

RE: J0421-2520 Lot 3 Atkins Farm Estate Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0421-2520 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 8.3 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 31 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E14466335	A1	4/21/2021	21	E14466355	P1	4/21/2021
2	E14466336	A2	4/21/2021	22	E14466356	P2	4/21/2021
							4/21/2021
3	E14466337	A3	4/21/2021	23	E14466357	P3	
4	E14466338	A4	4/21/2021	24	E14466358	VB-1	4/21/2021
5	E14466339	A5	4/21/2021	25	E14466359	VB-2	4/21/2021
6	E14466340	B1	4/21/2021	26	E14466360	VB-3	4/21/2021
7	E14466341	B2	4/21/2021	27	E14466361	VB-4	4/21/2021
8	E14466342	C1	4/21/2021	28	E14466362	VB-5	4/21/2021
9	E14466343	C2	4/21/2021	29	E14466363	VC-1	4/21/2021
10	E14466344	C3	4/21/2021	30	E14466364	VC-2	4/21/2021
11	E14466345	D1	4/21/2021	31	E14466365	VC-3	4/21/2021
12	E14466346	D2	4/21/2021				
13	E14466347	G1	4/21/2021				
14	E14466348	G2	4/21/2021				
15	E14466349	M1	4/21/2021				
16	E14466350	M2	4/21/2021				
17	E14466351	M3	4/21/2021				
18	E14466352	M4	4/21/2021				
19	E14466353	M5	4/21/2021				

4/21/2021

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

M6

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

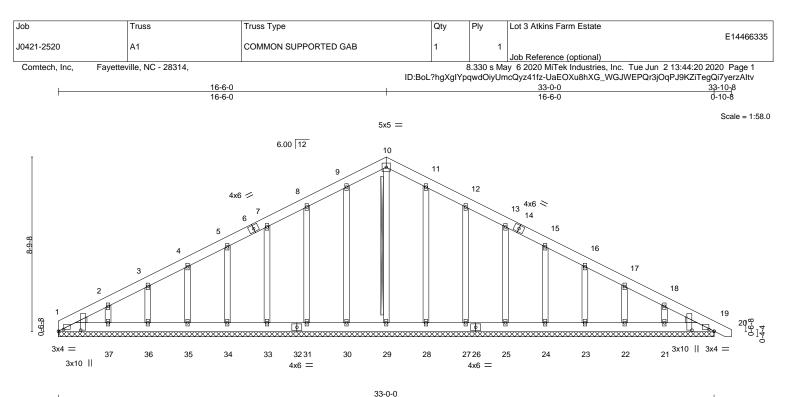
E14466354

20

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



Gilbert, Eric



33-0-0
33-0-0

OADING (psf)	SPACING- 2	2-0-0 CSI.	DEFL.	in (lo	c) l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15 TC 0	0.04 Vert(LL)	0.00	19 n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC 0	0.02 Vert(CT)	0.00	19 n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES WB C	0.11 Horz(CT)	0.01	19 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2	014 Matrix-S	«-S				Weight: 261 lb	FT = 20%
LUMBER-		•	BRACING-				·	
TOP CHORD 2x6 S	P No.1		TOP CHORD) Stru	uctural wood	sheathing dir	rectly applied or 6-0-0 c	oc purlins.
BOT CHORD 2x6 S	P No.1		BOT CHORD) Rig	id ceiling dir	ectly applied of	or 10-0-0 oc bracing.	
			WEDO	то				

TOP CHORD2x6 SP No.1TOP CHORDStructural wood sheathing directly applied or 6-0-0 oc purlins.BOT CHORD2x6 SP No.1BOT CHORDBOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.OTHERS2x4 SP No.2WEBST-Brace:2x4 SP F No.2 - 10-29WEDGEFasten (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.Brace must cover 90% of web length.

REACTIONS. All bearings 33-0-0.

 (Ib) - Max Horz 1=-180(LC 17) Max Uplift All uplift 100 lb or less at joint(s) 1, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21 Max Grav All reactions 250 lb or less at joint(s) 1, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21, 19

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

TOP CHORD

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

9-10=-114/289, 10-11=-114/289

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Gable requires continuous bottom chord bearing.

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

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

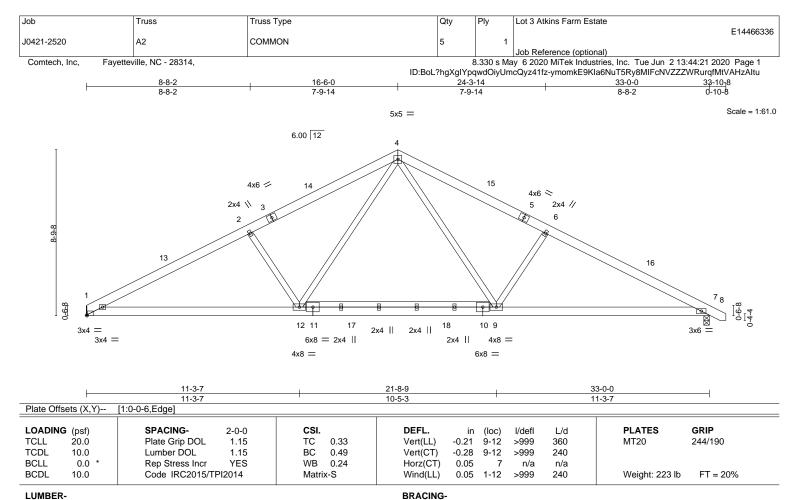
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=Mechanical, 7=0-3-8 Max Horz 1=-113(LC 8)

> Max Uplift 1=-79(LC 12), 7=-91(LC 13) Max Grav 1=1311(LC 1), 7=1364(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-2=-2297/531, 2-4=-2064/545, 4-6=-2055/529, 6-7=-2283/512

BOT CHORD 1-12=-347/2015, 9-12=-110/1324, 7-9=-344/1965

WEBS 4-9=-142/850, 6-9=-495/297, 4-12=-145/865, 2-12=-509/305

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 33-8-10 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 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 100 lb uplift at joint(s) 1, 7.

