

Trenco 818 Soundside Rd Edenton, NC 27932

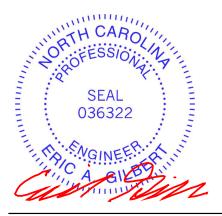
Re: J0422-2186 Wellco/Lot 34 Hidden Lakes/Harnett

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: I51460543 thru I51460566

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

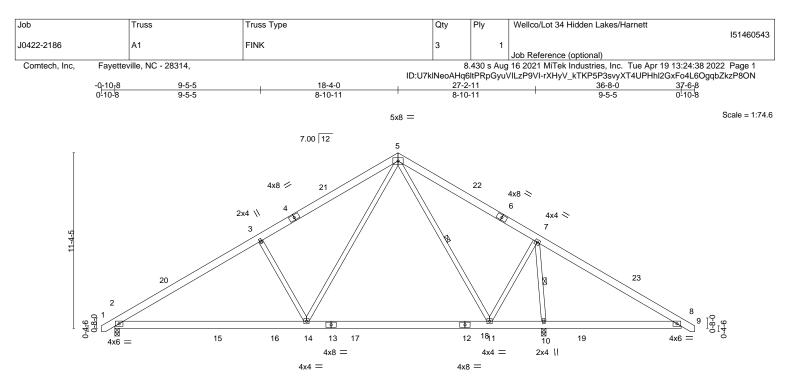
North Carolina COA: C-0844



April 19,2022

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.



	<u>12-4-14</u> <u>12-4-14</u>		24-3-2 11-10-4		27-11-0 3-7-14		36-8-0 8-9-0	
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 0.49	Vert(LL)	-0.25 11-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT)	-0.34 11-14	>988	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 2-14	>999	240	Weight: 251 lb	FT = 20%

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.2 WFBS

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-267(LC 10)

Max Uplift 2=-91(LC 12), 10=-123(LC 13)

Max Grav 2=1230(LC 19), 10=2118(LC 2)

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

TOP CHORD 2-3=-1683/189, 3-5=-1489/256, 5-7=-443/195, 7-8=-514/801

BOT CHORD 2-14=-150/1549. 11-14=0/675. 10-11=-419/492. 8-10=-554/540

WEBS 3-14=-612/340, 5-14=-172/1255, 5-11=-795/362, 7-11=-127/1187, 7-10=-1993/594

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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 37-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 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 91 lb uplift at joint 2 and 123 lb uplift at joint 10.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



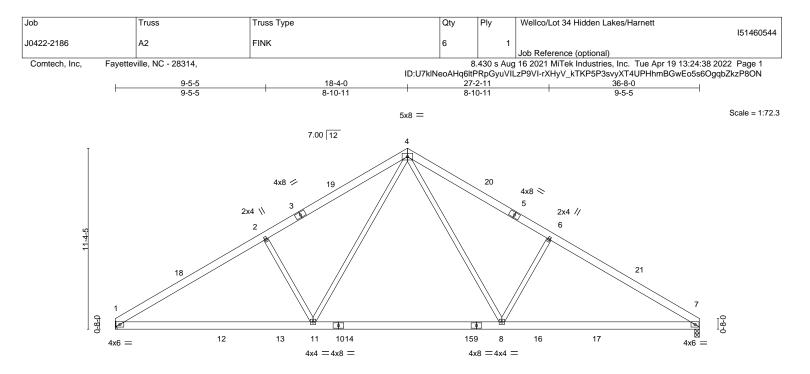
Structural wood sheathing directly applied or 5-7-4 oc purlins.

5-11, 7-10

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt





	12-4-14 12-4-14		24-3-2 11-10-4				<u>36-8-0</u> 12-4-14		
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 0.41	Vert(LL) -C	0.25 8	8-11 8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0	0.35 [·]	1-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) (0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) (0.06 [·]	1-11	>999	240	Weight: 239 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=Mechanical, 7=0-3-8

Max Horz 1=261(LC 11)

Max Uplift 1=-83(LC 12), 7=-82(LC 13) Max Grav 1=1699(LC 19), 7=1700(LC 20)

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

TOP CHORD 1-2=-2682/474, 2-4=-2486/540, 4-6=-2477/539, 6-7=-2672/472

BOT CHORD 1-11=-274/2404, 8-11=-31/1551, 7-8=-272/2195

WEBS 2-11=-604/340, 4-11=-169/1219, 4-8=-167/1204, 6-8=-593/337

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) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 36-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 1 and 82 lb uplift at joint 7.

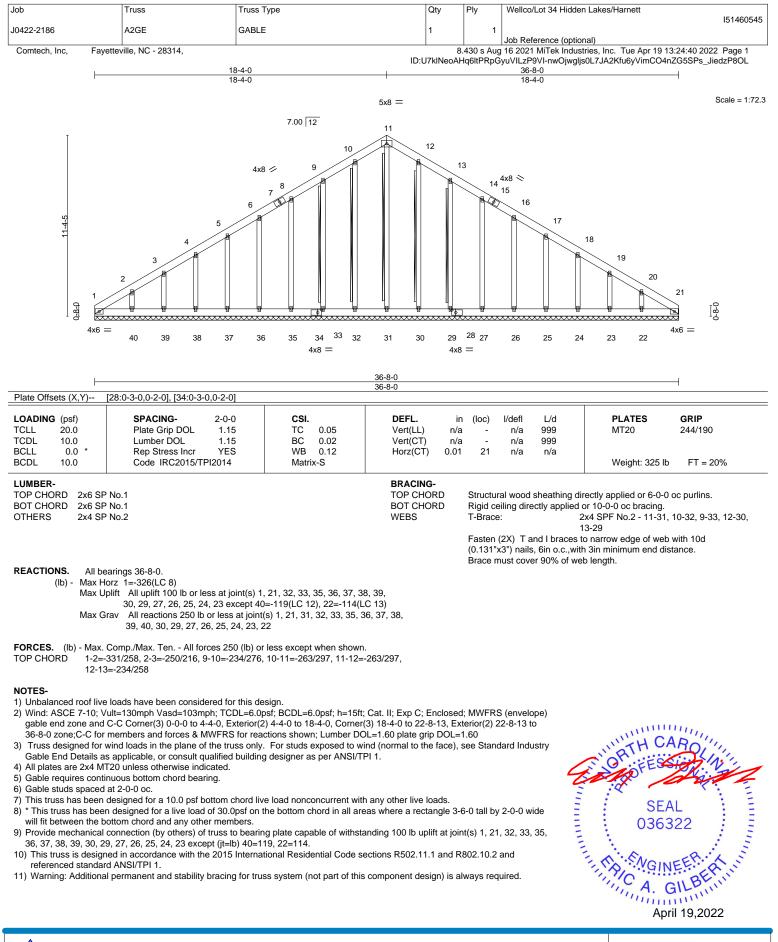
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-3-10 oc purlins.

