

**Trenco** 818 Soundside Rd Edenton, NC 27932

Re: J0922-4832 Ringled Residence

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I54451859 thru I54451908

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

North Carolina COA: C-0844



September 29,2022

# Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



	5-5-4	<u>10-10-8</u> 5-5-4	12-8-12 14-0-8	20-0-8 6-0-0	25-0-8	29-2-8		33-7-4	40-1-0	
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	0.41	Vert(LL)	-0.31 15-17	>804	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.38 15-17	>662	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.00 13	n/a	n/a		
BCDL 10.0	Code IRC2015/	FPI2014	Matri	x-S	Wind(LL)	0.26 2-17	>584	240	Weight: 324 lb	FT = 20%

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 BRACING-TOP CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 3-17, 6-17, 6-15, 8-15, 5-17 1 Row at midpt

REACTIONS. 2=0-3-8, 17=0-3-8, 13=0-3-8 (size) Max Horz 2=241(LC 11) Max Uplift 2=-68(LC 9), 17=-292(LC 9), 13=-89(LC 13) Max Grav 2=477(LC 23), 17=1527(LC 2), 13=1453(LC 24)

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

2-3=-331/123, 6-8=-371/121, 8-10=-517/137, 10-11=-375/564 TOP CHORD

BOT CHORD 2-17=-157/253, 15-17=-78/377, 13-15=-388/432, 11-13=-388/432

WEBS 3-17=-432/342, 6-17=-750/201, 10-15=-174/735, 10-13=-1268/548, 5-17=-480/182

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 17-2-3, Interior(1) 17-2-3 to 29-1-8, Exterior(2) 29-1-8 to 35-4-3, Interior(1) 35-4-3 to 41-2-9 zone; cantilever right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

\* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) 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 68 lb uplift at joint 2, 292 lb uplift at joint 17 and 89 lb uplift at joint 13.

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





	1	5-5-4	10-10-8	12-8-12	20-0-8		25-0-8		29-2-8		33-7-4		40-1-0	
	I	5-5-4	5-5-4	'1-10-4'	7-3-12	1	5-0-0	1	4-2-0	1	4-4-12	•	6-5-12	
LOADING (ps	sf)	SPACING-	2-0-0	CSI.			DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL 20.	.0	Plate Grip DOL	1.15	TC	0.41		Vert(LL)	-0.31 1	15-17	>804	360		MT20	244/190
TCDL 10.	.0	Lumber DOL	1.15	BC	0.57		Vert(CT)	-0.38 1	15-17	>662	240			
BCLL 0.	.0 *	Rep Stress Incr	YES	WB	0.62		Horz(CT)	0.00	13	n/a	n/a			
BCDL 10.	.0	Code IRC2015/	TPI2014	Matri	x-S		Wind(LL)	0.26	2-17	>584	240		Weight: 324 lb	FT = 20%

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 BRACING-

WEBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 3-17, 6-17, 6-15, 8-15, 5-17 1 Row at midpt

REACTIONS. 2=0-3-8, 17=0-3-8, 13=0-3-8 (size) Max Horz 2=-241(LC 10) Max Uplift 2=-68(LC 9), 17=-292(LC 9), 13=-89(LC 13) Max Grav 2=477(LC 23), 17=1527(LC 2), 13=1453(LC 24)

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

2-3=-331/123, 6-8=-371/121, 8-10=-517/137, 10-11=-375/564 TOP CHORD

BOT CHORD 2-17=-157/253, 15-17=-78/377, 13-15=-388/432, 11-13=-388/432

WEBS 3-17=-432/342, 6-17=-750/201, 10-15=-174/735, 10-13=-1268/548, 5-17=-480/182

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 17-2-3, Interior(1) 17-2-3 to 29-1-8, Exterior(2) 29-1-8 to 35-4-3, Interior(1) 35-4-3 to 41-2-9 zone; cantilever right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

\* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) 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 68 lb uplift at joint 2, 292 lb uplift at joint 17 and 89 lb uplift at joint 13.

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







	1	5-5-4	10-10-8	12-8-12	20-0-8		25-0-8		29-2-8		33-7-4		40-1-0	
	I	5-5-4	5-5-4	'1-10-4'	7-3-12	1	5-0-0	1	4-2-0	1	4-4-12	•	6-5-12	
LOADING (ps	sf)	SPACING-	2-0-0	CSI.			DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL 20.	.0	Plate Grip DOL	1.15	TC	0.41		Vert(LL)	-0.31 1	15-17	>804	360		MT20	244/190
TCDL 10.	.0	Lumber DOL	1.15	BC	0.57		Vert(CT)	-0.38 1	15-17	>662	240			
BCLL 0.	.0 *	Rep Stress Incr	YES	WB	0.62		Horz(CT)	0.00	13	n/a	n/a			
BCDL 10.	.0	Code IRC2015/	TPI2014	Matri	x-S		Wind(LL)	0.26	2-17	>584	240		Weight: 324 lb	FT = 20%

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 BRACING-

WEBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 6-17, 6-15, 8-15, 5-17, 3-17 1 Row at midpt

REACTIONS. 2=0-3-8, 13=0-3-8, 17=0-3-8 (size) Max Horz 2=-241(LC 10) Max Uplift 2=-68(LC 9), 13=-89(LC 13), 17=-292(LC 9) Max Grav 2=477(LC 23), 13=1453(LC 24), 17=1527(LC 2)

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

2-3=-331/123, 6-8=-371/121, 8-10=-517/137, 10-11=-375/564 TOP CHORD

BOT CHORD 2-17=-157/253, 15-17=-78/377, 13-15=-388/432, 11-13=-388/432

WEBS 6-17=-750/201, 10-15=-174/735, 10-13=-1268/548, 5-17=-480/182, 3-17=-432/342

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 17-2-3, Interior(1) 17-2-3 to 29-1-8, Exterior(2) 29-1-8 to 35-4-3, Interior(1) 35-4-3 to 41-2-9 zone; cantilever right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

\* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) 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 68 lb uplift at joint 2, 89 lb uplift at joint 13 and 292 lb uplift at joint 17.

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







			5-5-4	-	10-10-8	12-8-12		22-10-8	231	3 2	29-5-3		33-7-4	40-1-0	
Plate Offset	ts (X Y	() [1	5-5-4	•	5-5-4	'1-10-4'		10-1-12	0-2-1	1	6-4-0	•	4-2-1	6-5-12	
		/ L													
LOADING	(psf)		SPACING-		2-0-0	CSI.			DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip D	OL	1.15	TC	0.18		Vert(LL)	-0.15	18-20	>999	360	MT20	244/190
TCDL	10.0		Lumber DOI		1.15	BC	0.40		Vert(CT)	-0.29	2-20	>520	240		
BCLL	0.0	*	Rep Stress	Incr	YES	WB	0.31		Horz(CT)	0.01	15	n/a	n/a		
BCDL	10.0		Code IRC2	015/TF	PI2014	Matri	x-S		Wind(LL)	0.25	2-20	>602	240	Weight: 362 lb	FT = 20%
LUMBER-									BRACING-						
TOP CHOR	22	x6 SP N	No.1						TOP CHOR	D	Structu	iral wood	l sheathing di	irectly applied or 6-0-0 c	c purlins, except
BOT CHOR	2 Z	x6 SP N	No.1								2-0-0 0	oc purlins	(6-0-0 max.)	): 5-7, 8-15, 8-10, Excer	ot:
WEBS	2	x4 SP N	No.2								1 Row	at midpt	(	8-11	
									BOT CHOR	D	Rigid c	eilina dir	ectly applied	or 10-0-0 oc bracing.	Except:
										-	6-0-0 c	oc bracin	q: 13-15.		
									WEBS		1 Row	at midpt		5-20, 6-20, 7-18, 3-20	
									JOINTS		1 Brac	e at Jt(s)	: 11		
REACTION	IS.	(size)	15=0-3-8, 2=0-	3-8, 2	0=0-3-8							( )			
	N	Λax Ho	rz 2=243(LC 11)												
	Ν	/ax Unl	lift 15=-97/I C 13)	2=-6	0/(-9) 20-	202(1 C 0)									
				0	3(LC 0). ZU-										

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-383/161, 6-7=-390/144, 7-8=-385/102, 8-9=-522/157, 9-11=-514/171, 11-15=-1003/377, 12-13=-357/483 BOT CHORD 2-20=-158/288, 17-18=-13/411, 15-17=-33/372, 13-15=-324/397 5-20=-350/105, 6-20=-680/152, 6-18=0/321, 10-11=-364/213, 11-12=-108/427, WEBS

# NOTES-

12-15=-643/363, 3-20=-438/323

 Unbalanced roof live loads have been considered for this design.
 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 29-5-3, Exterior(2) 22-9-8 to 23-2-12, Interior(1) 29-5-3 to 41-2-9 zone; cantilever right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) \* This truss has been designed for a live load of 30.0psf 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 97 lb uplift at joint 15, 69 lb uplift at joint 2 and 292 lb uplift at joint 20.

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

TH CAD ORTH Vinneeren VIIIIIIIIIII SEAL 036322 G (1111111) September 29,2022





	5-5-4	10-10-8	12-8-12	22-10-8		25-6-0		31-10-0	33-	7-4	40-1-0	
	5-5-4	5-5-4	'1-10-4 '	10-1-12	1	2-7-8		6-4-0	' 1-9	9-4 '	6-5-12	
Plate Offsets (X,	() [8:0-3-0,0-3-12], [9	:0-4-0,0-2-12]										
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	* SPACING- Plate Grip D Lumber DOI Rep Stress I Code IRC20	2-0-0 OL 1.15 - 1.15 ncr YES 015/TPI2014	CSI. TC BC WB Matrix	0.32 0.42 0.68 -S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.29 0.01 0.25	(loc) 2-16 2-16 12 2-16	l/defl >999 >518 n/a >606	L/d 360 240 n/a 240	PL MT We	ATES T20 eight: 335 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2 BOT CHORD 2 WEBS 2	x6 SP No.1 x6 SP No.1 x4 SP No.2				BRACING- TOP CHOF BOT CHOF WEBS	RD RD	Structu 2-0-0 o Rigid c 1 Row	ural wood s oc purlins (e eiling direc at midpt	heathing dir 6-0-0 max.): tly applied o 5	rectly appl : 5-7, 8-9. or 6-0-0 or 5-16, 6-16.	lied or 6-0-0 c c bracing. . 8-12. 3-16	oc purlins, except
REACTIONS.	(size) 2=0-3-8, 16=0- Max Horz 2=241(LC 11) Max Uplift 2=-67(LC 8), 1 Max Grav 2=476(LC 23),	3-8, 12=0-3-8 6=-274(LC 9), 12= 16=1580(LC 2), 1	=-142(LC 13) I2=1450(LC 24)						-	, ,	, ,	
FORCES. (lb) - TOP CHORD	Max. Comp./Max. Ten 2-3=-329/171, 3-5=-65/2	All forces 250 (lb) 80, 6-7=-410/166	) or less except v , 7-8=-573/160, 9	when shown. 9-10=-423/649								

ORD WFBS 5-16=-393/106, 6-16=-799/167, 6-14=0/473, 8-12=-740/170, 9-12=-798/505, 3-16=-440/323

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-9-8, Exterior(2) 22-9-8 to 25-6-0, Interior(1) 25-6-0 to 31-10-0, Exterior(2) 31-10-0 to 36-2-12, Interior(1) 36-2-12 to 41-2-9 zone; cantilever right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

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

5) \* This truss has been designed for a live load of 30.0psf 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 67 lb uplift at joint 2, 274 lb uplift at joint 16 and 142 lb uplift at joint 12.

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







1	5-5-4 I	10-10-6	12-0-12	22-10-0	1	21-	10-12	1	33-7-4	3472-112	40-1-0	1
Г	5-5-4	5-5-4	1-10-4	10-1-12	1	5	-0-4	1	5-8-8	0-7-8	5-10-4	1
Plate Offsets (X,Y)	[8:0-3-0,0-3-12], [	[9:0-4-0,0-2-12]										
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING Plate Grip Lumber DO Rep Stress Code IRC	- 2-0-0 DOL 1.15 DL 1.15 s Incr YES 2015/TPI2014	CSI. TC BC WB Matri	0.20 0.40 0.88 ix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.29 0.01 0.25	(loc) 14-16 2-16 12 2-16	l/defl >999 >518 n/a >604	L/d 360 240 n/a 240	PLA MT2 Wei	ATES 20 ght: 327 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S WEBS 2x4 S	P No.1 P No.1 P No.2				BRACING- TOP CHOF BOT CHOF WEBS	RD RD	Structura 2-0-0 oc Rigid cei 6-0-0 oc 1 Row at	al wood s purlins ( ling dire bracing: t midot	sheathing c 6-0-0 max. ctly appliec 10-12.	directly applie .): 5-7, 8-9. I or 10-0-0 o 5-16, 6-16	ed or 6-0-0 c c bracing, 1 7-14 3-16	oc purlins, except Except:

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 12=0-3-8 Max Horz 2=241(LC 11) Max Uplift 2=-64(LC 9), 16=-245(LC 9), 12=-138(LC 13) Max Grav 2=482(LC 23), 16=1479(LC 2), 12=1460(LC 24)

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

TOP CHORD 2-3=-338/169, 6-7=-394/165, 7-8=-507/113, 8-9=-242/396, 9-10=-392/523

BOT CHORD 2-16=-156/258, 12-14=0/321, 10-12=-379/442

WEBS 5-16=-390/106, 6-16=-712/163, 6-14=0/386, 8-12=-917/300, 9-12=-644/441, 3-16=-440/323

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-9-8, Exterior(2) 22-9-8 to 27-2-5, Interior(1) 27-2-5 to 34-2-12, Exterior(2) 34-2-12 to 38-7-9, Interior(1) 38-7-9 to 41-2-9 zone; cantilever right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 30.0psf 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 64 lb uplift at joint 2, 245 lb uplift at joint 16 and 138 lb uplift at joint 12.