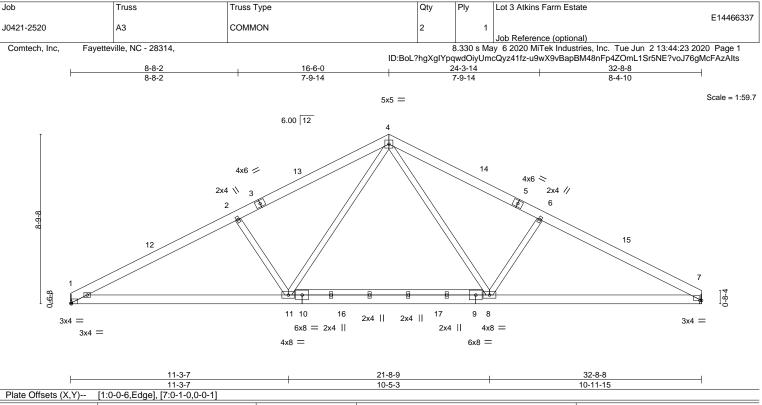


Structural wood sheathing directly applied or 4-8-4 oc purlins.

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

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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.2) <u>8</u> -11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.2	3 8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.0	57	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.0	5 1-11	>999	240	Weight: 220 lb	FT = 20%

BOT CHORD

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

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

REACTIONS. (size) 1=Mechanical, 7=Mechanical

Max Horz 1=-108(LC 8) Max Uplift 1=-79(LC 12), 7=-78(LC 13)

Max Grav 1=1303(LC 1), 7=1303(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 1-2=-2280/528, 2-4=-2048/543, 4-6=-2021/538, 6-7=-2242/521

BOT CHORD 1-11=-354/1997, 8-11=-116/1306, 7-8=-347/1920

WEBS 4-8=-139/822, 6-8=-473/295, 4-11=-145/866, 2-11=-509/305

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 32-7-12 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.

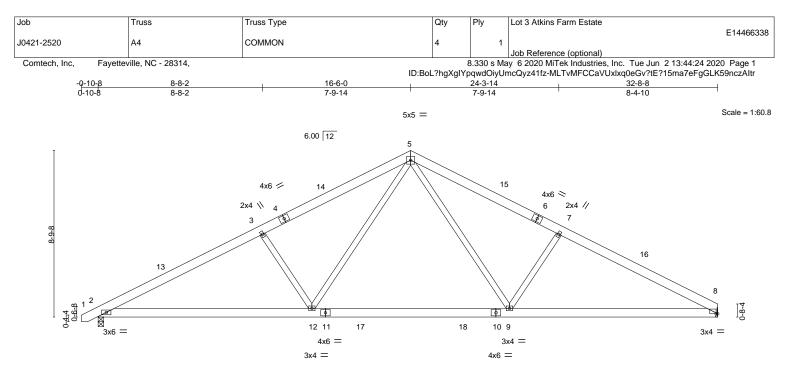
5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



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L	11-3-7		21-8-9	32-8-8	
I	11-3-7	I	10-5-3	10-11-15	I
Plate Offsets (X,Y)	[8:0-1-0,0-0-1]				
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.31 BC 0.49		l/defl L/d PLATES >999 360 MT20 >999 240	GRIP 244/190

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

0.05

0.05 2-12

8

n/a

>999

n/a

240

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

Structural wood sheathing directly applied or 4-9-10 oc purlins.

Weight: 207 lb

FT = 20%

ı.	IMDED	

BCLL

BCDL

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

0.0

10.0

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

Max Horz 2=113(LC 9) Max Uplift 2=-91(LC 12), 8=-78(LC 13)

Max Grav 2=1352(LC 1), 8=1299(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

YES

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

TOP CHORD 2-3=-2261/507, 3-5=-2051/524, 5-7=-2034/536, 7-8=-2238/519

BOT CHORD 2-12=-347/1992, 9-12=-113/1312, 8-9=-341/1925

WEBS 5-9=-137/833, 7-9=-473/294, 5-12=-141/861, 3-12=-495/297

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 32-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

0.23

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.

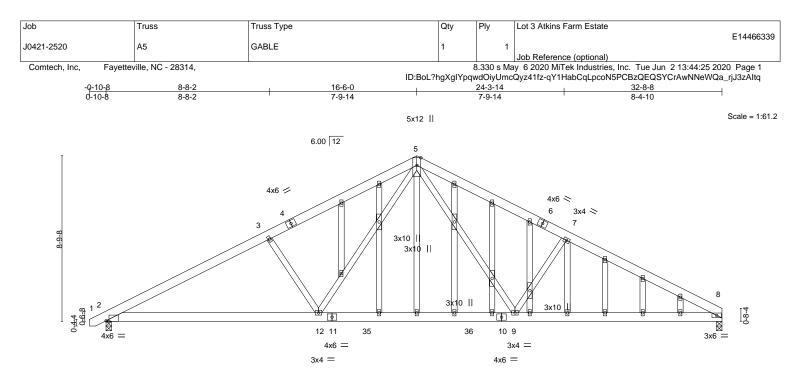
5) Refer to girder(s) for truss to truss connections.

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



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\vdash	<u> </u>		<u>21-8-9</u> 10-5-3		<u>32-8-8</u> 10-11-15
Plate Offsets (X,Y)	[2:0-1-14,Edge]	1			-
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 0.31	Vert(LL) -0.22 9-12	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.29 9-12	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05 8	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 2-12	>999 240	Weight: 274 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=180(LC 16) Max Uplift 2=-293(LC 12), 8=-265(LC 13) Max Grav 2=1349(LC 1), 8=1296(LC 1)

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

- TOP CHORD 2-3=-2254/830, 3-5=-2044/833, 5-7=-2019/825, 7-8=-2221/818
- BOT CHORD 2-12=-615/1947, 9-12=-244/1297, 8-9=-602/1906
- WEBS 5-9=-259/807, 7-9=-463/412, 5-12=-272/845, 3-12=-495/423

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=293, 8=265.

