

Trenco 818 Soundside Rd Edenton, NC 27932

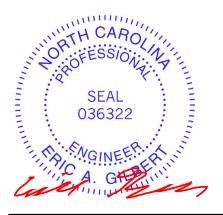
Re: J0423-1888 Wellco/Lot 97 Hidden Lakes/Harnett

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: I58265886 thru I58265909

My license renewal date for the state of North Carolina is December 31, 2023.

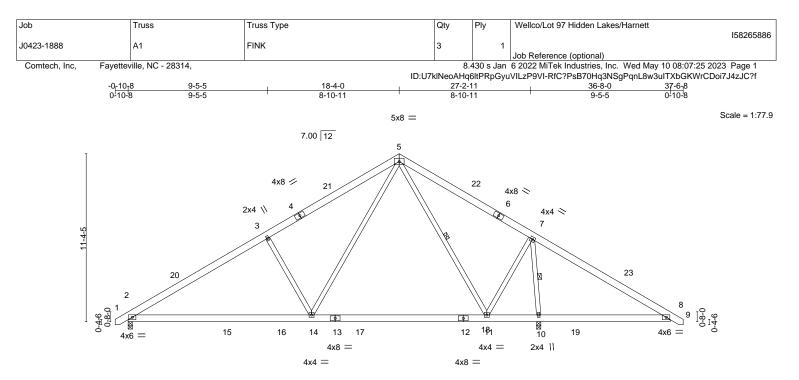
North Carolina COA: C-0844



May 10,2023

# 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.



		2-4-14 2-4-14			24-3-2 11-10-4			7-11-0 3-7-14		36-8-0 8-9-0	
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.25 1		>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.34 11		>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/T	PI2014	Matrix	<-S	Wind(LL)	0.05 2	2-14	>999	240	Weight: 251 lb	FT = 20%

## LUMBER-

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

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.



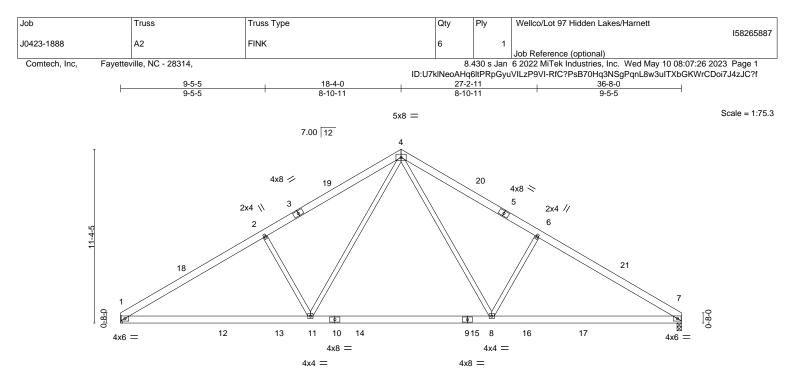
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



TOP CHORD BOT CHORD WEBS

BRACING-

Structural wood sheathing directly applied or 5-7-4 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 5-11, 7-10



	<u>12-4-14</u> 12-4-14		24-3-2 11-10-4		36-8-0 12-4-14		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.41 BC 0.72 WB 0.45 Matrix-S	DEFL. in Vert(LL) -0.25 Vert(CT) -0.35 Horz(CT) 0.06 Wind(LL) 0.06	8-11 >999	360 240 n/a	PLATES MT20 Weight: 239 lb	<b>GRIP</b> 244/190 FT = 20%

TOP CHORD

BOT CHORD

## LUMBER-

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

REACTIONS. (size) 1=Mechanical, 7=0-3-8 Max Horz 1=-261(LC 8) Max Uplift 1=-83(LC 12), 7=-82(LC 13) Max Grav 1=1699(LC 19), 7=1700(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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.

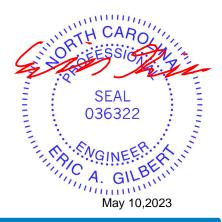
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 36-6-4 zone; C-C for members and forces & MWFRS for reactions 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.

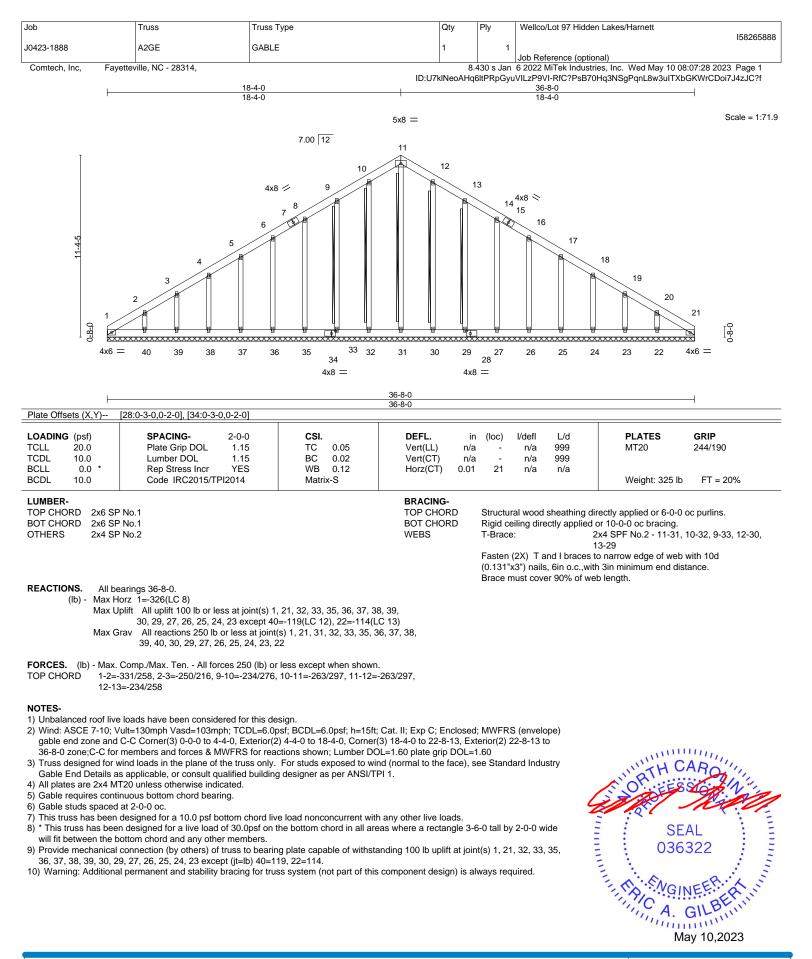
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 1 and 82 lb uplift at joint 7.



