

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21057A 240.3174.C.20x10CVP

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: I37333728 thru I37333772

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



June 6,2019

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.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x6 SP No.2OTHERS2x4 SP No.3WEDGE

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

REACTIONS. All bearings 11-4-0.

(lb) - Max Horz 2=-108(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 5-8-0, Corner(3) 5-8-0 to 8-8-0, Exterior(2) 8-8-0 to 12-2-8 zone; 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, 13, 14, 11, 10.



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

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





Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	240.3174.C.20x10CVP	
					1373	333729
21057A	AG	Common Girder	1	2		
				_	Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,		8.	240 s May	13 2019 MiTek Industries, Inc. Wed Jun 5 16:24:28 2019 Pag	e 2

8.240 s May 13 2019 MiTek Industries, Inc. Wed Jun 5 16:24:28 2019 Page ID:B_Q7f7Biu7XlherXjarx6dzmHHa-LXEjS2mdqz03Ho5MefAY?J2iKlv6snBskyWifKz9HFn

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 7=-3899(B) 9=-1605(B)





June 6,2019

ENGINEERING BY REENCO A MITEK ATTILLE 818 Soundside Road Edenton, NC 27932



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANS/TPH Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932

1							
	Job	Truss	Truss Type	Qty	Ply	240.3174.C.20x10CVP	
					-		137333731
	21057A	BG	Common Girder	1	ົ		
					_	Job Reference (optional)	
	84 Components (Dunn),	Dunn, NC - 28334,		8.2	240 s May	13 2019 MiTek Industries, Inc. Wed Jun 5 16:24:31 2019	Page 2
			ID:B	Q7f7Biu7)	KlherXjarx	6dzmHHa-I6ws43oW7uPe8GqxJnjFdygBeV0X34DJQwkMf	fz9HFk

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 7=-2483(B) 9=-1626(B) 10=-1626(B) 11=-1626(B) 12=-1626(B) 13=-1626(B) 14=-1626(B) 15=-1626(B)





0-0 <u>-4</u> 0-0-4 Plate Offsets (X, Y	10-0-0 9-11-12 ') [2:0-3-2,Edge], [6:0-3-2,Edge], [8:0-4-8,0	D-3-0]					<u>19-11-12</u> 9-11-12		<u>20-</u> 0-0 0-0-4
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 0.77 BC 0.80 WB 0.25 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.34 -0.41 0.05	(loc) 6-8 2-8 6	l/defl >687 >579 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 83 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3		BRACING- TOP CHOR BOT CHOR	:D :D	Structu Rigid c	ıral wooc eiling dir	l sheathing dire ectly applied o	ectly applied or 3-10- r 5-4-15 oc bracing.	7 oc purlins.	
REACTIONS. (lb/size) 2=850/0-3-8, 6=850/0-3-8 /ax Horz 2=61(LC 12) /ax Uplift 2=-333(LC 8), 6=-333(LC 9)								
FORCES. (Ib) - TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1802/1165, 3-4=-1342/1020, 4-5=-1342/ 2-8=-1060/1672, 6-8=-1067/1672 4-8=-539/583, 5-8=-496/252, 3-8=-496/251	less except when shown. 1020, 5-6=-1802/1165							
NOTES-									

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 zone; porch 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) except (jt=lb) 2=333, 6=333.







			19-11-12 19-11-12						<u> </u>
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 0.17 BC 0.12 WB 0.04 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.01 0.00	(loc) 11 11 10	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 85 lb	GRIP 244/190 FT = 20%
LUMBER-			BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 19-11-8. Max Horz 2=61(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 18, 14, 13, 12, 10

All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=315(LC 23), 12=315(LC Max Grav 24)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 20-10-8 zone; porch 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 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, 16, 17, 18, 14, 13, 12, 10.



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

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





	:	5-8-6 I	11-2	-13	2	.0-10-0	1	اک	0-5-3		1	35-9-2	41	-4-8	
I	ę	5-8-6	5-6	-7		9-7-3		g	9-7-3			5-3-14	5-	7-6	
Plate Offsets (X	<,Y)	[4:0-4-0,0-4-8]													
LOADING (psf TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	f) 0 0 0 * 0	SPACIN Plate Gr Lumber Rep Stro Code IF	IG- rip DOL DOL ess Incr RC2015/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.61 0.86 0.67 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.22 -0.44 0.14	(loc) 9 7-9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLAT MT20 Weigh	ES nt: 250 lb	GRIP 244/190 FT = 20%	
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP 3-4,4-5 2x6 SP 2x4 SP	DSS *Except* : 2x6 SP No.2 No.2 No.3					BRACING- TOP CHOF BOT CHOF WEBS	RD RD	Structu except 2-0-0 o Rigid c 1 Row	ral wood oc purlins eiling dire at midpt	sheathing c (3-8-6 max. ectly applied	lirectly applied .): 3-5. l or 10-0-0 oc t 4-11, 4-7	or 3-8-11 pracing.	oc purlins,	

- REACTIONS. (lb/size) 6=1646/Mechanical, 2=1695/0-3-8 Max Horz 2=85(LC 12) Max Uplift 6=-179(LC 9), 2=-202(LC 8)
 - ____
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3360/489, 3-4=-2963/521, 4-5=-2927/512, 5-6=-3302/479

- BOT CHORD 2-11=-356/2982, 9-11=-490/3779, 7-9=-490/3779, 6-7=-337/2946
- WEBS 3-11=0/746, 4-11=-1093/210, 4-9=0/343, 4-7=-1126/214, 5-7=0/757

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-7-14 to 3-5-12, Interior(1) 3-5-12 to 11-2-13, Exterior(2) 11-2-13 to 17-1-0 , Interior(1) 17-1-0 to 30-5-3, Exterior(2) 30-5-3 to 36-3-7, Interior(1) 36-3-7 to 41-3-12 zone; 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) except (jt=lb) 6=179, 2=202.

