6-0-0 oc bracing. OTHERS 2x4 SP No.3 *Except* 7-22: 2x4 SP No.2 or 2x4 SPF No.2 SLIDER Right 2x4 SP No.3 1-6-8 REACTIONS. All bearings 21-7-0. Max Horz 27=-112(LC 8) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 27, 23, 24, 25, 26, 20, 19, 18, 17,

16, 14 Max Grav All reactions 250 lb or less at joint(s) 27, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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) Gable studs spaced at 2-0-0 oc.

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

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 27, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14.



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		9-1-13		0-0-0	2		5-	0-13	
Plate Offsets (X	,Y) [7:0-3-11,0-0-3]								
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/TF	2-0-0 (1.15 - 1.15 H YES N Pl2014 H	CSI. TC 0.62 BC 0.73 WB 0.50 Matrix-MS	DEFL. Vert(LL) - Vert(CT) - Horz(CT)	in (loc) 0.17 11-12 0.35 11-12 0.04 7	l/defl >999 2 >743 1 n/a	L/d 240 80 n/a	PLATES MT20 Weight: 118 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS SLIDER REACTIONS.	2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 *E 2-12: 2x4 SP No.3 Right 2x4 SP No.3 1-6-0 (size) 12=0-5-8, 7=0-5-8 Max Horz 12=-117(LC 8) Max Uplift 12=-51(LC 10), 7=-7(Max Grav 12=922(LC 1), 7=912	Except* 0(LC 11) 2(LC 1)		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	ural wood she end verticals æiling directly	eathing direct s. y applied or 1	lly applied or 4-5-7 o 0-0-0 oc bracing.	c purlins,
FORCES. (lb) TOP CHORD BOT CHORD WEBS	- Max. Comp./Max. Ten All for 3-4=-873/208, 4-5=-894/202, 5 11-12=-61/655, 9-11=-125/116 4-11=-29/434, 5-11=-520/172,	ces 250 (lb) or less ex i-7=-1356/242 i3, 7-9=-125/1163 3-12=-910/157	cept when shown.						

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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) 12, 7.



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



			12-0-8 12-0-8					
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 0.18 BC 0.12 WB 0.05 Matrix-S	DEFL. Vert(LL) 0 Vert(CT) 0 Horz(CT) 0	in (loc) .00 7 .01 7 .00 6	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	P No.2 or 2x4 SPF No.2		BRACING- TOP CHORD	Structu	ral wood	sheathing di	irectly applied or 6-0-0	oc purlins.

BOT CHORD

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

OP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 OTHERS

All bearings 12-0-8.

REACTIONS. Max Horz 2=-33(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=328(LC 1), 8=328(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 2, 6, 10, 8.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.







		6-0-4				6-0-4		
LOADING (p TCLL 2 TCDL 1 BCLL BCDL 1	psf) 20.0 0.0 0.0 * 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.44 BC 0.38 WB 0.10 Matrix-MS	DEFL. in Vert(LL) -0.04 Vert(CT) -0.07 Horz(CT) 0.01	(loc) l/defl 6-12 >999 6-12 >999 4 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 43 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORE BOT CHORE WEBS	D 2x4 SP D 2x4 SP 2x4 SP 2x4 SP	No.2 or 2x4 SPF No.2 No.2 or 2x4 SPF No.2 No.3		BRACING- TOP CHORD BOT CHORD	Structural wood Rigid ceiling dire	sheathing dir ctly applied c	ectly applied or 5-7-8 or 10-0-0 oc bracing.	oc purlins.
REACTIONS	5. (size Max He Max Uj Max G	e) 2=0-4-8, 4=0-4-8 orz 2=-33(LC 15) plift 2=-65(LC 6), 4=-65(LC 7) rav 2=534(LC 1), 4=534(LC 1)						
FORCES. ((lb) - Max.	Comp./Max. Ten All forces 250 (lb) o	or less except when shown.					