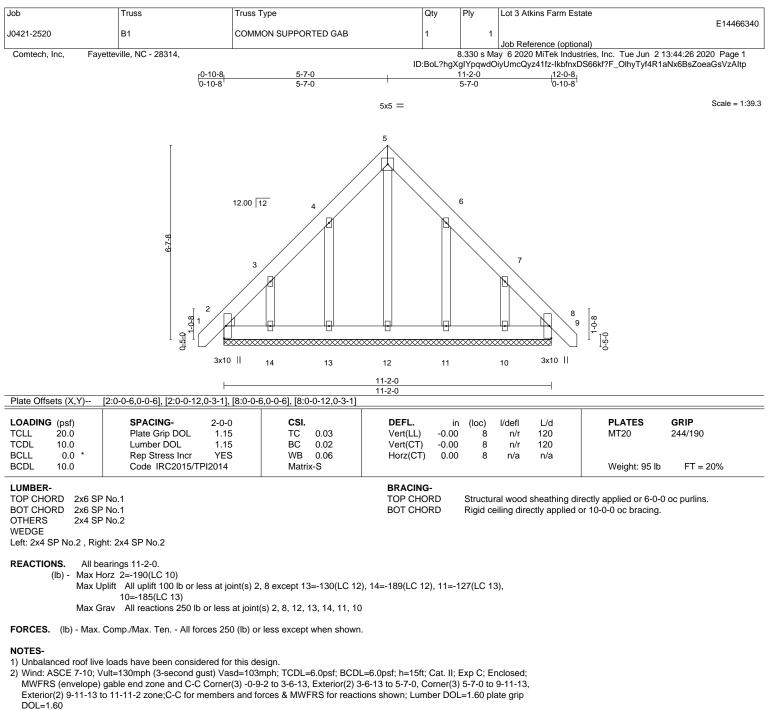


818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied or 4-9-13 oc purlins.

Rigid ceiling directly applied or 9-11-5 oc bracing.

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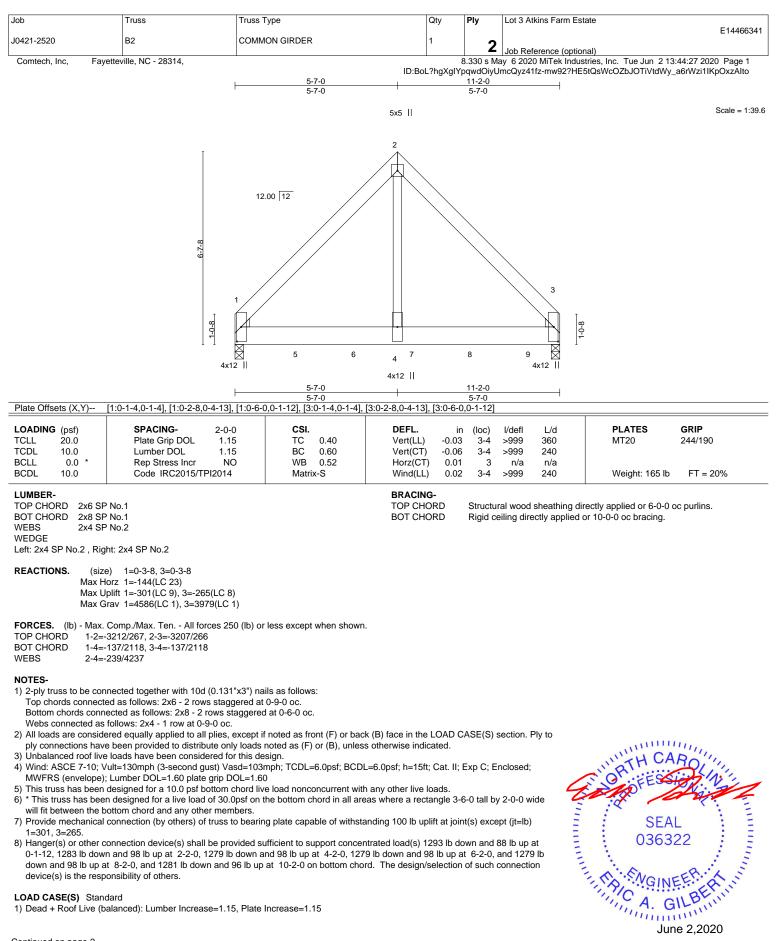
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 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 except (jt=lb) 13=130, 14=189, 11=127, 10=185.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Atkins Farm Estate				
					E14466341				
J0421-2520	B2	COMMON GIRDER	1	2					
				_	Job Reference (optional)				
Comtech, Inc,	Fayetteville, NC - 28314,			8.330 s Ma	y 6 2020 MiTek Industries, Inc. Tue Jun 2 13:44:27 2020 Page 2				
		ID:BoL?hgXgIYpqwdOiyUmcQyz41fz-mw92?HE5tQsWcOZbJOTiVtdWy_a6rWzi1IKpOxzAlto							

LOAD CASE(S) Standard

Uniform Loads (plf)

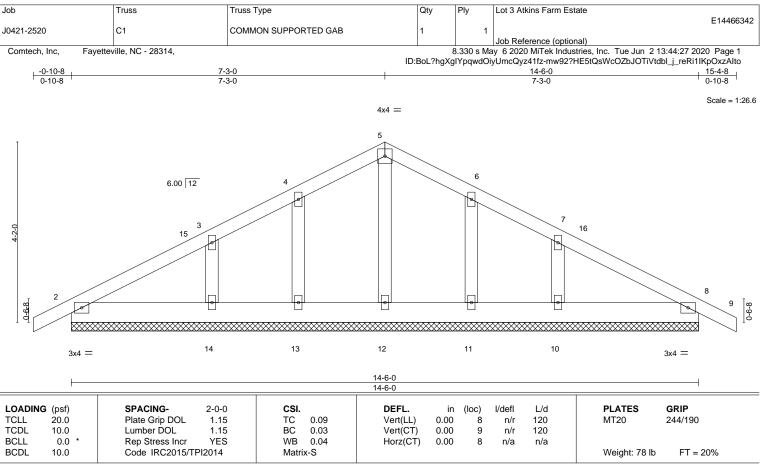
Vert: 1-2=-60, 2-3=-60, 1-3=-20

Concentrated Loads (lb)

Vert: 1=-1293(F) 5=-1283(F) 6=-1279(F) 7=-1279(F) 8=-1279(F) 9=-1281(F)

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LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 14-6-0.