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







Job	Truss	Truss Type	Qty	Ply	240.3174.C.20x10CVP
21057A	H1A	ROOF SPECIAL GIRDER	1	2	I3733373 Job Reference (optional)
					0.040 - Ann. 0.0040 Mittable dustrias last. Thus has 0.45:45:07.0040. Date 0.

ID:B_Q7f7Biu7XlherXjarx6dzmHHa-0Km7MJamqjG5VX6Ay7wibv0gd_5hXzsc3NIFUez8ykM

NOTES-

- 5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 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) Refer to girder(s) for truss to truss connections.
- 11) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 714 lb uplift at joint 1 and 1001 lb uplift at joint 10.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use USP JUS24 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 30-2-12 from the left end to 40-2-12 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down at 2-2-12 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: 1-2=-81, 2-4=-60, 4-7=-60, 7-8=-60, 8-9=-60, 2-17=-20, 10-15=-20
- Concentrated Loads (lb)
 - Vert: 4=-115(F) 2=-65(F) 18=-74(F) 21=-126(F) 22=-110(F) 23=-94(F) 24=-69(F) 25=-44(F) 26=-115(F) 27=-119(F) 28=-119(F) 29=-119(F) 30=-119(F) 31=-119(F) 32=-119(F) 33=-119(F) 3





11

2x4 ||

21

10

5x9 =

9

2x4 ||

20

12

5x12 =

	7-3-9	14-5-3	20-10-0	27-2-13	3 ,	34-1-14	41-4-8	
	7-3-9	7-1-10	6-4-13	6-4-13	1	6-11-2	7-2-10	1
Plate Offsets (X,Y)	[2:0-0-0,0-1-6], [2:0-1-1	1,0-6-0], [3:0-4-4,0	-3-0], [6:0-3-0,0-3-4], [10	0:0-4-8,0-3-0], [12:0-5-	0,0-3-0]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. i	n (loc) l/c	defl L/d	PLATES	GRIP
TCDL 10.0 BCU 0.0 *	Lumber DOL Rep Stress Incr	1.15 1.15 YES	BC 0.84 WB 0.73	Vert(CT) -0.48	8 11-12 >9 8 8 8	999 180 n/a n/a	WI 20	244/190
BCDL 10.0	Code IRC2015/	PI2014	Matrix-S			.,a .,a	Weight: 225 lb	FT = 20%
LUMBER- TOP CHORD 2x4 S 3-4: 2 BOT CHORD 2x4 S 10-12 WEBS 2x4 S WEDGE Left: 2x4 SP No.3	SP No.2 *Except* 2x4 SP No.1, 6-8: 2x6 SP SP No.1 *Except* 2: 2x4 SP No.2 SP No.3	No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural v 2-0-0 oc pu Rigid ceilin 1 Row at m	wood sheathing dir ırlins (3-0-3 max.): g directly applied c hidpt 5	ectly applied, except 4-6. or 9-9-0 oc bracing. -12, 5-10	
REACTIONS. (Ib/si Max Max	ze) 8=1646/Mechanica Horz 2=107(LC 16) Uplift 8=-145(LC 13), 2=-	, 2=1709/0-3-8 171(LC 8)						
FORCES. (lb) - Max TOP CHORD 2-3: 7-8:	x. Comp./Max. Ten All fr =-3466/512, 3-4=-2814/47 =-3428/504	orces 250 (lb) or le 74, 4-5=-2508/481,	ss except when shown. 5-6=-2507/474, 6-7=-28	315/470,				
BOT CHORD 2-1 8-9	3=-413/3082, 12-13=-407 =-399/3065	/3092, 11-12=-306	/2817, 10-11=-306/2817	7, 9-10=-399/3065,				
WEBS 3-1 6-1	3=0/308, 3-12=-641/223, 0=-39/689, 7-10=-619/225	4-12=-30/683, 5-12 5, 7-9=0/297	2=-584/98, 5-11=0/304, 5	5-10=-577/95,				
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-10; MWFRS (envelope Interior(1) 20-37 t for reactions show	ve loads have been consi Vult=130mph (3-second e) gable end zone and C- o 27-2-13, Exterior(2) 27- o 1 umber DQI =1 60 ptet	dered for this desig gust) Vasd=103mp C Exterior(2) -0-10 2-13 to 33-1-0, Inte e grip DOI =1 60	gn. h; TCDL=6.0psf; BCDL: •8 to 3-3-2, Interior(1) 3- erior(1) 33-1-0 to 41-3-12	=6.0psf; h=30ft; Cat. II; 3-2 to 14-5-3, Exterior(2 zone;C-C for membe	Exp B; Enclo (2) 14-5-3 to 2 rs and forces	osed; 20-3-7, & MWFRS	America	CAROLIN
3) Provide adequate	drainage to prevent water	nonding						40000

13

2x4 ||

- 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.

α1 9 0 \square 髾

> 4x6 = 3x7 ||

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=145.2=171.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