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







	5-5-4 5-5-4	<u>10-10-8</u> 5-5-4	12-8-12 1-10-4	22-10-8 10-1-12			30-3-9 7-5-1	<u>33-8-8</u> 3-4-15	4
Plate Offsets (X,Y)	[2:0-10-0,0-1-9], [8:0-3-0	,0-3-12]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES PI2014	<b>CSI.</b> TC 0.34 BC 0.40 WB 0.37 Matrix-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT) Wind(LL)	in (lo -0.15 13-1 -0.30 2-1 0.01 - 0.27 2-1	bc) l/defl 16 >999 16 >510 12 n/a 16 >557	L/d 360 240 n/a 240	PLATES MT20 Weight: 284 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x63 BOT CHORD 2x63 WEBS 2x44 REACTIONS. (s Max Max	SP No.1 SP No.1 SP No.2 ize) 12=0-3-0, 2=0-3-8, 1 Horz 2=230(LC 9) Uplift 12=-44(LC 13), 2=-6 Grav 12=785(LC 24), 2=49	6=0-3-8 9(LC 9), 16=-22 95(LC 23), 16=1	0(LC 9) 527(LC 2)	BRACING- TOP CHORD BOT CHORD WEBS	0 Stru exc 0 Rigi 1 R	uctural wood cept end verti gid ceiling dire Row at midpt	sheathing dir cals, and 2-0- cctly applied c 6	rectly applied or 6-0-0 o -0 oc purlins (6-0-0 max or 10-0-0 oc bracing. -16, 7-13, 8-13, 5-16, 3	oc purlins, x.): 5-7, 8-10. 3-16
FORCES.(lb) - MaTOP CHORD2-3BOT CHORD2-1WEBS6-13-1	x. Comp./Max. Ten All fo =-356/122, 6-7=-473/205, 7 6=-169/258, 12-13=-172/65 6=-807/238, 6-13=-48/512, 6=-440/329	rces 250 (lb) or l 7-8=-712/124 96 8-13=-347/242,	ess except when shown. 8-12=-908/249, 5-16=-37	74/147,					

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-9-8, Exterior(2) 22-9-8 to 27-2-5, Interior(1) 27-2-5 to 33-8-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) \* This truss has been designed for a live load of 30.0psf 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 44 lb uplift at joint 12, 69 lb uplift at joint 2 and 220 lb uplift at joint 16.

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







	5-5-4	10-10-8	12-8-12	22-10-8		3	2-8-7 33	<u>3-9-0</u>
	5-5-4	5-5-4	' 1-10-4 '	10-1-12		9	-9-15 1	-0-9'
Plate Offsets (X,Y)	[2:0-10-0,0-1-9], [9:0-3-4,0	)-1-8]						
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI	2-0-0 1.15 1.15 YES 2014	<b>CSI.</b> TC 0.17 BC 0.40 WB 0.37 Matrix-S	DEFL.         in           Vert(LL)         -0.17           Vert(CT)         -0.30           Horz(CT)         0.01           Wind(LL)         0.27	n (loc) 10-13 2-13 9 2-13	l/defl L/d >999 360 >509 240 n/a n/a >556 240	PLATES MT20 Weight: 256 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP REACTIONS. (size Max H Max U Max G	No.1 No.1 No.2 9) 9=0-3-8, 2=0-3-8, 13= orz 2=235(LC 9) plift 9=-50(LC 13), 2=-74(L rav 9=785(LC 24), 2=499(	0-3-8 _C 9), 13=-203 _LC 23), 13=15	(LC 9) 46(LC 2)	BRACING- TOP CHORD BOT CHORD WEBS	Structura 2-0-0 oc Rigid cei 1 Row at	al wood sheathing di purlins (6-0-0 max.) ling directly applied : midpt	irectly applied or 6-0-0 c ): 5-7. or 10-0-0 oc bracing. 5-13, 6-13, 3-13	oc purlins, except
FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-13=           WEBS         5-13=	Comp./Max. Ten All forc 362/156, 6-7=-499/222, 7- 179/279, 10-13=-68/254, 364/114, 6-13=-815/234,	es 250 (lb) or l 8=-702/200, 8- 9-10=-65/665 6-10=-23/514,	ess except when shown. 9=-934/210 8-10=-408/264, 3-13=-4	40/329				
<ol> <li>Unbalanced roof live</li> <li>Wind: ASCE 7-10; V and C-C Exterior(2) 22-9-8 to 27-2-5, Int Lumber DOL=1.60 p</li> <li>Desuida adaquate d</li> </ol>	loads have been consider fult=130mph Vasd=103mpi -1-1-9 to 3-3-4, Interior(1) : erior(1) 27-2-5 to 33-7-4 zo late grip DOL=1.60	red for this des h; TCDL=6.0ps 3-3-4 to 10-11- one; porch left o	ign. sf; BCDL=6.0psf; h=15ft; 8, Exterior(2) 10-11-8 to exposed;C-C for member	Cat. II; Exp C; Enclosed 15-4-5, Interior(1) 15-4- rs and forces & MWFRS	l; MWFRS 5 to 22-9-8 6 for reaction	(envelope) 3, Exterior(2) ons shown;		

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 30.0psf 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 50 lb uplift at joint 9, 74 lb uplift at joint 2 and 203 lb uplift at joint 13.

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







	5-5-4	10-10-8	12-8-12	22-10-8	1	28-3-12	33-9-0	T. T
	5-5-4	5-5-4	1-10-4	10-1-12		5-5-4	5-5-4	1
Plate Offsets (X,Y)	[2:0-10-0,0-1-9]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.15 1.15 YES 12014	<b>CSI.</b> TC 0.17 BC 0.40 WB 0.37 Matrix-S	DEFL. in Vert(LL) -0.17 Vert(CT) -0.30 Horz(CT) 0.01 Wind(LL) 0.27	(loc) l/de 10-13 >99 2-13 >50 9 n 2-13 >55	efl L/d 99 360 99 240 /a n/a 56 240	<b>PLATES</b> MT20 Weight: 257 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP REACTIONS. (size Max H Max U Max G	P No.1 P No.1 No.2 e) 9=0-3-8, 2=0-3-8, 13= orz 2=235(LC 9) plift 9=-50(LC 13), 2=-74( rav 9=785(LC 24), 2=499	=0-3-8 LC 9), 13=-203( (LC 23), 13=154	LC 9) 46(LC 2)	BRACING- TOP CHORD BOT CHORD WEBS	Structural w 2-0-0 oc pur Rigid ceiling 1 Row at mi	ood sheathing dir lins (6-0-0 max.): directly applied c dpt 5:	ectly applied or 6-0-0 c 5-7. r 10-0-0 oc bracing. -13, 6-13, 3-13	oc purlins, except
FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-13=           WEBS         5-13=	Comp./Max. Ten All ford 362/158, 6-7=-499/232, 7- =-179/279, 10-13=-68/254 =-364/118, 6-13=-815/252	ces 250 (lb) or le -8=-702/204, 8-9 , 9-10=-78/665 , 6-10=-27/514,	ess except when shown. 9=-934/215 8-10=-408/281, 3-13=-44	10/347				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V and C-C Exterior(2) 22-9-8 to 29-0-3, Intr Lumber DOL=1.60 p	e loads have been conside /ult=130mph Vasd=103mp -1-1-9 to 3-3-4, Interior(1) erior(1) 29-0-3 to 33-7-4 z olate grip DOL=1.60	ered for this desi h; TCDL=6.0ps 3-3-4 to 10-11-4 one; porch left e	gn. f; BCDL=6.0psf; h=15ft; ( 8, Exterior(2) 10-11-8 to 1 xposed;C-C for members	Cat. II; Exp C; Enclosed I7-2-3, Interior(1) 17-2- s and forces & MWFRS	; MWFRS (er 3 to 22-9-8, E for reactions	ivelope) xterior(2) shown;		

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 30.0psf 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 50 lb uplift at joint 9, 74 lb uplift at joint 2 and 203 lb uplift at joint 13.

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







	5-5-4 10-10-8	12-8-12	<u>22-10-8</u> 10-1-12	28-3-12	33-9-0 5-5-4	
Plate Offsets (X,Y)	[2:0-10-0,0-1-9]		10 1 12			
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	<b>CSI.</b> TC 0.17 BC 0.40 WB 0.37 Matrix-S	DEFL.         in           Vert(LL)         -0.17           Vert(CT)         -0.30           Horz(CT)         0.01           Wind(LL)         0.27	(loc) l/defl L/d 12-15 >999 360 2-15 >510 240 10 n/a n/a 2-15 >557 240	<b>PLATES</b> MT20 Weight: 261 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S WEBS 2x4 S	P No.1 P No.1 P No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir 2-0-0 oc purlins (6-0-0 max.): Rigid ceiling directly applied o 1 Row at midpt 5	ectly applied or 6-0-0 c 5-7. or 10-0-0 oc bracing. -15, 6-15, 3-15	oc purlins, except
REACTIONS. (siz Max H Max U Max 0	te) 2=0-3-8, 15=0-3-8, 10=0-3-8 Horz 2=241(LC 11) Jplift 2=-77(LC 9), 15=-197(LC 9), 10=-7 Grav 2=499(LC 23), 15=1543(LC 2), 10=	2(LC 13) 865(LC 24)		·		
FORCES.(lb) - MaxTOP CHORD2-3=BOT CHORD2-15WEBS5-15	. Comp./Max. Ten All forces 250 (lb) or -362/168, 6-7=-499/236, 7-9=-699/205, 9 =-171/286, 12-15=-87/266, 10-12=-51/69 =-364/103, 6-15=-811/246, 6-12=-21/510	less except when shown. -10=-929/217 :8 ), 9-12=-413/275, 3-15=-440	/347			
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-10; and C-C Exterior(2) 22-9-8 to 29-0-3, In Lumber DOL=1.60	e loads have been considered for this de Vult=130mph Vasd=103mph; TCDL=6.0p -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-1 terior(1) 29-0-3 to 34-10-9 zone; porch le plate grip DQL=1.60	sign. sf; BCDL=6.0psf; h=15ft; Ca -8, Exterior(2) 10-11-8 to 17 ft exposed;C-C for members	at. II; Exp C; Enclosed -2-3, Interior(1) 17-2-3 and forces & MWFR	; MWFRS (envelope) 3 to 22-9-8, Exterior(2) S for reactions shown;		

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 30.0psf 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 77 lb uplift at joint 2, 197 lb uplift at joint 15 and 72 lb uplift at joint 10.