(lb) - Max Horz 2=-82(LC 13)

 Max Uplift
 All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-112(LC 12), 10=-112(LC 13)

 Max Grav
 All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11 except 14=250(LC 1), 10=250(LC 1)

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

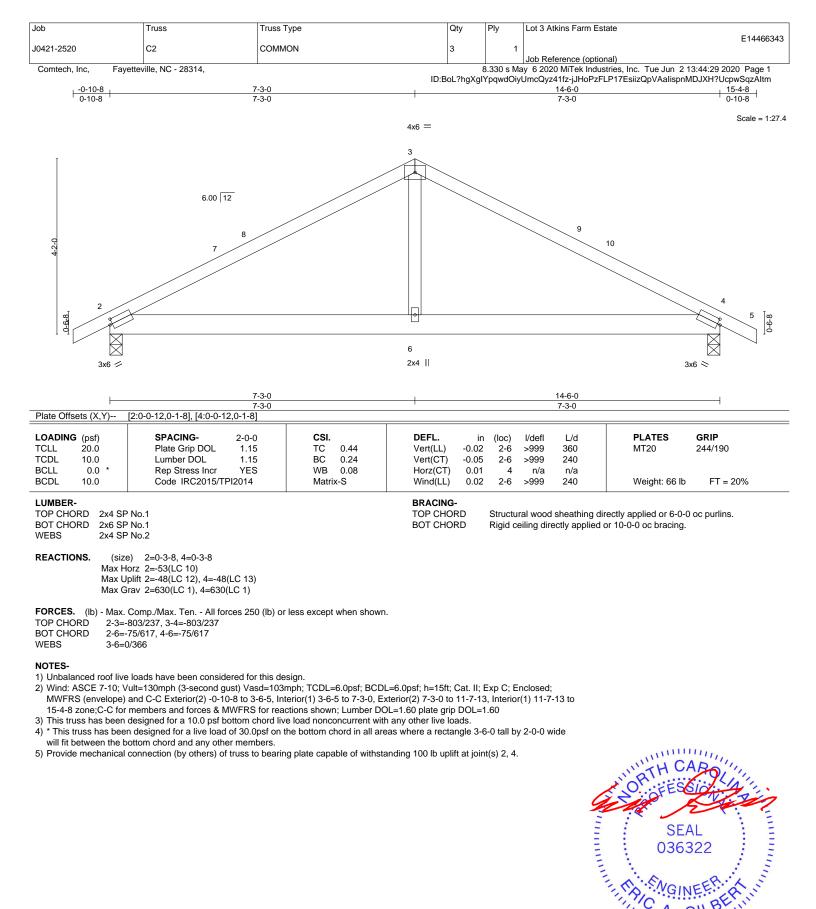
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-3-0, Exterior(2) 3-3-0 to 7-3-0, Corner(3) 7-3-0 to 11-7-13, Exterior(2) 11-7-13 to 15-4-8 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=112, 10=112.



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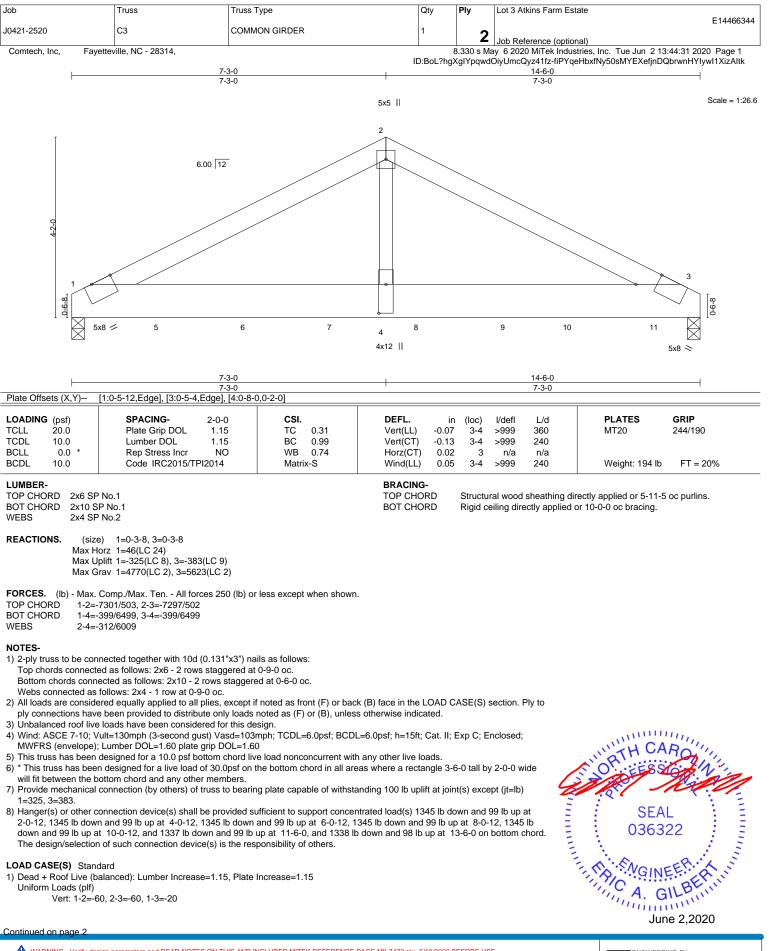