0-7-15

4x6 =







2-3-8 14-10-0 20-0-0 32-1-3 37-10-13 41-4-8 8-6-12 26-3-10 15-4-6 6-3-4 0-6-6 2-3-8 6-3-4 4-7-10 6-3-10 5-9-10 5-9-10 3-5-11 Plate Offsets (X,Y)--[2:0-8-1,0-0-2], [20:0-5-12,0-4-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 тс 0.90 Vert(LL) -0.30 20-21 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.80 Vert(CT) -0.61 20-21 >805 180 BCLL 0.0 Rep Stress Incl YES WВ 0.98 0.28 Horz(CT) 12 n/a n/a Code IRC2015/TPI2014 BCDL FT = 20% 10.0 Matrix-S Weight: 293 lb LUMBER-BRACING-2x4 SP No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-0-2 oc purlins, 4-6: 2x6 SP No.2, 1-4: 2x6 SP DSS except end verticals, and 2-0-0 oc purlins (2-7-6 max.): 6-8, 10-11. BOT CHORD 2x6 SP No.2 *Except* BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing. 2-23: 2x8 SP No.2, 3-22: 2x6 SP DSS, 16-18,12-16: 2x4 SP No.2 WEBS 1 Row at midpt 5-20 WEBS 2x4 SP No.3 *Except* 11-13: 2x4 SP No.2 OTHERS 2x6 SP DSS LBR SCAB 1-4 2x6 SP DSS one side REACTIONS. (lb/size) 12=1625/Mechanical, 2=1704/0-3-8 Max Horz 2=151(LC 12) Max Uplift 12=-165(LC 9), 2=-177(LC 12) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-607/64, 3-5=-4432/584, 5-6=-3165/467, 6-7=-2575/441, 7-8=-2571/441, TOP CHORD 8-9=-2625/416, 9-10=-3069/420, 10-11=-2641/313, 11-12=-1581/215 BOT CHORD 3-21=-551/4157, 20-21=-551/4157, 19-20=-64/262, 15-17=-255/2358, 14-15=-344/2782, 13-14=-333/2754 WEBS 5-21=0/377, 5-20=-1429/301, 17-19=-662/178, 7-19=-415/173, 8-17=-71/459, 8-15=-36/469, 9-15=-533/183, 10-13=-1420/242, 11-13=-351/2993, 6-20=-85/1158, 6-19=-352/98. 17-20=-262/2367 WORTH CAA NOTES-ORTH 1) Attached 7-9-10 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-6-15 \cap from end at joint 1, nail 2 row(s) at 3" o.c. for 5-1-9; starting at 5-9-5 from end at joint 1, nail 2 row(s) at 3" o.c. for 2-0-0. 2) Unbalanced roof live loads have been considered for this design. 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-7-14 to 3-5-12, Interior(1) 3-5-12 to 15-4-6, Exterior(2) 15-4-6 to 19-6-1,

Interior(1) 19-6-1 to 26-3-10, Exterior(2) 26-3-10 to 30-5-4, Interior(1) 30-5-4 to 41-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 4) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=165

9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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

📣 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 being read to be only with thread outpetting the boots into besign is based only door parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.







	L	8-10-12	15-4-14	17-7-10 ₁	24-0-6	26-4-14	33-6-0	41-4-8	
	I	8-10-12	6-6-2	2-2-12	6-4-13	2-4-8	7-1-2	7-10-8	
LOADING TCLL TCDL BCLL	(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 0.73 BC 0.98 WB 0.48	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.46 11-13 -0.64 11-13 0.11 10) l/defl L/d 3 >999 240 3 >772 180 0 n/a n/a	PLATES G MT20 2	RIP 44/190
BCDL	10.0	Code IRC2015/TP	12014	Matrix-S				Weight: 269 lb	FT = 20%
LUMBER- TOP CHOR	RD 2x6 \$ 4-6,1	SP No.2 *Except* I-4: 2x4 SP No.2			BRACING- TOP CHOR	D Struc 2-0-0	tural wood sheathing oc purlins (4-7-8 ma	g directly applied or 2-7-4 oc p ax.): 6-7.	ourlins, except
BOT CHOR	RD 2x6 \$ 12-1	SP No.2 *Except* 7: 2x6 SP DSS			BOT CHOR	D Rigid 2-2-0	ceiling directly appli oc bracing: 11-13.	ed or 10-0-0 oc bracing, Exc	cept:
WEBS	2x4 \$	SP No.3			WEBS	1 Ro	w at midpt	9-13	
REACTION	IS. (lb/s Max	ize) 2=1709/0-3-8, 10=164 Horz 2=130(LC 12)	46/Mechanical						

Max Uplift 2=-198(LC 12), 10=-175(LC 13)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-3478/500, 3-5=-3226/477, 5-6=-2698/477, 6-7=-2248/464, 7-9=-2736/456,
- 9-10=-3492/509
- BOT CHORD
 2-18=-424/3107, 16-18=-323/2741, 13-16=-217/2247, 11-13=-405/3141, 10-11=-405/3141

 WEBS
 3-18=-251/182, 5-18=-90/492, 5-16=-656/268, 9-13=-996/386, 9-11=0/308,
 - 6-16=-29/728, 7-13=0/632

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-3-2, Interior(1) 3-3-2 to 17-7-10, Exterior(2) 17-7-10 to 23-5-13, Interior(1) 23-5-13 to 24-0-6, Exterior(2) 24-0-6 to 29-10-10, Interior(1) 29-10-10 to 41-3-12 zone;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) All plates are 4x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=198, 10=175.

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.







building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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, rection and bracing of trusses and truss systems, see **ANS/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSVTPI1 Quality criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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[Job	Truss	Truss Type	Qty	Ply	240.3174.C.20x10CVP	
							137333740
	21057A	HG	Half Hip Girder	1	2		
					_	Job Reference (optional)	
	84 Components (Dunn),	Dunn, NC - 28334,		8.	240 s May	13 2019 MiTek Industries, Inc. Wed Jun 5 16:24:50 2019 I	Page 2

8.240 s May 13 2019 MiTek Industries, Inc. Wed Jun 5 16:24:50 2019 Page 2 ID:B_Q7f7Biu7XlherXjarx6dzmHHa-imZ13Z1QfkoywBnbwHZiuyyU4ARD0jx6nNrtQ2z9HFR

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-60, 4-10=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-54(B) 6=-54(B) 17=-31(B) 18=-31(B) 3=-55(B) 15=-31(B) 9=-54(B) 14=-31(B) 19=-58(B) 20=-55(B) 21=-54(B) 22=-54(B) 23=-54(B) 25=-54(B) 25=-56(B) 25=-56(B) 25=-56(B) 25=-





LUMBER- TOP CHORD 2x4 SF	No.2		BRACING- TOP CHORD	Structural wood sheathing dir	rectly applied or 4-7-12 oc purlins,
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.20 WB 0.00 Matrix-R	Vert(CT) -0.04 Horz(CT) 0.02	4 4-5 >999 180 2 3 n/a n/a	Weight: 18 lb FT = 20%
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.03	3 4-5 >999 240	MT20 244/190
				V /	

 TOP CHORD
 2x4 SP No.2
 TOP CHORD
 Structural wood sheathing directly applied or 4-7-12 or except end verticals.