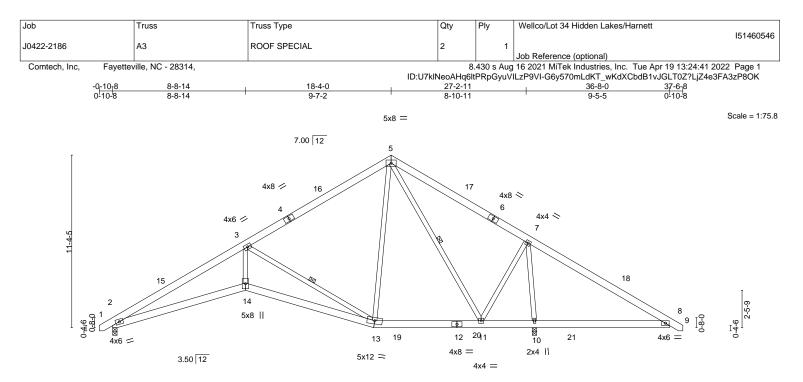
Rigid ceiling directly applied or 10-0-0 oc bracing.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 **MSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



F	8-8-14 8-8-14	17-2-4		24-3-2 7-0-14		27-1 3-7	11-0 -14		36-8-0 8-9-0		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL 1 Lumber DOL 1	0-0 CSI. 15 TC 15 BC ES WB 4 Matri	0.48 0.42 0.96 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.24 0.14 0.10	(loc) 14 13-14 10 14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240		PLATES MT20 Weight: 260 lb	GRIP 244/190 FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 10=

ACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-267(LC 10)

Max Holi

Max Uplift 2=-90(LC 12), 10=-123(LC 13) Max Grav 2=1054(LC 19), 10=1988(LC 1)

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

TOP CHORD 2-3=-2815/298, 3-5=-791/160, 5-7=-391/212, 7-8=-517/799

 BOT CHORD
 2-14=-309/2636, 13-14=-307/2626, 11-13=0/599, 10-11=-421/493, 8-10=-553/542

 WEBS
 5-11=-856/337, 3-14=-64/1628, 3-13=-2161/377, 7-11=-144/995, 7-10=-1762/611, 5-13=-70/703

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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 37-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=123.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



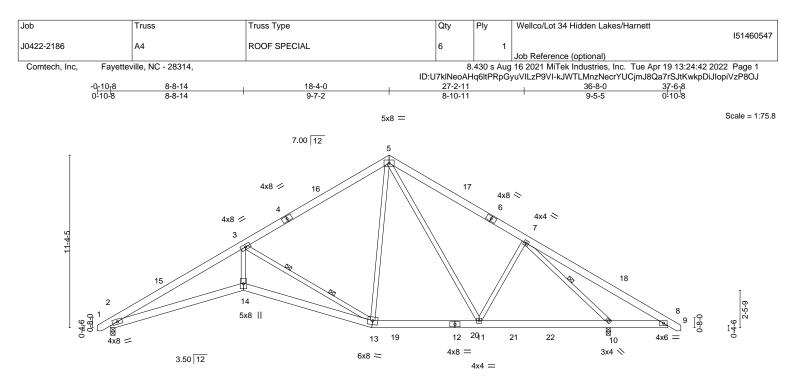
Structural wood sheathing directly applied or 4-5-3 oc purlins.

5-11. 3-13

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt





F	8-8-14 8-8-14		17-2-4 8-5-6		24-3-2 7-0-14				-9-4 6-2	36-8-0 3-10-12	
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	0.40	Vert(LL)	-0.17	14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.35	13-14	>999	240		
3CLL 0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.20	10	n/a	n/a		
3CDL 10.0	Code IRC2015/TPL	2014	Matrix	<-S	Wind(LL)	0.14	14	>999	240	Weight: 264 lb	FT = 20%

LUMBER-		BRACING-		
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheath	ing directly applied or 3-8-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly ap	plied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.2		6-0-0 oc bracing: 8-10.	· - ·
		WEBS	1 Row at midpt	7-10
			2 Rows at 1/3 pts	3-13

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-267(LC 10) Max Uplift 2=-93(LC 12), 10=-104(LC 13) Max Grav 2=1367(LC 19), 10=1711(LC 20)

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

TOP CHORD 2-3=-3920/578, 3-5=-1401/365, 5-7=-1516/386, 7-8=-352/537

- BOT CHORD 2-14=-390/3612, 13-14=-387/3600, 11-13=0/1128, 10-11=-84/1160, 8-10=-348/405
- WEBS 5-11=-110/408, 3-14=-110/2168, 3-13=-2645/469, 5-13=-69/678, 7-10=-1980/627

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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 37-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 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.

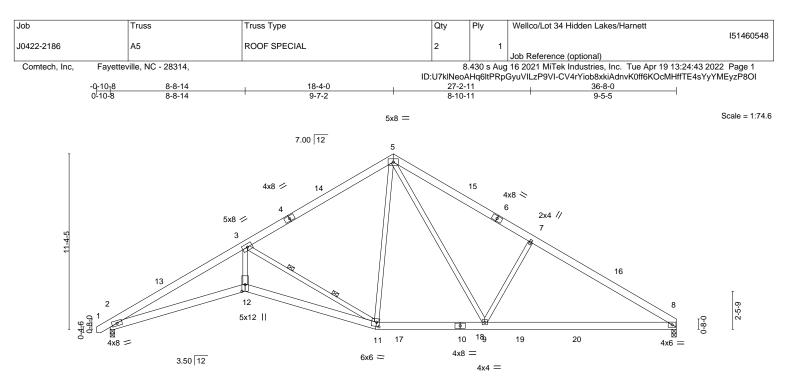
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=104.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







	<u>8-8-14</u> 8-8-14	<u> </u>	24-3-2 7-0-14	<u> </u>	
Plate Offsets (X,) [11:0-2-4,0-3-4], [12:0-5-3,0-2	2-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0	Plate Grip DOL 1	0-0 CSI. .15 TC 0.45 .15 BC 0.64	Vert(LL) -0.21 8	oc) l/defl L/d 8-9 >999 360 8-9 >999 240	PLATES GRIP MT20 244/190
BCLL 0.0 BCDL 10.0	* Rep Stress Incr Y Code IRC2015/TPI20	ES WB 0.96 14 Matrix-S	Horz(CT) 0.24 Wind(LL) 0.16	8 n/a n/a 12 >999 240	Weight: 250 lb FT = 20%