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







	5-5-4 10-10-8	12-8-12	22-10-8	28-3-12	33-9-0 5-5-4	
Plate Offsets (X,Y)-	· [2:0-10-0,0-1-9]	1-10-4	10-1-12	3-3-4	J=J= <del>1</del>	
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 0.40 WB 0.37 Matrix-S	DEFL.         in           Vert(LL)         -0.17           Vert(CT)         -0.30           Horz(CT)         0.01           Wind(LL)         0.27	(loc) l/defl L/d 12-15 >999 360 2-15 >510 240 10 n/a n/a 2-15 >557 240	<b>PLATES</b> MT20 Weight: 261 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 BOT CHORD 2x6 WEBS 2x4	SP No.1 SP No.1 SP No.2	· · · · ·	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dir 2-0-0 oc purlins (6-0-0 max.): Rigid ceiling directly applied o 1 Row at midot 5	ectly applied or 6-0-0 o 5-7. or 10-0-0 oc bracing. -15. 6-15. 3-15	c purlins, except
REACTIONS. ( Ma Ma Ma	size) 2=0-3-8, 15=0-3-8, 10=0-3-8 x Horz 2=241(LC 11) x Uplift 2=-77(LC 9), 15=-197(LC 9), 10=- <sup>-</sup> x Grav 2=499(LC 23), 15=1543(LC 2), 10	72(LC 13) =865(LC 24)				
FORCES.(lb) - MTOP CHORD2-BOT CHORD2-WEBS5-	ax. Comp./Max. Ten All forces 250 (lb) c 3=-362/168, 6-7=-499/236, 7-9=-699/205, 15=-171/286, 12-15=-87/266, 10-12=-51/6 15=-364/103, 6-15=-811/246, 6-12=-21/51	r less except when shown. 9-10=-929/217 58 0, 9-12=-413/275, 3-15=-440	)/347			
NOTES- 1) Unbalanced roof 2) Wind: ASCE 7-10 and C-C Exterior 22-9-8 to 29-0-3, Lumber DOL=1.6	live loads have been considered for this d ); Vult=130mph Vasd=103mph; TCDL=6.0 (2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-1 Interior(1) 29-0-3 to 34-10-9 zone; porch I 0 plate grip DOL=1.60	esign. psf; BCDL=6.0psf; h=15ft; C; 1-8, Exterior(2) 10-11-8 to 1; eft exposed;C-C for member;	at. II; Exp C; Enclosed 7-2-3, Interior(1) 17-2-3 s and forces & MWFR	; MWFRS (envelope) 3 to 22-9-8, Exterior(2) S for reactions shown;		

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 30.0psf 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 77 lb uplift at joint 2, 197 lb uplift at joint 15 and 72 lb uplift at joint 10.

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







	5-3-8 10-7-0	12-5-4	22-7-0		32-4-14	33-5-8	
Plate Offsets (X,Y)	<u> </u>	1-10-4	10-1-12		9-9-14	1-0-10	
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 0.39 WB 0.37 Matrix-S	DEFL. ir Vert(LL) -0.16 Vert(CT) -0.28 Horz(CT) 0.01 Wind(LL) 0.27	n (loc) l/defl 5 8-11 >999 3 1-11 >521 7 n/a 7 1-11 >557	L/d 360 240 n/a 240	PLATES MT20 Weight: 264 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP 12-13:: WEBS 2x4 SP WEDGE Left: 2x4 SP No.3	No.1 No.1 *Except* 2x4 SP No.1 No.2	· /	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	(6-0-0 max.): 3 ectly applied or 3-1	ctly applied or 6-0-0 o -5. 10-0-0 oc bracing. 1, 4-11, 2-11	c purlins, except
REACTIONS. (size Max H Max U Max G	e) 1=0-3-8, 7=0-3-8, 11=0-3-8 orz 1=221(LC 9) plift 1=-66(LC 9), 7=-50(LC 13), 11=-19 rav 1=411(LC 23), 7=787(LC 24), 11=1	8(LC 9) 515(LC 2)					
FORCES.         (lb) - Max.           TOP CHORD         1-2=-           BOT CHORD         1-11=           WEBS         3-11=	Comp./Max. Ten All forces 250 (lb) o 352/153, 4-5=-503/224, 5-6=-697/205, -176/275, 8-11=-61/257, 7-8=-66/667 -354/107, 4-11=-812/235, 4-8=-22/502	less except when shown. 5-7=-937/214 6-8=-407/264, 2-11=-418/	/316				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V and C-C Exterior(2) 22-6-0 to 26-10-13, 1 shown; Lumber DOL 3) Provide adequate dr 4) This truss has been will fit between the b 6) Provide mechanical and 198 lb uplift at jo 7) Graphical purlin repr	e loads have been considered for this de fult=130mph Vasd=103mph; TCDL=6.0 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-8 Interior(1) 26-10-13 to 33-3-12 zone; po =1.60 plate grip DOL=1.60 ainage to prevent water ponding. designed for a 10.0 psf bottom chord lin n designed for a live load of 30.0psf on ottom chord and any other members, w connection (by others) of truss to bearin pint 11.	sign. 5f; BCDL=6.0psf; h=15ft; -0, Exterior(2) 10-8-0 to 15 rch left exposed;C-C for m re load nonconcurrent with the bottom chord in all area ith BCDL = 10.0psf. ng plate capable of withstan ne orientation of the purlin	Cat. II; Exp C; Enclosed 5-0-13, Interior(1) 15-0- embers and forces & M any other live loads. as where a rectangle 3- nding 66 lb uplift at join along the top and/or bo	d; MWFRS (envelo 13 to 22-6-0, Exte IWFRS for reactio 6-0 tall by 2-0-0 w t 1, 50 lb uplift at ju ttom chord.	ope) rior(2) ns vide oint 7	THORTH CA	AROLIN







	5-3-8 10-7-0	12-5-4	22-7-0	28-0-4	33-5-8				
Plate Offsets (X,Y)	5-3-6 [1:0-6-0,0-0-6], [7:0-1-13,Edge]	1-10-4	10-1-12	5-5-4	5-5-4				
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 0.17 BC 0.39 WB 0.38 Matrix-S	DEFL.         in           Vert(LL)         -0.15           Vert(CT)         -0.29           Horz(CT)         0.01           Wind(LL)         0.27	(loc) l/defl L/d 8-11 >999 360 1-11 >516 240 7 n/a n/a 1-11 >558 240	PLATES MT20 Weight: 264 lb	<b>GRIP</b> 244/190 FT = 20%			
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP 12-13: WEBS 2x4 SP WEDGE Left: 2x4 SP No.3	' No.1 No.1 *Except* 2x4 SP No.1 ' No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing 2-0-0 oc purlins (6-0-0 max Rigid ceiling directly applie 1 Row at midpt	directly applied or 6-0-0 c (.): 3-5. d or 10-0-0 oc bracing. 3-11, 4-11, 2-11	c purlins, except			
IEACTIONS. (size) 1=0-3-8, 7=0-3-8, 11=0-3-8 Max Horz 1=221(LC 11) Max Uplift 1=-65(LC 9), 7=-50(LC 13), 11=-198(LC 9) Max Grav 1=411(LC 23), 7=787(LC 24), 11=1514(LC 2)									
FORCES.         (lb) - Max.           TOP CHORD         1-2=-           BOT CHORD         1-11=           WEBS         3-11=	Comp./Max. Ten All forces 250 (lb) or 352/153, 4-5=-498/231, 5-6=-691/205, 6 =-176/276, 8-11=-61/258, 7-8=-79/666 =-355/110, 4-11=-814/250, 4-8=-24/503,	less except when shown. -7=-935/219 6-8=-410/282, 2-11=-418/33	32						
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-8-0, Exterior(2) 22-6-0 to 28-8-11, Interior(1) 28-8-11 to 33-3-12 zone; porch left exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5) * This truss has been designed for a live load of 30.0psf 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.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1, 50 lb uplift at joint 7 and 198 lb uplift at joint 11.</li> <li>7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ul>									







	3-1-11 10-7-0	11-7-0 16-7-0	21-7-0 2	<u>2-7-φ 28-0-4</u>		33-5-8	
	3-1-11 7-5-5	1-0-0 5-0-0	5-0-0	1-0-0 5-5-4		5-5-4	
Plate Offsets (X,Y)	[3:0-3-0,0-3-12]						
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 YES Code IRC2015/TPI2014	<b>CSI.</b> TC 0.33 BC 0.48 WB 0.56 Matrix-S	DEFL.         ii           Vert(LL)         -0.1           Vert(CT)         -0.2           Horz(CT)         0.0           Wind(LL)         0.0	in (loc) l/defl 4 12-15 >999 3 15-16 >999 3 11 n/a 2 12-15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 305 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF 9-11: 2	P No.1 P No.1 P No.2 *Except* tx6 SP No.1		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end verti Rigid ceiling dird 1 Row at midpt	sheathing dire cals, and 2-0- ectly applied o 5-	ectly applied or 6-0-0 0 oc purlins (6-0-0 ma r 10-0-0 oc bracing. -15, 5-12, 8-12, 8-11	oc purlins, ıx.): 1-3, 4-6.
REACTIONS. (siz Max H Max U Max C	e) 16=0-3-8, 11=0-3-8 lorz 16=-255(LC 8) iplift 16=-38(LC 12), 11=-48(LC 13) Grav 16=1328(LC 1), 11=1457(LC 2)						
FORCES.         (lb) - Max.           TOP CHORD         3-4=:           9-11:         9-11:           BOT CHORD         15-10           WEBS         3-16:           8-11:         8-11:	Comp./Max. Ten All forces 250 (lb) -1409/373, 4-5=-1033/389, 5-6=-1079 =-522/250 6=-170/982, 12-15=-62/1129, 11-12=- =-1449/450, 5-15=-301/169, 5-12=-28 =-1131/237	or less except when showr /395, 6-8=-1426/409, 8-9=- 136/1054 2/162, 4-15=-15/520, 6-12=	n. -526/174, =-81/570,				
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-10; \ and C-C Exterior(2) Exterior(2) 22-6-0 tc MWFRS for reaction</li> <li>3) Provide adequate d</li> <li>4) This truss has been</li> <li>5) * This truss has been</li> <li>will fit between the t</li> <li>6) Provide mechanical joint 11.</li> <li>7) Graphical purlin rep</li> </ul>	e loads have been considered for this /ult=130mph Vasd=103mph; TCDL=6 0-0-0 to 3-1-11, Interior(1) 3-1-11 to 7 0 26-10-13, Interior(1) 26-10-13 to 34- hs shown; Lumber DOL=1.60 plate grainage to prevent water ponding. designed for a 10.0 psf bottom chord in designed for a live load of 30.0psf of bottom chord and any other members connection (by others) of truss to bear resentation does not depict the size of	design. .0psf; BCDL=6.0psf; h=15ft 0-8-0, Exterior(2) 10-8-0 to 7-1 zone; end vertical right of p DOL=1.60 live load nonconcurrent wit n the bottom chord in all ard with BCDL = 10.0psf. ring plate capable of withst r the orientation of the purlir	t; Cat. II; Exp C; Enclose 15-0-13, Interior(1) 15-( exposed;C-C for member th any other live loads. reas where a rectangle 3 tanding 38 lb uplift at joir n along the top and/or bo	d; MWFRS (envelo -13 to 22-6-0, ers and forces & -6-0 tall by 2-0-0 w at 16 and 48 lb upli bttom chord.	ope) ide ft at	SE 036	AD SICK AND AL 322 VEER. P. M. MINING GILBERTING



A. GI A. GILLIN



<b>⊢</b>	<u>5-1-11</u> <u>10-7-0</u> 5-1-11 <u>5-5-5</u>	11-7-0 16-7-0	21-7-0 22	<u>-7-0 27-10-8</u>	28 <sub>1</sub> 0-4	33-5-8			
Plate Offsets (X,Y)	[3:0-3-0,0-3-12]	100 000	000 1	00 000	0112	004			
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	<b>CSI.</b> TC 0.28 BC 0.49 WB 0.39 Matrix-S	DEFL.         in           Vert(LL)         -0.12           Vert(CT)         -0.24           Horz(CT)         0.03           Wind(LL)         0.02	(loc) l/defl 15-16 >999 15-16 >999 11 n/a 12-15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 308 lb	<b>GRIP</b> 244/190 FT = 20%		
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP 9-11: 2: REACTIONS. (size Max Hu Max U Max G	IMBER- DP CHORD     2x6 SP No.1     BRACING- TOP CHORD       2x4 SP No.2 *Except* 9-11: 2x6 SP No.1     TOP CHORD     Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-6.       EBS     2x4 SP No.2 *Except* 9-11: 2x6 SP No.1     BOT CHORD     Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt       EACTIONS.     (size)     16=0-3-8, 11=0-3-8 Max Horz     16=-253(LC 8) Max Uplift 16=-46(LC 12), 11=-43(LC 13) Max Grav 16=1422(LC 2), 11=1478(LC 2)       DRCES.     (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.								
FORCES.         (lb) - Max.           TOP CHORD         3-4=- 9-11=           BOT CHORD         15-16           WEBS         5-15= 6-12=	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       3-4=-1435/375, 4-5=-1087/368, 5-6=-1099/387, 6-8=-1450/399, 8-9=-537/172, 9-11=-530/249         BOT CHORD       15-16=-118/1062, 12-15=-53/1169, 11-12=-129/1072         WEBS       5-15=-304/156, 3-16=-1511/419, 5-12=-285/157, 8-12=-253/220, 4-15=-57/586, 6-12=-77/588, 8-11=-1136/230								
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 22-6-0, Exterior(2) 22-6-0 to 26-10-13, Interior(1) 26-10-13 to 34-7-1 zone; end vertical right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a live load of 30.0psf 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.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 16 and 43 lb uplift at joint 16 and 43 lb uplift at joint 11.</li> <li>7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ul>									