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

REACTIONS. (lb/size) 5=249/0-3-8, 3=114/Mechanical, 4=51/Mechanical Max Horz 5=137(LC 12) Max Uplift 5=-3(LC 12), 3=-87(LC 12) Max Grav 5=249(LC 1), 3=126(LC 19), 4=82(LC 3)

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

NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-0 zone; 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.

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) 3.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.







						4-7-12						
Plate Off	sets (X,Y)	[2:0-1-13,0-2-12], [3:0-2-0	,Edge], [6:0-	0-0,0-2-12], [6	8:0-2-4,0-0-8	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	0.27	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matrix	k-R						Weight: 18 lb	FT = 20%
LUMBER	{-					BRACING-						

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x6 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=249/0-3-8, 4=115/Mechanical, 5=51/Mechanical Max Horz 6=102(LC 12) Max Uplift 6=-25(LC 12), 4=-50(LC 12) Max Grav 6=249(LC 1), 4=115(LC 1), 5=82(LC 3)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-4-12, Exterior(2) 3-4-12 to 4-7-0 zone; 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) 4.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.

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







		1		4-7-12		1				
		Γ		4-7-12						
Plate Offsets (X,Y)	[2:0-1-13,0-2-12], [3:0-2-0,Ec	lge], [6:0-0-0,0-2-12],	, [6:0-2-4,0-0-8]							
LOADING (psf)	SPACING- 2-	-0-0 CS	I.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1	I.15 TC	0.27	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1	I.15 BC	0.20	Vert(CT)	-0.04	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr Y	YES WE	3 0.00	Horz(CT)	0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI20	14 Ma	trix-R						Weight: 17 lb	FT = 20%
LUMBER-			I	BRACING-						
TOP CHORD 2x4 S	TOP CHOP	RD.	Structu	ral wood	sheathing dir	ectly applied or 4-7-1	2 oc purlins.			

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x6 SP No.2

BRACING-TOP CHORD S 6 BOT CHORD F

Structural wood sheathing directly applied or 4-7-12 oc purlins except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=249/0-3-8, 4=115/Mechanical, 5=50/Mechanical Max Horz 6=70(LC 12) Max Uplift 6=-32(LC 12), 4=-47(LC 9)

Max Grav 6=249(LC 1), 4=115(LC 1), 5=81(LC 3)

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

NOTES-

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 4.

 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.

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





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



	L			4-7-12	2					
				4-7-12	2					
Plate Offsets (X,Y)	[2:0-1-13,0-2-12], [3:0-2-0,E	dge], [6:0-0-0,0-2-12	, [6:0-2-4,0-0-8]							
LOADING (psf)	SPACING- 2	2-0-0 CS	SI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15 TC	0.33	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC	0.22	Vert(CT)	-0.04	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO W	З 0.00	Horz(CT)	0.04	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI20	014 Ma	atrix-R						Weight: 17 lb	FT = 20%
LUMBER-				BRACING-						

BOT CHORD 2x4 SP No.2 WEBS 2x6 SP No.2

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (Ib/size) 6=250/0-3-8, 4=116/Mechanical, 5=50/Mechanical Max Horz 6=47(LC 8) Max Uplift 6=-45(LC 8), 4=-51(LC 5)

Max Grav 6=250(LC 1), 4=118(LC 20), 5=81(LC 3)

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

NOTES-

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed;

- MWFRS (envelope) gable end zone; 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) 4.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.

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

10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 15 lb down and 38 lb up at

1-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20

Concentrated Loads (lb) Vert: 8=-1(F)



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Edenton, NC 27932

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



LOADING(psf)TCLL20.0TCDL10.0BCLL0.0BCDL10.0	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 0.04 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(CT) -0.00 2-4 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 244/190 Weight: 9 lb FT = 20%
LUMBER-	Code IRC2015/1PI2014	Matrix-P	BRACING-	Vveight: 9 lb F I = 20%

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (Ib/size) 3=43/Mechanical, 2=156/0-3-8, 4=20/Mechanical

Max Horz 2=47(LC 12) Max Uplift 3=-33(LC 12), 2=-32(LC 8) Max Grav 3=43(LC 1), 2=156(LC 1), 4=39(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.







Scale = 1:15.8



	L	3-7-6		7-2-12		1
	1	3-7-6	1	3-7-6		
Plate Offsets (X,Y)	[2:0-1-13,0-2-12], [3:0-2-0,0-2-3], [4:0-3-	0,0-0-8], [7:0-2-4,0-0-4], [7:0	0-0-0,0-2-12]			
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 NO Code IRC2015/TPI2014	CSI. TC 0.89 BC 0.60 WB 0.00 Matrix-S	DEFL. in Vert(LL) -0.10 Vert(CT) -0.22 Horz(CT) 0.16	(loc) l/defl L/d 6-7 >801 240 6-7 >360 180 4 n/a n/a	PLATES MT20 Weight: 26 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x6 SF 4-6: 2x	P No.2 P No.2 P No.2 *Except* 4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals, and 2-0-0 Rigid ceiling directly applied or	ctly applied or 6-0-0) oc purlins: 3-4. 10-0-0 oc bracing.	oc purlins,

REACTIONS. (lb/size) 7=340/0-3-8, 4=185/Mechanical, 6=84/Mechanical Max Horz 7=45(LC 8) Max Uplift 7=-53(LC 8), 4=-83(LC 5) Max Grav 7=340(LC 1), 4=186(LC 20), 6=142(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-284/103

NOTES-

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

 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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) 4.

 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.