TOP CHORD 2-3=-826/171, 3-4=-826/171 BOT CHORD 2-6=-91/730, 4-6=-91/730

WEBS 3-6=0/256

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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) 2, 4.



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			6-5-8	1
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 0.64 BC 0.44 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.06 4-7 >999 240 Vert(CT) -0.16 4-7 >476 180 Horz(CT) 0.02 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 24 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF	P No.2 or 2x4 SPF No.2	<u> </u>	BRACING- TOP CHORD Structural wood sheathing dire	ectly 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 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 WFBS

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

Max Horz 2=86(LC 9)

Max Uplift 2=-53(LC 6), 4=-34(LC 10)

Max Grav 2=311(LC 1), 4=249(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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, 4.







Max Horz 2=85(LC 7) Max Uplift 2=-28(LC 6), 7=-32(LC 10), 8=-29(LC 10)

Max Grav 2=149(LC 1), 7=279(LC 1), 8=132(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 2-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7, 8.



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		7-11-8	
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.41 Lumber DOL 1.15 BC 0.56	DEFL. in (loc) I/defl L/d Vert(LL) -0.12 5-8 >803 240 Vert(CT) -0.23 5-8 >401 180	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES WB 0.16 Code IRC2015/TPI2014 Matrix-MP	Horz(CT) 0.01 2 n/a n/a	Weight: 37 lb FT = 20%
LUMBER-		BRACING-	

LUNBER-

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

 WEDGE
 Left: 2x4 SP No.3

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=0-3-8, 5=Mechanical Max Horz 2=104(LC 9) Max Uplift 2=-58(LC 6), 5=-42(LC 10)

Max Grav 2=371(LC 1), 5=309(LC 1)

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

TOP CHORD	2-3=-448/170
BOT CHORD	2-5=-145/411
WEBS	3-5=-440/204

NOTES-

 Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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, 5.







			7-7-8			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.88 BC 0.69 WB 0.00	DEFL. ir Vert(LL) -0.14 Vert(CT) -0.32 Horz(CT) 0.00	n (loc) l/defl L/d 4-7 >642 240 4-7 >277 180 2 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		2 1.74 1.74	Weight: 28 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	2 No.2 or 2x4 SPF No.2 2 No.2 or 2x4 SPF No.2	· · ·	BRACING- TOP CHORD	Structural wood sheathing dire except end verticals.	ctly applied or 2-2-0	oc purlins,
WEBS 2x4 SF	° No.3		BOT CHORD	Rigid ceiling directly applied or	10-0-0 oc bracing.	

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

Max Horz 2=96(LC 9) Max Uplift 2=-61(LC 6), 4=-39(LC 10)

Max Grav 2=363(LC 1), 4=295(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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, 4.







LOADING (ps TCLL 20. TCDL 10. BCLL 0. BCDL 10.	sf)).0).0).0 *).0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.15 1.15 YES 12014	CSI. TC BC WB Matri>	0.14 0.10 0.04 <-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 -0.00	(loc) 1 1 6	l/defl n/r n/r n/a	L/d 120 90 n/a	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP 2x4 SP 2x4 SP 2x4 SP 2x4 SP	No.2 or 2x4 SPF No.2 No.2 or 2x4 SPF No.2 No.3 No.3				BRACING- TOP CHOF BOT CHOF	D D	Structur except Rigid ce	al wood end verti eiling dire	sheathing di cals. ctly applied	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 7-7-8.

(lb) - Max Horz 2=96(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=276(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 2-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.







Max Grav 5=6(LC 10), 2=220(LC 1), 6=370(LC 1)

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 2-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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 **MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-274/183



2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 OTHERS

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-4-13.

Max Horz 1=25(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=276(LC 1), 6=276(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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, 5, 8, 6.







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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.







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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=126, 6=126.







	0-Ö-5		9-7-9				I	
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 0.28 BC 0.20 WB 0.06 Matrix-S	DEFL. Vert(LL) n Vert(CT) n Horz(CT) 0.0	in (loc) /a - /a - 00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 37 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 S	SP No.2 or 2x4 SPF No.2	<u> </u>	BRACING- TOP CHORD	Struct	ural wood	sheathing di	rectly applied or 6-0-0	oc purlins.