F	7-1-11 10-7-0	11-7-0 16-7-0	21-7-0 22-	7-0 27-10-8 28-0-4	4 33-5-8					
Plate Offsets (X,Y)	[3:0-3-0,0-3-12]	1-0-0 5-0-0	5-0-0 1-0	J-0	2 3-3-4					
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 0.31 BC 0.59 WB 0.71 Matrix-S	DEFL.         in           Vert(LL)         -0.21           Vert(CT)         -0.34           Horz(CT)         0.03           Wind(LL)         0.03	(loc) l/defl L/d 15-16 >999 360 15-16 >999 240 11 n/a n/a 12-15 >999 240	PLATES MT20 Weight: 313 lb	<b>GRIP</b> 244/190 FT = 20%				
LUMBER-           TOP CHORD         2x6 :           BOT CHORD         2x6 :           WEBS         2x4 :           9-11	SP No.1 SP No.1 SP No.2 *Except* 2x6 SP No.1		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing except end verticals, and 2 Rigid ceiling directly applie 1 Row at midpt	directly applied or 6-0-0 d 2-0-0 oc purlins (6-0-0 ma ed or 10-0-0 oc bracing. 5-15, 3-16, 5-12, 8-12, 8	oc purlins, x.): 1-3, 4-6. 3-11, 3-15				
REACTIONS. (s Max Max Max	IEACTIONS. (size) 16-0-3-8, 11-0-3-8 Max Horz 16=-251(LC 8) Max Uplift 16=-74(LC 8), 11=-36(LC 13) Max Grav 16=1487(LC 2), 11=1499(LC 2)									
FORCES.         (lb) - Ma           TOP CHORD         3-4           9-1           BOT CHORD         15-           WEBS         5-1           6-1	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       3-4=-1468/376, 4-5=-1140/337, 5-6=-1122/375, 6-8=-1477/381, 8-9=-547/169, 9-11=-536/246         BOT CHORD       15-16=-74/1113, 12-15=-40/1208, 11-12=-118/1090         WEBS       5-15=-304/151, 3-16=-1567/406, 5-12=-286/148, 8-12=-257/222, 4-15=-98/691, 6-12=-68/606, 8-11=-1153/218									
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 20-0 to 4-4-13, Interior(1) 4-4-13 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 22-6-0, Exterior(2) 22-6-0 to 26-10-13, Interior(1) 26-10-13 to 34-7-1 zone; end vertical right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5) * This truss has been designed for a live load of 30.0psf 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.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 16 and 36 lb uplift at joint 11.</li> <li>7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ul>										







	9-1-11	10-7-0 11-7-0	16-7-0		21-7-0	2	2-7-0	28-0-4		-	33-6-8	
Plate Offsets (X,Y)	[3:0-3-0,0-3-12], [9:Edge,0-0-1]	100 100	000		000		00	004			004	
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 BC WB Matri	0.42 0.63 0.86 ix-S		DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.24 -0.37 0.04 0.03	(loc) 13-14 13-14 9 10-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240		PLATES MT20 Weight: 315 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP SLIDER Right 2 REACTIONS. (size Max H Max U Max G	LUMBER- TOP CHORD     2x6 SP No.1     BRACING- TOP CHORD       30T CHORD     2x6 SP No.1     TOP CHORD     Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-6.       WEBS     2x4 SP No.2     BOT CHORD     Rigid ceiling directly applied or 10-0-0 oc bracing.       SLIDER     Right 2x8 SP No.1 3-10-2     WEBS     1 Row at midpt     2-14, 3-13, 5-13, 5-10, 7-10       REACTIONS.     (size)     14=0-3-8, 9=Mechanical Max Horz     WEBS     1 Row at midpt     2-14, 3-13, 5-10, 7-10       Max Uplift 14=-125(LC 13) Max Grav 14=1541(LC 2), 9=-11483(LC 2)     Max Horz     14=1541(LC 2), 9=-11483(LC 2)     3-14											
FORCES.         (lb) - Max.           TOP CHORD         2-14=           7-9=-         7-9=-           BOT CHORD         13-14           WEBS         3-14=           6-10=         6-10=	FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-14=-256/136, 3-4=-1532/394, 4-5=-1199/312, 5-6=-1184/364, 6-7=-1525/367, 7-9=-1739/366         BOT CHORD       13-14=-32/1195, 10-13=-20/1273, 9-10=-132/1173         WEBS       3-14=-1617/407, 5-13=-20/1273, 9-10=-270/139, 7-10=-287/230, 4-13=-169/827, 6-10=-58/632											
<ul> <li>NOTES-</li> <li>I) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 22-6-0, Exterior(2) 22-6-0 to 26-10-13, Interior(1) 26-10-13 to 33-6-8 zone;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a live load of 30.0psf 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.</li> <li>3) Refer to girder(s) for truss to truss connections.</li> <li>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 14 and 11 lb uplift at joint 9.</li> <li>8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ul>												







	7-6-3	14-10-14	22-3-8	22 <sub>1</sub> 7-0	31-2-5	33-6-8			
<u></u>	7-6-3	7-4-11 '	7-4-10	0-'3'-8	8-7-5	2-4-3			
Plate Offsets (X,Y)	[6:0-2-4,0-3-8], [7:0-3-0,0-3-12], [16:0-3	-8,0-1-8]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.65 BC 0.35 WB 0.96 Matrix-S	DEFL.         ir           Vert(LL)         -0.10           Vert(CT)         -0.20           Horz(CT)         0.02           Wind(LL)         0.03	l (loc) l/defl 11-12 >999 11-12 >999 11 n/a 14 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 296 lb	<b>GRIP</b> 244/190 FT = 20%		
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S WEBS 2x4 S REACTIONS (sin Max Max Max	P No.1 P No.1 P No.2 e) 17=Mechanical, 11=Mechanical Horz 17=-234(LC 13) Jplift 17=-157(LC 8), 11=-15(LC 8) Grav 17=1576(LC 2), 11=1360(LC 2)		BRACING- TOP CHORD BOT CHORD WEBS	Structural woo except end ver Rigid ceiling di 1 Row at midp	d sheathing dired rticals, and 2-0-0 irectly applied or t 2-1	ctly applied or 5-8-3 o oc purlins (6-0-0 max 10-0-0 oc bracing. 17, 3-16, 5-14	c purlins, (.): 1-6, 7-9.		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         FOP CHORD       2-17=-1388/392, 2-3=-908/214, 3-5=-1222/319, 5-6=-1223/320, 6-7=-1531/284         BOT CHORD       16-17=-260/289, 14-16=-50/931, 12-14=-57/1077, 11-12=-224/925         WEBS       2-16=-359/1523, 3-16=-907/393, 3-14=-184/532, 5-14=-472/213, 6-14=-130/323, 6-12=0/378, 7-11=-1554/422									
NOTES-	e loads have been considered for this de	sian							

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 22-7-0, Exterior(2) 22-7-0 to 26-11-13, Interior(1) 26-11-13 to 33-6-8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 17 and 15 lb uplift at joint 11.

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







	8-2-3	16-2-14	24-7	7-0	29-2-5	33-6-8	1		
I	8-2-3	8-0-11	8-4	-2	4-7-5	4-4-3			
Plate Offsets (X,Y)	[6:0-2-8,0-2-12], [7:0-3-0,0-3-12], [16	6:0-3-8,0-1-8]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.40 BC 0.32 WB 0.99 Matrix-S	DEFL.         in           Vert(LL)         -0.08           Vert(CT)         -0.13           Horz(CT)         0.03           Wind(LL)         0.04	(loc) l/defl 12-14 >999 12-14 >999 11 n/a 14 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 281 lb	<b>GRIP</b> 244/190 FT = 20%		
LUMBER-       BRACING-         TOP CHORD       2x6 SP No.1         BOT CHORD       2x6 SP No.1         WEBS       2x4 SP No.2         REACTIONS.       (size)         Max Horz       17=-126(LC 13)         Max Grav       17=1544(LC 2), 11=1367(LC 2)									
FORCES. (ib) - Max. Comp./Max. Ten All forces 250 (ib) or less except when shown.         FOP CHORD       2-17=-1345/372, 2-3=-1132/251, 3-5=-1457/352, 5-6=-1459/354, 6-7=-1503/317         30T CHORD       14-16=-102/1132, 12-14=-162/1126, 11-12=-229/1059         NEBS       2-16=-359/1621, 3-16=-872/370, 3-14=-156/477, 5-14=-519/252, 6-14=-111/526, 6-12=0/311, 7-11=-1583/348									
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V and C-C Exterior(2) members and forces	e loads have been considered for this /ult=130mph Vasd=103mph; TCDL=6 0-0-0 to 4-4-13, Interior(1) 4-4-13 to : s & MWFRS for reactions shown; Lur	design. 3.0psf; BCDL=6.0psf; h=15ft; Cat 24-7-0, Exterior(2) 24-7-0 to 29-2 nber DOL=1.60 plate grip DOL=1	. II; Exp C; Enclosed -5, Interior(1) 29-2-5 .60	; MWFRS (envelop i to 33-6-8 zone;C-	be) C for				

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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 17 and 40 lb uplift at joint 11.

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







	8-10-3 8 10 3 8 8 11			26-7-0					2 <u>7-2-</u> 5	33-6-8	
Plate Offect	te (X X)	8-10-3 16:0 1 12:0 5 01 112:0 3 8 0 1 81 116:0	8-8-11			9-0	)-2		0-7-5	6-4-3	
Fiale Oliset	ls (A, I)	[0.0-1-12,0-3-0], [12.0-3-8,0-1-6], [10.0	-3-0,0-1-0]								
LOADING	(psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL)	-0.10	12-14	>999	360		MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.35	Vert(CT)	-0.19	12-14	>999	240			
BCLL	0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT)	0.02	11	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.06	14	>999	240		Weight: 264 lb	FT = 20%
LUMBER- TOP CHOR BOT CHOR WEBS	RD 2x6 SP RD 2x6 SP 2x4 SP	No.1 No.1 No.2	BRACING- TOP CHORE BOT CHORE WEBS	<ul> <li>RD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-5 max.): 1-6, 7-9.</li> <li>RD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 2-17, 8-11</li> </ul>						oc purlins, x.): 1-6, 7-9.	
REACTION	IEACTIONS. (size) 17=0-3-8, 11=Mechanical Max Horz 17=-17(LC 13) Max Uplift 17=-138(LC 9), 11=-126(LC 9) Max Grav 17=1483(LC 2), 11=1456(LC 2)										
FORCES. TOP CHOR	(lb) - Max. RD 2-17=	Comp./Max. Ten All forces 250 (lb) o 1284/343, 2-3=-1436/294, 3-5=-1741/ 1219/259, 8, 41=, 1211/244	r less except when shown 384, 5-6=-1742/385, 6-7=-	-848/140,							
BOT CHOR	 2D 14-16	S=-275/1436 12-14=-251/196									
WEBS	2-16=	-367/1792, 3-16=-837/342, 3-14=-114/	421, 5-14=-527/259, 6-14	=-151/766.							
	6-12=	-859/338, 8-12=-343/1617	,,	,							
NOTES- 1) Unbaland 2) Wind: AS and C-C members 3) Provide a	<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 26-7-0, Exterior(2) 26-7-0 to 27-2-5, Interior(1) 27-2-5 to 33-6-8 zone; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> </ul>										
4) This trus	s has been	designed for a 10.0 psf bottom chord liv	ve load nonconcurrent with	n any other live load	ls.						0.00
5) * This tru	iss has beer	n designed for a live load of 30.0psf on	the bottom chord in all are	as where a rectang	gle 3-6-	-0 tall b	y 2-0-0 w	ide		11'''' C	AD
will fit bet	tween the b	ottom chord and any other members, w	vith BCDL = 10.0psf.							"ATH U	10/11
6) Refer to	girder(s) for	truss to truss connections.							1	OFFE	in Asia
<ol><li>Provide r</li></ol>	mechanical	connection (by others) of truss to bearing	ng plate capable of withsta	anding 138 lb uplift a	at joint	17 and	l 126 lb uj	plift 🖌	in	20FL	Phi a
at joint 1	at joint 11.										

