

RE: J0321-1586 Lot 14 Forest Ridge Trenco 818 Soundside Rd Edenton, NC 27932

Model: Subdivision: State:

# General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.3 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E15485331	A01	3/11/2021	21	E15485351	M2	3/11/2021
2	E15485332	A02	3/11/2021	22	E15485352	P1	3/11/2021
3	E15485333	A03	3/11/2021	23	E15485353	P2	3/11/2021
4	E15485334	A04	3/11/2021				
5	E15485335	A05	3/11/2021				
6	E15485336	A06	3/11/2021				
7	E15485337	A07	3/11/2021				
8	E15485338	A08	3/11/2021				
9	E15485339	A09	3/11/2021				
10	E15485340	A10	3/11/2021				
11	E15485341	A11	3/11/2021				
12	E15485342	A12	3/11/2021				
13	E15485343	CJ1	3/11/2021				
14	E15485344	CJ1-T	3/11/2021				
15	E15485345	J1	3/11/2021				
16	E15485346	J1-T	3/11/2021				
17	E15485347	J2	3/11/2021				
18	E15485348	J2-T	3/11/2021				
19	E15485349	J3	3/11/2021				
20	E15485350	M1	3/11/2021				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

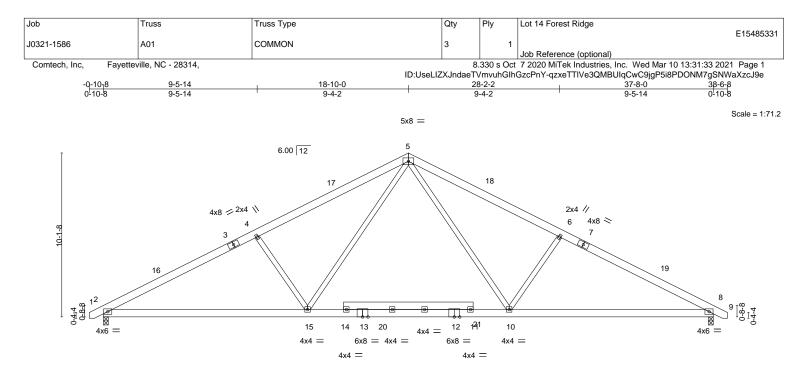
My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Gilbert, Eric



H	<u>12-7-4</u> 12-7-4	+ <u>14-10-0</u> 2-2-12 +	22-10-0 8-0-0	25-0-12			37-8-0 12-7-4	—
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 0.38	Vert(LL)	-0.21 10-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT)	-0.41 10-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.07 10-15	>999	240	Weight: 260 lb	FT = 20%

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	11-14: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=127(LC 11) Max Uplift 2=-2(LC 12), 8=-2(LC 13) Max Grav 2=1647(LC 1), 8=1647(LC 1)

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

- 2-4=-2876/347, 4-5=-2638/359, 5-6=-2638/359, 6-8=-2876/347 TOP CHORD
- BOT CHORD 2-15=-176/2526, 10-15=-6/1683, 8-10=-179/2477
- WFBS 5-10=-24/1116, 6-10=-526/336, 5-15=-24/1116, 4-15=-526/336

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 18-10-0, Exterior(2) 18-10-0 to 23-2-13, Interior(1) 23-2-13 to 38-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 200.0lb AC unit load placed on the bottom chord, 18-10-0 from left end, supported at two points, 5-0-0 apart.

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2 and 2 lb uplift at joint 8.

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



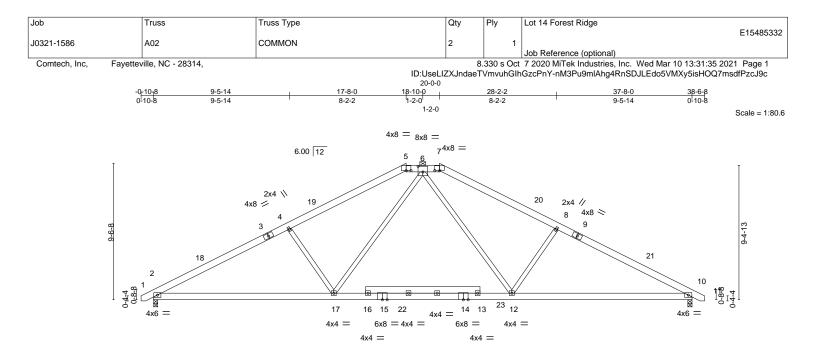
Structural wood sheathing directly applied or 4-2-15 oc purlins.

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

## March 10.2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See **MSIVTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	12-7-4	14-10-0	<u>22-10-0</u> 8-0-0	25-0-12	37-8-0		
Plate Offsets (X,Y)	[5:0-4-0,0-0-2], [6:0-4-0,0-4-12], [7:0-4-0				12.1 -	T	
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 0.68 BC 0.68 WB 0.27 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.22 12-17 >9 -0.42 12-17 >9 0.09 10	defl L/d 999 360 999 240 n/a n/a 999 240	<b>PLATES</b> MT20 Weight: 257 lb	<b>GRIP</b> 244/190 FT = 20%
			BRACING- TOP CHOR BOT CHOR	2-0-0 oc pu	wood sheathing dire urlins (4-0-10 max.): g directly applied or		oc purlins, except
Max H Max G FORCES. (Ib) - Max.	e) 2=0-3-8, 10=0-3-8 lorz 2=119(LC 11) irav 2=1647(LC 1), 10=1647(LC 1) Comp./Max. Ten All forces 250 (lb) or 2862/397. 4-5=-2629/398. 7-8=-2629/3		2241/427				
6-7=- BOT CHORD 2-17=	-2241/427 250/2479, 12-17=-62/1675, 10-12=-24 37/1083, 8-12=-466/347, 6-17=-37/108	0/2460	,				
<ol> <li>Wind: ASCE 7-10; WMWFRS (envelope) to 38-4-10 zone;C-C</li> <li>200.0lb AC unit load</li> <li>Provide adequate di</li> <li>This truss has been</li> <li>* This truss has beet</li> </ol>	e loads have been considered for this de /ult=130mph (3-second gust) Vasd=103 and C-C Exterior(2) -0-8-10 to 3-8-3, In ? for members and forces & MWFRS for I placed on the bottom chord, 18-10-0 fir rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t chord and any other members, with BC	mph; TCDL=6.0psf; BCDL= terior(1) 3-8-3 to 17-8-0, Ex reactions shown; Lumber I om left end, supported at tw e load nonconcurrent with the bottom chord in all area DL = 10.0psf.	kterior(2) 17-8-0 tr DOL=1.60 plate g wo points, 5-0-0 a any other live loa as with a clearanc	o 26-2-11, Interior( rip DOL=1.60 part. ds. e greater than 6-0-	1) 26-2-11	TH CA	ROLA

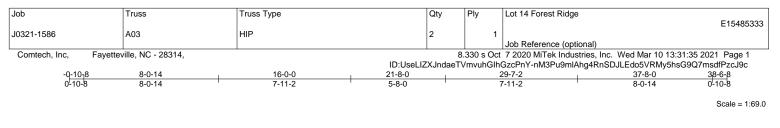
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

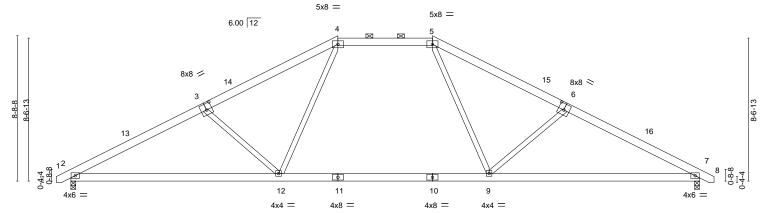
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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<u> </u>	<u>12-7-4</u> 12-7-4		<u>25-0-12</u> 12-5-8				<u> </u>	
Plate Offsets (X,Y)	[3:0-4-0,0-4-8], [6:0-4-0,0-4-8]							
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.37	<b>DEFL.</b> in Vert(LL) -0.38	( /	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.50	9-12	>890	240	WIT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.35 Matrix-S	Horz(CT) 0.07 Wind(LL) 0.15		n/a >999	n/a 240	Weight: 233 lb	FT = 20%
UMBER-			BRACING-					
TOP CHORD 2x6 SP BOT CHORD 2x6 SP			TOP CHORD			heathing d 5-10-0 max	lirectly applied or 4-6-4 ( <.): 4-5.	oc purlins, except
WEBS 2x4 SP	No.2		BOT CHORD	Rigid ce	eiling direo	tly applied	or 10-0-0 oc bracing.	
REACTIONS. (size	e) 2=0-3-8. 7=0-3-8							

ACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=-108(LC 10) Max Uplift 2=-88(LC 12), 7=-88(LC 13) Max Grav 2=1547(LC 1), 7=1547(LC 1)

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

- TOP CHORD 2-3=-2707/677, 3-4=-2429/617, 4-5=-1786/588, 5-6=-2420/615, 6-7=-2703/679
- BOT CHORD 2-12=-516/2333, 9-12=-248/1786, 7-9=-507/2329
- WEBS 3-12=-515/334, 4-12=-64/798, 5-9=-61/794, 6-9=-519/335

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-0-0, Exterior(2) 16-0-0 to 27-10-11, Interior(1) 27-10-11 to 38-4-10 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2 and 88 lb uplift at joint 7.

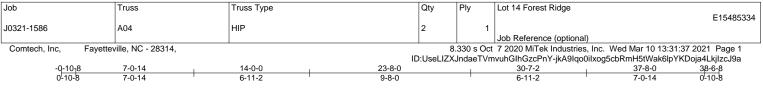
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

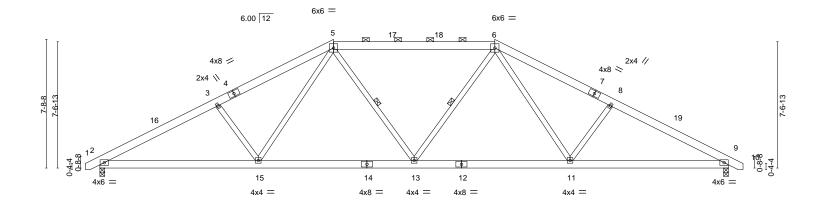


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Scale = 1:69.0



		9-5-14 9-5-14			-10-0 -4-2			3-2-2 -4-2			37-8-0 9-5-14	
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	0.54	Vert(LL)	-0.15 1	1-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.25 1	3-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	<-S	Wind(LL)	0.06	13	>999	240	Weight: 250 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

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

- REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=-95(LC 10) Max Uplift 2=-76(LC 12), 9=-76(LC 13)
  - Max Grav 2=1632(LC 2), 9=1632(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2927/683, 3-5=-2756/689, 5-6=-2256/581, 6-8=-2756/689, 8-9=-2927/683 TOP CHORD

BOT CHORD 2-15=-526/2522. 13-15=-332/2085. 11-13=-324/2085. 9-11=-518/2522

- WEBS 3-15=-302/248, 5-15=-100/636, 5-13=-18/401, 6-13=-18/401, 6-11=-100/636,
  - 8-11=-302/248

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-0-0, Exterior(2) 14-0-0 to 20-2-11, Interior(1) 20-2-11 to 23-8-0, Exterior(2) 23-8-0 to 29-10-11, Interior(1) 29-10-11 to 38-4-10 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 76 lb uplift at joint 9.

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

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 4-4-6 oc purlins, except

5-13. 6-13

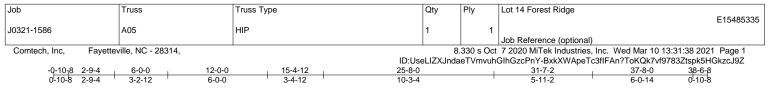
2-0-0 oc purlins (4-5-2 max.): 5-6.

1 Row at midpt

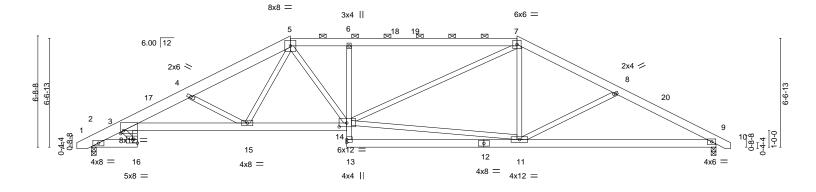
Rigid ceiling directly applied or 10-0-0 oc bracing.

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Scale = 1:69.5



L 20.0	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl		PLATES	GRIP
DL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.56 BC 0.63		17 14-15 >999 34 14-15 >999		MT20	244/190
L 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) -0.				
DL 10.0	Code IRC2015/TPI2014	Matrix-S	- (- ) -	13 14-15 >999		Weight: 282 lb	FT = 20%
MBER-			BRACING-				
	SP No.1 *Except*		TOP CHORD			rectly applied or 4-7-5	oc purlins, except
	2x8 SP 2400F 2.0E SP No.1 *Except*		BOT CHORD		ns (3-11-0 max. lirectly applied (	or 10-0-0 oc bracing,	Except:
	6,6-13: 2x4 SP No.2			6-0-0 oc braci		or to o o oo braaing,	_,
BS 2x4	SP No.2			8-3-10 oc bra	cing: 3-15.		
Max Max	size) 2=0-3-8, 9=0-3-8 (Horz 2=82(LC 11) (Uplift 2=-50(LC 12), 9=-62(LC 13) (Grav 2=1552(LC 1), 9=1548(LC 1)						
P CHORD 2-:	ax. Comp./Max. Ten All forces 250 (lb) 3=-777/235, 3-4=-3847/1020, 4-5=-3136 3=-2350/622, 8-9=-2649/737						
	15=-897/3642, 14-15=-441/2351, 6-14= 15=-1053/444, 5-15=-142/804, 5-14=-20						
	11=0/407, 8-11=-274/254						

reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 62 lb uplift at joint 9.

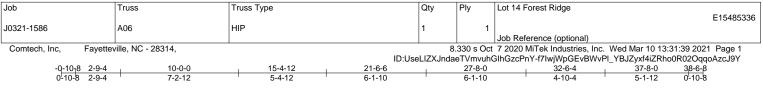
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