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June 2,2020



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818 Soundside Road Edenton, NC 27932

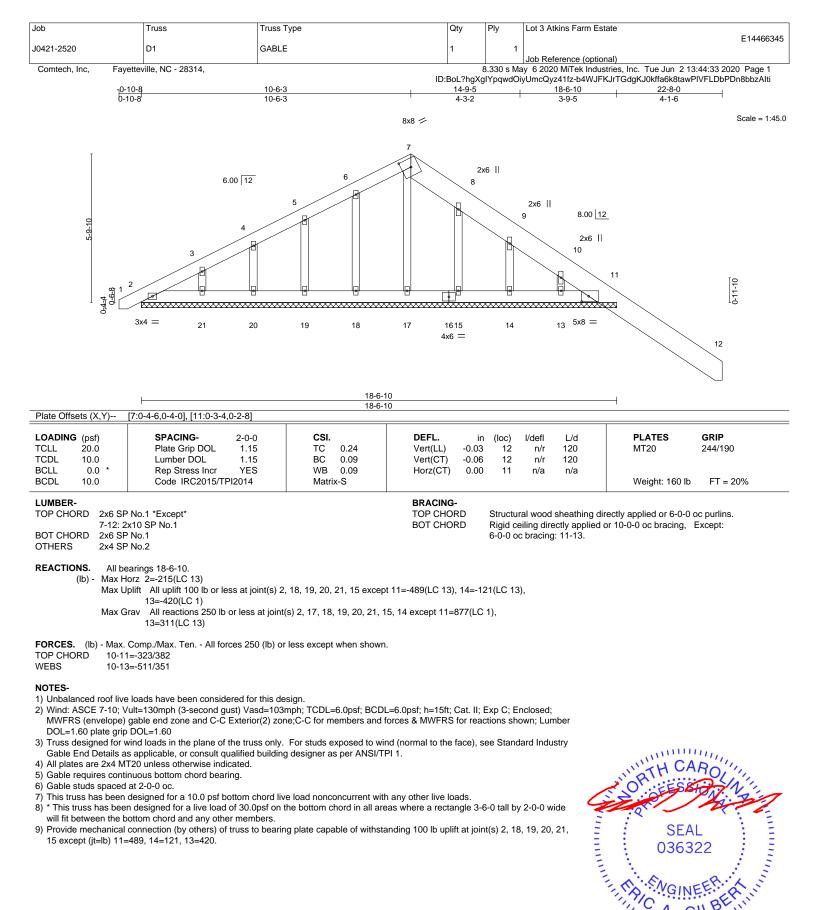
ſ	Job	Truss	Truss Type	Qty	Ply	Lot 3 Atkins Farm Estate			
						E14466344			
	J0421-2520	C3	COMMON GIRDER	1	2				
					~	Job Reference (optional)			
	Comtech, Inc, Fayettev	ille, NC - 28314,		8	3.330 s Ma	y 6 2020 MiTek Industries, Inc. Tue Jun 2 13:44:31 2020 Page 2			
			ID:BoL?hgXgIYpqwdÓiyUmcQyz41fz-fiPYqeHbxfNy50sMYEXefjnDQbrwnHYIywl1XizAltk						

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 5=-1291(B) 6=-1291(B) 7=-1291(B) 8=-1291(B) 9=-1291(B) 10=-1283(B) 11=-1285(B)

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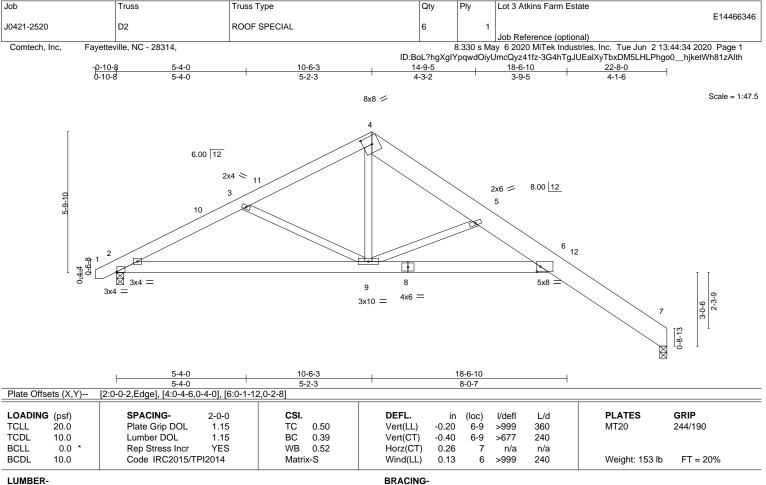




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GILU.... June 2,2020



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 *Except* 4-7: 2x10 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=176(LC 11) Max Uplift 7=-57(LC 13), 2=-58(LC 12) Max Grav 7=909(LC 1), 2=949(LC 1)

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

- TOP CHORD 2-3=-1528/386, 3-4=-1206/274, 4-5=-1286/301, 5-6=-2001/430, 6-7=-452/169
- BOT CHORD 2-9=-189/1315, 6-9=-273/2152
- WEBS 3-9=-349/230, 4-9=-109/874, 5-9=-1256/333

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-6-3, Exterior(2) 10-6-3 to 15-1-11, Interior(1) 15-1-11 to 22-6-4 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.

5) Bearing at joint(s) 7 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) 7, 2.