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

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

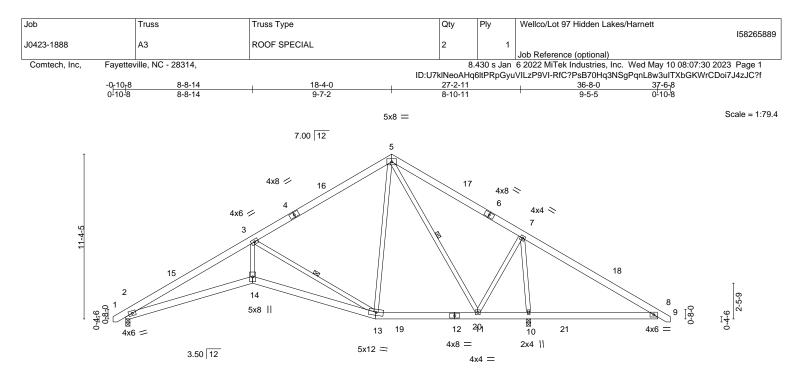




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# ENGINEERING BY A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932



	8-8-14 8-8-14	<u>17-2-4</u> 8-5-6	24-3-2 7-0-14	27-11-0 3-7-14	<u>36-8-0</u> 8-9-0	<u> </u>
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.48 BC 0.42 WB 0.96 Matrix-S	Vert(CT) -0 Horz(CT) 0	in (loc) l/defl 0.12 14 >999 0.24 13-14 >999 0.14 10 n/a 0.10 14 >999	360 N 240 n/a	PLATES         GRIP           VIT20         244/190           Neight: 260 lb         FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-267(LC 10) Max Uplift 2=-90(LC 12), 10=-123(LC 13) Max Grav 2=1054(LC 19), 10=1988(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.

6) 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.

# SEAL 036322 May 10,2023

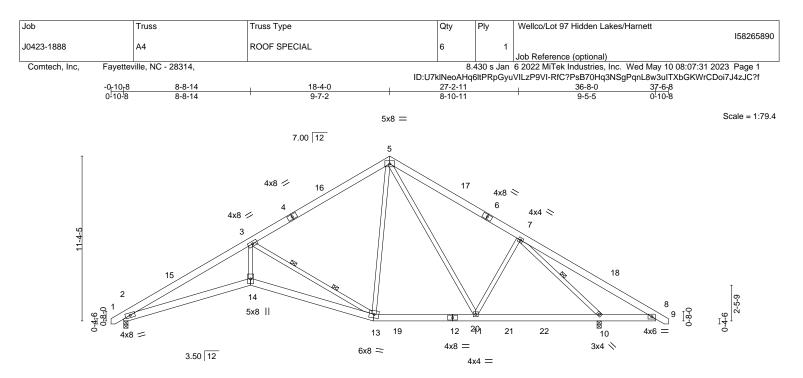
Structural wood sheathing directly applied or 4-5-3 oc purlins.

5-11, 3-13

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

1 Row at midpt





	8-8-14	17-2-4	24-3-2	<u>32-9-4</u>	+ <u>36-8-0</u>
	8-8-14	8-5-6	7-0-14	8-6-2	3-10-12
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.40 BC 0.54	<b>DEFL.</b> in Vert(LL) -0.17 Vert(CT) -0.35	14 >999 360	PLATES         GRIP           MT20         244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.20	10 n/a n/a	Weight: 264 lb FT = 20%
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.14	14 >999 240	

WEBS

TOP CHORD

BOT CHORD

LUMBER-
---------

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

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-

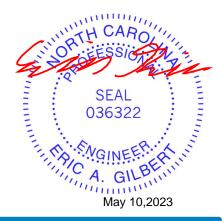
1) Unbalanced roof live loads have been considered for this design.

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
 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, 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.

6) 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.



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

7-10

3-13

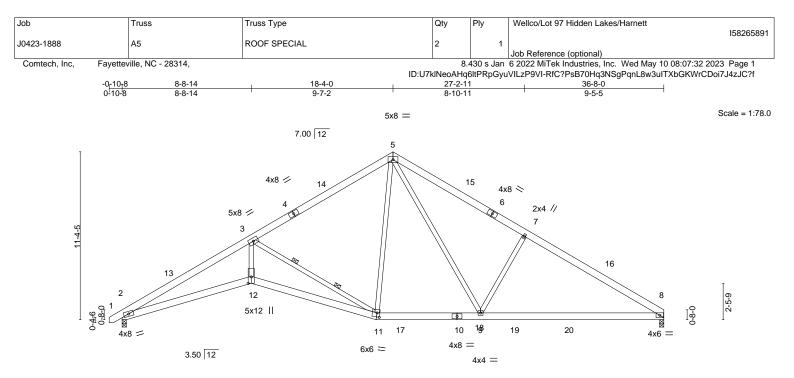
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 8-10.