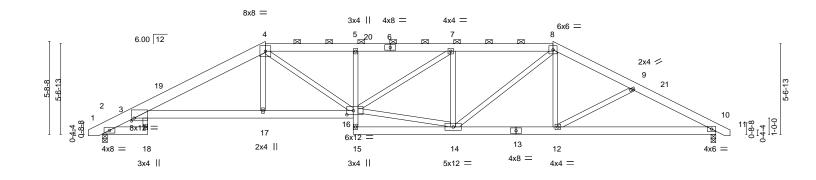


ENGINEERING BY AMITEK Affiliate 818 Soundside Road Edenton, NC 27932

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Scale = 1:70.8



	2-9-4	10-0-0	1	15-4-12	1	21-6-6		27-8-0		I	37-8-0	1
	2-9-4	7-2-12		5-4-12	1	6-1-10		6-1-10		1	10-0-0	
Plate Offsets (X,	Y) [3:0-1-15	5,0-2-0], [16:0-4-12	2,0-3-0]									
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	PI	PACING- late Grip DOL umber DOL ep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.54 0.74 0.59	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.44 0.27	(loc) 16 3-17 10	l/defl >999 >999 n/a	L/d 360 240 n/a	<b>PLATES</b> MT20	<b>GRIP</b> 244/190
BCDL 10.0		ode IRC2015/TPI2		Matrix		Wind(LL)		3-17		240	Weight: 272 lb	FT = 20%
1 BOT CHORD 2 3	2x6 SP No.1 *E.  -4: 2x8 SP 240 2x6 SP No.1 *E. 3-18,5-15: 2x4 S 2x4 SP No.2	00F <sup>'</sup> 2.0E xcept*				BRACING TOP CHOI BOT CHOI	RD	2-0-0 o Rigid c	c purlins	(4-1-9 max. ectly applied	irectly applied or 4-8-3 o ): 4-8. or 10-0-0 oc bracing,	
FORCES. (lb) -	Max Horz 2=69 Max Uplift 2=-4 Max Grav 2=15 · Max. Comp./M	3-8, 10=0-3-8 9(LC 11) 3(LC 9), 10=-53(Ll 552(LC 1), 10=154 1ax. Ten All force 3-4=-3097/740, 4-	8(LC 1) es 250 (lb) or l									
	8-9=-2458/65 <sup>2</sup> 3-17=-541/278	1, 9-10=-2674/747 33, 16-17=-543/27	,		,	,						
WEBS	10-12=-586/22 4-17=0/413, 4 8-14=-220/833	-16=-189/760, 14-	16=-476/2396	, 7-16=-130	/684, 7-14=	-820/297,						
<ol> <li>Wind: ASCE 7 MWFRS (enve 16-2-11 to 27-i reactions show</li> <li>Provide adequ</li> <li>This truss has</li> <li>* This truss has between the biset of the state of</li></ol>	7-10; Vult=130n elope) and C-C -8-0, Exterior(2) wn; Lumber DO uate drainage to been designed as been designed ottom chord an	Exterior(2) -0-6-1( 27-8-0 to 33-10-1 DL=1.60 plate grip I prevent water poi d for a 10.0 psf bott ed for a live load of d any other memb	t) Vasd=103m 0 to 3-10-2, Int 1, Interior(1) 3 DOL=1.60 nding. tom chord live f 20.0psf on the	iph; TCDL= erior(1) 3-1 33-10-11 to load nonco e bottom cl	0-2 to 10-0 38-4-10 zo oncurrent w hord in all a	DL=6.0psf; h=15ft; -0, Exterior(2) 10-0 ne;C-C for member ith any other live lo reas with a clearan standing 43 lb uplift	-0 to 16 s and fo ads. ce grea	-2-11, Ir prces & I ter than	oterior(1) MWFRS1 6-0-0	4	OR DEESE SEA	L

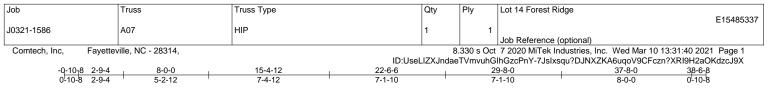
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

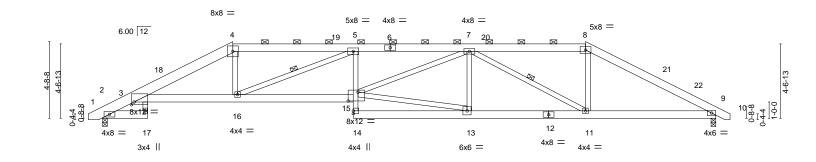


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Scale = 1:70.8



<u>  2-9</u> 2-9		15-4-12	<u>22-6-6</u> 7-1-10		29-8-0		<u>37-8-0</u> 8-0-0	———————————————————————————————————————
	[3:0-1-15,0-2-0], [15:0-7-4,0-6-8]	7-4-12	7-1-10		7-1-10		8-0-0	
OADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.53	DEFL. Vert(LL)	in -0.30	(loc) l/de 14 >99		PLATES MT20	<b>GRIP</b> 244/190
CDL 10.0 3CLL 0.0 * 3CDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.73 WB 0.74 Matrix-S	Vert(CT) Horz(CT) Wind(LL)	-0.61 0.30 0.23	15 >74 9 n/ 14 >99	a n/a	Weight: 260 lb	FT = 20%
UMBER-	PNo.1 *Except*		BRACING- TOP CHORI	 ว	Structural w	ood sheathing o	directly applied or 4-4-1	oc purlins, except
1-4: 2x	8 SP 2400F 2.0E				2-0-0 oc pur	ins (3-5-4 max.	.): 4-8.	
	PNo.1 *Except* -14: 2x4 SP No.2		BOT CHORI WEBS		Rigid ceiling 1 Row at mid		d or 6-0-0 oc bracing. 5-16. 7-11	
3-17,5- VEBS 2x4 SF			WED3		i now at mit	ihr	0-10, 7-11	
OP CHORD 2-3=- 8-9=- OT CHORD 3-16=	Comp./Max. Ten All forces 250 (lb 777/243, 3-4=-3423/805, 4-5=-3171/ .2711/657 =-630/3134, 15-16=-977/4715, 5-15= =-459/2300	822, 5-7=-4660/1167, 7-8=	-2274/663,					
WEBS 4-16=	=-459/2300 =-66/794, 5-16=-1766/425, 13-15=-6´ =-1307/285, 8-11=-66/819	5/3017, 7-15=-326/1443, 7	7-13=-424/212,					
<ol> <li>Wind: ASCE 7-10; WMWFRS (envelope) to 29-8-0, Exterior(2 shown; Lumber DOI 3) Provide adequate di 4) This truss has been 5) * This truss has been between the bottom</li> </ol>	e loads have been considered for this /ult=130mph (3-second gust) Vasd=1 and C-C Exterior(2) -0-6-10 to 3-10- ) 29-8-0 to 35-10-11, Interior(1) 35-11 =1.60 plate grip DOL=1.60 rainage to prevent water ponding. designed for a 10.0 psf bottom chorc n designed for a live load of 20.0psf o chord and any other members. connection (by others) of truss to be:	03mph; TCDL=6.0psf; BCI 2, Interior(1) 3-10-2 to 8-0-0 0-11 to 38-4-10 zone;C-C f I live load nonconcurrent w on the bottom chord in all a	D, Exterior(2) 8-0-0 to or members and forc ith any other live load reas with a clearance	o 14-2- es & N ds. e great	11, Interior(1 IWFRS for re ter than 6-0-0	14-2-11 actions	TH CA	ROUT

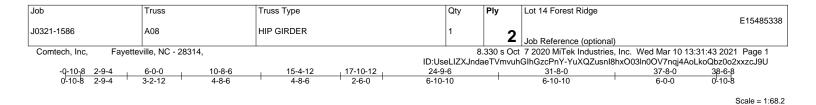
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

