

RE: J0822-3962 Ben Stout/Lot 9 Liberty Meadows/Harnett

## Site Information:

Customer: Project Name: J0822-3962 Lot/Block: Address: City:

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 8.4 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12	Seal# I50349821 I50349822 I50349823 I50349824 I50349825 I50349826 I50349827 I50349828 I50349829 I50349830 I50349831 I50349832	Truss Name A1 A1GE A2 A2A A3 A3GE B1 B2 B3 C1 C1GE C2GDR	Date 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022
11	150349831	C1GE	2/22/2022
11	150349831	C1GE	2/22/2022
15 16 17 18 19	I50349835 I50349836 I50349837 I50349838 I50349838 I50349839	P1 P1GE VC1 VC2 VC3	2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022 2/22/2022

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: Sevier, Scott

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

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.



818 Soundside Rd Edenton, NC 27932

Trenco

February 22, 2022

Job	Truss	Truss Type	Qty	Ply Be	n Stout/Lot 9 Liberty I	Meadows/Harnett	
J0822-3962	A1	COMMON	2	1			150349821
Comtech, Inc, Fay	 yetteville, NC - 28314, -0 <u>-10-</u> 8 0 <sup>_</sup> 10-8	6-3-2 12-6-0 6-3-2 6-2-14		430 s Aug 16 2 9xzPdQGc5zQ 4	b Reference (optional 2021 MiTek Industries Rh7-NRb94DFbWyCd <u>25-0-0 25-1</u> 6-3-2 0-1	s, Inc. Mon Feb 21 13 qo?UfOdTyGkmtCv8I <u>I0</u> r8	
	2 0 0 0 0 0 0 0 0 1 2 2 3 4	$12.00 \overline{12}$ $4x6 - 14$ $2x4 \sqrt{4}$ $3$ $13$ $13$ $13$ $13$ $13$ $13$ $13$	5 11 20	10 21	16 22 3x4 =	8 0-5-0 0-5-0	
ate Offsets (X,Y) DADING (psf) CLL 20.0	[2:0-2-1,0-1-8], [8:0-2-1,0-1-8] <b>SPACING-</b> 2-0 Plate Grip DOL 1.	5 TC 0.18	16-11-0 8-10-0 <b>DEFL.</b> ir Vert(LL) -0.06	3x4 = + 	99 360	PLATES MT20	<b>GRIP</b> 244/190
CDL 10.0 CLL 0.0 * CDL 10.0	Lumber DOL 1.7 Rep Stress Incr YE Code IRC2015/TPI2014	S WB 0.37	Horz(CT) 0.02	) 10-12 >99 2 8 r 2 2-12 >99	n/a n/a	Weight: 205 lb	FT = 20%
UMBER- OP CHORD 2x6 SI OT CHORD 2x6 SI VEBS 2x4 SI			BRACING- TOP CHORD BOT CHORD WEBS		vood sheathing direc g directly applied or idpt 5-1		oc purlins.
Max H Max L	ze) 2=0-3-8, 8=0-3-8 Horz 2=-318(LC 8) Jplift 2=-67(LC 10), 8=-67(LC 1 Grav 2=1117(LC 17), 8=1117(L						
OP CHORD 2-3= OT CHORD 2-12	. Comp./Max. Ten All forces 2 -1290/305, 3-5=-1227/540, 5-7= 2=-110/999, 10-12=-13/646, 8-10 2=-498/370, 5-10=-290/754, 7-10	=-31/862					
) Wind: ASCE 7-10; ' and C-C Exterior(2) Exterior(2) 21-4-5 to DOL=1.60	) -0-9-2 to 3-7-11, Interior(1) 3-7 o 25-9-2 zone;C-C for members	or this design. DL=6.0psf; BCDL=5.0psf; h=15ft; Ca 11 to 8-1-3, Exterior(2) 8-1-3 to 16-1 and forces & MWFRS for reactions s chord live load nonconcurrent with a	0-13, Interior(1) 16-10 hown; Lumber DOL=	0-13 to 21-4-5	j, <sup>1</sup>		
) * This truss has bee will fit between the	en designed for a live load of 20 bottom chord and any other me	Opsf on the bottom chord in all areas	where a rectangle 3-		0-0 wide		in the second se