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

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

11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20



TRENCO AMITER Affiliate 818 Soundside Road

Edenton, NC 27932



BRACING-

TOP CHORD

BOT CHORD

$\operatorname{Max} \operatorname{Opint} 3=-130(\operatorname{LC} 12)$
Max Grav 6=340(LC 1), 3=196(LC 19), 5=139(LC 3)

(lb/size) 6=340/0-3-8, 3=179/Mechanical, 5=89/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-289/104

Code IRC2015/TPI2014

NOTES-

BCDL

LUMBER-

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

10.0

2x4 SP No.2

2x4 SP No.2

2x6 SP No.2 *Except*

Max Horz 6=197(LC 12)

3-5: 2x4 SP No.3

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=130.

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



Weight: 34 lb

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

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

except end verticals.

FT = 20%





NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 6-11-4 zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=118.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







		2-3-8	5-11-12	7-2-12			
Plate Offsets (X,Y) [2:0-1-13,0-2-12], [10:0-2-4,0-0-8], [10:0	-0-0,0-2-12]	3-8-4	1-3-0			
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 0.64 BC 0.67 WB 0.03 Matrix-S	DEFL. in Vert(LL) 0.22 Vert(CT) -0.29 Horz(CT) 0.20	(loc) l/defl 7-8 >373 7-8 >287 5 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 33 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 3-9: 2x4 WEBS 2x6 SP 4-7: 2x4	No.2 No.2 *Except* 4 SP No.3 No.2 *Except* 4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood s except end vertic Rigid ceiling direc 6-0-0 oc bracing:	sheathing directly als, and 2-0-0 oc ctly applied or 10 7-8.	y applied or 6-0-0 c purlins (6-0-0 ma)-0-0 oc bracing,	oc purlins, ax.): 4-5. Except:
REACTIONS. (Ib/size Max Ho Max Up Max Gr FORCES. (Ib) - Max. (Ib) TOP CHOPD 2:10-) 10=349/0-3-8, 5=104/Mechanical, 6 prz 10=169(LC 12) blift 10=-21(LC 12), 5=-21(LC 12), 6=-63 rav 10=349(LC 1), 5=104(LC 1), 6=170(Comp./Max. Ten All forces 250 (lb) or a27/92, 2-3=-261/3	=168/Mechanical 9(LC 12) LC 19) less except when shown.					
 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; Vi MWFRS (envelope) of zone;C-C for membe 3) Provide adequate dra 4) This truss has been of 5) * This truss has been will fit between the bo 6) Refer to girder(s) for 7) Provide mechanical 8) One RT7A USP control only and does not co 9) Graphical purlin reproduction 	loads have been considered for this deault=130mph (3-second gust) Vasd=103r gable end zone and C-C Exterior(2) -0-1 rs and forces & MWFRS for reactions sl ainage to prevent water ponding. designed for a 10.0 psf bottom chord live or designed for a live load of 20.0psf on the ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearing nectors recommended to connect truss to nsider lateral forces. esentation does not depict the size or th	sign. nph; TCDL=6.0psf; BCDL: 0-8 to 2-1-12, Interior(1) 2 nown; Lumber DOL=1.60 a load nonconcurrent with ne bottom chord in all area g plate capable of withstar o bearing walls due to UP e orientation of the purlin	=6.0psf; h=30ft; Cat. II; E 2-1-12 to 5-11-12, Exteri plate grip DOL=1.60 any other live loads. as where a rectangle 3-6 nding 100 lb uplift at join 'LIFT at jt(s) 10. This cor along the top and/or bott	Exp B; Enclosed; or(2) 5-11-12 to 7- 6-0 tall by 2-0-0 win t(s) 5, 6. nnection is for uplit tom chord.	-2-0 de ft	A	A CAROLINI







			2-3-8		4-8-12 2-5-4		2	-2-12 2-6-0			
Plate Offsets (X,Y) [10:0	0-4-4,0-1-8]				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	0.64	Vert(LL)	0.20	7-8	>420	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.34	7-8	>245	180		
CLL 0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.22	5	n/a	n/a		
3CDL 10.0	Code IRC2015/TPI2	2014	Matri	x-S						Weight: 32 lb	FT = 20%
LUMBER-	_				BRACING-	_	_				
TOP CHORD 2x4 SP No.	.2				TOP CHOR	2D	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins, except

 BOT CHORD
 2x4 SP No.2 *Except*
 2-0-0 oc purlins (6-0-0 max.): 4-5.

 3-9: 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

 WEBS
 2x4 SP No.3 *Except*
 2-10: 2x6 SP No.2

REACTIONS. (lb/size) 5=129/Mechanical, 10=349/0-3-8, 6=143/Mechanical Max Horz 10=137(LC 12) Max Uplift 5=-40(LC 9), 10=-34(LC 12), 6=-21(LC 12)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-10=-279/131

NOTES-

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 4-8-12, Exterior(2) 4-8-12 to 7-2-0 zone; 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) 5, 6.

 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.

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





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



		<u>2-3-8</u> <u>3-5-1</u> 2-3-8	12	7-2-12	
Plate Offsets (X,Y)	[2:0-0-2,0-0-2], [2:0-0-3,0-3-13]	2-3-0 1-2-	T	3-3-0	
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 0.51 BC 0.83 WB 0.04 Matrix-S	DEFL. in Vert(LL) 0.16 Vert(CT) -0.31 Horz(CT) 0.27	n (loc) l/defl L/d 5 7 >530 240 1 6-7 >268 180 7 5 n/a n/a	PLATES GRIP MT20 244/190 Weight: 31 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S 2-9: 2	P No.2 P No.2 *Except* x6 SP No.2, 3-9: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire 2-0-0 oc purlins (6-0-0 max.): Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, except 4-5. r 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 7-8.