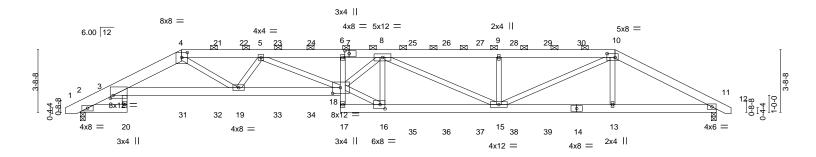
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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2-9-4	9-1-0	15-4-12 6-3-12	17-10-12	24-9-6		<u>31-8-0</u> 6-10-10	37-8-0	
Plate Offsets (X,Y)	[3:0-1-15,0-2-0], [4:0-4-0,				8:0-5-8,0-4		0-0-0	
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           *         BCDL	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	1.15 1.15 NO	<b>CSI.</b> TC 0.64 BC 0.82 WB 0.72 Matrix-S	( )		l/defl L/d >999 360 >606 240 n/a n/a >999 240	PLATES MT20 Weight: 510 lb	<b>GRIP</b> 244/190 FT = 20%
BOT CHORD 2x6 S 3-20,6 WEBS 2x4 S	P No.1 *Except* x8 SP 2400F 2.0E P No.1 *Except* 5-17: 2x4 SP No.2 P No.2 *Except* : 2x4 SP No.1			BRACING- TOP CHORD BOT CHORD	2-0-0 c Rigid c	oc purlins (4-5-11 max	rectly applied or 6-0-0 c .): 4-10. or 10-0-0 oc bracing, I	Except:
Max I Max I	ze) 2=0-3-8, 11=0-3-8 Horz 2=44(LC 26) Uplift 2=-390(LC 5), 11=-4 Grav 2=2974(LC 1), 11=25					4	CHINE TH CA	ROLIN
TOP CHORD 2-3= 8-9=	:. Comp./Max. Ten All for 1534/240, 3-4=-7406/115 7968/1444, 9-10=-7969/1	2, 4-5=-9803/1472, 5 444, 10-11=-5597/10	-6=-11983/1987, 6 02	-8=-11832/1963,			SEA 0363	
13-1 WEBS 4-19	9=-1066/7001, 18-19=-1638 15=-824/4859, 11-13=-825/ 9=-469/3377, 5-19=-1350/4 5=-3280/707, 8-15=-956/10	/4832 24, 5-18=-374/1705,	16-18=-1414/8638	, 8-18=-621/4183,			SEA 0363	EERA
<ul> <li>Top chords connect Bottom chords con Webs connected a:</li> <li>2) All loads are consici- ply connections har</li> <li>3) Unbalanced roof liv</li> <li>4) Wind: ASCE 7-10; MWFRS (envelope</li> <li>5) Provide adequate of</li> <li>6) This truss has beer</li> <li>7) * This truss has beer</li> <li>between the botton</li> <li>8) Provide mechanica joint 11.</li> <li>9) See Standard Indu</li> </ul>	nnected together with 10d ted as follows: 2x8 - 2 row nected as follows: 2x8 - 2 ro follows: 2x4 - 1 row at 0-5 dered equally applied to all ve been provided to distribi- re loads have been conside Vult=130mph (3-second gu ); Lumber DOL=1.60 plate drainage to prevent water p n designed for a 10.0 psf b- en designed for a live load n chord and any other men Il connection (by others) of stry Piggyback Truss Conr	s staggered at 0-9-0 e ows staggered at 0-9- oc. plies, except if noted ute only loads noted ared for this design. .st) Vasd=103mph; T grip DOL=1.60 oonding. ottom chord live load of 20.0psf on the bot obers. truss to bearing plate	oc, 2x6 - 2 rows sta -0 oc, 2x4 - 1 row a as front (F) or back as (F) or (B), unless CDL=6.0psf; BCDL nonconcurrent with om chord in all are capable of withsta	at 0-9-0 oc. k (B) face in the LOAE s otherwise indicated. .=6.0psf; h=15ft; Cat. n any other live loads. nas with a clearance g anding 390 lb uplift at j	II; Exp C; E reater than oint 2 and	section. Ply to Enclosed; 6-0-0 479 lb uplift at	<sup>-</sup> ил А. С	
designer. 10) Graphical purlin re	epresentation does not dep	pict the size or the ori	entation of the purli	n along the top and/o	bottom ch	ord.	March	10,2021
Design valid for use or a truss system. Before building design. Bracin is always required for s fabrication, storage, de	lesign parameters and READ NOTI ily with MITek® connectors. This c use, the building designer must v ng indicated is to prevent buckling stability and to prevent collapse wi slivery, erection and bracing of trus vailable from Truss Plate Institute	lesign is based only upon p erify the applicability of des of individual truss web and th possible personal injury sses and truss systems, se	arameters shown, and i ign parameters and prop /or chord members only and property damage. F ANSI/TPI1 Q	s for an individual building of perly incorporate this design Additional temporary and for general guidance regard Quality Criteria, DSB-89 an	omponent, no into the over permanent br ing the	ot all acing	818 Soundside F Edenton, NC 275	

Job	Truss	Truss Type	Qty	Ply	Lot 14 Forest Ridge				
					E15485338				
J0321-1586	A08	HIP GIRDER	1	2					
				<b>_</b>	Job Reference (optional)				
Comtech, Inc,	Fayetteville, NC - 28314,		8	.330 s Oct	7 2020 MiTek Industries, Inc. Wed Mar 10 13:31:43 2021 Page 2				
		ID:UseLIZXJndaeTVmvuhGIhGzcPnY-YuXQZusnl8hxO03In0OV7nqj4AoLkoQbz0o2xxzcJ9U							

#### NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 72 lb up at 6-0-0, 107 lb down and 72 lb up at 8-0-12, 107 lb down and 72 lb up at 9-7-4, 107 lb down and 72 lb up at 11-7-4, 107 lb down and 72 lb up at 13-7-4, 110 lb down and 100 lb up at 15-7-4, 110 lb down and 100 lb up at 17-7-4, 110 lb down and 100 lb up at 19-7-4, 110 lb down and 100 lb up at 21-7-4, 110 lb down and 100 lb up at 23-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 27-7-4, and 110 lb down and 100 lb up at 29-7-4, and 129 lb down and 100 lb up at 31-8-0 on top chord, and 403 lb down and 63 lb up at 6-0-0, 53 lb down at 8-0-12, 53 lb down at 9-7-4, 53 lb down at 11-7-4, 53 lb down at 13-7-4, 76 lb down at 15-6-8, 76 lb down at 17-7-4, 76 lb down at 19-7-4 , 76 lb down at 21-7-4, 76 lb down at 23-7-4, 76 lb down at 25-7-4, 76 lb down at 27-7-4, and 76 lb down at 29-7-4, and 371 lb down and 98 lb up at 31-7-4 on bottom

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-10=-60, 10-12=-60, 2-20=-20, 3-18=-20, 11-17=-20

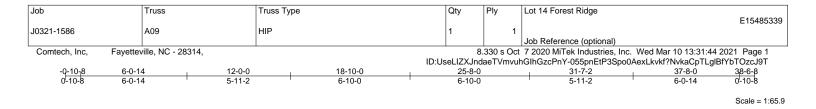
chord. The design/selection of such connection device(s) is the responsibility of others.

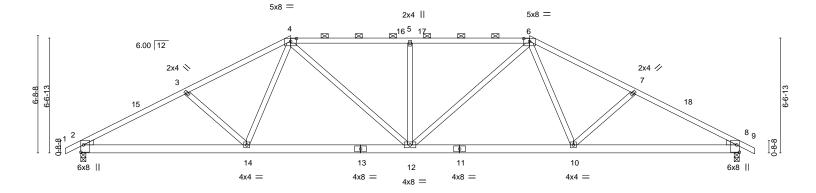
Concentrated Loads (lb)

Vert: 4=-107(B) 10=-110(B) 18=-38(B) 6=-110(B) 14=-38(B) 19=-48(B) 16=-38(B) 8=-110(B) 13=-371(B) 21=-107(B) 22=-107(B) 23=-107(B) 24=-107(B) 2 25=-110(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-110(B) 31=-403(B) 32=-48(B) 33=-48(B) 34=-48(B) 35=-38(B) 36=-38(B) 37=-38(B) 38=-38(B) 39=-38(B)