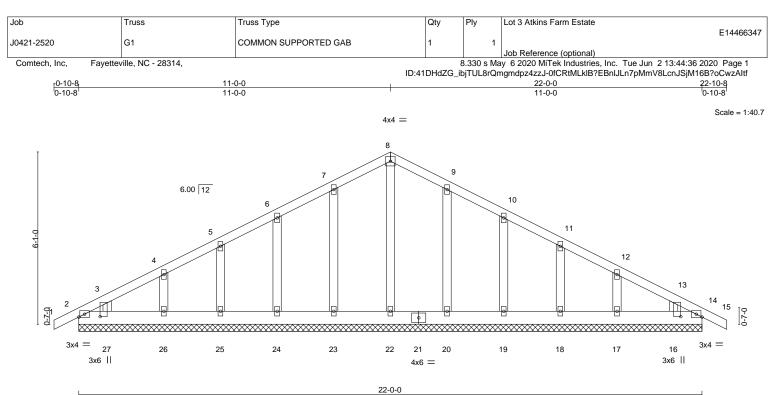


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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22-0-0												
Plate Offsets (X,Y) [3:0-0-14,0-1-12], [13:0-0-14,0-1-12], [16:0-0-0,0-1-12], [16:0-0-3,0-9-0], [27:0-0-0,0-1-12], [27:0-0-3,0-9-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	тс	0.04	Vert(LL)	-0.00	<u>`</u> 14́	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	912014	Matrix	(-S						Weight: 134 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1OTHERS2x4 SP No.2

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 2=-120(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C 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.
- 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, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14.

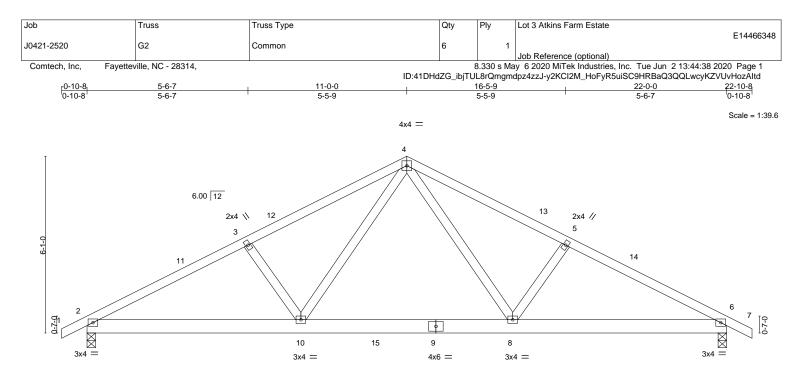


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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	7-4-5 7-4-5		14-7-11 7-3-7	+	-	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.28 BC 0.24 WB 0.12 Matrix-S	DEFL. in (loc) Vert(LL) -0.05 8-10 Vert(CT) -0.10 8-10 Horz(CT) 0.02 6 Wind(LL) 0.03 8-10	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 244/19 Weight: 120 lb FT =	0 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-77(LC 10) Max Uplift 2=-66(LC 12), 6=-66(LC 13) Max Grav 2=930(LC 1), 6=930(LC 1)

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

TOP CHORD 2-3=-1464/353, 3-4=-1284/366, 4-5=-1284/366, 5-6=-1464/353

BOT CHORD 2-10=-228/1223, 8-10=-70/829, 6-8=-236/1223

WEBS 4-8=-98/488, 5-8=-284/207, 4-10=-98/489, 3-10=-284/207

NOTES-

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

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

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

4) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 2, 6.

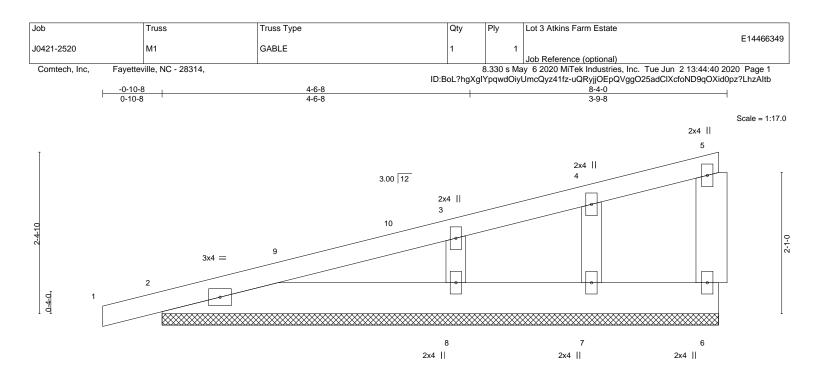


Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

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	1									
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	0.16	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1	.15 BC	0.05	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	'ES WB	0.04	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI20	14 Matr	ix-P						Weight: 40 lb	FT = 20%
LUMBER-				BRACING-						
TOP CHORD 2x4 SP	No.1			TOP CHOP	RD	Structu	ral wood	sheathing o	directly applied or 6-0-0	oc purlins,
BOT CHORD 2x6 SP	No.1					except	end verti	cals.		
WEBS 2x6 SP	No.1			BOT CHOP	RD	Rigid c	eiling dire	ctly applied	d or 10-0-0 oc bracing.	
OTHERS 2x4 SP	No.2					-	-			

REACTIONS. All bearings 8-2-8.

- (lb) Max Horz 2=109(LC 8)
 - Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-107(LC 12)
 - Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=344(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.

WEBS 3-8=-255/218

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-1-4 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 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) 6, 2, 7 except (jt=lb) 8=107.