 BOT CHORD
 2x4 SP No.2 *Except*

 2-9: 2x6 SP No.2, 3-9: 2x4 SP No.3

 WEBS
 2x4 SP No.3

 WEDGE

Left: 2x4 SP No.3

REACTIONS. (Ib/size) 5=154/Mechanical, 2=347/0-3-8, 6=122/Mechanical Max Horz 2=108(LC 12) Max Uplift 5=-53(LC 9), 2=-39(LC 12) Max Grav 5=154(LC 1), 2=347(LC 1), 6=133(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-341/63

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 3-5-12, Exterior(2) 3-5-12 to 7-2-0 zone; 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) 5.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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LUMBER- TOP CHORD 2x4 SP	No.2		BRACING- TOP CHORD	Structu	ural wood	sheathing di	rectly applied or 6-0-0	oc purlins, except
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 0.60 BC 0.32 WB 0.09 Matrix-P	DEFL. in Vert(LL) 0.05 Vert(CT) -0.09 Horz(CT) 0.00	(loc) 2-6 2-6 5	l/defl >999 >973 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 39 lb	GRIP 244/190 FT = 20%
Plate Offsets (X,Y)	[2:0-0-2,0-0-2], [2:0-0-3,0-3-13]							

BOT CHORD

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x4 SP No.3

 WEDGE
 Left: 2x4 SP No.3

REACTIONS. (Ib/size) 2=347/0-3-8, 5=280/Mechanical Max Horz 2=196(LC 12) Max Uplift 2=-8(LC 12), 5=-107(LC 12)

Max Grav 2=347(LC 1), 5=289(LC 19)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-8-13, Exterior(2) 6-8-13 to 7-2-12 zone;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) except (jt=lb) 5=107.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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



Vol22015 BEFORE USE. (component, not go into the overall d permanent bracing rding the nd BCSI Building Component 818 Soundside Road Edenton, NC 27932

2-0-0 oc purlins (6-0-0 max.): 3-4.

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



Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=337/0-3-8, 6=273/Mechanical Max Horz 2=149(LC 12) Max Uplift 2=-32(LC 12), 6=-64(LC 12)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-8-0, Exterior(2) 5-8-0 to 6-11-4 zone; 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.

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

7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.







TCLL TCDL BCLL	20.0 10.0 0.0 *	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	IC 0.11 BC 0.03 WB 0.00	Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00) 2) 2-6) 5	>999 >999 n/a	240 180 n/a	M120	244/190	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 10 lb	FT = 20%	
LUMBER TOP CH	8- ORD 2x4 SP	No.2		BRACING- TOP CHORD	Structu	ural wood	l sheathing d	irectly applied or 2-0-0	oc purlins, except	
BOT CH	ORD 2x4 SP	No.2			2-0-0 0	oc purlins	: 3-5.			

BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.2 SLIDER Left 2x4 SP No.3 1-3-7 BOT CHORD 2x4 SP No.3 1-3-7 SLIDER Left 3x4 SP NO.3 1-3-7 SLIDER LEft 3

REACTIONS. (lb/size) 5=69/Mechanical, 2=196/0-3-8, 6=23/Mechanical Max Horz 2=73(LC 12) Max Uplift 5=-32(LC 9), 2=-35(LC 12) Max Grav 5=69(LC 1), 2=196(LC 1), 6=36(LC 3)

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

NOTES-

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 5.

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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





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





Plate Offsets (X	Y) [5:0-4-4,0-1-8]		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	0.08	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0	* Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/T	PI2014	Matrix	-R						Weight: 9 lb	FT = 20%
LUMBER-			·		BRACING-						
TOP CHORD 2x4 SP No.2			TOP CHOP	D	Structu	ral wood	sheathing di	rectly applied or 2-0-	0 oc purlins,		

WEBS 2x6 SP No.2 BOT CHORD

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

REACTIONS. (lb/size) 5=157/0-3-8, 3=38/Mechanical, 4=12/Mechanical Max Horz 5=70(LC 12) Max Uplift 5=-14(LC 12), 3=-35(LC 12)

Max Grav 5=157(LC 1), 3=44(LC 19), 4=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.







11	IM	RF	R-

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

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

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

REACTIONS. (lb/size) 6=222/Mechanical, 2=283/0-3-8 Max Horz 2=89(LC 8) Max Uplift 6=-54(LC 12), 2=-70(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-0 zone; 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.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



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	0-2-8 0-2-8		5-10-0 5-7-8	
Plate Offsets (X,Y)	[3:0-2-0,0-2-13]			
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 0.40	Vert(LL) -0.03 2-7 >999 240 MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.06 2-7 >999 180	
3CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 7 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Weight: 21 lb FT = 2	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

REACTIONS. (lb/size) 7=223/Mechanical, 2=283/0-3-0 Max Horz 2=79(LC 8)

Max Uplift 7=-44(LC 8), 2=-73(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-0, Exterior(2) 5-0-0 to 5-10-0 zone;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.

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) 7.

7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

8) 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 or 5-10-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-5.

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

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED MITER REFERENCE PAGE MIT-14's rev. Towards BEFORE OSE. Design valid for use only with MiTeR's 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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818 Soundside Road Edenton, NC 27932

		2-4-0 2-4-0	+ 4-4-0 2-0-0	5-8-8 1-4-8
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 NO Code JRC2015/TPI2014	CSI. TC 0.09 BC 0.04 WB 0.05 Matrix-S	DEFL. 5-10-0 in (loc) l/defl L/d Vert(LL) -0.00 1 n/r 120 Vert(CT) 0.00 1 n/r 120 Horz(CT) -0.00 7 n/a n/a	PLATES GRIP MT20 244/190 Weight: 23 lb ET = 20%
			BRACING-	

LUMBER-

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

Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-8, 5-6. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 5-10-0. (lb) - Max Horz 2=88(LC 12)

- Max Uplift All uplift 100 lb or less at joint(s) 8, 7, 2, 9
 - Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9 except 8=372(LC 19)

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed;
- MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 5-8-4 zone;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.
- 6) Gable requires continuous bottom chord bearing.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 7, 2, 9.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such
- connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 5-6=-90(F=-30), 2-7=-20 Concentrated Loads (lb) Vert: 5=-200(F)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 5-8=-340/270

				0-10-0
LOADIN	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 0.80	Vert(LL) -0.10 2-6 >761 240 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.20 2-6 >380 180
BCLL	0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Weight: 25 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (lb/size) 2=323/0-3-8, 6=263/Mechanical Max Horz 2=102(LC 8) Max Uplift 2=-75(LC 8), 6=-63(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-10-0 zone; 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.
- 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.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