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L	9-5-14	18-10-0			3-2-2			37-8-0	
	9-5-14	9-4-2	1		-4-2		1	9-5-14	
Plate Offsets (X,Y)	[2:Edge,0-1-13], [2:0-0-15,0-6-8], [2:0-0	)-7,0-0-15], [4:0-4-0,0-1-15]	, [6:0-4-0,0-1-15],	[8:0-0-	7,0-0-1	5], [8:0-0	-15,0-6-8], [8	3:Edge,0-1-13]	
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 0.58		-0.12	12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48		-0.25		>999	240	11120	211/100
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT)	0.07	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.09		>999	240	Weight: 221 lb	FT = 20%
LUMBER-			BRACING-						
TOP CHORD 2x4 S	SP No.1		TOP CHORI	D	Structur	al wood	sheathing di	rectly applied or 3-6-15	oc purlins,
BOT CHORD 2x6 S	SP No.1				except		5		
WEBS 2x4 S	SP No.2				2-0-0 oc	c purlins	(3-6-8 max.)	: 4-6.	
WEDGE			BOT CHORI	D	Rigid ce	eiling dire	ctly applied	or 10-0-0 oc bracing.	
Left: 2x4 SP No.2, R	light: 2x4 SP No.2				-	-			
	Uplift 2=-64(LC 12), 8=-64(LC 13) Grav 2=1556(LC 1), 8=1556(LC 1)								
	x. Comp./Max. Ten All forces 250 (lb) o		100/057						
	3=-2649/703, 3-4=-2408/657, 4-5=-2316/6 3=-2649/703	90, 5-6=-2316/690, 6-7=-24	408/657,						
	4=-548/2239, 12-14=-363/1943, 10-12=-;	353/1943 8-10539/2239							
	4=-42/456, 4-12=-130/620, 5-12=-506/25		2/456						
	,	,							
NOTES-									
	ive loads have been considered for this d								
	; Vult=130mph (3-second gust) Vasd=103						0.44		
	e) and C-C Exterior(2) -0-10-8 to 3-6-5, Ir						-Z-11		
	(2) 25-8-0 to 31-8-9, Interior(1) 31-8-9 to 0 plate grip DOL=1.60	30-0-0 2011e;C-C 101 membe	ers and lorces & N		oloriea	CUONS SP	own;	TH CA	UIII.
	drainage to prevent water ponding.							UN'TH CA	ROUL
	en designed for a 10.0 psf bottom chord liv	e load nonconcurrent with	any other live load	de				"all	0111
	een designed for a live load of 20.0psf on				er than f	3-0-0		V.O. EESB	to N'
	m chord and any other members.			o groat				S S S	No. Ja
							. 🎽		·VC/

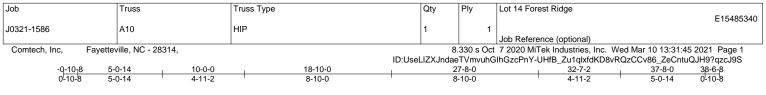
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 64 lb uplift at joint 8.

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

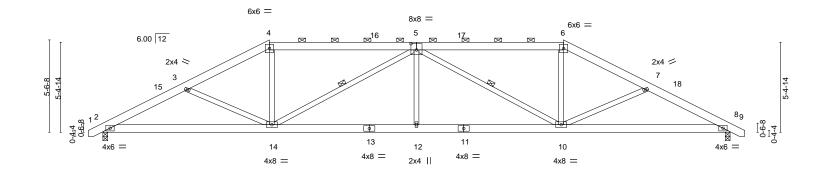


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Scale = 1:69.2



	10-0-0 10-0-0 8-10-0			27-8-0		37-8-0		
Plate Offsets (X,Y)	[4:0-0-0,0-0-0], [5:0-4-0,0-4-8], [6:0-0-0		C	8-10-0		10-0-0		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.35 BC 0.45 WB 0.40	DEFL. ir Vert(LL) -0.13 Vert(CT) -0.26 Horz(CT) 0.09	12 >999 12-14 >999	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10		240	Weight: 251 lb	FT = 20%	
TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF	P No.1 P No.2		TOP CHORD BOT CHORD WEBS	except 2-0-0 oc purlins	s (4-10-10 max rectly applied c	ectly applied or 4-6-15 ): 4-6. or 9-10-2 oc bracing. -14, 5-10	oc pullino,	
Max L	e) 2=0-3-8, 8=0-3-8 Horz 2=-69(LC 10) Jplift 2=-54(LC 9), 8=-54(LC 8) Grav 2=1547(LC 1), 8=1547(LC 1)							
TOP CHORD 2-3=	Comp./Max. Ten All forces 250 (lb) of -2792/784, 3-4=-2536/661, 4-5=-2246/6 -2792/781		36/660,					
	=-630/2428, 12-14=-587/2922, 10-12=-5	87/2922, 8-10=-625/2428						

WEBS 4-14=-77/701, 5-14=-886/239, 5-12=0/306, 5-10=-886/239, 6-10=-77/701

NOTES-

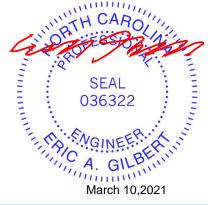
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-0-0, Exterior(2) 10-0-0 to 16-2-11, Interior(1) 16-2-11 to 27-8-0, Exterior(2) 27-8-0 to 33-10-11, Interior(1) 33-10-11 to 38-4-10 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

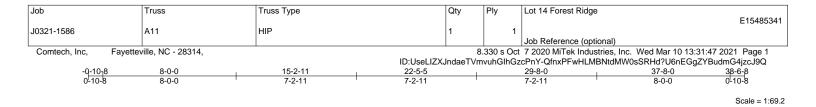
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 54 lb uplift at joint 8.

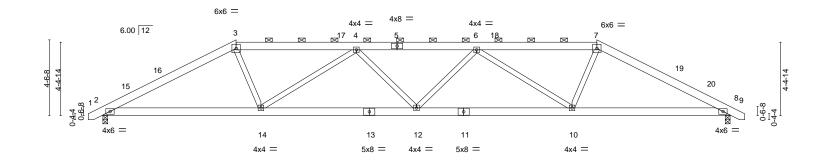
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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⊢	9-5-14	<u>18-10-0</u> 9-4-2	+	<u>28-2-2</u> 9-4-2		37-8-0		
Plate Offsets (X,Y)	[3:0-0-0,0-0-0], [7:0-0-0,0-0-0]	042		042		0014		
LOADING (psf) ICLL 20.0 ICDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	<b>CSI.</b> TC 0.38 BC 0.50 WB 0.90	<b>DEFL.</b> in Vert(LL) -0.16 Vert(CT) -0.32 Horz(CT) 0.10	12 >999 10-12 >999	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12		240	Weight: 232 lb	FT = 20%	
BOT CHORD 2x6	SP No.1 SP No.1 SP No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins	s (4-0-10 max.	rectly applied or 4-3-4 c .): 3-7. or 9-1-12 oc bracing.	oc purlins, except	
Max Max	ize) 2=0-3-8, 8=0-3-8 Horz 2=-56(LC 10) Uplift 2=-80(LC 9), 8=-80(LC 8) Grav 2=1547(LC 1), 8=1547(LC 1)							
TOP CHORD 2-3	x. Comp./Max. Ten All forces 250 (lb) =-2752/681, 3-4=-2649/706, 4-6=-3512/ 4=-490/2361, 12-14=-732/3436, 10-12=	874, 6-7=-2649/706, 7-8=-2						

90/2361, 12-14=-732/3436, 10-12=-737/3436, 8-10=-485/2361

WFBS 3-14=-73/854, 4-14=-1042/309, 6-10=-1042/309, 7-10=-73/854

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 29-8-0, Exterior(2) 29-8-0 to 35-10-11, Interior(1) 35-10-11 to 38-4-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

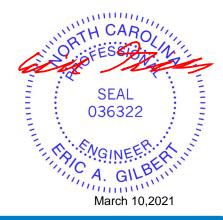
3) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

between the bottom chord and any other members.

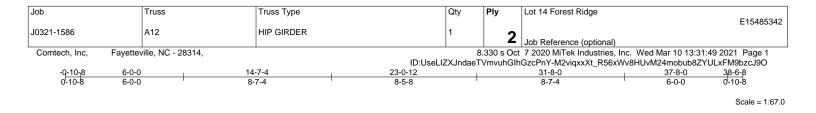
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 80 lb uplift at joint 8.