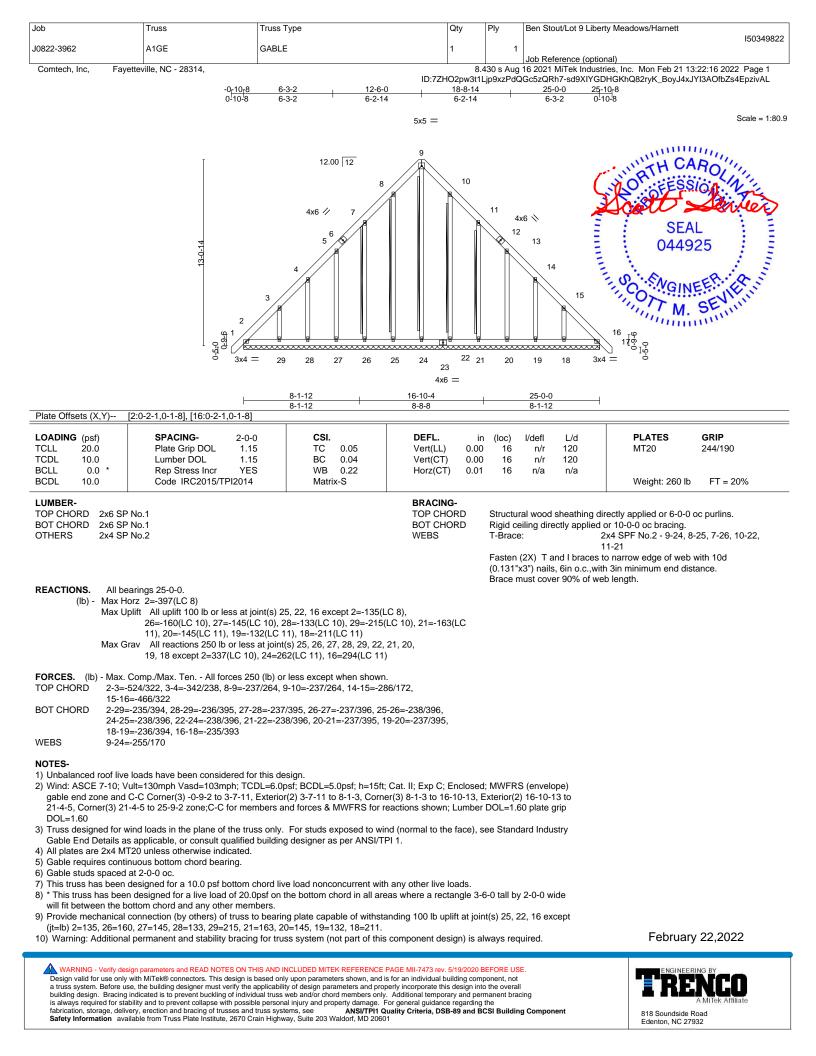
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

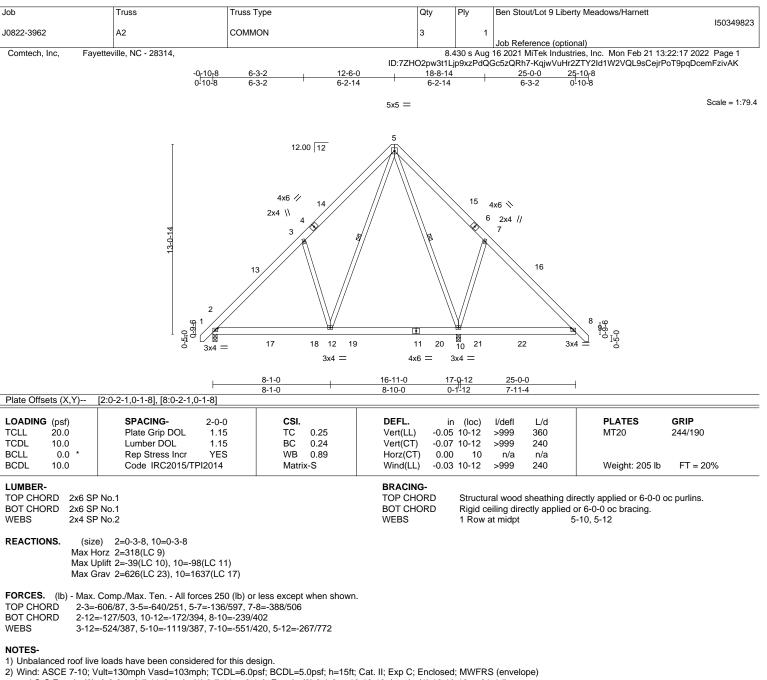


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **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

A MI lek A 818 Soundside Road Edenton, NC 27932

RE





2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0pst; BCDL=5.0pst; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelop and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 8-1-3, Exterior(2) 8-1-3 to 16-10-13, Interior(1) 16-10-13 to 21-4-5, Exterior(2) 21-4-5 to 25-9-2 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

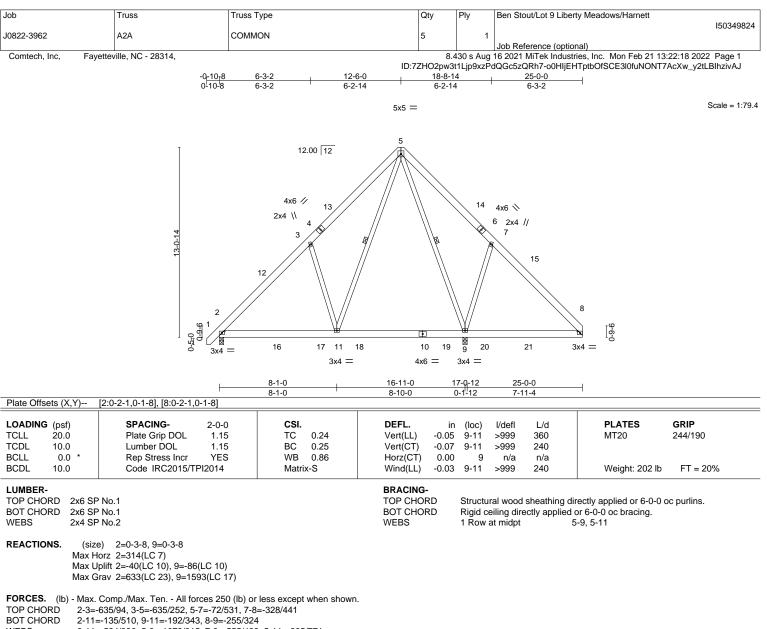
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.