LUMBER-	· · · · · · · · · · · · · · · · · · ·	BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-3-15 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	2 Rows at 1/3 pts 3-11
DEACTIONO			

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=265(LC 9) Max Uplift 2=-94(LC 12), 8=-82(LC 13) Max Grav 2=1538(LC 19), 8=1596(LC 20)

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

TOP CHORD 2-3=-4523/717, 3-5=-1746/438, 5-7=-2254/540, 7-8=-2449/473

BOT CHORD 2-12=-536/4142, 11-12=-532/4130, 9-11=-25/1413, 8-9=-271/2006

WEBS 5-9=-181/1099, 3-12=-188/2465, 3-11=-2914/549, 7-9=-586/334, 5-11=-72/623

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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 36-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

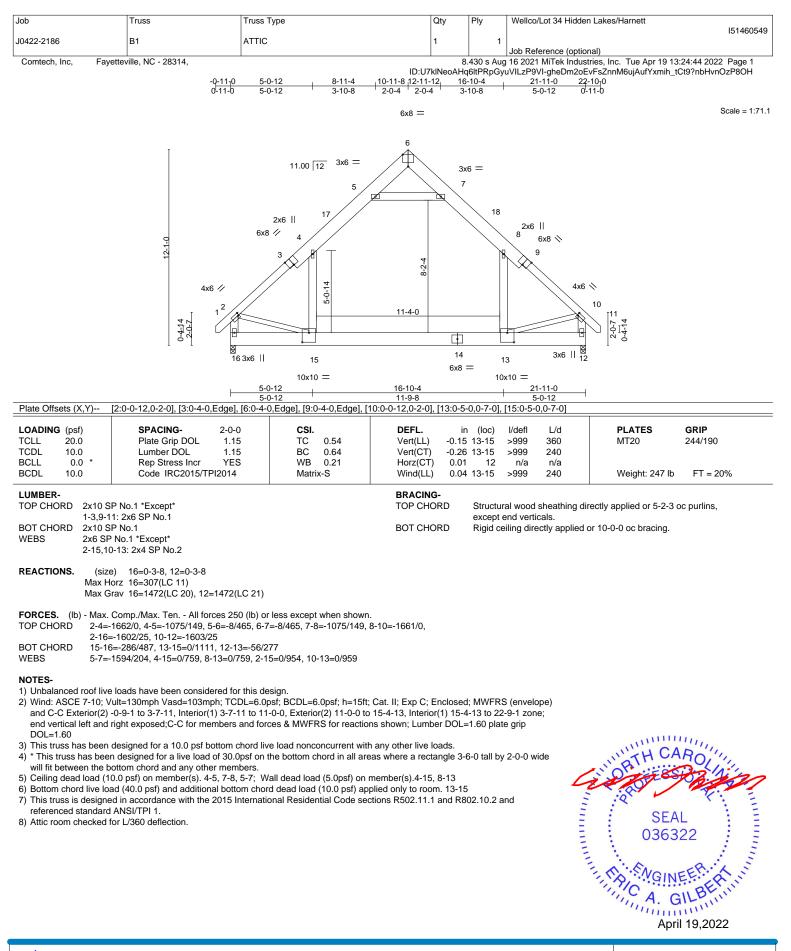
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.