1 Row at midpt

2 Rows at 1/3 pts





		<u>8-8-14</u> 8-8-14		<u> </u>		24-3-2				36-8-0 12-4-14		
Plate Offse	ets (X,Y)	[11:0-2-4,0-3-4], [12:0-5-3	,0-2-8]									
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.21	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.43	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.24	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matrix	-S	Wind(LL)	0.16	12	>999	240	Weight: 250 lb	FT = 20%

WEBS

TOP CHORD

BOT CHORD

#### LUMBER-

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

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. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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 WFBS

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 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.



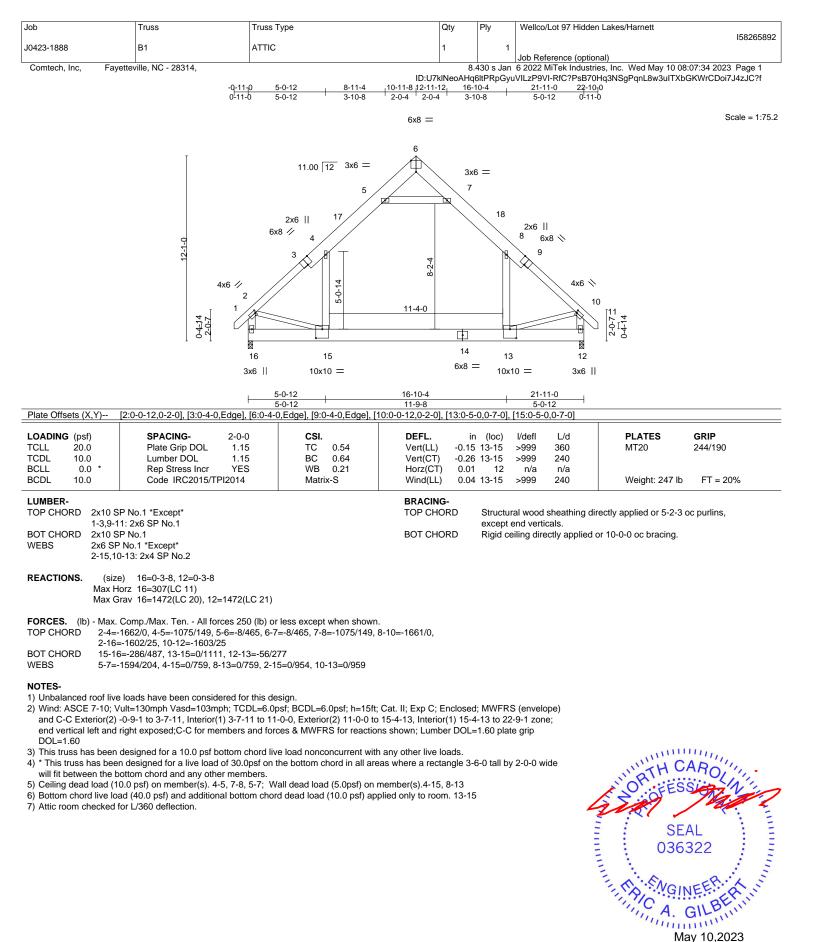
Structural wood sheathing directly applied or 3-3-15 oc purlins.