WEBS 3-11=-524/386, 5-9=-1073/315, 7-9=-555/428, 5-11=-265/771

### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 8-1-3, Exterior(2) 8-1-3 to 16-10-13, Interior(1) 16-10-13 to 20-7-3, Exterior(2) 20-7-3 to 25-0-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

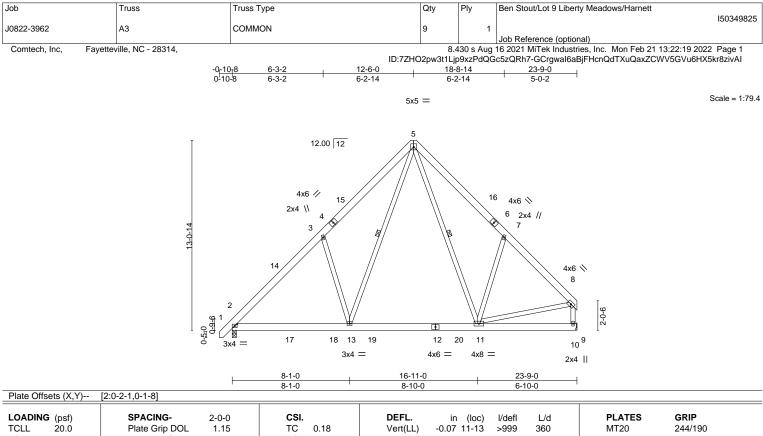
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.







LOADING(psf)TCLL20.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.18 BC 0.29 WB 0.37 Matrix-S	DEFL.         in         (loc)         //defl         L/d         PLATES         GRIP           Vert(LL)         -0.07         11-13         >999         360         MT20         244/190           Vert(CT)         -0.11         11-13         >999         240             Horz(CT)         0.01         10         n/a         n/a             Wind(LL)         0.02         2-13         >999         240         Weight: 207 lb         FT = 20%
LUMBER- TOP CHORD 2x6 SF	P No.1		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

WEBS

except end verticals.

1 Row at midpt

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

5-11, 5-13

LOWIDEN-	
TOP CHORD	2x6 S

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

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

> Max Horz 2=312(LC 7) Max Uplift 2=-63(LC 10), 10=-63(LC 10)

Max Grav 2=1043(LC 17), 10=976(LC 17)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-1192/295, 3-5=-1153/530, 5-7=-1044/510, 7-8=-1019/278, 8-10=-933/259

BOT CHORD 2-13=-132/912, 11-13=-26/553

WEBS 3-13=-498/369, 8-11=-91/688, 5-11=-255/501, 7-11=-469/367, 5-13=-291/772

## 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 8-1-3, Exterior(2) 8-1-3 to 16-10-13, Interior(1) 16-10-13 to 18-9-12, Exterior(2) 18-9-12 to 23-5-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

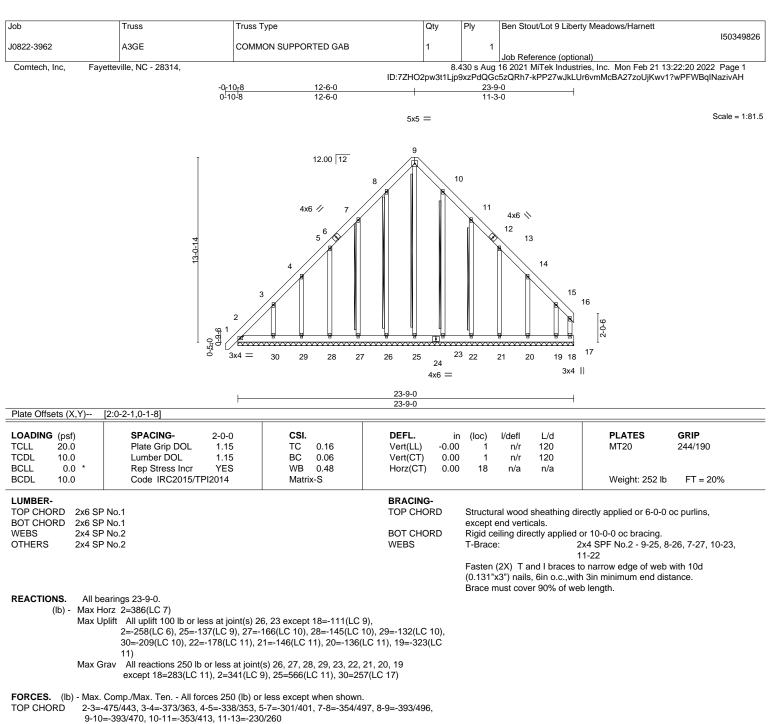
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.