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









JUJ22-4002		2 Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,	8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 28 14:22:32 2022 Page 2

ID:bQvsGPWvSL10qXvCwS3Rm6yZPNi-byVtXCscVEWLa7c4UA03SaWLIVqlxpYblHS36syZ4A5

# LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-20, 2-8=-60, 8-9=-20, 10-18=-20

Concentrated Loads (lb)

Vert: 2=-154(F) 4=-122(F) 15=-43(F) 6=-122(F) 13=-43(F) 19=-122(F) 20=-122(F) 21=-122(F) 22=-122(F) 23=-122(F) 24=-122(F) 25=-122(F) 26=-122(F) 26=-122(F) 27=-122(F) 28=-122(F) 29=-122(F) 30=-122(F) 31=-122(F) 32=-122(F) 33=-43(F) 35=-43(F) 36=-43(F) 37=-43(F) 38=-43(F) 39=-43(F) 41=-43(F) 42=-43(F) 44=-43(F) 45=-43(F) 46=-43(F) 46=-43(F) 47=-43(F) 48=-43(F) 50=-43(F)





	6-11-8	<u>7</u> -11-8 18	8-11-8	24-3-8	29	9-11-0			
	6-11-8	1-0-0 1	11-0-0	5-4-0	'	5-7-8			
Plate Offsets (X,Y)	[7:Edge,0-0-1]								
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 0.38 BC 0.53 WB 0.30 Matrix-S	DEFL.         in           Vert(LL)         -0.19           Vert(CT)         -0.25           Horz(CT)         0.02           Wind(LL)         0.02	(loc) l/defl 8-10 >999 8-10 >999 7 n/a 8-10 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 258 lb	<b>GRIP</b> 244/190 FT = 20%		
LUMBER-BRACING-TOP CHORD2x6 SP No.1TOP CHORDStructural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.WEBS2x4 SP No.2BOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.SLIDERRight 2x8 SP No.1 3-10-15WEBS1 Row at midpt3-10, 3-8									
REACTIONS.         (size)         7=Mechanical, 11=Mechanical           Max Horz         11=-240(LC 8)         )           Max Uplift         7=-29(LC 13), 11=-9(LC 12)           Max Grav         7=1296(LC 2), 11=1235(LC 2)									
FORCES.         (lb) - Max.           TOP CHORD         1-2=           1-11         1-11           BOT CHORD         8-10           WEBS         3-10	Comp./Max. Ten All forces 250 -1055/313, 2-3=-760/336, 3-4=-958 =-1198/337 =-67/954, 7-8=-141/1012 =-441/161, 5-8=-290/244, 1-10=-10	(lb) or less except when show /382, 4-5=-1303/396, 5-7=-1 )7/841, 2-10=-12/353, 4-8=-74	wn. 1518/375, 74/496						
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 7-0-8, Exterior(2) 7-0-8 to 13-3-3, Interior(1) 13-3-3 to 18-10-8, Exterior(2) 18-10-8 to 25-1-3, Interior(1) 25-1-3 to 29-11-0 zone;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 g) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5) * This truss has been designed for a live load of 30.0psf 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.</li> <li>6) Refer to girdsr(c) for truss to truss connections</li> </ul>									

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 7 and 9 lb uplift at joint 11.

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







	<b> </b>	6-11-8	7-11-8	12-11-8	18-11-8		27-6-	13	29-11-0	
	10-0.0.0.0.0.0.0.0	6-11-8	1-0-0	5-0-0	6-0-0		8-7-	5	2-4-3	
Plate Offsets (X,Y)	[2:0-2-8,0-2-14], [4:0-3-0,	0-3-14], [5:0-3	-0,0-3-12]							
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES Pl2014	<b>CSI.</b> TC BC WB Matrix	0.37 0.52 0.30 x-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	in (lo 23 10- <sup>2</sup> 29 10- <sup>2</sup> 02 02 10- <sup>2</sup>	oc) l/defl 12 >999 12 >999 9 n/a 12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 254 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD     2x6 SP No.1     DOP CHORD     Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 20 oc purlins (6-0-0 max.): 2-4, 5-7.       WEBS     2x4 SP No.2     BOT CHORD 2x6 SP No.1     Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS     1 Row at midpt     3-12, 3-10										c purlins, (.): 2-4, 5-7.
IEACTIONS.       (size)       9=Mechanical, 13=Mechanical         Max Horz       13=-171(LC 8)         Max Uplift       9=-32(LC 13), 13=-6(LC 12)         Max Grav       9=1186(LC 1), 13=1194(LC 2)										
FORCES.         (lb) - Max.           TOP CHORD         1-2=-           BOT CHORD         10-12           WEBS         3-12=	Comp./Max. Ten All for -1002/295, 2-3=-741/319, 2=-104/890, 9-10=-242/80 =-436/154, 5-9=-1352/450	ces 250 (lb) or 3-4=-889/362, 8 , 1-12=-96/818	less except 4-5=-1286/3 3, 2-12=-7/33	when shown. 312, 1-13=-11 34, 4-10=0/41	62/318 6					
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V and C-C Exterior(2) 18-11-8 to 23-4-5, Ir plate grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) * This truss has been	e loads have been conside /ult=130mph Vasd=103mp 0-3-4 to 4-8-1, Interior(1) interior(1) 23-4-5 to 29-11-( ) rainage to prevent water p designed for a 10.0 psf bo n designed for a live load	ered for this de b; TCDL=6.0p 4-8-1 to 6-11-6 0 zone;C-C for conding. ottom chord liv of 30 Opef op 1	sign. osf; BCDL=6 3, Exterior(2) • members a e load nonco	.0psf; h=15ft; ) 6-11-8 to 11- nd forces & M poncurrent with	Cat. II; Exp C; Enclos 4-5, Interior(1) 11-4-5 WFRS for reactions s any other live loads.	ed; MW i to 18-1 shown; I	WFRS (envelop 11-8, Exterior(: Lumber DOL=	be) 2) 1.60		

5) I his truss has been designed for a live load of 30.0pst on the bottom chord in all areas where a rectangle 3-6-0 tail will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 9 and 6 lb uplift at joint 13.

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







		4-11-8	4-11-8 12-11-8		1	20	-11-8		1	25-6-13	29-11-0	1
		4-11-8	I	8-0-0	1	8	-0-0		1	4-7-5	4-4-3	
Plate Offsets (X	X,Y) [5	5:0-3-0,0-3-12]										
LOADING         (psf           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	f) 0 0 * 0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI	2-0-0 1.15 1.15 YES 2014	<b>CSI.</b> TC 0.32 BC 0.27 WB 0.86 Matrix-S		DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.10 0.02 0.02	(loc) 10-12 10-12 9 12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 256 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS.	2x6 SP 1 2x6 SP 1 2x4 SP 1 (size) Max Ho Max Up Max Gra	No.1 No.2 9=Mechanical, 14=Me rz 14=-93(LC 8) lift 9=-29(LC 13), 14=-27( av 9=1207(LC 2), 14=125	chanical (LC 9) 55(LC 2)			BRACING- TOP CHOR BOT CHOR WEBS	D	Structu except Rigid c 1 Row	ral wood end verti eiling dire at midpt	sheathing di cals, and 2-0 ectly applied	rectly applied or 6-0-0 o )-0 oc purlins (6-0-0 ma: or 10-0-0 oc bracing. 2-13, 3-12	c purlins, ‹.): 2-4, 5-7.
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	OPCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         OP CHORD       1-2=-861/243, 2-3=-1144/377, 3-4=-1144/377, 4-5=-1307/326, 1-14=-1245/302         30T CHORD       12-13=-112/634, 10-12=-168/951, 9-10=-232/922         VEBS       2-13=-421/179, 2-12=-158/759, 3-12=-561/268, 4-12=-115/343, 4-10=0/319, 5-9=-1377/352, 1-13=-130/887											
NOTES- 1) Unbalanced	roof live l	oads have been consider	ed for this desi	ian.								

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 9-4-5, Interior(1) 9-4-5 to 20-11-8, Exterior(2) 20-11-8 to 25-6-13, Interior(1) 25-6-13 to 29-11-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 9 and 27 lb uplift at joint 14.

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







L	2-4-3 2 <sub>1</sub> 11 <sub>7</sub> 8	13-1-4		1		22-11	1-8		23-6-13	29-11-0	
	2-4-3 0-7-5	10-1-12				9-10	-4		0-7-5	6-4-3	
Plate Offsets (X,Y)	[4:0-5-4,0-2-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.09	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.18	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TF	PI2014	Matrix-	S	Wind(LL)	0.05	13-15	>999	240	Weight: 245 lb	FT = 20%
LUMBER- TOP CHORD 2x6 BOT CHORD 2x6 WEBS 2x4	6 SP No.1 6 SP No.1 4 SP No.2				BRACING- TOP CHOR	۲D	Structu except 8-10.	ral wood s end vertica	heathing dire als, and 2-0-0	ectly applied or 6-0-0 o ) oc purlins (6-0-0 max	c purlins, ‹.): 1-3, 4-7,
					BOT CHOR WEBS	2D	Rigid c 1 Row	eiling direc at midpt	tly applied or 4-	<sup>·</sup> 10-0-0 oc bracing. 17	
REACTIONS. Ma Ma	(size) 17=Mechanical, 12=M ax Horz 17=-13(LC 8) ax Uplift 17=-102(LC 8), 12=-	Mechanical						·			
Ma	ax Grav 17=1255(LC 2), 12=1	1306(LC 2)									

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

- 4-5=-1405/330, 5-7=-1403/330, 7-8=-705/109, 8-9=-1031/219, 9-12=-1179/314 TOP CHORD
- BOT CHORD
- 16-17=-103/518, 15-16=-101/526, 13-15=-226/1044
- WEBS 4-16=0/432, 4-15=-255/1087, 5-15=-676/328, 7-15=-121/557, 7-13=-722/315,
  - 9-13=-296/1404, 4-17=-1400/289

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 2-4-3, Interior(1) 2-4-3 to 2-11-8, Exterior(2) 2-11-8 to 7-4-5, Interior(1) 7-4-5 to 22-11-8, Exterior(2) 22-11-8 to 23-6-13, Interior(1) 23-6-13 to 29-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 17 and 112 lb uplift at joint 12.

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







	9-11-0		19-8-8			29-11-0	
Plate Offsets (X Y)	<u>9-11-0</u> [10:0-3-8 0-1-8]		9-9-8			10-2-8	·
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	<b>CSI.</b> TC 0.47 BC 0.39 WB 0.54	DEFL. in Vert(LL) -0.08 Vert(CT) -0.17 Horz(CT) 0.01	(loc) l/defl 9-10 >999 12-13 >999 9 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	10-12 >999	240	Weight: 437 lb	FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF REACTIONS. (size	No.1 No.1 No.2 e) 13=Mechanical, 9=Mechanical		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins Rigid ceiling dire	(6-0-0 max.): ectly applied or	1-7, except end vertic r 10-0-0 oc bracing.	als.
Max U Max G	plift 13=-826(LC 4), 9=-826(LC 5) rav 13=2499(LC 30), 9=2530(LC 29)	less excent when shown					
TOP CHORD 2-13 BOT CHORD 10-12 WEBS 2-12	e-1033/3091 =-1165/3429, 3-12=-1278/853, 5-10=-12	/1032, 5-6=-3091/1033, 6- 77/851, 6-10=-1166/3491	9=-2236/928				
NOTES- 1) 2-ply truss to be con Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections haw 3) Wind: ASCE 7-10; V Lumber DOL=1.60 p 4) Provide adequate di 5) This truss has been 6) * This truss has been 9) Refer to girder(s) for 8) Provide mechanical at joint 9. 9) Graphical purlin repi 10) Hanger(s) or other 1-0-4, 165 lb down and 141 lb up at 9 14-10-12, 165 lb down and 141 lb up at 9 165 lb down and 1- 164 lb down and	nected together with 10d (0.131"x3") na ad as follows: 2x4 - 1 row at 0-9-0 oc, 2x ected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except if e been provided to distribute only loads i 'ult=130mph Vasd=103mph; TCDL=6.0p late grip DOL=1.60 ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv in designed for a live load of 30.0psf on t ottom chord and any other members, wi truss to truss connections. connection (by others) of truss to bearin resentation does not depict the size or th connection device(s) shall be provided s and 141 lb up at 3-0-4, 165 lb down an -0-4, 165 lb down and 141 lb up at 11-0 bown and 141 lb up at 16-10-12, 165 lb d41 lb up at 22-10-12, 165 lb down and 141 lb up at 28-10-12 on top chord, and 8 lb down at 9-0-4, 87 lb down at 21-0-12 o down at 28-10-12 on bottom chord. T	ils as follows: 6 - 2 rows staggered at 0- 1 at 0-9-0 oc. i noted as front (F) or back noted as (F) or (B), unless sif; BCDL=6.0psf; h=15f; of e load nonconcurrent with he bottom chord in all area th BCDL = 10.0psf. g plate capable of withstar re orientation of the purlin a sufficient to support concer d 141 lb up at 5-0-4, 165 l lown and 141 lb up at 18- 41 lb up at 24-10-12, and 37 lb down at 1-0-4, 87 lb 87 lb down at 22-10-12, he design/selection of suc	9-0 oc. (B) face in the LOAD CA otherwise indicated. Cat. II; Exp C; Enclosed; any other live loads. as where a rectangle 3-6- nding 826 lb uplift at joint along the top and/or botto htrated load(s) 164 lb dow b down and 141 lb up at 10-12, 165 lb down and 141 lb down at 3-0-4, 87 lb dow 7 lb down at 14-10-12, 8 87 lb down at 24-10-12, h connection device(s) is	SE(S) section. I MWFRS (envelo 0 tall by 2-0-0 w 13 and 826 lb u om chord. vn and 140 lb up 7-0-4, 165 lb do own and 141 lb 41 lb up at 20- up at 26-10-12, vn at 5-0-4, 87 l 7 lb down at and 87 lb down the responsibili	Ply to oppe); ride plift plift o at own up at 10-12, and b at ty of	SEA 0363	ARO AL B22 EFERANTIN FILBER FI
LOAD CASE(S) Stan	dard						
WARNING - Verify	besign parameters and READ NOTES ON THIS AND	INCLUDED MITEK REFERENCE	PAGE MII-7473 rev. 5/19/2020	BEFORE USE.		ENGINEE	RING BY



JUJ22-4002		<b>2</b> Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,	8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 28 14:22:38 2022 Page 2

ID:bQvsGPWvSL10qXvCwS3Rm6yZPNi-Q5s8oFxM44GUI23ErR7TirmKJwskLWpU8DvNKWyZ4A?