3-11

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

2 Rows at 1/3 pts

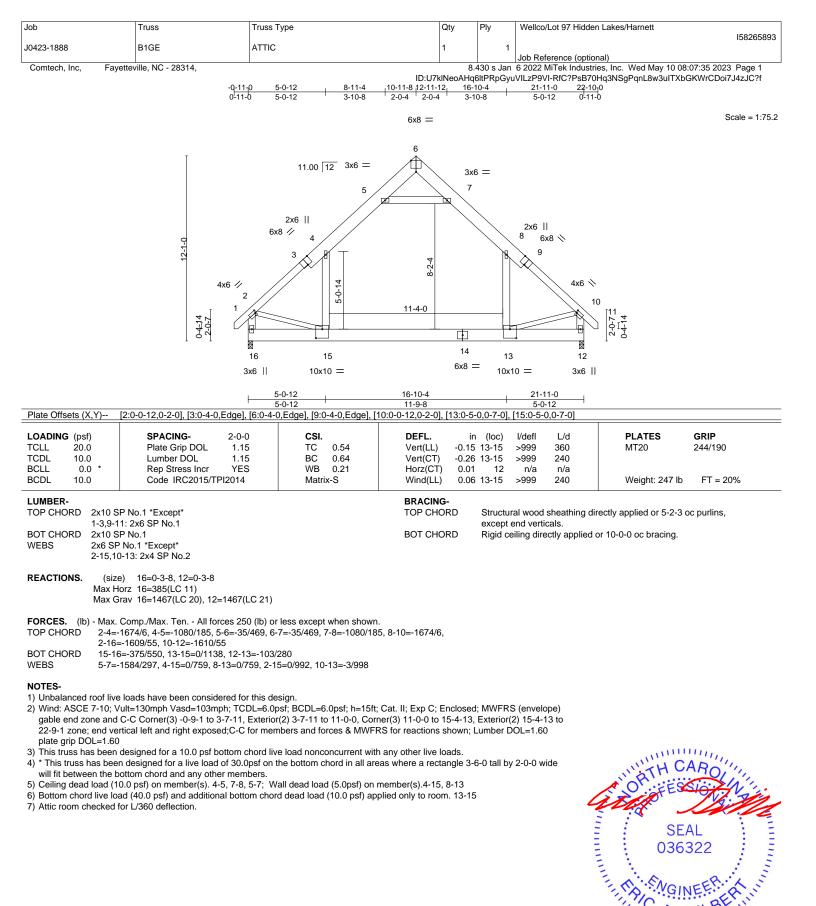




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Edenton, NC 27932

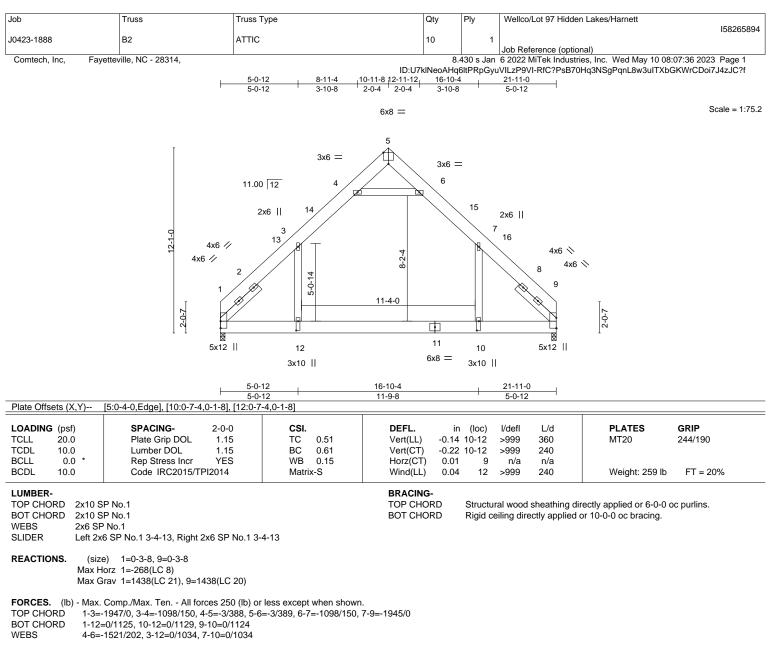






Edenton, NC 27932

May 10,2023



#### 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) 0-0-8 to 4-5-5, Interior(1) 4-5-5 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 21-11-8 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 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.

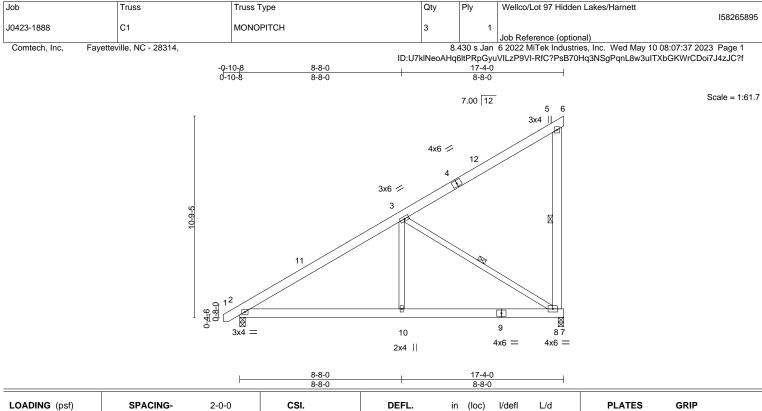
5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-12, 7-10

6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12

7) Attic room checked for L/360 deflection.







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 0.32	Vert(LL) -0.03	2-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.07	2-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	2-10	>999	240	Weight: 134 lb	FT = 20%
		I						
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

WEBS

LUM	ВF	K-	
			-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	5-8: 2x6 SP No.1

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=340(LC 12) Max Uplift 8=-174(LC 12) Max Grav 8=741(LC 19), 2=727(LC 1)

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

- TOP CHORD 2-3=-884/0
- BOT CHORD 2-10=-229/749, 8-10=-229/749

WEBS 3-10=0/397, 3-8=-863/262

#### 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.

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



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

5-8, 3-8

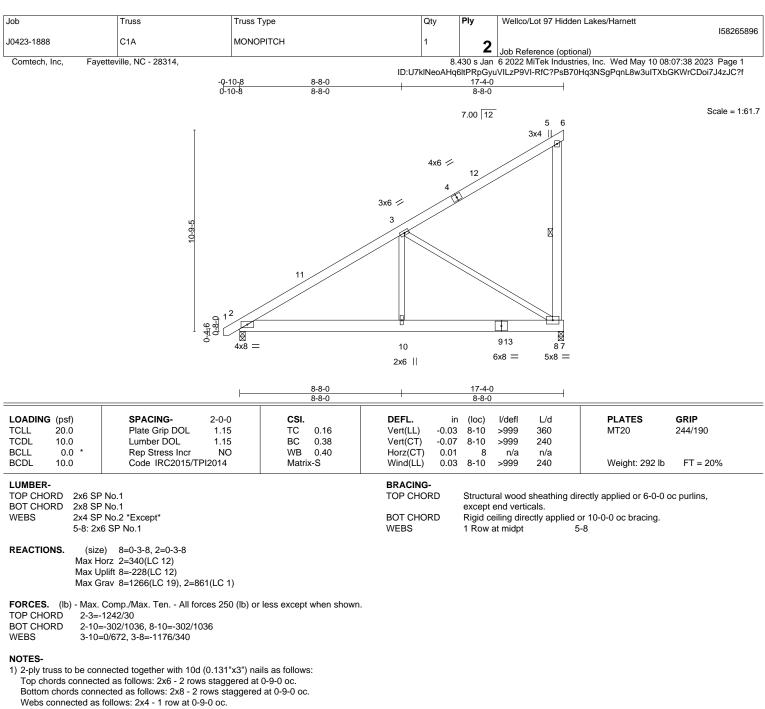
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

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

3) 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

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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=228.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 662 lb down and 165 lb up at 13-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