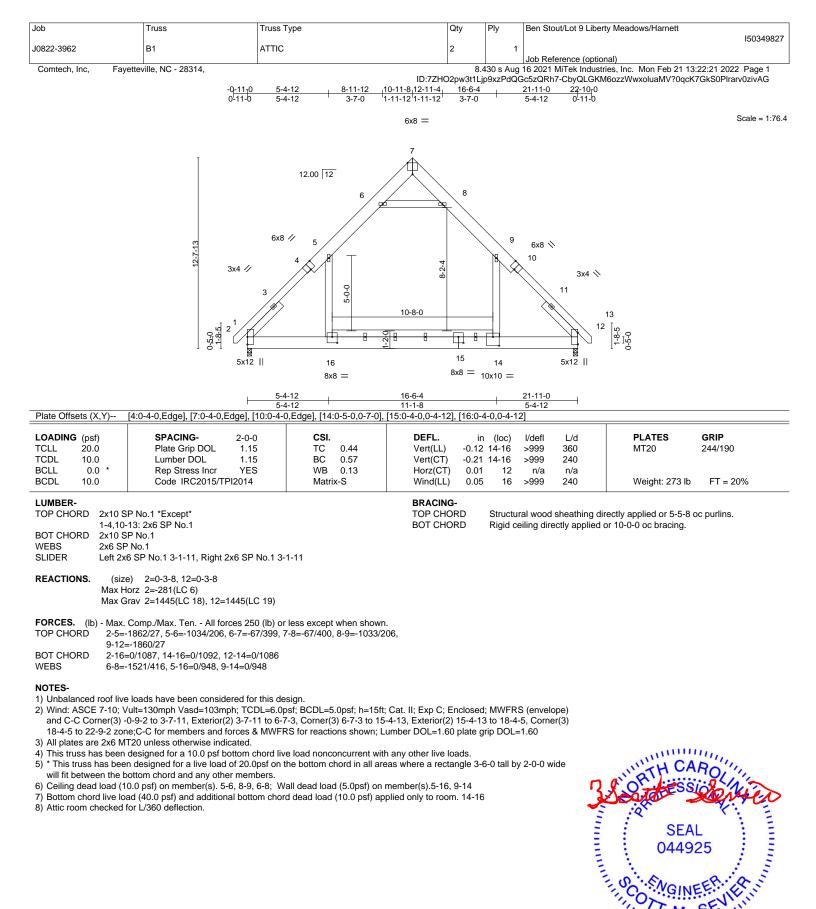
WEBS 9-25=-546/368

## 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 8-1-3, Corner(3) 8-1-3 to 16-10-13, Exterior(2) 16-10-13 to 19-1-2, Corner(3) 19-1-2 to 23-5-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 23 except (jt=lb) 18=111, 2=258, 25=137, 27=166, 28=145, 29=132, 30=209, 22=178, 21=146, 20=136, 19=323.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.