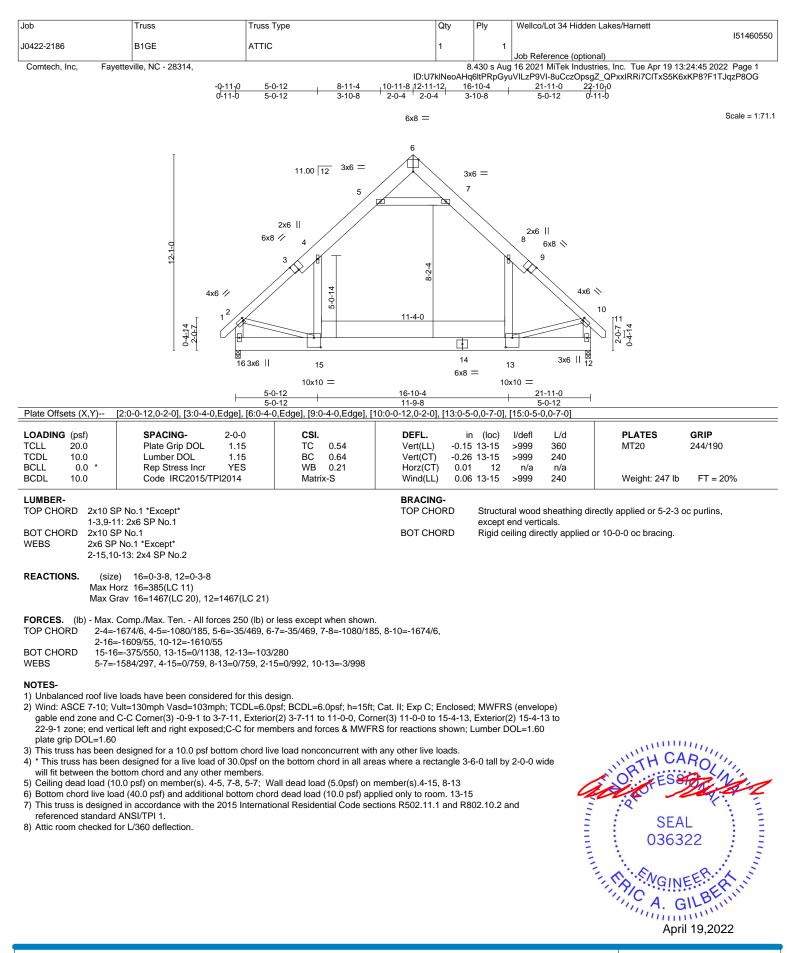




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

TRENCO A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932



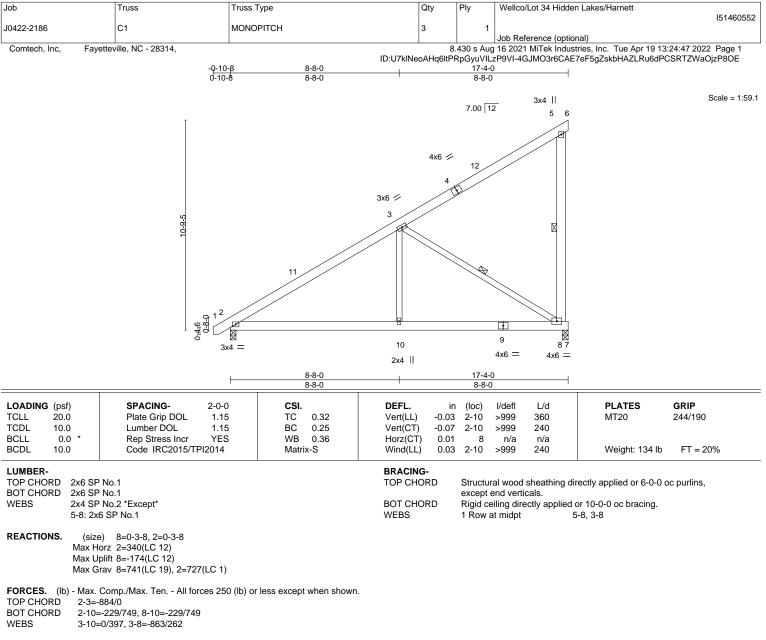
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **MSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 34 Hidden L	akes/Harnett	
J0422-2186	B2	ATTIC	10	1			151460551
Comtech, Inc, Fay	etteville, NC - 28314,		8	430 s Au	Job Reference (optiona g 16 2021 MiTek Industrie		13:24:46:2022 Page 1
	20014,	5-0-12 8-11-4 1		tPRpGyu\	/ILzP9VI-c4m_BjqURs60 21-11-0		
	<u> </u>	5-0-12 0-11-4 5-0-12 3-10-8	2-0-4 2-0-4 3-10-		5-0-12		
			6x8 =				Scale = 1:71.1
	T		5				
		3x6 =	3x6 =	=			
		11.00 12 4	6				
				45			
		2x6 ¹⁴		15	2x6		
		3		//	7 16		
			8-2-4	The second se	4x6 🕅		
	4x6 1/2	4	ŵ		8 4x6	<	
	1	5-0-14			9		
	J		11-4-0			I.	
	5-0-7	<mark> </mark> _		•		2-0-7	
	1 I 5x12	42	<u>L</u>	40	5x12	I	
	5812	12 3x10	6x8 =	10 3x10			
	 	5-0-12	16-10-4		21-11-0		
Plate Offsets (X,Y)	[5:0-4-0,Edge], [10:0-7-4,0-1-8],	5-0-12 [12:0-7-4,0-1-8]	11-9-8		5-0-12		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15			10-12 10-12	>999 360 >999 240	MT20	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01	9	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	12	>999 240	Weight: 259	b FT = 20%
LUMBER- TOP CHORD 2x10 S	P No.1		BRACING- TOP CHORD	Structur	al wood sheathing dire	ctly applied or 6-0-	0 oc purlins.
BOT CHORD 2x10 S	P No.1		BOT CHORD		eiling directly applied or		
	6 SP No.1 3-4-13, Right 2x6 SP	No.1 3-4-13					
REACTIONS. (size	e) 1=0-3-8, 9=0-3-8						
	orz 1=-268(LC 8) rav 1=1438(LC 21), 9=1438(LC	20)					
TOP CHORD 1-3=-	Comp./Max. Ten All forces 25 1947/0, 3-4=-1098/150, 4-5=-3/3	88, 5-6=-3/389, 6-7=-1098/150,					
	=0/1125, 10-12=0/1129, 9-10=0/ 1521/202, 3-12=0/1034, 7-10=0/						
NOTES-	, ,						
1) Unbalanced roof live	e loads have been considered for						
	'ult=130mph Vasd=103mph; TCI 0-0-8 to 4-5-5, Interior(1) 4-5-5 to						
	ces & MWFRS for reactions sho designed for a 10.0 psf bottom of	, I 61					
4) * This truss has bee	n designed for a live load of 30.0	psf on the bottom chord in all an		6-0 tall by	2-0-0 wide		
	ottom chord and any other mem 0.0 psf) on member(s). 3-4, 6-7,		member(s).3-12, 7-10			, mining	A.D.1111
	ad (40.0 psf) and additional botto ed in accordance with the 2015 Ir				ind	I' RTH U	AROLIN
referenced standard 8) Attic room checked	ANSI/TPI 1.				4	FES	The second
of Alle room checked						1	
					E	SE	• –
					E	SE 036	322
					11		1 3
					3	S SNGI	NEEPA
						"ICA	GILBERT
							unin in
						Ap	oril 19,2022





NOTES-

 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 17-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

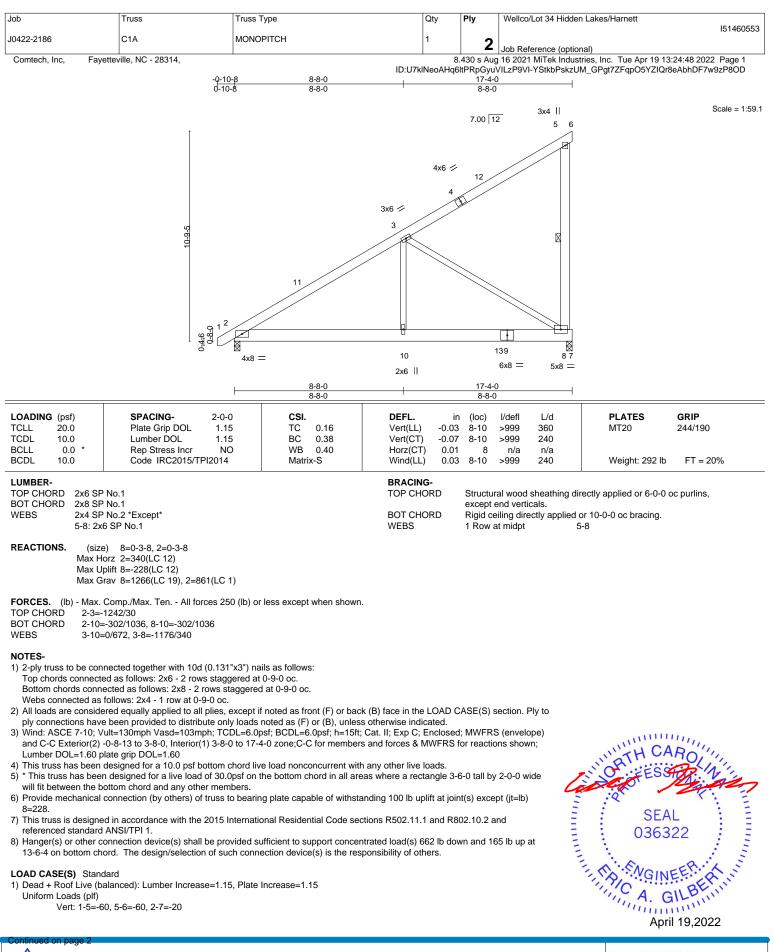
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=174.