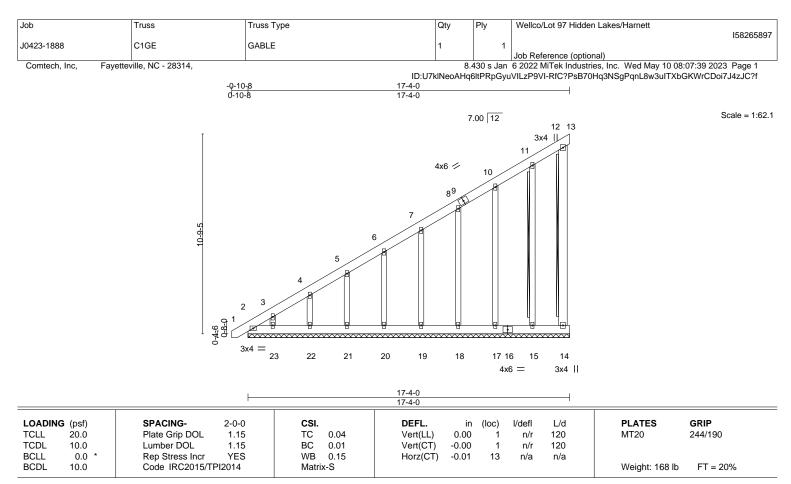
Vert: 1-5=-60, 5-6=-60, 2-7=-20 Concentrated Loads (lb)

Vert: 13=-654(B)



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Edenton, NC 27932



LUMBER-	
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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

WEBS

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

Fasten (2X) T and I braces to narrow edge of web with 10c (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.

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

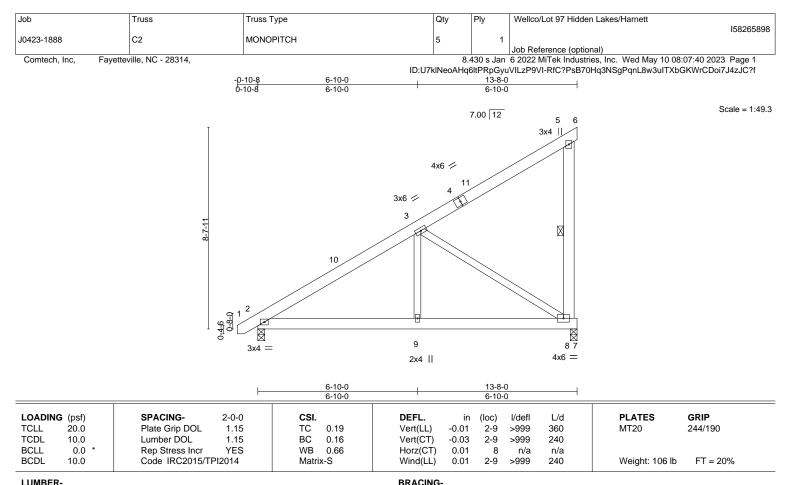
TOP CHORD 2-3=-564/452, 3-4=-482/384, 4-5=-416/331, 5-6=-353/282, 6-7=-290/232

#### 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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.
- 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.







TOP CHORD

BOT CHORD

WEBS

LUMBER	२-
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TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	5-8: 2x6 SP No.1

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

- TOP CHORD 2-3=-679/0
- BOT CHORD 2-9=-196/582, 8-9=-196/582
- WFBS 3-9=0/307, 3-8=-673/225

#### NOTES-

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

\* 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 3) 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.



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

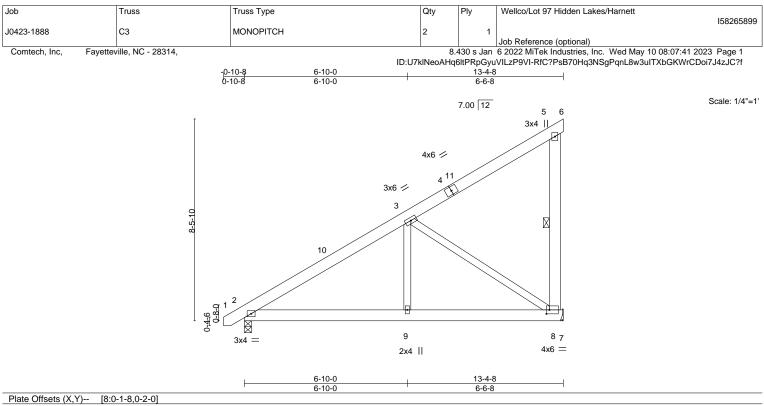
5-8

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

except end verticals.

1 Row at midpt





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL)	-0.01	2-9	>999	360	MT20	244/190
CDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT)	-0.03	2-9	>999	240		
CLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT)	0.01	8	n/a	n/a		
CDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.01	2-9	>999	240	Weight: 103 lb	FT = 20%
IMBER-			BRACING-						
P CHORD 2x6 SF	TOP CHOR	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc pu							
T CHORD 2x6 SF	P No.1				except	end vert	icals.		
EBS 2x4 SF	BOT CHOR	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.							
5-8: 2x6 SP No.1					1 Row at midpt 5-8				

Max Horz 2=265(LC 12) Max Uplift 8=-135(LC 12)

Max Grav 8=573(LC 19), 2=569(LC 1)

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

TOP CHORD 2-3=-655/0

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.