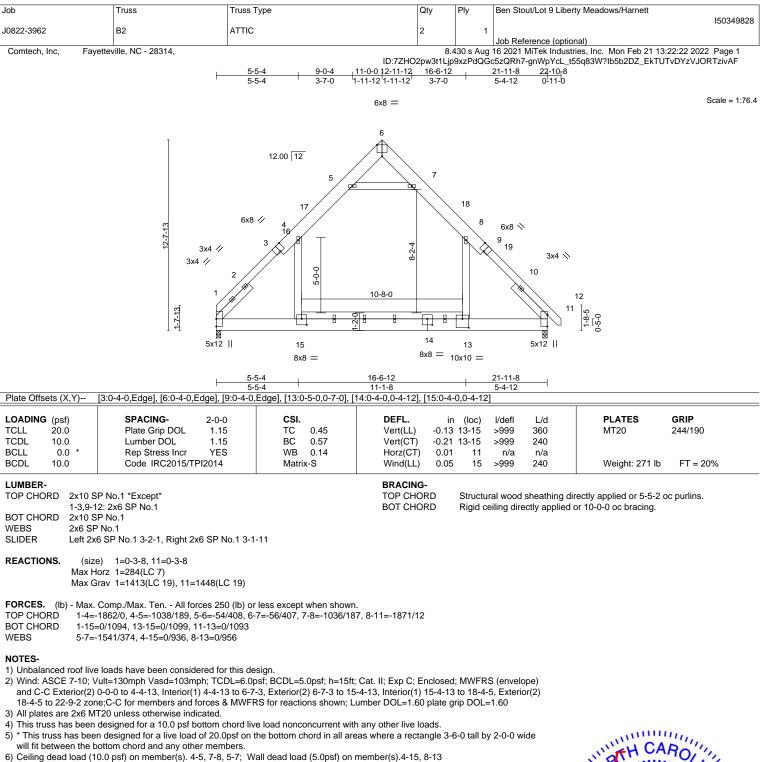


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Edenton, NC 27932

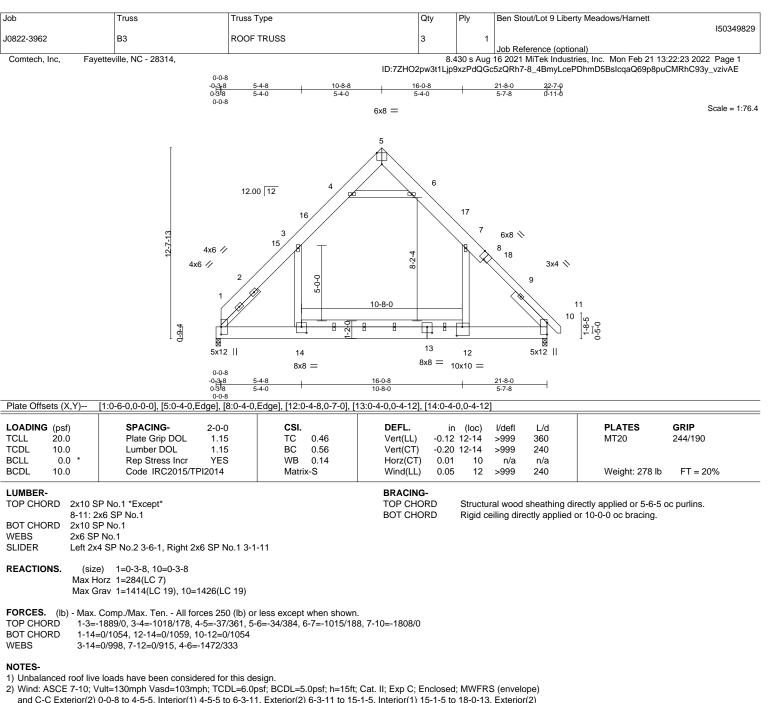
February 22,2022



- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 8) Attic room checked for L/360 deflection.







27 White ASCE 7-10, Voltersoniph Vasue roshiph, FCDLeo.0psi, BCDLeo.0psi, Teristi, Cat. II, Exp C, Enclosed, WWFRS (envelope, and C-C Exterior(2) 0-0-8 to 4-5-5, Interior(1) 4-5-5 to 6-3-11, Exterior(2) 6-3-11 to 15-1-5, Interior(1) 15-1-5 to 18-0-13, Exterior(2) 18-0-13 to 22-5-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x6 MT20 unless otherwise indicated.

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

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

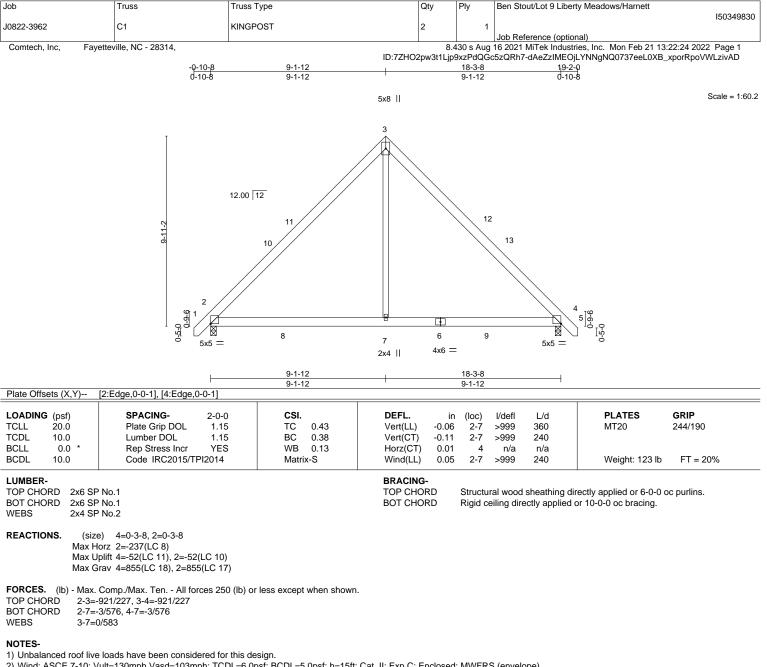
6) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12

7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14

8) Attic room checked for L/360 deflection.