BOT CHORD

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

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 OTHERS
 2x4 SP No.3

REACTIONS. (size) 1=9-7-4, 3=9-7-4, 4=9-7-4

Max Horz 1=-78(LC 6)

Max Uplift 1=-18(LC 11), 3=-28(LC 11)

Max Grav 1=187(LC 1), 3=187(LC 1), 4=333(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.







REACTIONS. (size) 1=7-2-7, 3=7-2-7, 4=7-2-7

Max Horz 1=-57(LC 6)

Max Uplift 1=-21(LC 11), 3=-28(LC 11)

Max Grav 1=148(LC 1), 3=148(LC 1), 4=220(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.







REACTIONS. (size) 1=4-9-11, 3=4-9-11, 4=4-9-11

Max Horz 1=-36(LC 6)

Max Uplift 1=-13(LC 11), 3=-17(LC 11)

Max Grav 1=93(LC 1), 3=93(LC 1), 4=138(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.







3x6 1/

YES

3x6 🚿

0.00

3

n/a

n/a

Structural wood sheathing directly applied or 2-5-7 oc purlins.

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

Weight: 7 lb

FT = 20%

			0- <u>0-5</u> 0-0-5		2-5-7 2-5-3				
Plate Offse	ets (X,Y)	[2:0-3-0,Edge]							
LOADING TCLL TCDL	(psf) 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.01 BC 0.03	DEFL. Vert(LL) Vert(CT)	in (loc) l n/a - n/a -	/defl L/d n/a 999 n/a 999	PLATES MT20	GRIP 197/144

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCLL

BCDL

0.0

10.0

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

REACTIONS. (size) 1=2-4-14, 3=2-4-14 Max Horz 1=-14(LC 6)

Max Uplift 1=-2(LC 10), 3=-2(LC 11) Max Grav 1=66(LC 1), 3=66(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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

WB

Matrix-P

0.00

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.







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, 5 except (jt=lb) 8=127.6=126.







	0-0-5		9-5-9					
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.27 BC 0.19	DEFL. in Vert(LL) n/a Vert(CT) n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.00	3	n/a	n/a	Weight: 36 lb	FT = 20%
LUMBER- TOP CHORD 2x4 S	P No.2 or 2x4 SPF No.2		BRACING- TOP CHORD	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins.

BOT CHORD

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

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 OTHERS
 2x4 SP No.3

REACTIONS. (size) 1=9-5-4, 3=9-5-4, 4=9-5-4

Max Horz 1=76(LC 9)

Max Uplift 1=-18(LC 11), 3=-28(LC 11)

Max Grav 1=184(LC 1), 3=184(LC 1), 4=327(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.







2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 OTHERS

REACTIONS. (size) 1=7-0-7, 3=7-0-7, 4=7-0-7

Max Horz 1=55(LC 9) Max Uplift 1=-20(LC 11), 3=-27(LC 11)

Max Grav 1=144(LC 1), 3=144(LC 1), 4=214(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.







3x6 🥢

0-Q-5

3x6 🚿

Plate Offsets (X,Y)	0-0-5 [2:0-3-0,Edge]		4-7-15	
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 0.07 BC 0.18 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 197/144 Weight: 15 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP	P No.2 or 2x4 SPF No.2 No.2 or 2x4 SPF No.2		BRACING- TOP CHORD Structural wood sheathing d BOT CHORD Rigid ceiling directly applied	irectly applied or 4-8-4 oc purlins. or 10-0-0 oc bracing.

4-8-4

REACTIONS. (size) 1=4-7-11, 3=4-7-11 Max Horz 1=34(LC 7) Max Uplift 1=-6(LC 10), 3=-6(LC 11) Max Grav 1=155(LC 1), 3=155(LC 1)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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.