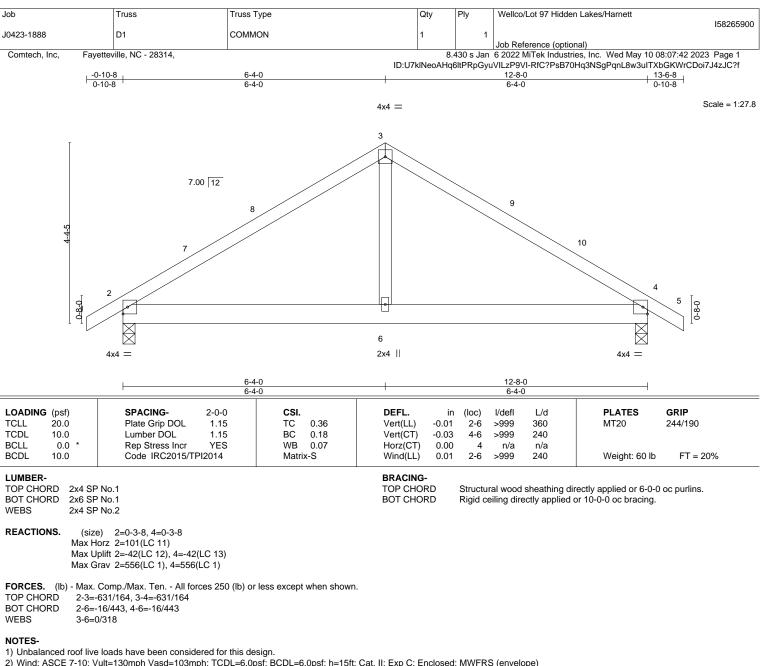
3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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.







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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-4-0, Exterior(2) 6-4-0 to 10-8-13, Interior(1) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

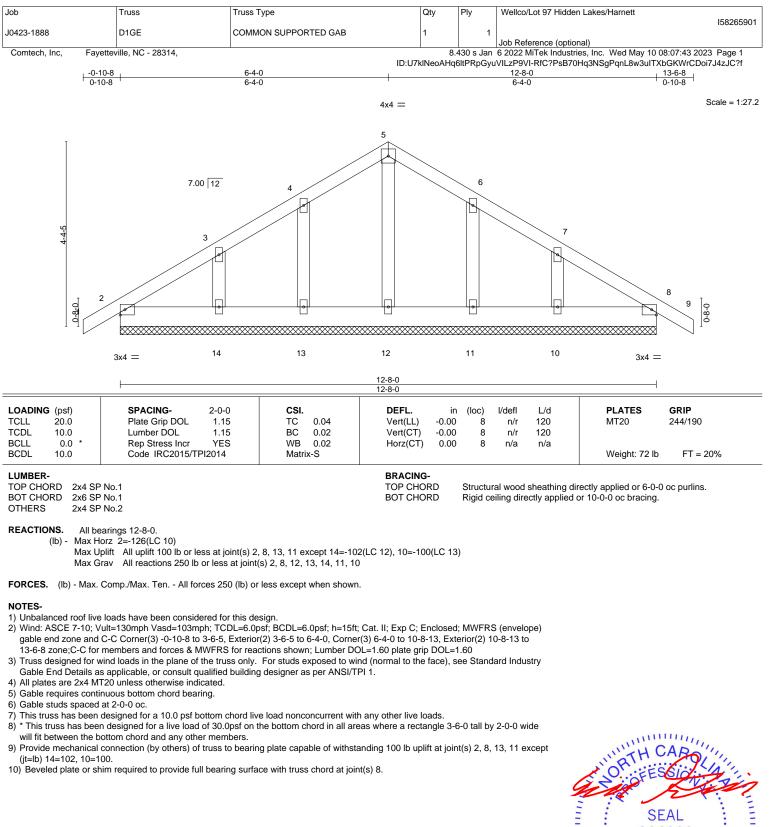
4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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



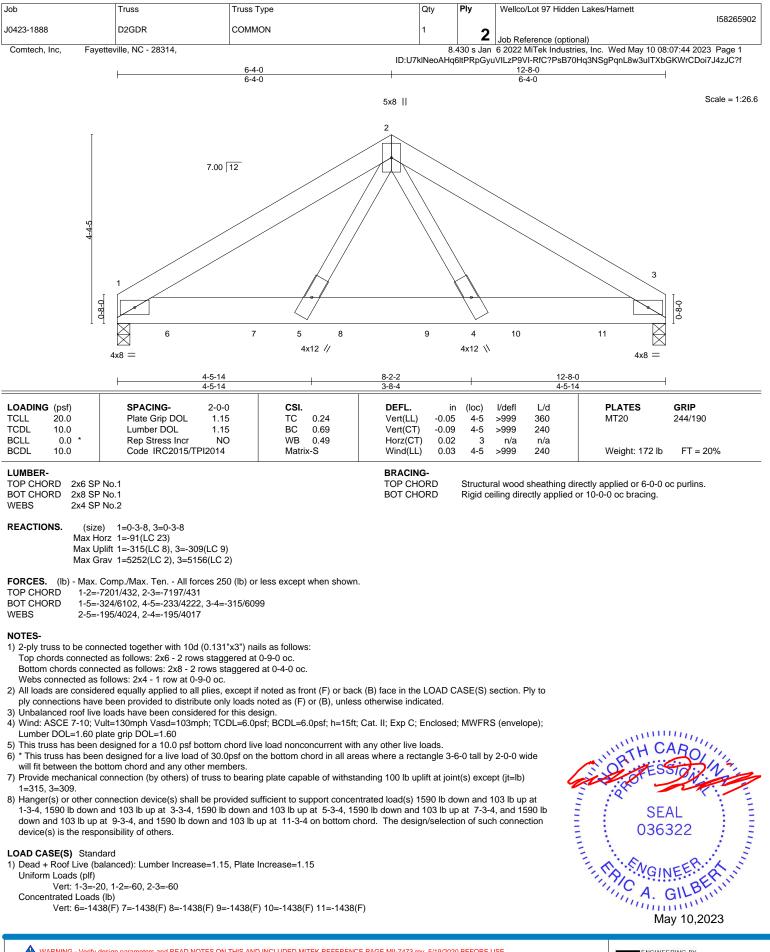
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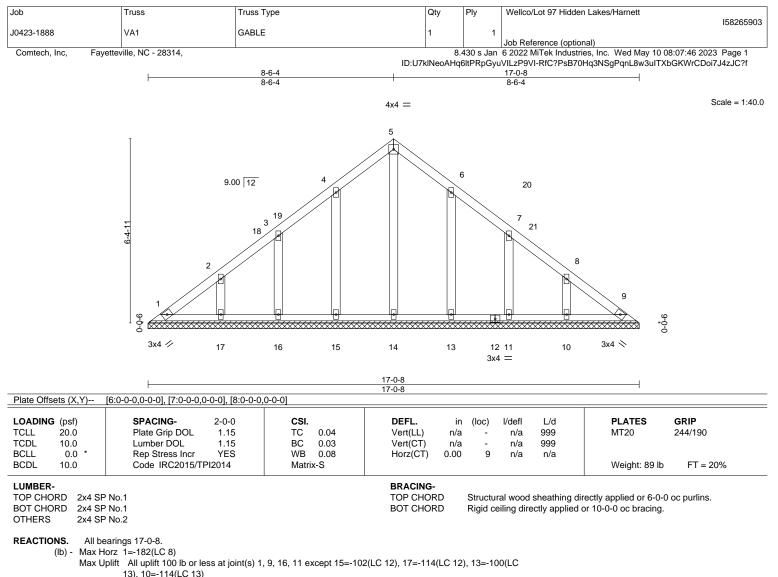