2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 4-8-15, Exterior(2) 4-8-15 to 13-6-9, Interior(1) 13-6-9 to 14-7-13, Exterior(2) 14-7-13 to 19-0-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

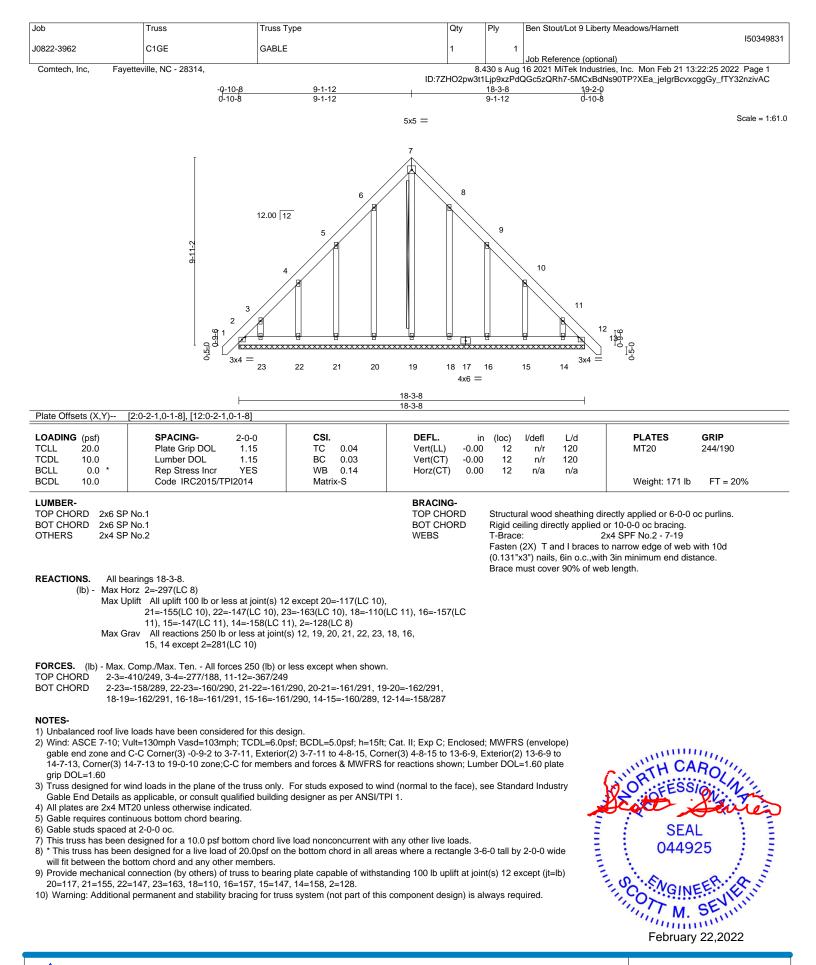
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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



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

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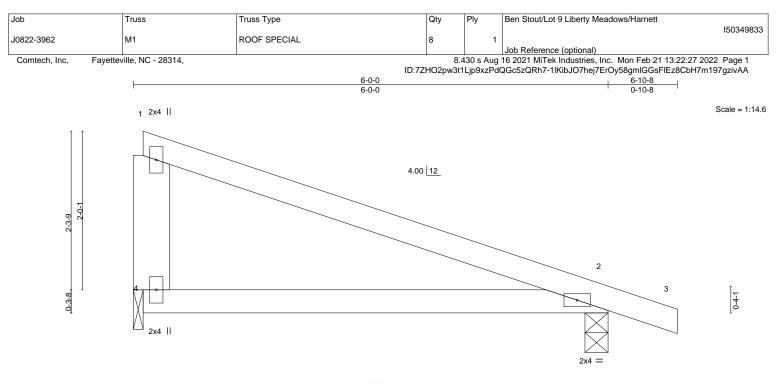


Job	)	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 9 Liberty Meadows/Harnett		
						150349832		
J08	322-3962	C2GDR	COMMON	1	2			
					<b>_</b>	Job Reference (optional)		
C	omtech, Inc, Fayettev	ille, NC - 28314,		8.4	430 s Aug	16 2021 MiTek Industries, Inc. Mon Feb 21 13:22:26 2022 Page 2		
			ID:7ZHO2pw3t1Ljp9xzPdQGc5zQRh7-ZZmJOzOVwKbGdhpmXR9XC3kglLpwPfz8u7HcaEzivAB					

## LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 3=-927(F) 5=-919(F) 4=-919(F) 6=-919(F) 7=-919(F) 9=-919(F) 10=-919(F) 12=-919(F) 14=-919(F)





6-0-0 6-0-0												
LOADING (	psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.11	2-4	>642	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 1	0.0	Code IRC2015/TI	PI2014	Matri	к-Р	Wind(LL)	0.00	4	****	240	Weight: 23 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

## LUMBER-

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

2x6 SP No.1 WEBS

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 4=-76(LC 7) Max Uplift 2=-59(LC 7), 4=-40(LC 11) Max Grav 2=292(LC 1), 4=219(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit 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 100 lb uplift at joint(s) 2, 4.