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-20, 2-6=-60, 6-7=-20, 8-14=-20

Concentrated Loads (lb)

Vert: 15=-127(B) 16=-122(B) 17=-122(B) 18=-122(B) 19=-122(B) 20=-122(B) 21=-122(B) 22=-122(B) 23=-122(B) 24=-122(B) 25=-122(B) 25=-122(B) 27=-122(B) 28=-122(B) 28=-122(B) 29=-127(B) 30=-43(B) 31=-43(B) 32=-43(B) 33=-43(B) 33=-43=-43(B) 44=-43(B)





L	3-6-5 6-6-7	12-5-0	18-3	3-9	21-3-11	24-10-0	
	3-6-5 3-0-2	5-10-9	5-10	)-9 '	3-0-2	3-6-5	
Plate Offsets (X,Y)	[8:0-3-0,0-4-0], [10:0-3-0,0-4-0]						
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2015/TPI2014	<b>CSI.</b> TC 0.32 BC 0.88 WB 0.68 Matrix-S	DEFL.         in           Vert(LL)         -0.21           Vert(CT)         -0.45           Horz(CT)         0.05           Wind(LL)         0.07	i (loc) l/defl 8-10 >999 8-10 >654 6 n/a 8-10 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 172 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP REACTIONS. (size Max H Max U Max G	No.1 No.1 No.2 e) 2=0-3-8, 6=0-3-8 orz 2=154(LC 26) plift 2=-592(LC 8), 6=-593(LC 9) rav 2=2059(LC 33), 6=2057(LC 34) Comp (Max. Ten All forces 250 (lb) or	less evcent when shown	BRACING- TOP CHORD BOT CHORD	Structural wood sh except 2-0-0 oc purlins (5- Rigid ceiling direct	eathing directl -2-10 max.): 3- ly applied or 7-	ly applied or 4-5-13 -5. -11-11 oc bracing.	oc purlins,
TOP CHORD 2-3=- BOT CHORD 2-10= WEBS 3-10=	Comp.//wax. 1en An forces 230 (ib) of 2877/824, 3-4=-2149/701, 4-5=-2145/70 650/2164, 8-10=-898/2570, 6-8=-569/2 263/1304, 4-10=-615/452, 4-8=-617/45	12, 5-6=-2872/825 2120 51, 5-8=-263/1300					
<ul> <li>NOTES- <ol> <li>Unbalanced roof live</li> <li>Wind: ASCE 7-10; V Lumber DOL=1.60 p</li> <li>Provide adequate dr</li> <li>This truss has been</li> <li>This truss has been will fit between the b</li> <li>Provide mechanical joint 6.</li> <li>Graphical purlin repr</li> <li>Hanger(s) or other c 6-6-7, 165 lb down at and 153 lb up at 14.</li> <li>446 lb down and 183.</li> <li>87 lb down at 16-2- device(s) is the resp</li> <li>In the LOAD CASE(s) Stand</li> <li>Dead + Roof Live (b Uniform Loads (plf) Vert: 1-3=-6</li> </ol></li></ul>	e loads have been considered for this de 'ult=130mph Vasd=103mph; TCDL=6.0p late grip DOL=1.60 ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 30.0psf on t ottom chord and any other members, wi connection (by others) of truss to bearin resentation does not depict the size or th onnection device(s) shall be provided su and 153 lb up at 8-7-3, 165 lb down and -2-13, and 165 lb down and 153 lb up at 7 lb up at 6-6-7, 87 lb down at 8-7-3, 87 13, and 446 lb down and 187 lb up at 18 onsibility of others. S) section, loads applied to the face of th dard alanced): Lumber Increase=1.15, Plate 18 50, 3-5=-60, 5-7=-60, 2-6=-20	sign. e load nonconcurrent with a he bottom chord in all areas th BCDL = 10.0psf. g plate capable of withstan- re orientation of the purlin a fficient to support concentr 153 lb up at 10-7-3, 165 lb 16-2-13, and 160 lb down l b down at 10-7-3, 87 lb d 8-2-13 on bottom chord. The the truss are noted as front ( Increase=1.15	any other live loads. s where a rectangle 3-4 ding 592 lb uplift at joir long the top and/or boi ated load(s) 160 lb doi b down and 153 lb up a and 156 lb up at 18-3 lown at 12-5-0, 87 lb d he design/selection of s (F) or back (B).	I; MWFRS (envelope 6-0 tall by 2-0-0 wide at 2 and 593 lb uplift ttom chord. wn and 156 lb up at tt 12-5-0, 165 lb dow -9 on top chord, and lown at 14-2-13, an such connection	e); e at d	SE/ 0363	ARONAL AL 322
	· · ·					A. (	

# Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the



September 29,2022

JU322-4002			
			Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,		8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 28 14:22:42 2022 Page 2
		II	D:bQvsGPWvSL10qXvCwS3Rm6yZPNi-It5fdc_t8JmwnfN?4HCQshx2WX79HHb42rtaSHyZ49x

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 3=-122(B) 5=-122(B) 9=-43(B) 10=-425(B) 4=-122(B) 8=-425(B) 11=-122(B) 12=-122(B) 13=-122(B) 14=-122(B) 15=-43(B) 16=-43(B) 17=-43(B) 18=-43(B)





	<u> </u>		16-5-0 8-0-0			24-10-0 8-5-0		
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	<b>CSI.</b> TC 0.37 BC 0.46 WB 0.14 Matrix-S	<b>DEFL.</b> i Vert(LL) -0.1: Vert(CT) -0.1: Horz(CT) 0.0: Wind(LL) 0.1:	n (loc) 4 5-7 3 5-7 2 5 5 2-9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 156 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER-			BRACING-					

# TOP CHORD 2x6 SP No.1

2x6 SP No.1 BOT CHORD WEBS 2x4 SP No.2 TOP CHORD

Structural wood sheathing directly applied or 5-10-15 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS. 2=0-3-8, 5=0-3-8 (size) Max Horz 2=190(LC 11) Max Uplift 2=-47(LC 12), 5=-47(LC 13) Max Grav 2=1269(LC 2), 5=1269(LC 2)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 2-3=-1584/309, 3-4=-1095/342, 4-5=-1584/309 TOP CHORD
- 2-9=-16/1112, 7-9=-17/1102, 5-7=-15/1114 BOT CHORD
- WEBS 3-9=0/632, 4-7=0/632

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 8-5-0, Exterior(2) 8-5-0 to 14-7-11, Interior(1) 14-7-11 to 16-5-0, Exterior(2) 16-5-0 to 22-7-11, Interior(1) 22-7-11 to 25-11-9 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.

\* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) 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 47 lb uplift at joint 2 and 47 lb uplift at ioint 5.

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







	8-5-0	10-5-0	<u>14-5-0</u> <u>16-3</u> 4-0-0 2-0	5-0	<u>24-10-0</u> 8-5-0	
Plate Offsets (X,Y)	[4:0-2-8,0-2-14], [5:0-2-8,0-2-14]	200	+00 20	0	000	
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 0.35 WB 0.23 Matrix-S	DEFL.         i           Vert(LL)         -0.0'           Vert(CT)         -0.1'           Horz(CT)         0.0'           Wind(LL)         0.0'	n (loc) l/defl 7 9-11 >999 3 0 9-11 >999 2 2 7 n/a 6 2-11 >999 2	L/d <b>PLATES</b> 360 MT20 240 n/a 240 Weight: 181 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP	No.1 No.1 No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sh 2-0-0 oc purlins (6- Rigid ceiling directl	eathing directly applied or 6-0-0 c 0-0 max.): 4-5. y applied or 10-0-0 oc bracing.	oc purlins, except
REACTIONS. (size Max H Max U Max G	<ul> <li>2=0-3-8, 7=0-3-8</li> <li>2=230(LC 11)</li> <li>plift 2=-55(LC 12), 7=-55(LC 13)</li> <li>rav 2=1179(LC 19), 7=1179(LC 20)</li> </ul>					
FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-11=           WEBS         3-11=	Comp./Max. Ten All forces 250 (lb) of 1425/304, 3-4=-1310/422, 4-5=-797/32 -70/1130, 9-11=0/855, 7-9=-83/1020 -391/290, 6-9=-391/290, 4-11=-172/70	less except when shown. 9, 5-6=-1310/422, 6-7=-142 9, 5-9=-172/709	25/304			
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V and C-C Exterior(2) for members and for 3) Provide adequate dr	loads have been considered for this de ult=130mph Vasd=103mph; TCDL=6.0 -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 10-5 ces & MWFRS for reactions shown; Lu ainage to prevent water ponding.	sign. ssf; BCDL=6.0psf; h=15ft; 0, Exterior(2) 10-5-0 to 20 nber DOL=1.60 plate grip	Cat. II; Exp C; Enclose -7-11, Interior(1) 20-7- DOL=1.60	d; MWFRS (envelope 11 to 25-11-9 zone;C-	e) C	

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 30.0psf 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 55 lb uplift at joint 2 and 55 lb uplift at joint 7.

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







	<b> </b>	8-5-0 8-5-0		+	16-5-0 8-0-0			:	24-10-0 8-5-0		
Plate Offsets (X,Y)	[6:0-3-0,Edge]										
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inci Code IRC2015	2-0-0 1.15 1.15 YES /TPI2014	<b>CSI.</b> TC BC WB Matrix-	0.52 0.48 0.76 -S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.18 -0.23 0.02 0.19	(loc) 2-14 2-14 10 2-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 171 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF	<ul> <li>No.1</li> <li>No.1</li> <li>No.2</li> </ul>				BRACING- TOP CHOR BOT CHOR	D D	Structu Rigid c	ıral wood eiling dir	sheathing di ectly applied	irectly applied or 5-8-1 o or 10-0-0 oc bracing.	oc purlins.
REACTIONS. (siz Max H Max L Max C	te) 2=0-3-8, 10=0-3-8 Horz 2=-271(LC 10) Jplift 2=-60(LC 12), 10= Grav 2=1317(LC 19), 1	60(LC 13) D=1317(LC 20)									
FORCES. (lb) - Max. TOP CHORD 2-4=	. Comp./Max. Ten All -1652/249, 4-5=-1001/3	forces 250 (lb) or 308, 7-8=-1000/30	less except w 08, 8-10=-165	vhen shown. 2/249							

BOT CHORD

2-14=0/1177, 12-14=0/1177, 10-12=0/1177

WFBS 4-14=0/637, 8-12=0/637, 5-7=-1324/448

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 12-5-0, Exterior(2) 12-5-0 to 16-6-12, Interior(1) 16-6-12 to 25-11-9 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2 and 60 lb uplift at joint 10.







			<u>15-8-0</u> 15-8-0					
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 0.03 BC 0.02 WB 0.09 Matrix-S	DEFL.         i           Vert(LL)         -0.00           Vert(CT)         -0.00           Horz(CT)         0.00	n (loc) ) 10 ) 10 ) 10	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 128 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER-			BBACING-					

TOP CHORD

BOT CHORD

# LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 OTHERS

2x4 SP No.2

REACTIONS. All bearings 15-8-0.

Max Horz 2=-224(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 14 except 17=-122(LC 12), 18=-102(LC 12), 13=-124(LC 13), 12=-100(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; 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) 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 30.0psf 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, 10, 16, 14 except (jt=lb) 17=122, 18=102, 13=124, 12=100.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

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





		7-10-0 7-10-0	15-8-0 7-10-0	
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 0.27 BC 0.27 WB 0.12 Matrix-S	DEFL.         in         (loc)         l/defi         L/d           Vert(LL)         -0.03         4-6         >999         360           Vert(CT)         -0.05         4-6         >999         240           Horz(CT)         0.01         4         n/a         n/a           Wind(LL)         0.02         2-6         >999         240	PLATES         GRIP           MT20         244/190           Weight: 102 lb         FT = 20%

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-179(LC 10) Max Uplift 2=-44(LC 12), 4=-44(LC 13) Max Grav 2=775(LC 19), 4=775(LC 20)

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

TOP CHORD 2-3=-841/169, 3-4=-840/170

BOT CHORD 2-6=0/583, 4-6=0/583

3-6=0/533

WEBS

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 7-10-0, Exterior(2) 7-10-0 to 12-2-13, Interior(1) 12-2-13 to 16-9-9 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2 and 44 lb uplift at joint 4.