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Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 17, 13, 11, 10

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

#### NOTES-

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

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

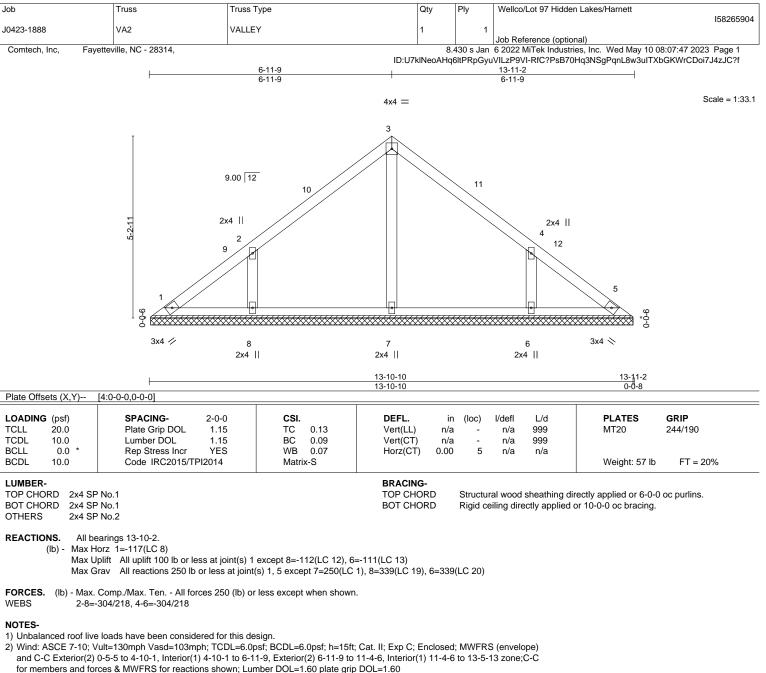
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 (jt=lb) 15=102, 17=114, 13=100, 10=114.







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.

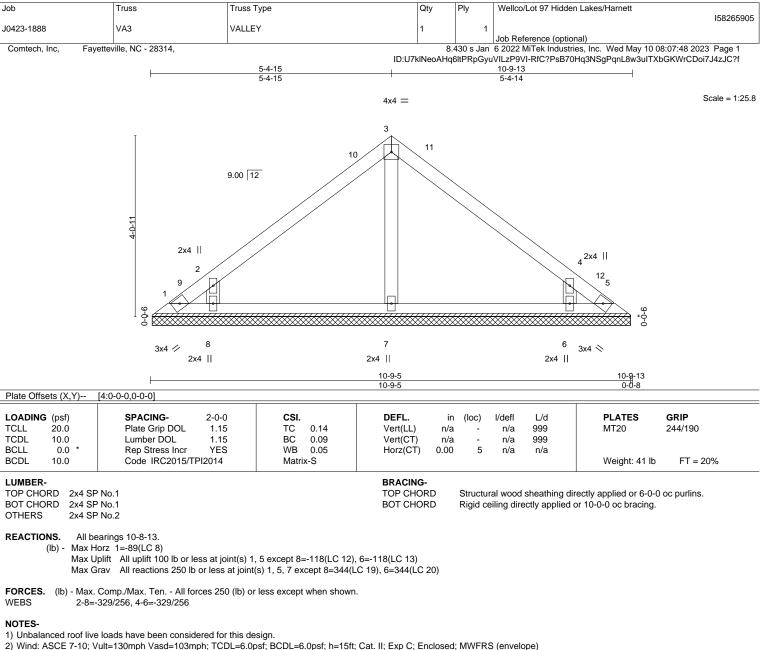
5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

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.







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.