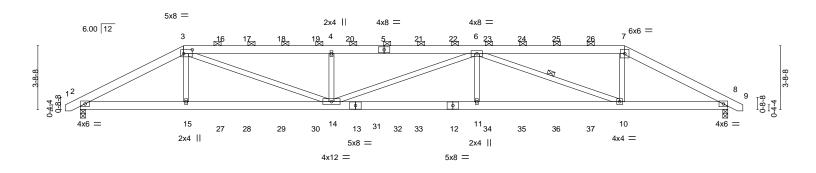
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







6	-0-0	14-7-4	1	23-0-12		31-8	3-0	37-8-0	I
	-0-0	8-7-4	1	8-5-8	1	8-7	-4	6-0-0	1
Plate Offsets (X,Y)	[3:0-6-0,0-2-12]								
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 NO Pl2014	<b>CSI.</b> TC 0.63 BC 0.64 WB 0.55 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (l -0.25 11 -0.51 11 0.11 0.25 11	-14 >999 -14 >875 8 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 479 lb	<b>GRIP</b> 244/190 FT = 20%
Max He Max U	No.1			BRACING- TOP CHOR BOT CHOR WEBS	2- D Ri	0-0 oc purlins	(4-11-7 max.) ctly applied o	ectly applied or 6-0-0 c ): 3-7. or 10-0-0 oc bracing. -10	Providence in the second
TOP CHORD         2-3=-1           BOT CHORD         2-15=           8-10=           WEBS         3-15=	Comp./Max. Ten All for 5664/1090, 3-4=-8456/16 -948/4900, 14-15=-945/4 -895/4860 -0/784, 3-14=-809/3829, 4 -231/1968	96, 4-6=-8455, 928, 11-14=-10	/1696, 6-7=-4949/984, 7- 538/8433, 10-11=-1638/8	8=-5620/1077 3433,			Wanner	SEA 0363	• –
Top chords connecte Bottom chords connected Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-10; V MWFRS (envelope); 5) Provide adequate dr 6) This truss has been 7) * This truss has been between the bottom 8) Provide mechanical	nected together with 10d ed as follows: 2x6 - 2 row ected as follows: 2x6 - 2 i follows: 2x4 - 1 row at 0-4 ered equally applied to all a been provided to distrib loads have been conside ult=130mph (3-second ge Lumber DOL=1.60 plate ainage to prevent water p designed for a 10.0 psf b n designed for a live load chord and any other men connection (by others) of	s staggered at rows staggered 3-0 oc. plies, except if ute only loads i ered for this de ust) Vasd=103r grip DOL=1.60 bonding. ottom chord live of 20.0psf on t nbers.	0-9-0 oc. at 0-9-0 oc. noted as front (F) or bac noted as (F) or (B), unles sign. mph; TCDL=6.0psf; BCD e load nonconcurrent with he bottom chord in all are	s otherwise indicat L=6.0psf; h=15ft; C h any other live loa eas with a clearanc	ed. Cat. II; Exp ds. ce greater	C; Enclosed; than 6-0-0	Ply to	A. G	EER. K IN
designer.	ry Piggyback Truss Conr					•	ng		

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

March 10,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 14 Forest Ridge
					E15485342
J0321-1586	A12	HIP GIRDER	1	2	
				<b></b>	Job Reference (optional)
Comtech, Inc, F	ayetteville, NC - 28314,		8	.330 s Oct	7 2020 MiTek Industries, Inc. Wed Mar 10 13:31:50 2021 Page 2

#### NOTES-

ID:UseLIZXJndaeTVmvuhGlhGzcPnY-qET41HyAeHZyk555i?08vGcxY?Eqt?odab?wh1zcJ9N

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 100 lb up at 6-0-0, 110 lb down and 100 lb up at 8-0-12, 110 lb down and 100 lb up at 9-7-4, 110 lb down and 100 lb up at 11-7-4, 110 lb down and 100 lb up at 13-7-4, 110 lb down and 100 lb up at 13-7-4, 110 lb down and 100 lb up at 12-7-4, 110 lb down and 100 lb up at 12-7-4, 110 lb down and 100 lb up at 12-7-4, 110 lb down and 100 lb up at 23-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 21-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 21-7-4, 110 lb down and 100 lb up at 25-7-4, 110 lb down and 100 lb up at 21-7-4, 110 lb down and 100 lb up at 25-7-4, 76 lb down at 100 lb up at 21-7-4, 110 lb down and 100 lb up at 25-7-4, 76 lb down at 13-7-4, 76 lb down at 15-7-4, 76 lb down at 17-7-4, 76 lb down at 23-7-4, 76 lb down at

## LOAD CASE(S) Standard

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

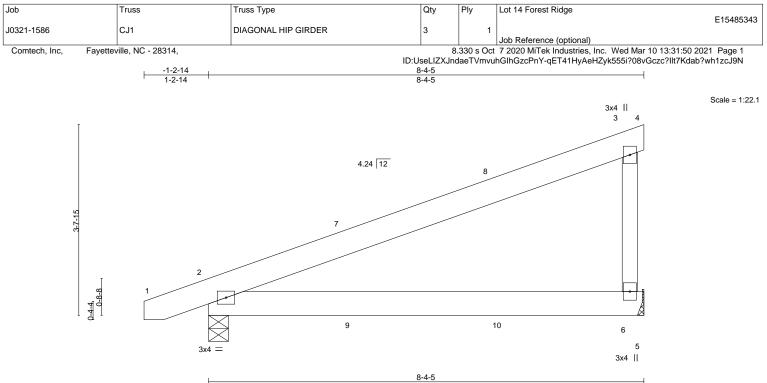
Uniform Loads (plf) Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-110(F) 5=-110(F) 7=-110(F) 15=-371(F) 10=-371(F) 12=-38(F) 16=-110(F) 17=-110(F) 18=-110(F) 19=-110(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-110(F) 24=-110(F) 25=-110(F) 26=-110(F) 27=-38(F) 28=-38(F) 30=-38(F) 31=-38(F) 32=-38(F) 33=-38(F) 34=-38(F) 35=-38(F) 36=-38(F) 37=-38(F) 32=-38(F) 32=-38(F) 33=-38(F) 32=-38(F) 32=-38(

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	1					
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 0.49	Vert(LL) -0.06	2-6 >999	360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.12	2-6 >789	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2 ****	240	Weight: 48 lb FT = 20%
LUMBER-			BRACING-			

TOP CHORD

BOT CHORD

# LUMBER-

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

REACTIONS. (size) 6=Mechanical, 2=0-4-9 Max Horz 2=110(LC 4)

Max Uplift 6=-85(LC 8), 2=-76(LC 4)

Max Grav 6=361(LC 1), 2=414(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-6=-264/143

## NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 6 and 76 lb uplift at ioint 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 28 lb up at 2-9-8, 18 lb down and 28 lb up at 2-9-8, and 44 lb down and 68 lb up at 5-7-7, and 44 lb down and 68 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

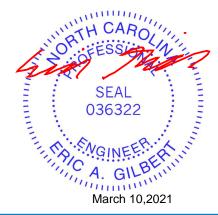
#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Vert: 8=-40(F=-20, B=-20) 10=-17(F=-9, B=-9)



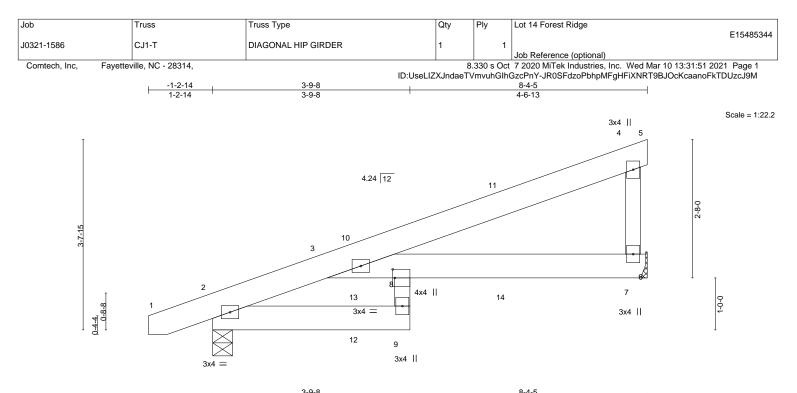
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



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LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.30	Vert(LL)	-0.04	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.10	7-8	>990	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	x-R	Wind(LL)	0.04	8	>999	240	Weight: 51 lb	FT = 20%

 BOT CHORD
 2x6 SP No.1 \*Except\*
 except end verticals.