5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







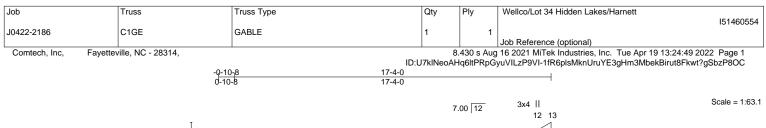
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

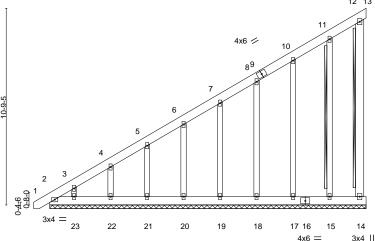
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 34 Hidden Lakes/Harnett		
					151460553		
J0422-2186	C1A	MONOPITCH	1	2			
				_	Job Reference (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Tue Apr 19 13:24:48 2022 Page 2		
		ID:U7klNeoAHq6ltPRpGyuVILzP9VI-YStkbPskzUM_GPgt7ZFqpO5YZlQr8eAbhDF7w9zP8OD					

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 13=-654(B)







				T		17-4-0						
	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	0.04	Vert(LL)	0.00	1	n/r	120	MT20	244/190
FCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 168 lb	FT = 20%

17-/-0

LUMBER	•
--------	---

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

BRACING-TOP CHORD Structural wood sheathin except end verticals. BOT CHORD Rigid ceiling directly ap WEBS T-Brace: Fasten (2X) T and I bra (0.131*3*) pails 6in o.

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 12-14, 11-15 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 17-4-0.

- (lb) Max Horz 2=492(LC 12)
 - Max Uplift
 All uplift 100 lb or less at joint(s) 13, 14, 2, 15, 17, 18, 19, 20, 21, 22 except 23=-121(LC 12)

 Max Grav
 All reactions 250 lb or less at joint(s) 13, 14, 15, 17, 18, 19, 20, 21, 22, 23 except 2=289(LC 12)

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

TOP CHORD 2-3=-564/452, 3-4=-482/384, 4-5=-416/331, 5-6=-353/282, 6-7=-290/232

NOTES-

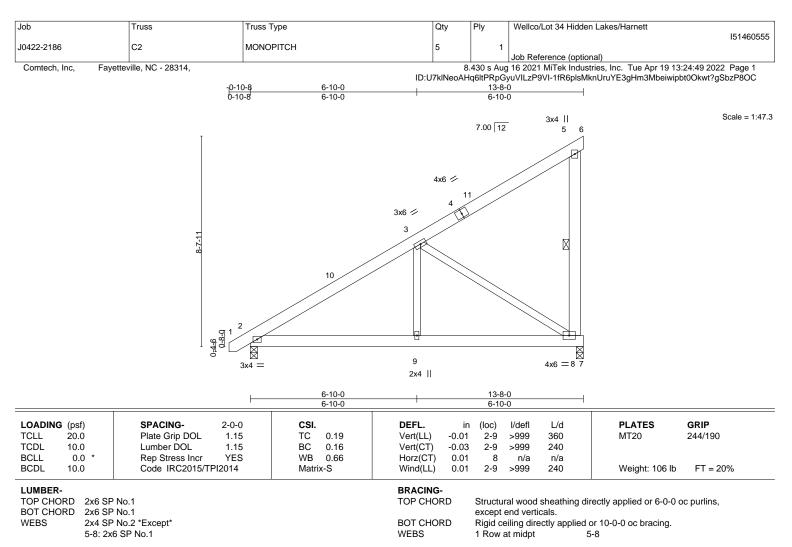
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-13 to 3-8-0, Exterior(2) 3-8-0 to 17-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 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.

- 8) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 2, 15, 17, 18, 19, 20, 21, 22 except (jt=lb) 23=121.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



ENGINEERING BY A MITEK Affiliate 818 Soundside Road Edenton, NC 27932



REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=271(LC 12) Max Uplift 8=-138(LC 12) Max Grav 8=586(LC 19), 2=581(LC 1)

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

TOP CHORD 2-3=-679/0

BOT CHORD 2-9=-196/582, 8-9=-196/582

WEBS 3-9=0/307, 3-8=-673/225

NOTES-

 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 13-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

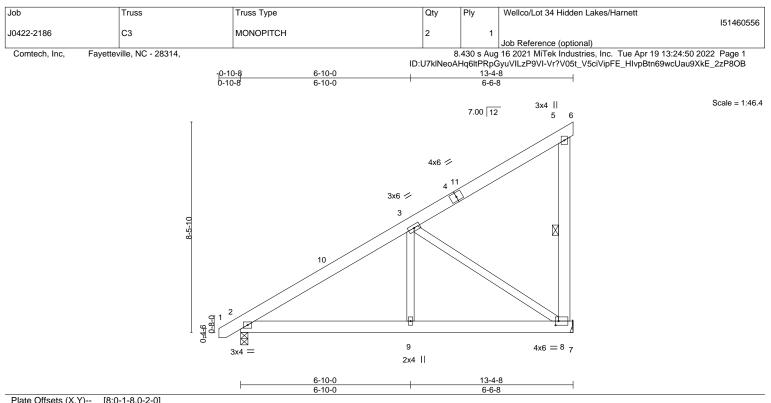
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=138.

5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







	[8.0-1-8,0-2-0]							1	
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 0.18 BC 0.15 WB 0.60	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.01 -0.03 0.01	(loc) 2-9 2-9 8	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.01	2-9	>999	240	Weight: 103 lb	FT = 20%
LUMBER- TOP CHORD 2x6 S BOT CHORD 2x6 S WEBS 2x4 S 5-8: 2	BRACING- TOP CHORI BOT CHORI WEBS	OP CHORD Structural wood sheathing directly appliexcept end verticals. OT CHORD Rigid ceiling directly applied or 10-0 o				or 10-0-0 oc bracing.	oc purlins,		
Max Max	ze) 8=Mechanical, 2=0-3-8 Horz 2=265(LC 12) Jplift 8=-135(LC 12) Grav 8=573(LC 19), 2=569(LC 1)								
TOP CHORD 2-3=	. Comp./Max. Ten All forces 250 (lb) o 655/0 -189/558_8-9=-189/558	r less except when shown.							