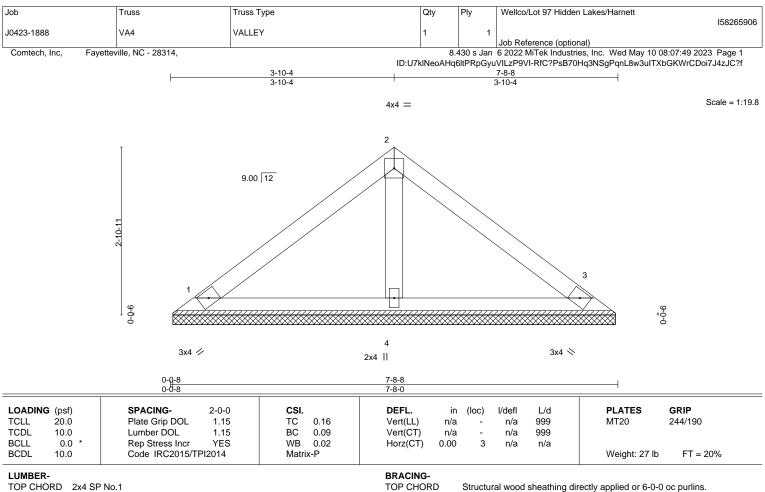
5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

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.







BOT CHORD

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

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

REACTIONS. (size) 1=7-7-8, 3=7-7-8, 4=7-7-8 Max Horz 1=-61(LC 10) Max Ubitt 1= 24(LC 12) 2= 20(LC 11)

Max Tiol2 1=-01(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.

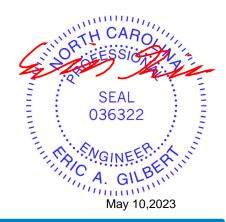
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

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

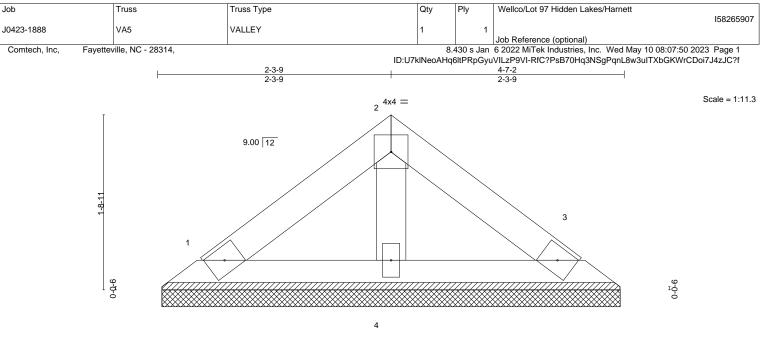
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) N/A







3x4 1/

2x4 ||

3x4 🚿

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

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

	+				<u>4-6-10</u> 4-6-10						<u>4-7</u> -2 0-0-8		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	* Rep Stree	p DOL 1. DOL 1.	15 T 15 B	C C	0.04 0.03 0.01	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCDL 10.0		C2015/TPI201	-	latrix-F		1012(01)	0.00	U	n/a	n/a	Weight: 15 lb	FT = 20%	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

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

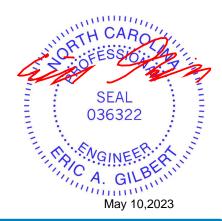
and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

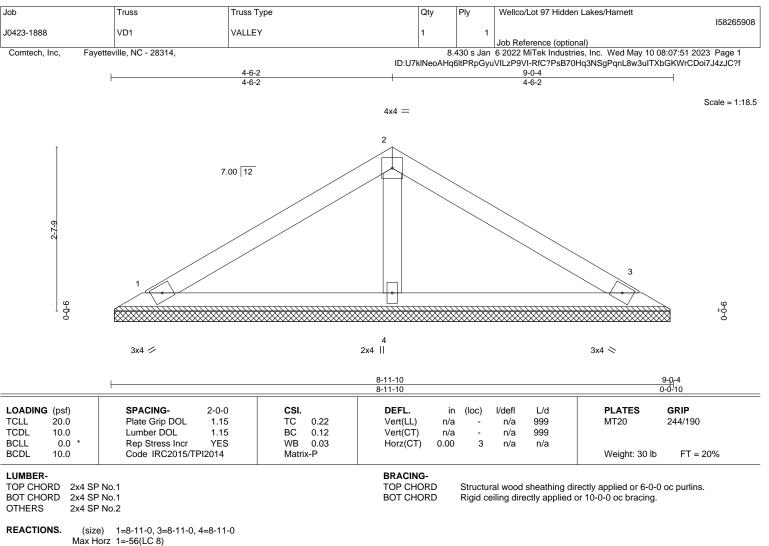
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.







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

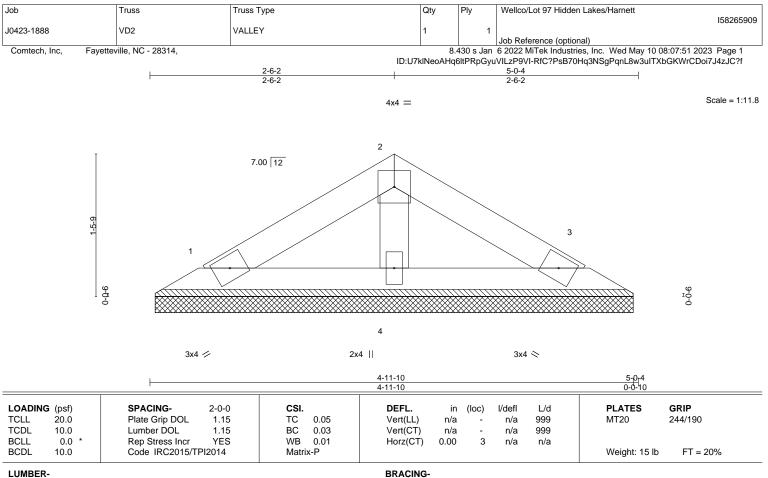
3) Gable requires continuous bottom chord bearing.

- 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.







TOP CHORD

BOT CHORD

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

2x4 SP No.1

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



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

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



LUMBER-