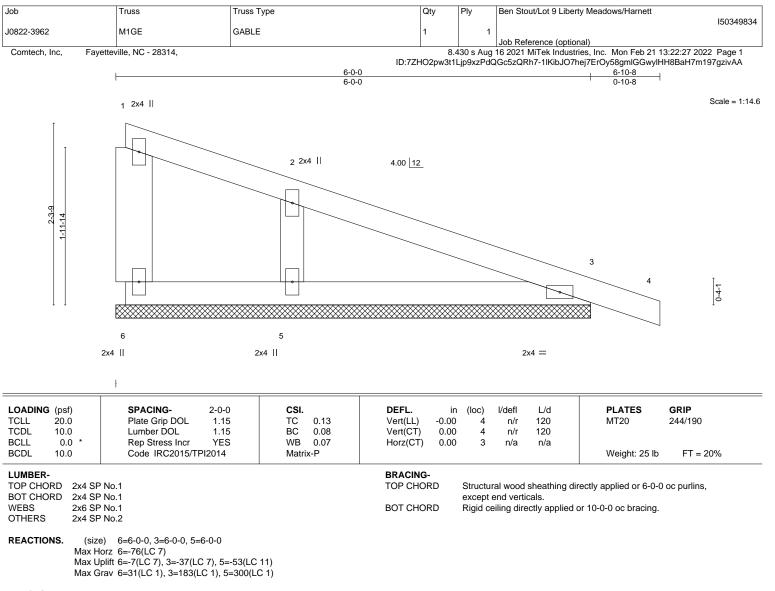


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-222/373

#### NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

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) 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) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

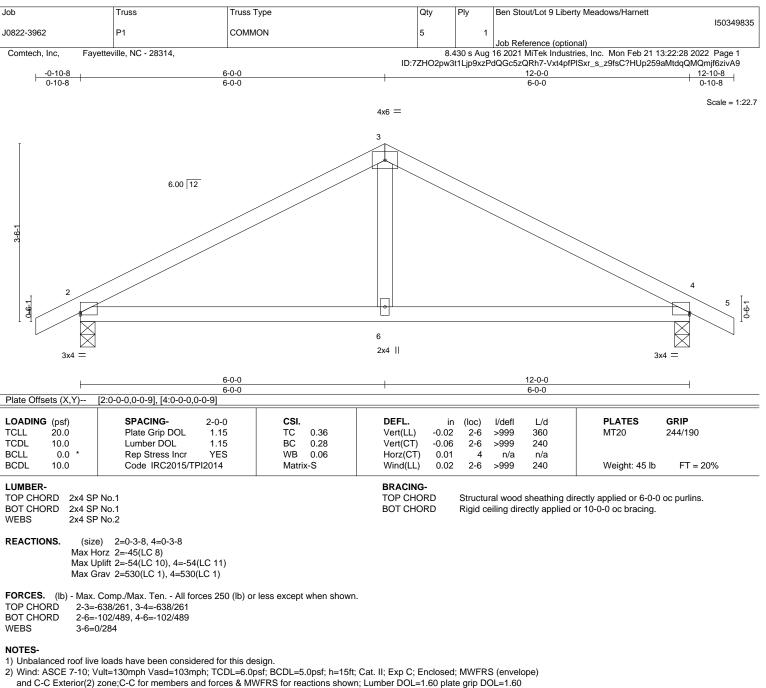
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3, 5.







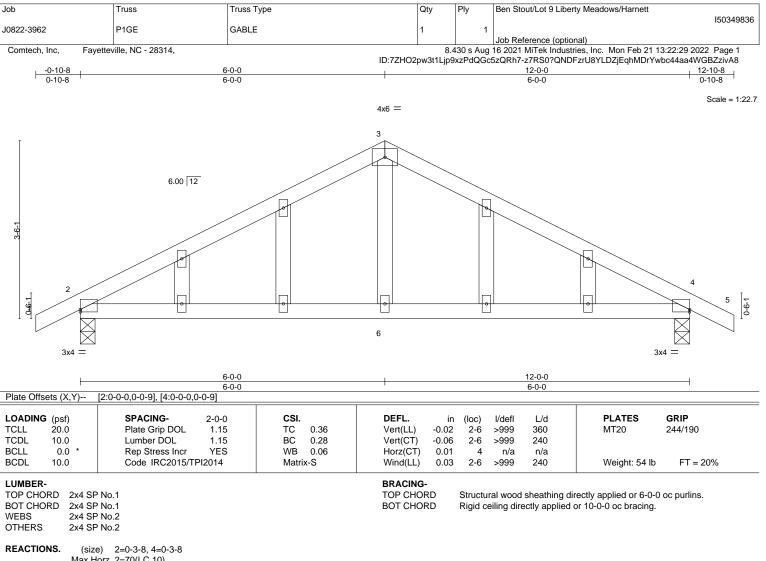
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a true batton of 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.







Max Horz 2=70(LC 10) Max Uplift 2=137(LC 10), 4=-137(LC 11) Max Grav 2=530(LC 1), 4=530(LC 1)

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

- TOP CHORD 2-3=-638/261, 3-4=-638/261
- BOT CHORD 2-6=-102/489, 4-6=-102/489 WEBS 3-6=0/284

#### 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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

5) Gable studs spaced at 2-0-0 oc.