- BOT CHORD 2-9=-189/558, 8-9=-189/558
- WEBS 3-9=0/301, 3-8=-656/221

NOTES-

 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 13-4-8 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.

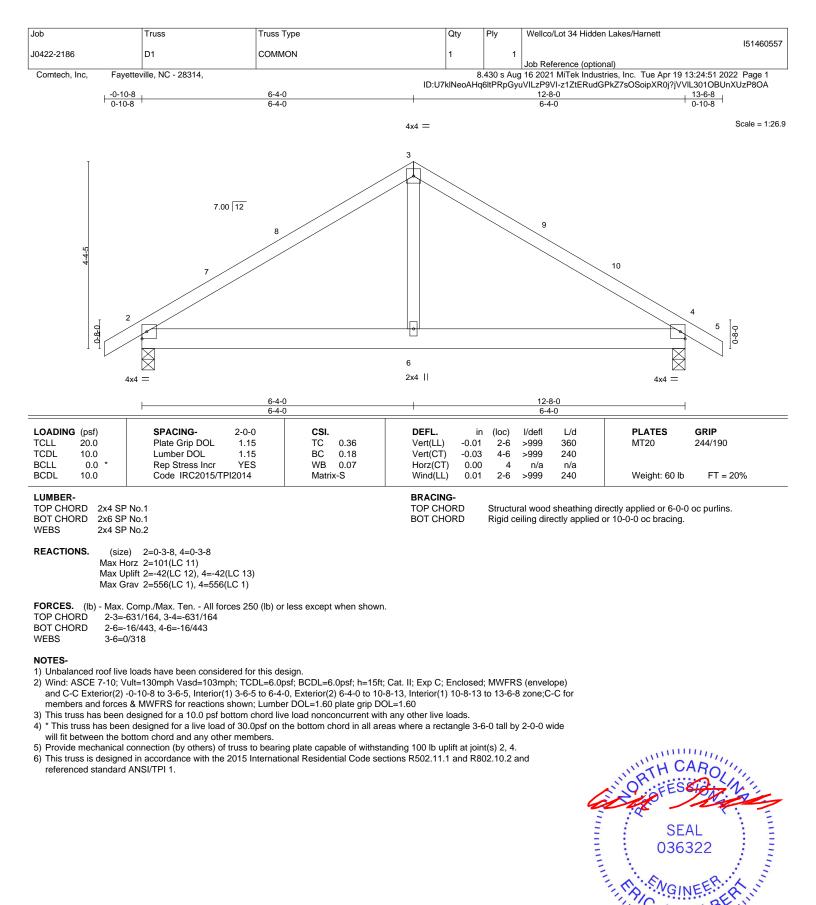
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=135.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



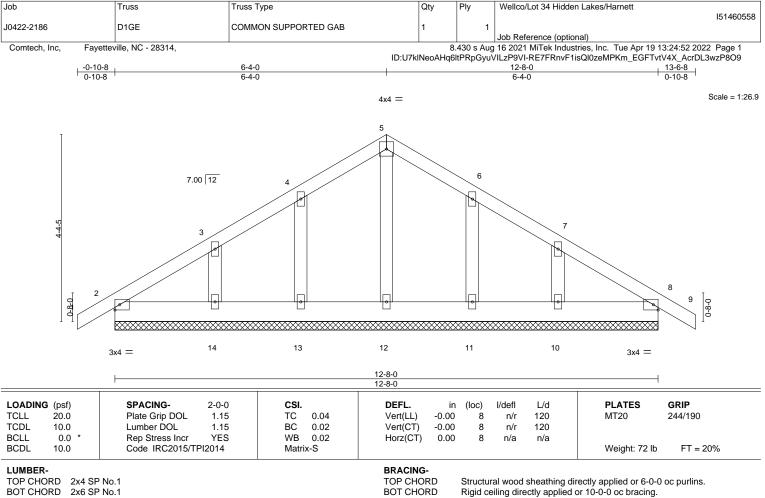




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 19,2022



BOT CHORD 2x6 SP No.1 2x4 SP No.2 OTHERS

REACTIONS. All bearings 12-8-0.

Max Horz 2=-126(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-102(LC 12), 10=-100(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

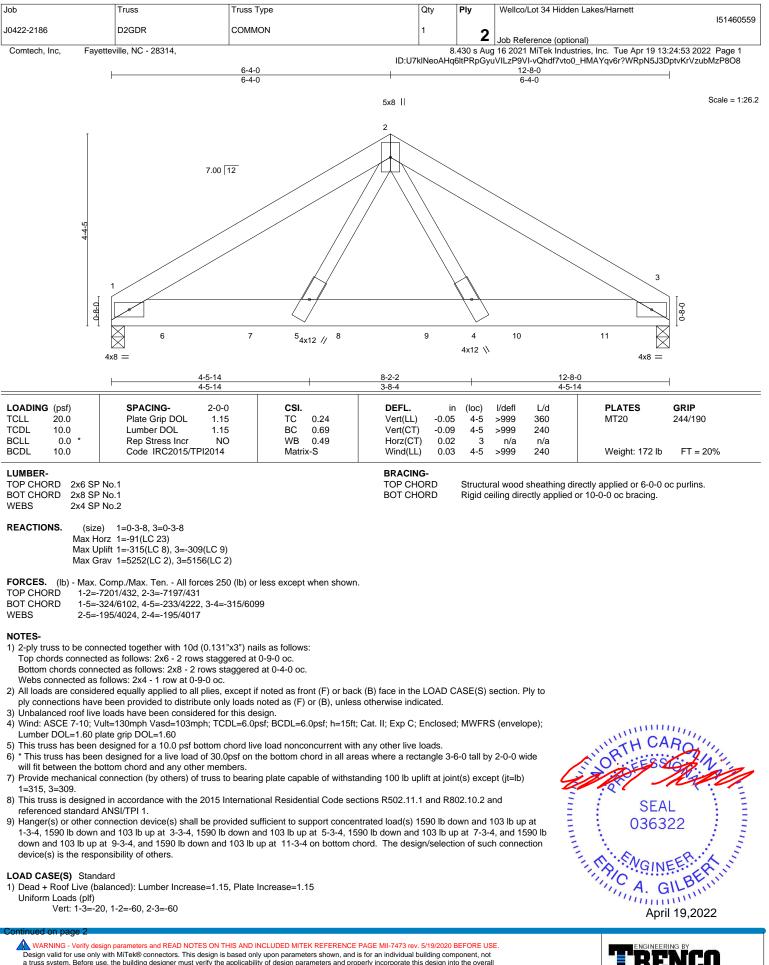
1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph 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) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-4-0, Corner(3) 6-4-0 to 10-8-13, Exterior(2) 10-8-13 to 13-6-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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, 8, 13, 11 except (jt=lb) 14=102, 10=100.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