 8-9: 2x4 SP No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

 REACTIONS.
 (size)
 7=Mechanical, 2=0-4-9 Max Horz
 2=110(LC 4)

Max Uplift 7=-45(LC 8), 2=-58(LC 4) Max Grav 7=383(LC 1), 2=424(LC 1)

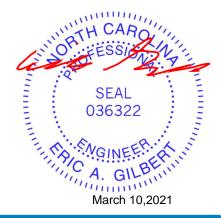
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-370/4

## NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 7 and 58 lb uplift at joint 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 28 lb up at 2-9-8, 18 lb down and 28 lb up at 2-9-8, and 44 lb down and 45 lb up at 5-7-7, and 44 lb down and 45 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 34 lb down at 5-7-7, and 34 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

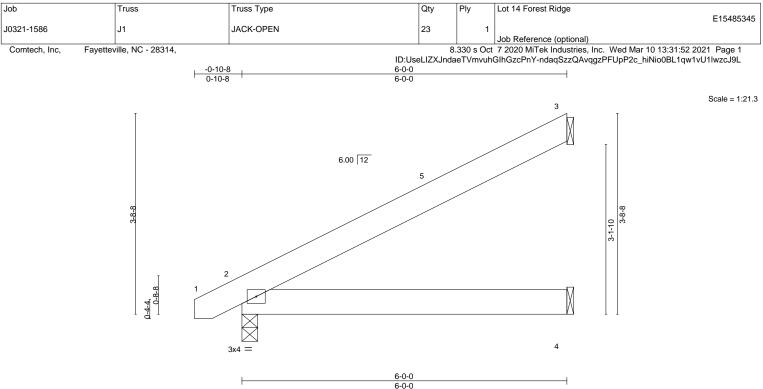
#### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-60, 4-5=-20, 2-9=-20, 6-8=-20 Concentrated Loads (lb) Vert: 11--22(F=-11, B=-11) 14=-68(F=-34, B=-34)



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			6-0-0					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) I/o	defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0	).02 2	2-4 >9	999 360	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0	).03 2	2-4 >9	999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0	0.00	3	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0	0.00	2	**** 240	Weight: 32 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

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

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

Max Horz 2=108(LC 12)

Max Uplift 3=-87(LC 12), 2=-9(LC 12)

Max Grav 3=170(LC 1), 2=287(LC 1), 4=116(LC 3)

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

## NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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 87 lb uplift at joint 3 and 9 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

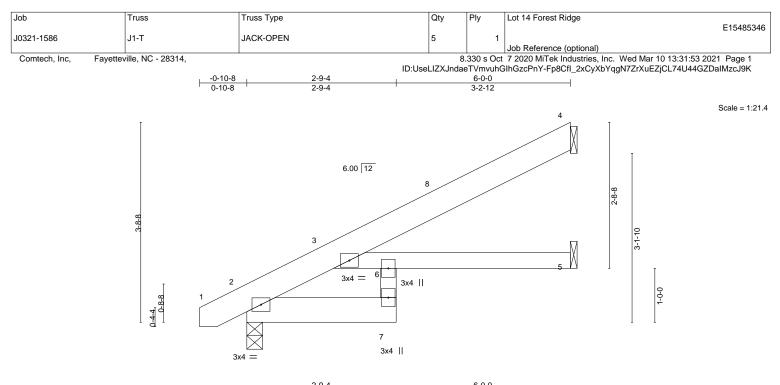


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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					-9-4 -9-4		<u> </u>								
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	0.18	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190			
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	5-6	>999	240					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a					
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-R	Wind(LL)	0.04	5-6	>999	240	Weight: 32 lb	FT = 20%			

# LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 \*Except\*

6-7: 2x4 SP No.2, 3-5: 2x4 SP No.1

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 2=108(LC 12)

Max Uplift 4=-59(LC 12), 2=-1(LC 12) Max Grav 4=167(LC 1), 2=301(LC 1), 5=93(LC 3)

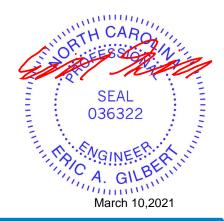
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-11-4 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

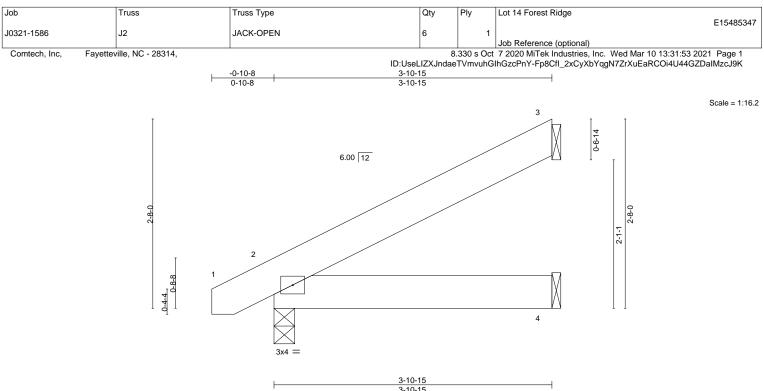
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 1 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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						3-10-15						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 22 lb	FT = 20%

# LUMBER-

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

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

Max Horz 2=73(LC 12)

Max Uplift 3=-57(LC 12), 2=-9(LC 12) Max Grav 3=105(LC 1), 2=206(LC 1), 4=74(LC 3)

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

## NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 3 and 9 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

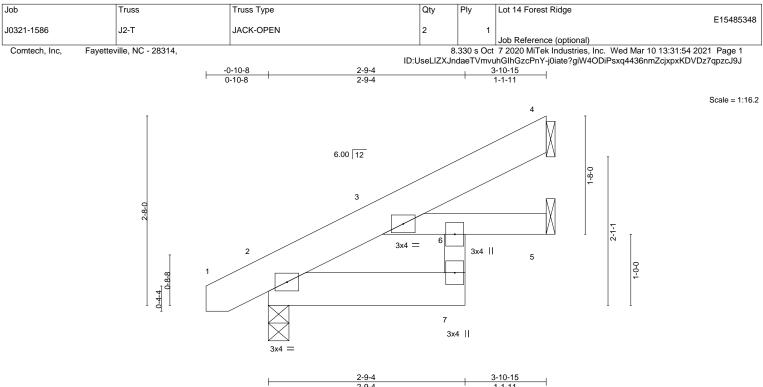


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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



				1	2-9-4			1	1-1-11				
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	7	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-R	Wind(LL)	0.00	7	>999	240	Weight: 24 lb	FT = 20%	

# LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 \*Except\*

6-7: 2x4 SP No.2, 3-5: 2x4 SP No.1

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

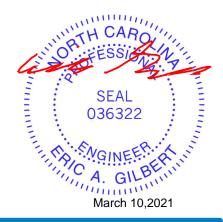
Max Horz 2=73(LC 12)

Max Uplift 4=-32(LC 12), 2=-3(LC 12) Max Grav 4=91(LC 1), 2=215(LC 1), 5=78(LC 3)

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

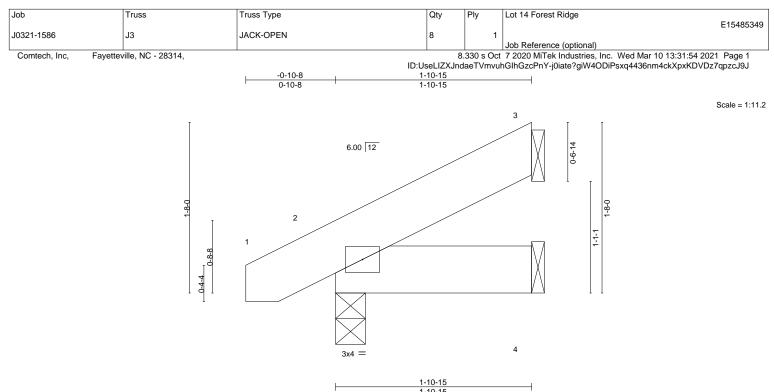
#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 3 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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						1-10	-15					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