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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.



		H		<u>5-4-11</u> 5-4-11	<u> </u>				<u>15-8-0</u> 5-4-11		
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 0.37	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
BCLL	10.0 0.0 *	Rep Stress Incr	1.15 NO	WB 0.62	Horz(CT)	-0.13	5-6 4	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2015/T	TPI2014	Matrix-S	Wind(LL)	0.07	5-6	>999	240	Weight: 241 lb	FT = 20%

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x8 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 4=0-3-8, 2=0-3-8 Max Horz 2=172(LC 5) Max Uplift 4=-555(LC 9), 2=-656(LC 8) Max Grav 4=5634(LC 2), 2=3689(LC 1)

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

TOP CHORD 2-3=-5683/1107, 3-4=-6625/915

BOT CHORD 2-6=-767/4205, 5-6=-466/3135, 4-5=-608/4980

WEBS 3-5=-436/5082, 3-6=-832/2954

NOTES-

 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 555 lb uplift at joint 4 and 656 lb uplift at joint 2.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2636 lb down and 909 lb up at 6-7-15, 1436 lb down and 146 lb up at 8-1-10, 1347 lb down and 60 lb up at 10-1-10, and 1348 lb down and 34 lb up at 12-1-10, and 1463 lb down and 31 lb up at 14-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

Concentrated Loads (lb)

Vert: 5=-1311(B) 7=-2636(B) 8=-1311(B) 9=-1323(B) 10=-1311(B)

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# SEAL 036322 September 29,2022

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

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





	<u>5-4-11</u> 5-4-11	10 	0-3-5 -10-9	<u>15-8-0</u> 5-4-11		1	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.34 BC 0.69 WB 0.55 Matrix-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	in (loc) l/defl .06 5-6 >999 .12 5-6 >999 .02 3 n/a .06 5-6 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 241 lb	<b>GRIP</b> 244/190 FT = 20%

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x8 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 3=0-3-8 Max Horz 1=-172(LC 25) Max Uplift 1=-544(LC 8), 3=-615(LC 9) Max Grav 1=5031(LC 2), 3=3394(LC 1)

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

TOP CHORD 1-2=-5957/866, 2-3=-5198/1035

BOT CHORD 1-6=-576/4468, 5-6=-424/2856, 3-5=-685/3836

WEBS 2-5=-767/2708, 2-6=-417/4495

NOTES-

 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 544 lb uplift at joint 1 and 615 lb uplift at joint 3.

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1275 lb down and 49 lb up at 1-6-6, 1166 lb down and 52 lb up at 3-6-6, 1187 lb down and 49 lb up at 5-6-6, and 1286 lb down and 132 lb up at 7-6-6, and 2411 lb down and 846 lb up at 9-0-2 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=-60, 2-4=-60, 1-3=-20 Concentrated Loads (lb)

Vert: 6=-1166(B) 7=-1166(B) 8=-1166(B) 9=-1166(B) 10=-2411(B)



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

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





		3-6-1	3 +	6-6-7 2-11-10		9-1-9 2-7-2	<u>12-1-1</u> 3-0-2	1	-	15-8-0 3-6-5	I		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	* R	PACING- late Grip DOL umber DOL ep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.26 0.27 0.15	DEFL Vert(L Vert(C Horz(	. in L) -0.04 CT) -0.06 CT) 0.02	(loc) 7-9 7-9 7	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL 10.0	C	ode IRC2015/T	PI2014	Matri	k-S	Wind(	LL) 0.04	7-9	>999	240	Weight: 113	lb FT = 20%	

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD<br/>BOT CHORD2x6 SP No.1BOT CHORD<br/>WEBS2x6 SP No.1WEBS<br/>WEDGE2x4 SP No.2

Left: 2x4 SP No.3 **REACTIONS.** (size) 4=0-3-8, 7=0-3-8 Max Horz 4=-149(LC 28)

Max Horz 4=-149(LC 28) Max Uplift 4=-382(LC 8), 7=-381(LC 9) Max Grav 4=1287(LC 34), 7=1373(LC 34)

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

- TOP CHORD 3-4=-1711/574, 3-5=-1670/584, 5-6=-1232/467, 6-7=-1747/565
- BOT CHORD 4-10=-361/1275, 9-10=-360/1259, 7-9=-363/1276
- WEBS 5-10=-145/684, 6-9=-133/647

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope);

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 30.0psf 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 382 lb uplift at joint 4 and 381 lb uplift at joint 7.

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

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb down and 156 lb up at 6-6-7, and 165 lb down and 153 lb up at 7-10-0, and 160 lb down and 156 lb up at 9-1-9 on top chord, and 446 lb down and 187 lb up at 6-6-7, and 87 lb down at 7-10-0, and 446 lb down and 187 lb up at 9-0-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) 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: 1-2-20, 2-3=-60, 3-5=-60, 5-6=-60, 6-8=-60, 4-11=-20, 4-7=-20 Concentrated Loads (lb)

Vert: 5=-122(B) 6=-122(B) 10=-425(B) 9=-425(B) 12=-122(B) 13=-43(B)



Structural wood sheathing directly applied or 5-8-9 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 3-4, 5-6.





		4-10-6 4-10-6		<u>11-9-0</u> 6-10-10		15-8-0	4
Plate Offsets (X,Y)	[3:0-3-4,0-4-0], [8:0-3-8,0	-6-4]				0110	
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.20 BC 0.60 WB 0.83 Matrix-S	DEFL.         i           Vert(LL)         -0.1'           Vert(CT)         -0.2'           Horz(CT)         0.0'           Wind(LL)         0.1'	n (loc) 1 7-8 2 7-8 2 5 1 7-8	l/defl L/d >999 360 >837 240 n/a n/a >999 240	PLATES         GRIP           MT20         244/190           Weight: 273 lb         FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS. (si Max Max Max	P No.1 P 2400F 2.0E P No.2 ze) 9=0-3-8, 5=0-3-8 Horz 9=-184(LC 9) Uplift 9=-519(LC 8), 5=-588 Grav 9=5037(LC 2), 5=337	B(LC 9) 71(LC 1)		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	aral wood sheathing end verticals, and eiling directly appli	g directly applied or 6-0-0 oc purlins, 2-0-0 oc purlins (6-0-0 max.): 1-3. ied or 10-0-0 oc bracing.
FORCES. (lb) - Max TOP CHORD 3-4= BOT CHORD 8-9= WEBS 3-9=	Comp./Max. Ten All for 6239/911, 4-5=-5825/113 596/4800, 7-8=-346/2615 6333/878, 3-8=-162/278,	ces 250 (lb) or 7 5, 5-7=-759/431 4-7=-840/3211	less except when shown 5 , 4-8=-602/5145	ı.			
<ul> <li>NOTES-</li> <li>1) 2-ply truss to be controp chords connected as the second bottom chords controp webs connected as 2) All loads are considination of the second bottom chords controp to controp the second character of the second characte</li></ul>	nnected together with 10d ted as follows: 2x4 - 1 row nected as follows: 2x8 - 2 r s follows: 2x4 - 1 row at 0-5 dered equally applied to all ve been provided to distribu re loads have been conside Vult=130mph Vasd=103mp plate grip DOL=1.60 drainage to prevent water p n designed for a 1ive load bottom chord and any othe il connection (by others) of presentation does not depid r connection device(s) shal wn and 26 lb up at 3-6-6, 1 1 846 lb up at 9-0-2 on bott hdard balanced): Lumber Increas	(0.131"x3") na at 0-9-0 oc, 2x ows staggered 9-0 oc. plies, except if ute only loads i ered for this de oh; TCDL=6.0p oonding. ottom chord livi of 30.0psf on t er members, wi truss to bearin ct the size or th II be provided s (235 lb down a com chord. The e=1.15, Plate I	ils as follows: 6 - 2 rows staggered at ( at 0-4-0 oc. noted as front (F) or bac noted as (F) or (B), unles sign. isf; BCDL=6.0psf; h=15ft; the bottom chord in all are th BCDL = 10.0psf. g plate capable of withsta re orientation of the purlir sufficient to support conce and 47 lb up at 5-6-6, and a design/selection of sucl Increase=1.15	D-9-0 oc. (K (B) face in the LOAD ( s otherwise indicated. (Cat. II; Exp C; Enclose h any other live loads. eas where a rectangle 3- anding 519 lb uplift at joi n along the top and/or bo entrated load(s) 1215 lb 1194 lb down and 122 h connection device(s) is	CASE(S) d; MWFR 6-0 tall b nt 9 and 4 ottom cho down and b up at 7 s the resp	section. Ply to S (envelope); y 2-0-0 wide 588 lb uplift at rd. d 29 lb up at 7-6-6, and onsibility of	SEAL 036322 September 29,2022

00022-4002		<b>2</b> Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,	8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 28 14:22:47 2022 Page 2
		ID:bQvsGPWvSL10qXvCwS3Rm6yZPNi-fqvYgK20zrODtQFzsqnbZkexCYuZyWUpC7aL7VyZ49s

# LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-20, 2-3=-60, 3-4=-60, 4-6=-60, 5-10=-20 Concentrated Loads (lb)

Vert: 11=-1171(F) 12=-1160(F) 13=-1160(F) 15=-1166(F) 16=-2412(F)





		3-7	'-4 '-4		6-7-8 3-0-4			
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 NO	<b>CSI.</b> TC 0.06 BC 0.20 WB 0.04	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in (I -0.02 -0.05 -0.00	loc) l/defl 2-5 >999 2-5 >999 5 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	-0.00	2 >999	240	Weight: 47 lb	FT = 20%

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8 Max Horz 2=120(LC 27) Max Uplift 5=-112(LC 5), 2=-53(LC 8) Max Grav 5=277(LC 33), 2=348(LC 1)

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

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=112.

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

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 42 lb down and 52 lb up at 1-8-0, and 86 lb down and 84 lb up at 3-7-4, and 89 lb down and 81 lb up at 5-8-0 on top chord, and 16 lb down at 1-8-0, and 14 lb down at 3-8-0, and 15 lb down at 5-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) 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, 2-5=-20 Concentrated Loads (lb)

Vert: 6=-2(B) 7=-3(B) 8=-7(B) 9=-6(B) 10=-7(B)





<b> </b>			<u>12-0-0</u> 12-0-0		
Plate Offsets (X,Y)	[3:0-4-0,0-1-4], [5:0-4-0,0-1-4]				
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	<b>CSI.</b> TC 0.17 BC 0.09 WB 0.04 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) l/defl L/d - n/a 999 - n/a 999 6 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 39 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI OTHERS 2x4 SI	<ul> <li>No.1</li> <li>No.1</li> <li>P No.2</li> </ul>		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire 2-0-0 oc purlins (6-0-0 max.): 3 Rigid ceiling directly applied or	ctly applied or 6-0-0 oc purlins, except -5. 10-0-0 oc bracing.

OTHERS 2x4 SP No.2

REACTIONS. All bearings 12-0-0.

Max Horz 1=-34(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 10, 8 except 9=367(LC 23)

WEBS NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 8-2-11, Interior(1) 8-2-11 to 10-0-0, Exterior(2) 10-0-0 to 11-9-4 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) Gable requires continuous bottom chord bearing.

4-9=-280/211

Gable studs spaced at 4-0-0 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 30.0psf 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) 1, 7, 2, 6, 9, 10, 8. 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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





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



			<u> </u>	2-0-0 2-0-0						
Plate Offsets (X,Y)	[3:0-4-0,0-1-4], [4:0-4-0,0-1	1-4]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPl2	2-0-0         CSI.           1.15         TC           1.15         BC           YES         WB           2014         Matrix	0.16 0.11 0.02 -S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 6 6 5	l/defl n/r n/r n/a	L/d 120 120 n/a	<b>PLATES</b> MT20 Weight: 45 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP OTHERS 2x4 SP	No.1 No.1 No.2 No.2			BRACING- TOP CHOR BOT CHOR	D D	Structur 2-0-0 o Rigid ce	al wood : c purlins ( eiling dire	sheathing dired (6-0-0 max.): 3 octly applied or	ctly applied or 6-0-0 i-4. 10-0-0 oc bracing.	oc purlins, except

All bearings 10-9-3. REACTIONS.

(lb) - Max Horz 2=74(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2. 5. 7

Max Grav All reactions 250 lb or less at joint(s) 8, 7 except 2=360(LC 23), 5=354(LC 1)

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

2-3=-417/251, 3-4=-274/250, 4-5=-407/251 TOP CHORD

BOT CHORD 2-8=-106/273, 7-8=-106/273, 5-7=-110/276

# NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 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) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 4-0-0 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 30.0psf 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, 5, 7.