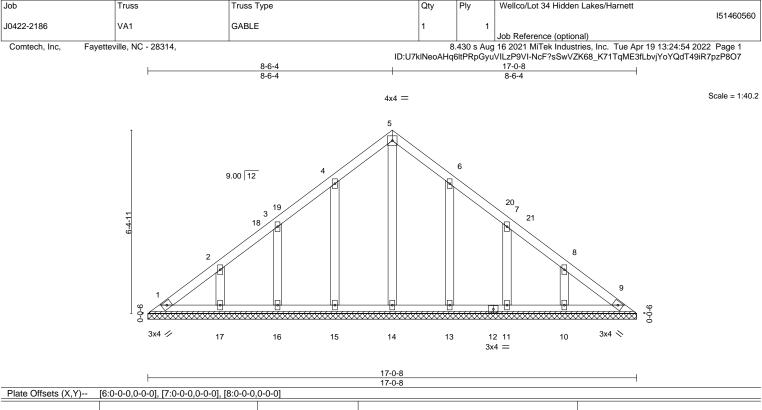
818 Soundside Road Edenton, NC 27932

[Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 34 Hidden Lakes/Harnett
						151460559
	J0422-2186	D2GDR	COMMON	1	2	
					_	Job Reference (optional)
	Comtech, Inc, Fayetter	ville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Apr 19 13:24:53 2022 Page 2
			ID:U7	klNeoAHq	SltPRpGyu	VILzP9VI-vQhdf7vto0_HMAYqv6r?WRpN5J3DptvKrVzubMzP8O8

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 6=-1438(F) 7=-1438(F) 8=-1438(F) 9=-1438(F) 10=-1438(F) 11=-1438(F)





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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code IRC2015/	TPI2014	Matri	x-S						Weight: 89 lb	FT = 20%
LUMBER-			_		BRACING-						
TOP CHORD 2x4 SP No 1					TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins						

BOT CHORD

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

REACTIONS. All bearings 17-0-8.

2x4 SP No.1

2x4 SP No.2

(lb) -Max Horz 1=-182(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 16, 11 except 15=-102(LC 12), 17=-114(LC 12), 13=-100(LC 13), 10=-114(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 17, 13, 11, 10

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

NOTES-

BOT CHORD

OTHERS

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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 8-6-4, Exterior(2) 8-6-4 to 12-11-1, Interior(1) 12-11-1 to 16-7-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 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) 1, 9, 16, 11 except (it=lb) 15=102, 17=114, 13=100, 10=114.

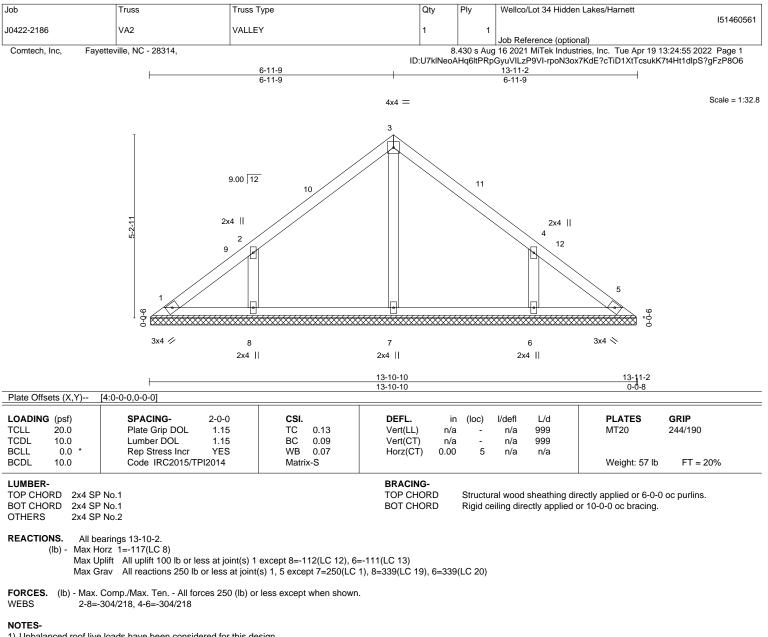
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 19,2022



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



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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-11-9, Exterior(2) 6-11-9 to 11-4-6, Interior(1) 11-4-6 to 13-5-13 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.

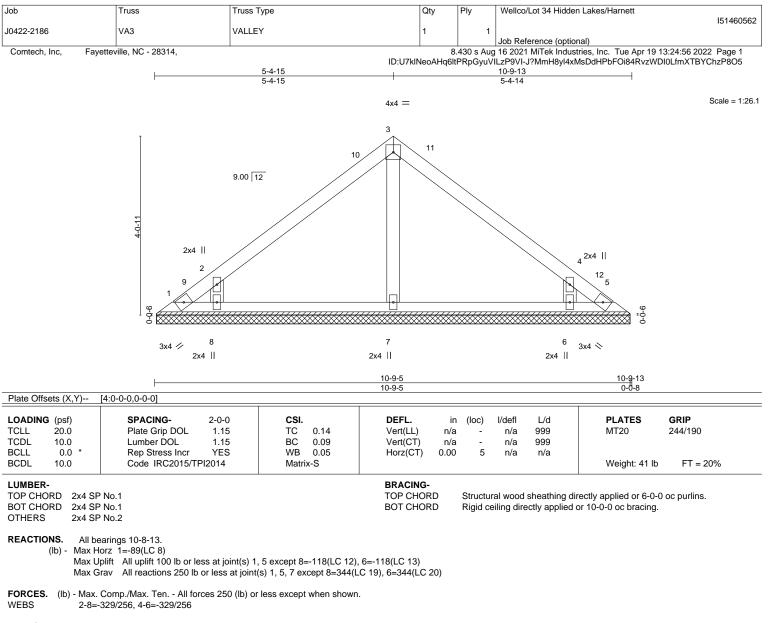
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=112, 6=111.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-4-15, Exterior(2) 5-4-15 to 9-9-11, Interior(1) 9-9-11 to 10-4-8 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.