					5-0-0						6-10-0	—
Plate Offse	ets (X,Y)	[2:0-3-6,Edge], [3:0-3-0,0)-2-8]		5-0-0						1-10-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.03	2-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.06	2-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 30 lb	FT = 20%
LUMBER-						BRACING-						

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 3-5.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=329/0-3-8, 7=268/Mechanical Max Horz 2=80(LC 4)

Max Uplift 2=-87(LC 4), 7=-55(LC 4)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed;

- MWFRS (envelope) gable end zone; 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) 7.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-9(F) 9=-4(F) 10=2(F)

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

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

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ł	8-5-2 16-8-6 8-5-2 8-3-4		3	24-11-10	33-2	-14	41-8-0	0	
1			8-3-4	1	8-3-4	8-3	-4	8-5-2	
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL. i	n (loc) l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL) -0.23	3 14-15 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.75	Vert(CT) -0.46	6 14-15 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT) 0.1	1 10 n/a	n/a		
BCDL	10.0	Code IRC2015	/TPI2014	Matrix-S				Weight: 246 lb	FT = 20%
LUMBER TOP CHO	- DRD 2x4 SP	No.2		·	BRACING- TOP CHORD	Structural wood	sheathing dire	ectly applied.	

BOT CHORD

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

TOP CHORD2x4 SP No.2BOT CHORD2x6 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 **REACTIONS.** (lb/size) 2=1716/0-3-8, 10=1716/0-3-8

Max Horz 2=-151(LC 13)

Max Uplift 2=-223(LC 12), 10=-223(LC 13)

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

 TOP CHORD
 2-3=-3502/420, 3-5=-3325/446, 5-6=-2612/395, 6-7=-2612/395, 7-9=-3325/446, 9-10=-3502/421

 BOT CHORD
 2-17=-454/3123, 15-17=-287/2585, 14-15=-98/1961, 12-14=-188/2585, 10-12=-304/3123

WEBS 6-14=-170/916, 7-14=-679/279, 7-12=-118/633, 9-12=-309/204, 6-15=-170/916,

5-15=-679/279, 5-17=-118/633, 3-17=-309/204

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-3-8, Interior(1) 3-3-8 to 20-10-0, Exterior(2) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 42-6-8 zone; 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.

VERTICAL SUPPORT OF FREE END OF BC IS REQUIRED

	2-3-8	8-6-12 6-3-4	14-10-0 6-3-4	16-10-0 2 2-0-0	0-10-0 4-0-0	+ <u>23-8-11</u> 2-10-11	+	32-7-6 8-10-11		41-8-0 9-0-10	
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.76 BC 0.78 WB 0.76 Matrix-S	I \ H)EFL. /ert(LL) /ert(CT) lorz(CT)	in (loc) -0.33 19-21 -0.68 19-21 0.28 11	l/defl >999 >730 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 314 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

- TOP CHORD
 2x4 SP No.2 *Except*

 5-7: 2x6 SP No.2, 1-5: 2x6 SP DSS

 BOT CHORD
 2x6 SP No.2 *Except*

 3-20,16-20: 2x6 SP DSS, 18-19: 2x4 SP No.3

 WEBS
 2x4 SP No.3

 OTHERS
 2x6 SP DSS
- LBR SCAB 1-5 2x6 SP DSS one side
- REACTIONS. (Ib/size) 2=1711/0-3-8, 11=1706/0-3-8 Max Horz 2=-152(LC 13) Max Uplift 2=-220(LC 12), 11=-223(LC 13)

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

- TOP CHORD
 2-3=-615/187, 3-4=-4620/553, 4-6=-2961/373, 6-7=-2167/355, 7-8=-2212/341, 8-10=-3260/411, 10-11=-3485/419

 BOT CHORD
 3-21=-582/4350, 19-21=-582/4350, 17-19=-506/2417, 16-17=-148/696, 13-15=-194/2541, 11-13=-303/3108
- WEBS 4-21=0/471, 4-17=-1806/376, 15-19=-52/1828, 15-16=-74/520, 7-16=-147/1343, 8-15=-780/281, 8-13=-59/663, 10-13=-318/210, 6-17=-68/932, 6-16=-1213/271

NOTES-

- 1) Attached 11-8-11 scab 1 to 5, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-4-11 from end at joint 1, nail 2 row(s) at 3" o.c. for 5-4-4; starting at 9-2-11 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-5-11.
- 2) Unbalanced roof live loads have been considered for this design.

3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-7-14 to 3-6-2, Interior(1) 3-6-2 to 20-10-0, Exterior(2) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 42-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

Structural wood sheathing directly applied or 2-2-0 oc purlins.