## LUMBER-

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

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

Max Horz 2=42(LC 12)

Max Uplift 3=-29(LC 12), 2=-9(LC 12)

Max Grav 3=47(LC 1), 2=128(LC 1), 4=37(LC 3)

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

## NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3 and 9 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

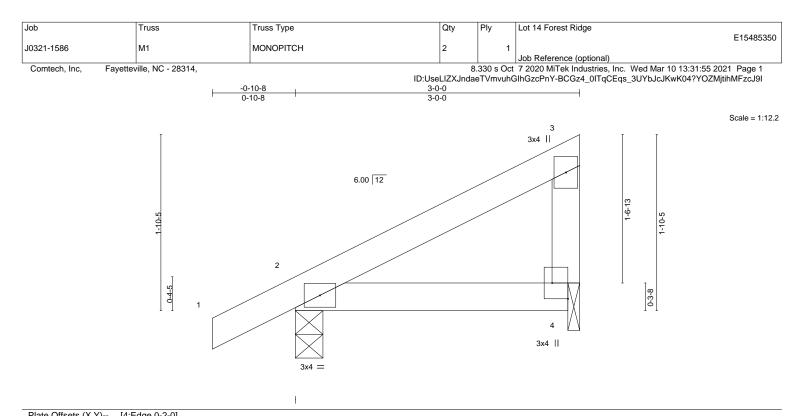


Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.11 BC 0.06 WB 0.00	Vert(CT) Horz(CT)	in -0.00 -0.01 0.00	2-4 2-4	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           LUMBER- TOP CHORD         2x4 SP No.1         BOT CHORD         2x4 SP No.1			Wind(LL) BRACING- TOP CHORI		2	iral wood	•	Weight: 13 lb ectly applied or 3-0-0 oc	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=85(LC 12) Max Uplift 2=-47(LC 12), 4=-43(LC 12) Max Grav 2=181(LC 1), 4=97(LC 1)

2x4 SP No.2

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

## NOTES-

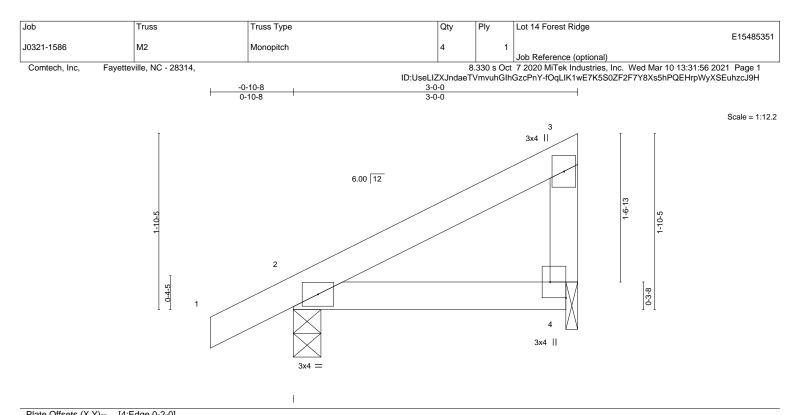
WEBS

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 43 lb uplift at joint 4.



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LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.07	DEFL. Vert(LL)	in -0.00	2-4	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 244/190
TCDL         10.0           BCLL         0.0 *           BCDL         10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.06 WB 0.00 Matrix-P	Vert(CT) Horz(CT) Wind(LL)	-0.01 0.00 0.00	2-4 2	>999 n/a ****	240 n/a 240	Weight: 13 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1		BRACING- TOP CHORD Structural wood sheathing dir except end verticals.				irectly applied or 3-0-0	oc purlins,		

2x4 SP No.1TOP CHORDStructural wood shearning directly applied of 3-0-0 oc pri2x4 SP No.1except end verticals.2x4 SP No.2BOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.

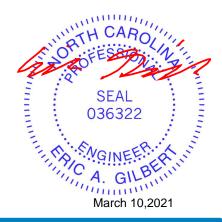
REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=58(LC 12) Max Uplift 2=-16(LC 12), 4=-21(LC 12) Max Grav 2=181(LC 1), 4=97(LC 1)

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

## NOTES-

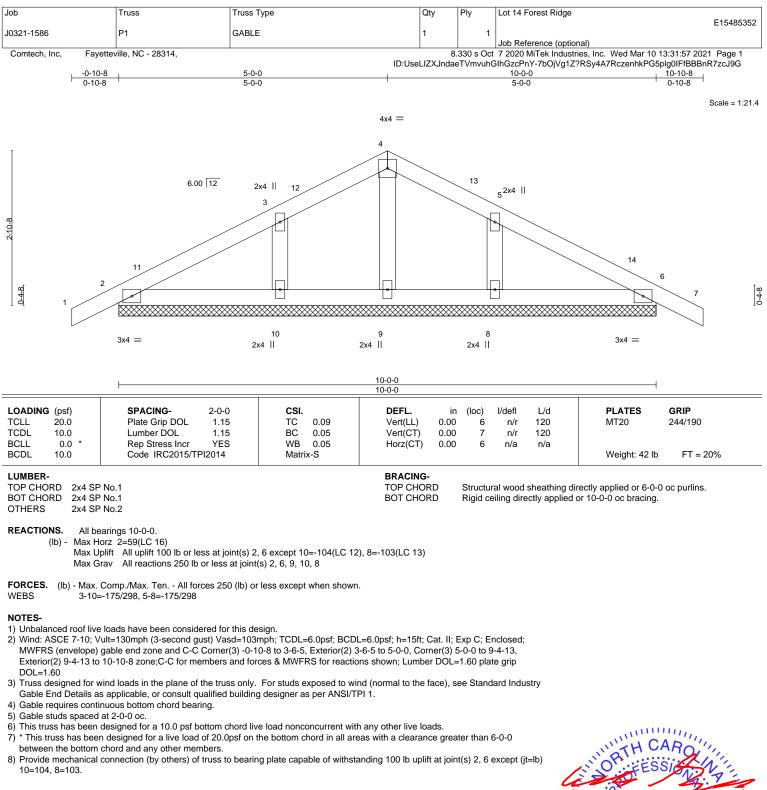
WEBS

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 21 lb uplift at joint 4.



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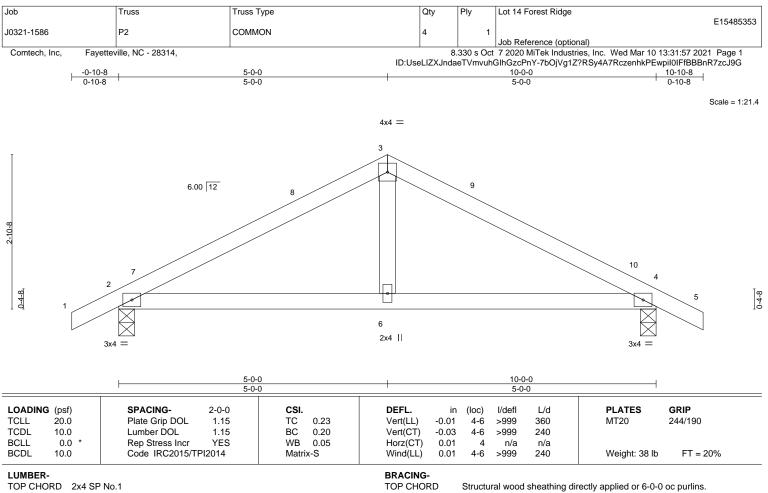




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BOT CHORD

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

# TOP CHORD

BOT CHORD 2x4 SP No.1 2x4 SP No.2 WFBS

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-38(LC 10)

Max Uplift 2=-38(LC 12), 4=-38(LC 13)

Max Grav 2=450(LC 1), 4=450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-532/201, 3-4=-532/202

TOP CHORD BOT CHORD 2-6=-66/412 4-6=-66/412

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-0-0, Exterior(2) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 10-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

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



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