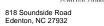
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

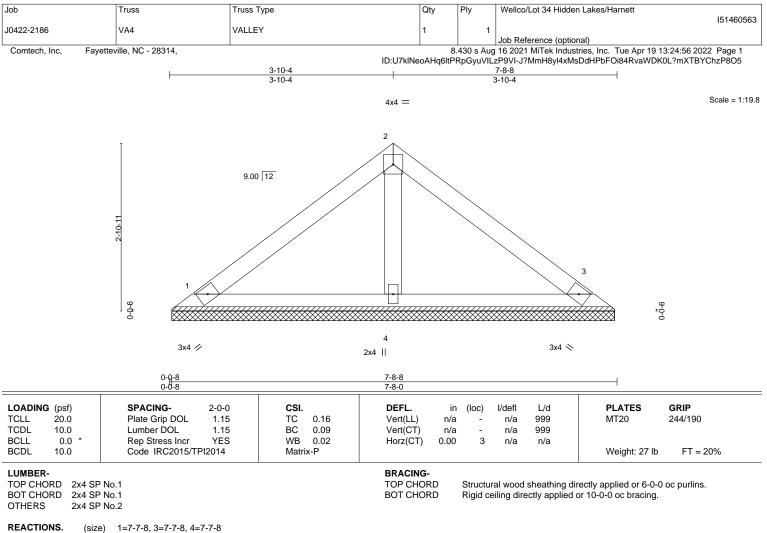
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=118, 6=118.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



Max Horz 1=-61(LC 10)

Max Uplift 1=-24(LC 12), 3=-30(LC 13)

Max Grav 1=153(LC 1), 3=153(LC 1), 4=240(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) 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.

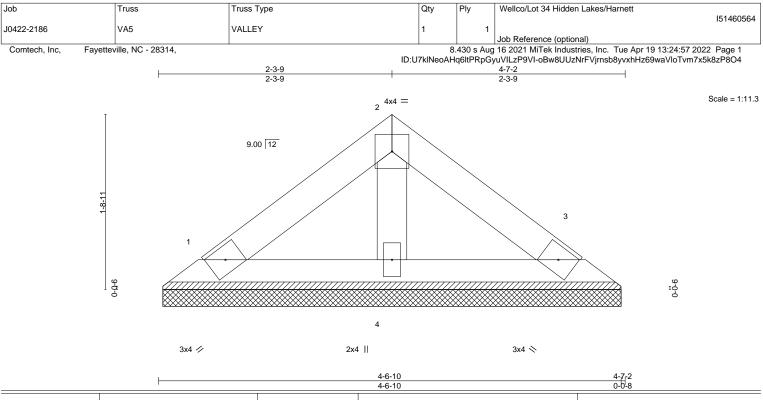
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

6) Non Standard bearing condition. Review required.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







· · · · · · · · · · · · · · · · · · ·		4-6	6-10		0-0-8		
LOADING (psf)	SPACING- 2-0-0	CSI. I	DEFL. in	(loc) l/de	efl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a	- n/	/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a	- n/	/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01 H	Horz(CT) 0.00	3 n/	/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P				Weight: 15 lb	FT = 20%
		1					
LUMBER-		E	BRACING-				

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=4-6-2, 3=4-6-2, 4=4-6-2

Max Horz 1=-33(LC 8)

Max Uplift 1=-13(LC 12), 3=-16(LC 13)

Max Grav 1=83(LC 1), 3=83(LC 1), 4=130(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=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) 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) 1, 3.

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

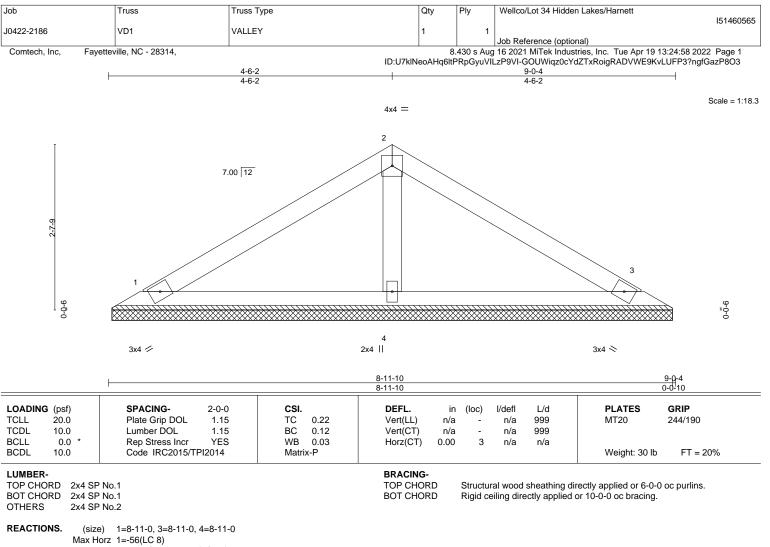


Structural wood sheathing directly applied or 4-7-2 oc purlins.

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

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

818 Soundside Road Edenton, NC 27932



Max Uplift 1=-27(LC 12), 3=-32(LC 13)

Max Grav 1=166(LC 1), 3=166(LC 1), 4=299(LC 1)

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

NOTES-

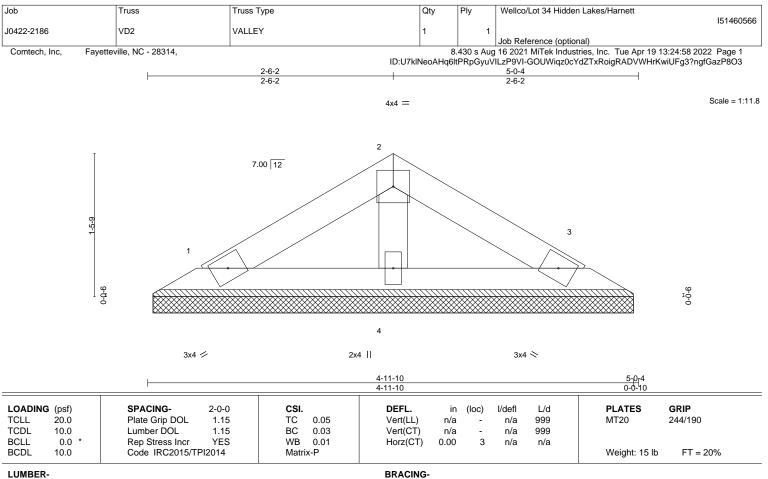
1) Unbalanced roof live loads have been considered for this design.

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) 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) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







TOP CHORD

BOT CHORD

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

REACTIONS. (size) 1=4-11-0, 3=4-11-0, 4=4-11-0

Max Horz 1=28(LC 11)

Max Uplift 1=-13(LC 12), 3=-16(LC 13)

Max Grav 1=82(LC 1), 3=82(LC 1), 4=148(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=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) 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) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-0-4 oc purlins.

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