4-17, 8-15, 6-16

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

1 Row at midpt

1	8-4-2	15-4-0	16-6-5	24-8-9	26-4-0	32-10-12	41-4-8	1			
1	8-4-2	6-11-14	1-2-5	8-2-4	1-7-7	6-6-12	8-5-12				
LOADING TCLL TCDL BCLL BCDL	G (psf) SPACING- 20.0 Plate Grip I 10.0 Lumber DC 0.0 * Rep Stress 10.0 Code IRC2	2-0-0 DOL 1.15 DL 1.15 Incr YES 2015/TPI2014	CSI. TC 0.94 BC 0.90 WB 0.47 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.20 13-16 -0.40 13-16 0.10 10	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 265 lb	GRIP 244/190 FT = 20%			
LUMBER TOP CHO BOT CHO WEBS	- JRD 2x4 SP DSS *Except* 1-4: 2x4 SP No.2, 8-10: 2 JRD 2x6 SP No.2 2x4 SP No.3	2x4 SP No.1		BRACING TOP CHOI BOT CHOI	RD Structu RD Rigid c	ral wood sheathing dir eiling directly applied c	ectly applied. or 10-0-0 oc bracing.				
REACTIONS. (lb/size) 2=1709/0-3-8, 10=1646/Mechanical Max Horz 2=154(LC 16) Max Uplift 2=-222(LC 12), 10=-199(LC 13)											
FORCES TOP CHO BOT CHO WEBS	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FOP CHORD 2-3=-3469/415, 3-5=-3300/442, 5-6=-2697/407, 6-7=-2681/414, 7-9=-3211/422, 9-10=-3402/413 SOT CHORD 2-18=-451/3090, 16-18=-313/2653, 13-16=-113/1913, 11-13=-200/2632, 10-11=-303/3018 WEBS 3-18=-264/178, 5-18=-103/540, 5-16=-670/281, 6-16=-174/943, 6-13=-174/919, 7-13=-656/273, 7-11=-84/474										
NOTES- 1) Unbala 2) Wind: . MWFR , Interior DOL=1 3) All plat 4) This tri 5) * This tri will fit fit 6) Refer t 7) Provid 10=19	anced roof live loads have been ASCE 7-10; Vult=130mph (3-se S (envelope) gable end zone at or(1) 24-11-10 to 41-3-12 zone; 1.60 es are 4x4 MT20 unless otherw uss has been designed for a 10. truss has been designed for a lib between the bottom chord and a o girder(s) for truss to truss con e mechanical connection (by oth a	considered for this dec cond gust) Vasd=103r nd C-C Exterior(2) -0-1 C-C for members and f ise indicated. 0 psf bottom chord live ve load of 20.0psf on ti any other members, wi nections. hers) of truss to bearing	sign. hph; TCDL=6.0psf; BCD 0-8 to 3-3-2, Interior(1) forces & MWFRS for rea load nonconcurrent with he bottom chord in all ar h BCDL = 10.0psf. g plate capable of withst	DL=6.0psf; h=30ft; 3-3-2 to 20-10-0, E actions shown; Lur th any other live lo reas where a recta tanding 100 lb upli	Cat. II; Exp B; E Exterior(2) 20-1(nber DOL=1.60 ads. ngle 3-6-0 tall b ft at joint(s) exce	inclosed;)-0 to 24-11-10 plate grip y 2-0-0 wide ept (jt=lb)	Annert	CAROLIN			

8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

818 Soundside Road Edenton, NC 27932

Plate Offsets	(X,Y))	[4:0-2-0	,Edge]
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i late off	3013 (7,1)	[4.0 Z 0,Eugo]										
LOADIN TCLL TCDL BCLL	G (psf) 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL Ben Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.19 0.14 0.11	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a	(loc) - - 7	l/defl n/a n/a	L/d 999 999 p/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	ix-S	1012(01)	0.00	,	Π/a	n/a	Weight: 62 lb	FT = 20%
		2 No 2				BRACING-	20	Structu	ral wood	sheathing	lirectly applied or 6-0-0	

TOP CH BOT CHORD 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.3

REACTIONS. All bearings 14-1-8.

Max Horz 1=147(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 9=-104(LC 12), 10=-117(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 8=352(LC 20), 9=425(LC 19), 10=271(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-9=-273/153

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-0-4, Exterior(2) 9-0-4 to 12-0-4, Interior(1) 12-0-4 to 13-11-12 zone;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, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 9=104, 10=117.

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITER REPRETENCE PAGE MIT-1473 TeV. 100/32010 SECORE 052. Design valid for use only with MITER (be 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-98 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

BRACING-

TOP CHORD

BOT CHORD

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

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

except end verticals.

LUMBER-

WEBS

OTHERS

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

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

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-9-4, Exterior(2) 7-9-4 to 10-9-4, Interior(1) 10-9-4 to 12-8-12 zone; 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.

2-8=-304/179

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

2x4 SP No.3

All bearings 12-10-8. Max Horz 1=116(LC 9)

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

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 8=-131(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=339(LC 20), 8=439(LC 19)

- 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, 6, 7 except (jt=lb) 8=131.

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 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. All bearings 11-7-8.

(lb) - Max Horz 1=98(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 8=-105(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=308(LC 20), 8=323(LC 19)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-7-8, Interior(1) 3-7-8 to 6-6-4, Exterior(2) 6-6-4 to 9-6-4, Interior(1) 9-6-4 to 11-5-12 zone; 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) 8=105.

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-3-4, Exterior(2) 5-3-4 to 8-3-4, Interior(1) 8-3-4 to 10-0-12 zone; 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, 4.

REACTIONS. (lb/size) 1=153/7-11-12, 3=153/7-11-12, 4=261/7-11-12 Max Horz 1=-58(LC 8) Max Uplift 1=-34(LC 12), 3=-42(LC 13)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-0-4, Exterior(2) 4-0-4 to 7-0-4, Interior(1) 7-0-4 to 7-6-12 zone;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.

Plate Offsets (X,Y)	[2:0-2-0,Edge]							
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 0.09 BC 0.26 WB 0.00 Matrix B	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	n (loc) a - a - 0 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
LUMBER-	Code IRC2015/1PI2014	Matrix-P	BRACING-				Weight: 16 lb	F1 = 20%
TOP CHORD 2x4 SP	TOP CHORD	Struct	ural wood	sheathing dire	ectly applied or 5-6-8	oc purlins.		

BOT CHORD

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

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (lb/size) 1=183/5-5-12, 3=183/5-5-12 Max Horz 1=-38(LC 10) Max Uplift 1=-20(LC 12), 3=-20(LC 13)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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 🥢

2x4 📎

Structural wood sheathing directly applied or 3-0-8 oc purlins.

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

3-0-2 3-0-8 0-0-6 3-0-2 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-DEFL. PLATES GRIP LOADING (psf) 2-0-0 CSI. in (loc) l/defl L/d Plate Grip DOL 244/190 TCLL 20.0 1.15 тс 0.03 Vert(LL) n/a 999 MT20 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 FT = 20% BCDL 10.0 Matrix-P Weight: 8 lb BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (lb/size) 1=83/2-11-12, 3=83/2-11-12 Max Horz 1=-17(LC 8) Max Uplift 1=-9(LC 12), 3=-9(LC 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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.