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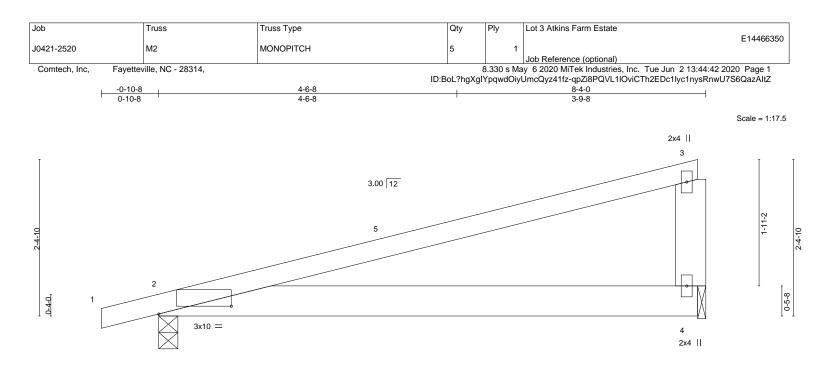


Plate Offsets (X,Y) [2	2:1-1-4,0-1-7]		<u>8-4-0</u> 8-4-0				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.95 BC 0.26 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.05 Vert(CT) -0.11 Horz(CT) 0.00 Wind(LL) 0.00	2-4 >999 2-4 >880 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 37 lb	GRIP 244/190 FT = 20%
UMBER- OP CHORD 2x4 SP 3OT CHORD 2x6 SP VEBS 2x6 SP	No.1		BRACING- TOP CHORD BOT CHORD	except end verti	cals.	rectly applied or 2-2-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-66(LC 8), 4=-41(L

Max Uplift 2=-66(LC 8), 4=-41(LC 12) Max Grav 2=384(LC 1), 4=314(LC 1)

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

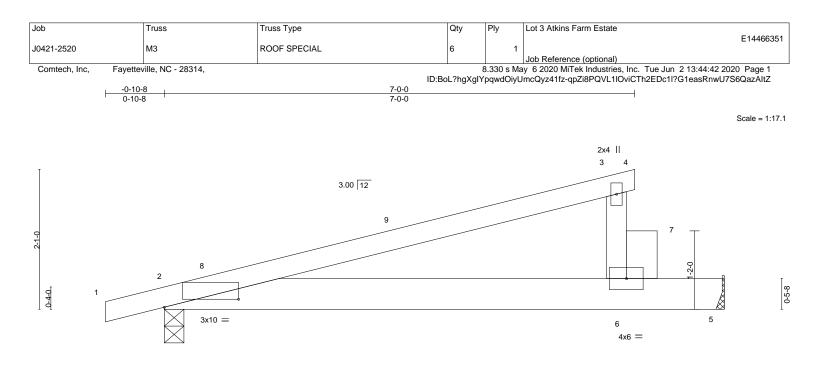
NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 8-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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) 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.



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				8-4-0						
ate Offsets (X,Y)	[2:1-1-4,0-1-7]			040						
DADING (psf)	SPACING-	2-0-0 CSI.	D	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15 TC	0.71 V	/ert(LL)	-0.11	2 -6	>884	360	MT20	244/190
DL 10.0	Lumber DOL	1.15 BC	0.86 V	/ert(CT)	-0.26	2-6	>373	240		
CLL 0.0 *	Rep Stress Incr	NO WB	0.00 H	lorz(CT)	0.00	5	n/a	n/a		
CDL 10.0	Code IRC2015/TPI	I2014 Matri	x-P V	Vind(LL)	0.17	2-6	>569	240	Weight: 35 lb	FT = 20%
JMBER-		·	В	RACING-					•	
OP CHORD 2x4 SP	No.1		T	OP CHORE	C	Structu	ral wood	sheathing di	rectly applied or 6-0-0	oc purlins,
OT CHORD 2x6 SP	No.1					except	end verti	cals.		
/EBS 2x4 SP	No.2 *Except*		В	SOT CHORE	0	Rigid ce	eiling dire	ctly applied	or 7-8-6 oc bracing.	
6-7: 2x6	6 SP No.1									

0 4 0

REACTIONS. (size) 2=0-3-8, 5=Mechanical Max Horz 2=68(LC 8) Max Lipit 2= 75(LC 9) 5= 59(LC 1)

Max Uplift 2=-75(LC 8), 5=-58(LC 12) Max Grav 2=468(LC 1), 5=656(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-0-0 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 265 lb up at
- 7-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

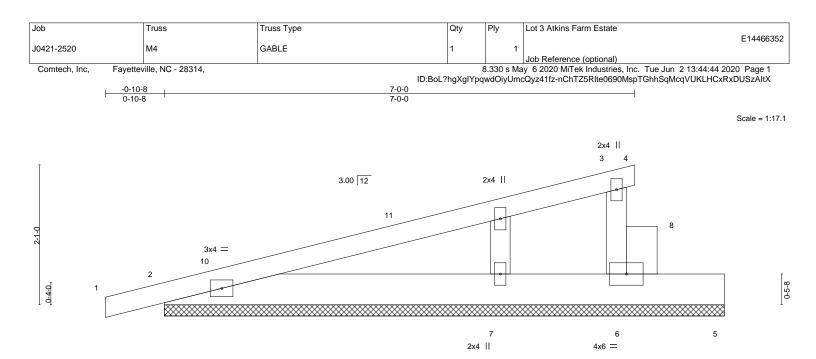
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 3-4=-20, 2-5=-20

Concentrated Loads (lb) Vert: 6=-500



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	<u>8-4-0</u> 8-4-0		I
SPACING- 2-0-0 LL 20.0 Plate Grip DOL 1.15 DL 10.0 Lumber DOL 1.15		4 n/r 120	PLATES GRIP MT20 244/190
	3 0.00 Horz(CT) 0.00 trix-P) 6 n/a n/a	Weight: 37 lb FT = 20%
IMBER- IP CHORD 2x4 SP No.1 IT CHORD 2x6 SP No.1	BRACING- TOP CHORD	Structural wood sheathing dire except end verticals.	ctly applied or 6-0-0 oc purlins,
EBS 2x4 SP No.2 *Except* 6-8: 2x6 SP No.1 "HERS 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or	10-0-0 oc bracing.