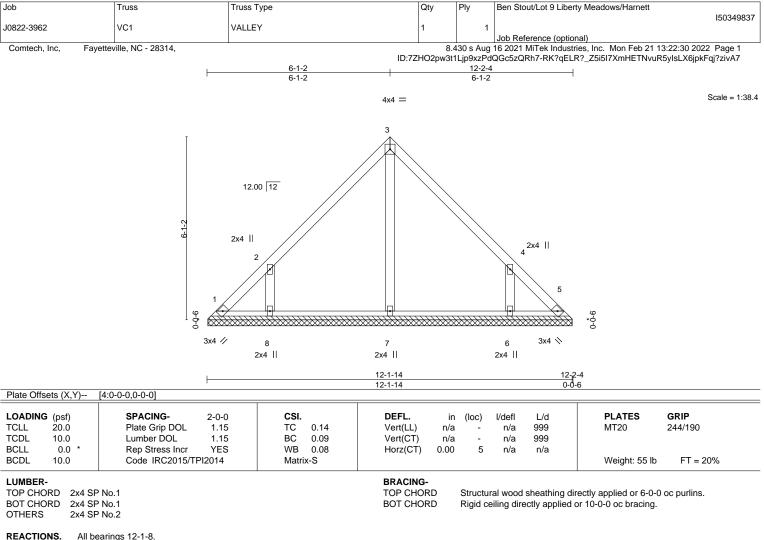
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=137, 4=137.







(lb) - Max Horz 1=-138(LC 6)

(Ib) - Max Horz 1=-138(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-167(LC 10), 6=-167(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=338(LC 17), 6=338(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-355/300, 4-6=-355/300

#### 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=5.0psf; 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.

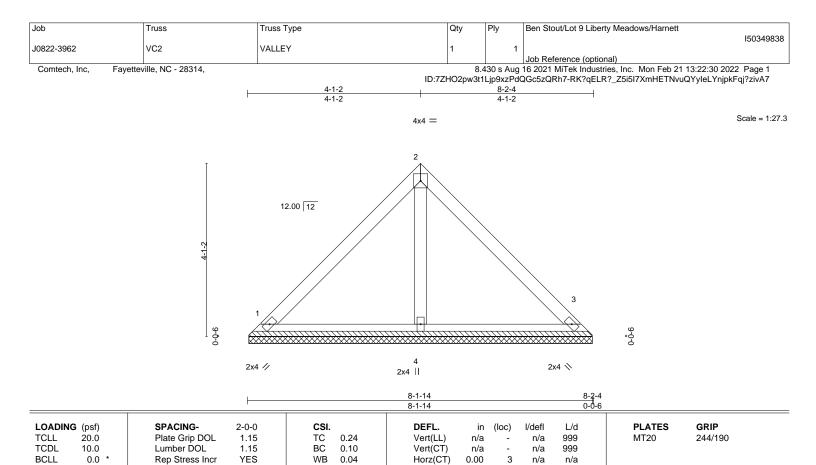
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=167, 6=167.







LUM	BER-
TOP	СНО

BCDL

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

10.0

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.

Weight: 33 lb

FT = 20%

UTHERS 2X4 SI

REACTIONS. (size) 1=8-1-8, 3=8-1-8, 4=8-1-8 Max Horz 1=-90(LC 6) Max Uplift 1=-35(LC 11), 3=-35(LC 11) Max Grav 1=182(LC 1), 3=182(LC 1), 4=234(LC 1)

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

Code IRC2015/TPI2014

## 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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

Matrix-P

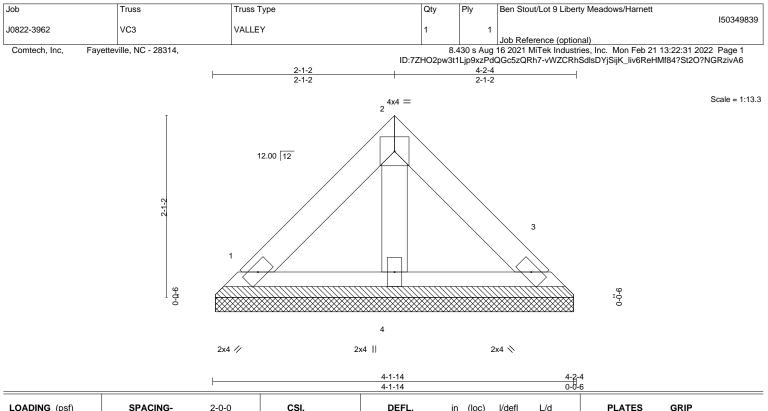
and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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







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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-P						Weight: 16 lb	FT = 20%

## LUMBER-

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

2x4 SP No.2 OTHERS

REACTIONS. (size) 1=4-1-8, 3=4-1-8, 4=4-1-8 Max Horz 1=42(LC 9) Max Uplift 1=-16(LC 11), 3=-16(LC 11) Max Grav 1=85(LC 1), 3=85(LC 1), 4=109(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=5.0psf; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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



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

BRACING-TOP CHORD

BOT CHORD

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