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

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







		1				12-0-0					1	
12-0-0										1		
Plate Offsets (	(X,Y) [2	2:0-2-1,0-1-8], [4:0-2-1,0	-1-8]									
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	.0	Plate Grip DOL	1.15	тс	0.29	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.	.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.02	5	n/r	120		
BCLL 0	.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.	.0	Code IRC2015/TF	PI2014	Matri	k-S						Weight: 45 lb	FT = 20%
				I		DDAOINO					1	
I UMBER-						BRACING-						

TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2

REACTIONS. (size) 2=10-8-9, 4=10-8-9, 6=10-8-9

Max Horz 2=-115(LC 10) Max Uplift 2=-30(LC 12), 4=-40(LC 13)

Max Grav 2=253(LC 1), 4=253(LC 1), 6=401(LC 1)

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

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 11-9-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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

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

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



<sup>11111111111</sup> SEAL 036322 G mmm September 29,2022



F			<u>18-4-0</u>				
Plate Offsets (X,Y) [	2:0-1-8,0-1-8], [6:0-2-0,Edge]		10 + 0				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.33 BC 0.16 WB 0.04 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) a - a - 0 10	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 68 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP OTHERS 2x4 SP	No.1 No.1 No.2		BRACING- TOP CHORD BOT CHORD	Structura 2-0-0 oc Rigid ceil	al wood sheathing dir purlins (10-0-0 max. ling directly applied o	rectly applied or 6-0-0 .): 4-10, 4-6. or 6-0-0 oc bracing.	) oc purlins, except
REACTIONS. All bea (lb) - Max Ho Max Up Max Gr	arings 18-4-0. brz 1=117(LC 9) blift All uplift 100 lb or less at joint(s) 9 13), 2=-353(LC 12) av All reactions 250 lb or less at joint( 9=326(LC 24), 2=867(LC 19)	except 1=-549(LC 19), 1 (s) 8, 12 except 1=291(LC	0=-111(LC 13), 8=-224(l C 12), 10=411(LC 24), 7:	-C 24), 7=- =381(LC 24	119(LC 4),		
FORCES.         (lb) - Max. (lb)           TOP CHORD         1-2=-2           WEBS         5-9=-2	Comp./Max. Ten All forces 250 (lb) or 229/397, 2-3=-300/191, 3-4=-252/193, 4 263/157	less except when shown I-10=-377/257					
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-10; Vu and C-C Exterior(2) O 16-1-15 to 18-1-4 zor</li> <li>3) Truss designed for w Gable End Details as</li> <li>4) Provide adequate dra</li> <li>5) Gable requires contir</li> <li>6) Gable studs spaced a</li> <li>7) This truss has been of</li> <li>8) * This truss has been of</li> <li>8) * This truss has been of</li> <li>8) Provide mechanical of 1=549, 10=111, 8=22</li> <li>10) See Standard Indus designer.</li> <li>11) Graphical purlin rep</li> </ul>	loads have been considered for this de ult=130mph Vasd=103mph; TCDL=6.0p )-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-0-0 re;C-C for members and forces & MWF ind loads in the plane of the truss only. applicable, or consult qualified building ainage to prevent water ponding. huous bottom chord bearing. at 4-0-0 oc. designed for a 10.0 psf bottom chord liv designed for a 10.0 psf bottom chord liv stom chord and any other members. connection (by others) of truss to bearin 24, 7=119, 2=353. try Piggyback Truss Connection Detail resentation does not depict the size or	sign. psf; BCDL=6.0psf; h=15ft; D, Exterior(2) 6-0-0 to 9-1 RS for reactions shown; For studs exposed to wii g designer as per ANSI/TI e load nonconcurrent with he bottom chord in all are ig plate capable of withsta for Connection to base tr the orientation of the purl	Cat. II; Exp C; Enclosed 1-13, Interior(1) 9-11-13 Lumber DOL=1.60 plate nd (normal to the face), s Pl 1. h any other live loads. eas where a rectangle 3- anding 100 lb uplift at joi russ as applicable, or coi in along the top and/or b	d; MWFRS to 16-1-15, grip DOL= see Standa 6-0 tall by 2 ht(s) 9 exce nsult qualifi ottom chor	(envelope) , Exterior(2) 1.60 ard Industry 2-0-0 wide ept (jt=lb) ied building rd.	SE 036	CAR DAR DAR DAR DAR DAR DAR DAR DAR DAR D



September 29,2022



					10-4-0						
		•			18-4-0						
Plate Offse	ets (X,Y)	[2:0-2-1,0-1-8], [6:0-2-1,0-	-1-8]								
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/TP	2-0-0 1.15 1.15 YES I2014	<b>CSI.</b> TC 0.40 BC 0.24 WB 0.12 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.01 0.00	(loc) 7 7 6	l/defl n/r n/r n/a	L/d 120 120 n/a	<b>PLATES</b> MT20 Weight: 77 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHOI BOT CHOI WEBS OTHERS	RD 2x4 S RD 2x4 S 2x4 S 2x4 S	P No.1 P No.1 P No.2 P No.2			BRACING- TOP CHOR BOT CHOR	D D	Structu 2-0-0 o Rigid c	ral wood c purlins eiling dire	sheathing dire (10-0-0 max.) ectly applied o	ectly applied or 6-0-0 ): 4-8, 4-5. Ir 6-0-0 oc bracing.	oc purlins, except
REACTIO	NS. All b (lb) - Max I Max I Max 0	bearings 17-0-9. Horz 2=118(LC 11) Uplift All uplift 100 lb or les Grav All reactions 250 lb o	ss at joint(s) 2 or less at joint(	except 8=-164(LC 13) s) 6, 2 except 8=689(LC )	24), 10=356(LC 19	9)					
FORCES. TOP CHOI WEBS	(lb) - Max RD 4-8= 5-8=	Comp./Max. Ten All for 324/217, 4-5=-96/261 419/245	ces 250 (lb) or	less except when shown							

10 1 0

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-0-0, Exterior(2) 6-0-0 to 7-7-1, Interior(1) 7-7-1 to 13-9-2, Exterior(2) 13-9-2

to 18-1-4 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) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=164.

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

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







	L		18-4-0				
			18-4-0				
Plate Offsets (X,Y) [5	:0-4-3,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/	/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a	-	n/a 999	MT20	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	- 8	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S				Weight: 80 lb	FT = 20%
LUMBER-			BRACING-				
TOP CHORD 2x4 SP N BOT CHORD 2x4 SP N	lo.1 lo 1		TOP CHORD	Structural	wood sheathing dir	ectly applied or 6-0-0 4-5	oc purlins, except

BOT CHORD

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

2x4 SP No.2 REACTIONS. All bearings 18-4-0.

Max Horz 1=-134(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 12, 7 except 1=-143(LC 19), 13=-120(LC 12), 9=-136(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 8, 7 except 2=264(LC 19), 10=402(LC 26), 12=388(LC 22), 13=272(LC 19), 9=308(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-13=-289/218, 6-9=-328/248

### NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-11-12, Exterior(2) 6-11-12 to 17-8-5, Interior(1) 17-8-5 to 18-1-4 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 30.0psf 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.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 12, 7 except (jt=lb) 1=143, 13=120, 9=136.

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

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







			6-6-7				
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	<b>CSI.</b> TC 0.30 BC 0.16 WB 0.00 Matrix-P	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) -0 Wind(LL) 0	in (loc) 0.02 2-4 0.04 2-4 0.00 3 0.00 2	l/defl L >999 36 >999 24 n/a n **** 24	/d <b>PLATES</b> 60 MT20 70 74 60 Weight: 40 lb	<b>GRIP</b> 244/190 FT = 20%

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1

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

Max Horz 2=201(LC 12)

Max Uplift 3=-140(LC 12) Max Grav 3=212(LC 19), 2=337(LC 1), 4=127(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 6-5-11 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 30.0psf 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) except (jt=lb) 3=140.



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

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





			4-5-6					
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 0.14 BC 0.07 WB 0.00 Matrix-P	DEFL. Vert(LL) -( Vert(CT) -( Horz(CT) -( Wind(LL) (	in (loc) 0.00 2-4 0.01 2-4 0.00 3 0.00 2	l/defl >999 >999 n/a ****	L/d 360 240 n/a 240	PLATES MT20 Weight: 28 lb	<b>GRIP</b> 244/190 FT = 20%

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1

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

Max Horz 2=144(LC 12)

Max Uplift 3=-93(LC 12)

Max Grav 3=136(LC 19), 2=258(LC 1), 4=85(LC 3)

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

# NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 4-4-10 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 30.0psf 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the



BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-5-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



				2-5-6						
LOADING TCLL TCDL BCLL	<b>G</b> (psf) 20.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.04 BC 0.02 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 2 2 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 20%

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1

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

Max Horz 2=90(LC 12)

Max Uplift 3=-46(LC 12), 2=-5(LC 12)

Max Grav 3=58(LC 19), 2=188(LC 1), 4=45(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

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 30.0psf 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, 2.

# SEAL 036322 September 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the



BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 2-5-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.





LOADIN	G (psf)	SPACING- 2-0-	csi.	DEFL. in (lo	oc) I/defl L/d	PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.1	5 TC 0.12	Vert(LL) -0.00 5	5-6 >999 360	MT20 244/190			
TCDL	10.0	Lumber DOL 1.1	5 BC 0.06	Vert(CT) -0.01 5	5-6 >999 240				
BCLL	0.0 *	Rep Stress Incr YES	S WB 0.01	Horz(CT) 0.00	4 n/a n/a				
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 5	5-6 >999 240	Weight: 27 lb FT = 20%			
LUMBE	R-			BRACING-					

TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

Plate Offsets (X Y)-- [3:0-3-0 0-4-2]

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 6=80(LC 12)

Max Uplift 4=-80(LC 12) Max Grav 6=176(LC 1), 4=128(LC 19), 5=78(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 1-6-13, Interior(1) 1-6-13 to 4-4-10 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 30.0psf 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) 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 4-5-6 oc purlins,

except end verticals, and 2-0-0 oc purlins: 1-3.

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



<sup>1)</sup> Unbalanced roof live loads have been considered for this design.



			2-9-4 2-9-4				
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.07 BC 0.02 WB 0.00 Matrix-P	DEFL.         in           Vert(LL)         -0.00           Vert(CT)         -0.00           Horz(CT)         -0.00           Wind(LL)         0.00	(loc) 2 2-4 3 2	l/defl >999 >999 n/a	L/d 360 240 n/a 240	PLATES         GRIP           MT20         244/190           Weight: 20 lb         FT = 20%

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-9-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=120(LC 12)

Max Uplift 3=-76(LC 12)

Max Grav 3=79(LC 19), 2=198(LC 1), 4=51(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

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 30.0psf 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.







			I-1-4 I-1-4	1-8-0		
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.04	DEFL. Vert(LL) -0	in (loc) 0.00 2	l/defl L/d >999 360	PLATES GRIP MT20 244/190
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.02 WB 0.00 Matrix-P	Vert(CT) -0 Horz(CT) 0 Wind(LL) -0	0.0020.0040.002	>999 240 n/a n/a >999 240	Weight: 19 lb FT = 20%

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-9-4 oc purlins, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=65(LC 12)

Max Uplift 4=-24(LC 9), 2=-19(LC 12) Max Grav 4=62(LC 24), 2=198(LC 1), 5=46(LC 3)

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

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

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 30.0psf 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.

(a) Defer to girder(a) for trues to trues connections

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, 2.

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







		4-8-	10 10		9-1-7 4-4-13	3			
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 0.10 BC 0.10 WB 0.19 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.00 -0.01 0.00 0.00	(loc) 7-8 7-8 7 8	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 69 lb	<b>GRIP</b> 244/190 FT = 20%

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. 7=Mechanical, 2=0-4-9 (size) Max Horz 2=200(LC 23) Max Uplift 7=-176(LC 8), 2=-52(LC 8) Max Grav 7=459(LC 29), 2=492(LC 1)

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

TOP CHORD

2-3=-541/111 BOT CHORD 2-8=-150/383, 7-8=-150/383

WEBS 3-7=-463/181

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=176

6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 75 lb up at 3-6-10, 84 lb down and 75 lb up at 3-6-10, and 127 lb down and 137 lb up at 6-4-9, and 127 lb down and 137 lb up at 6-4-9 on top chord, and 5 lb down at 3-6-10, 5 lb down at 3-6-10, and 28 lb down at 6-4-9, and 28 lb down at 6-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

7) 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, 4-5=-20, 2-6=-20 Concentrated Loads (lb)

Vert: 10=-62(F=-31, B=-31) 12=-28(F=-14, B=-14)