TIONS. (size) 6=8-4-0, 2=8-4-0, 7=8-4-0 Max Horz 2=96(LC 8) Max Uplift 6=-109(LC 12), 2=-133(LC 8) Max Grav 6=235(LC 1), 2=303(LC 1), 7=181(LC 3)

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

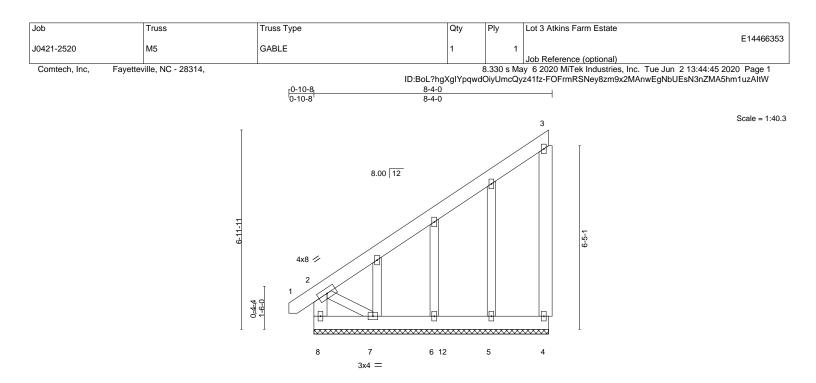
NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-0-0 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) 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 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) except (jt=lb) 6=109, 2=133.



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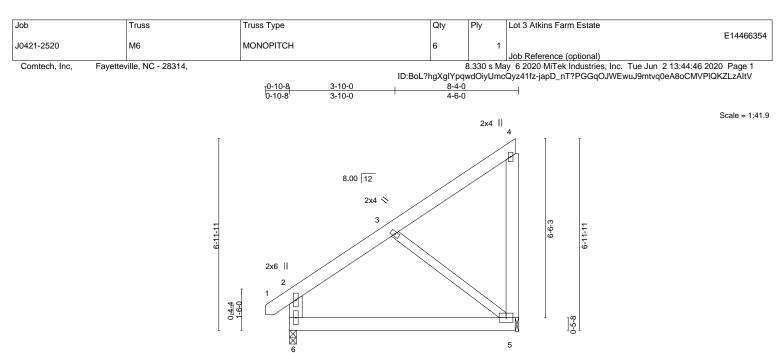
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	Plate Grip DOL 1 Lumber DOL 1	0-0 CSI. 1.15 TC 0.40 1.15 BC 0.02 7ES WB 0.06 14 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 0.01 -0.00	(loc) 1 1 4	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP No. BOT CHORD 2x6 SP No. WEBS 2x6 SP No. 2.7: 2x4 SP OTHERS 2x4 SP No.	1 1 1 *Except* No.2		BRACING- TOP CHOR BOT CHOR		except	end verti	cals.	ectly applied or 6-0-0 or 10-0-0 oc bracing.	
Max Uplift	B=271(LC 12) All uplift 100 lb or less a	at joint(s) except 4=-206(LC 12), 7= sss at joint(s) 5, 6, 7 except 4=311()					
	227, 2-8=-298/0	250 (lb) or less except when show	n.						

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 4 and 142 lb uplift at joint 7.



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4x6 =

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.06	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	912014	Matri	x-S	Wind(LL)	0.07	5-6	>999	240	Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except*
	3-5 2x4 SP No 2

REACTIONS. (size) 6=0-3-0, 5=0-1-8 Max Horz 6=178(LC 12) Max Uplift 6=-27(LC 9), 5=-143(LC 9) Max Grav 6=376(LC 1), 5=310(LC 1)

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

- TOP CHORD 2-3=-268/39, 2-6=-290/86
- BOT CHORD 5-6=-250/259 WEBS 3-5=-313/285

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-7-11, Interior(1) 3-7-11 to 8-1-0 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2x6 |

ł

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) Bearing at joint(s) 5 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) 5.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 6 and 143 lb uplift at joint 5.



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BRACING-TOP CHORD

BOT CHORD

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

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

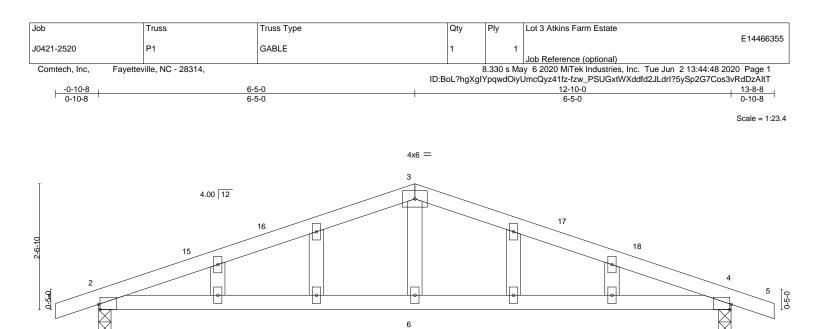


Plate Offsets (X,Y)	6-5-0 6-5-0 [2:0-0-5,Edge], [4:0-0-5,Edge]				12-10-0 6-5-0		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.44 BC 0.34 WB 0.07 Matrix-S	DEFL. in Vert(LL) 0.11 Vert(CT) -0.09 Horz(CT) 0.01	4-6 >999 2-6 >999	L/d 240 240 n/a	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%
LUMBER- FOP CHORD 2x4 SP 3OT CHORD 2x4 SP WEBS 2x4 SP DTHERS 2x4 SP	No.1 No.2		BRACING- TOP CHORD BOT CHORD			ectly applied or 5-9-9 r 6-6-10 oc bracing.) oc purlins.
Max H Max U	e) 2=0-3-0, 4=0-3-0 orz 2=-49(LC 17) plift 2=-309(LC 8), 4=-309(LC 9) rav 2=563(LC 1), 4=563(LC 1)						
OP CHORD 2-3=- OT CHORD 2-6=-	Comp./Max. Ten All forces 250 (lb) o 910/965, 3-4=-910/965 828/799, 4-6=-828/799 383/303	less except when shown.					
IOTES-) Unbalanced roof live	loads have been considered for this de	esign.					

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-5-0, Exterior(2) 6-5-0 to 10-9-13, Interior(1) 10-9-13 to 13-8-8 zone; porch left and right exposed;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.

3x4 =

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.

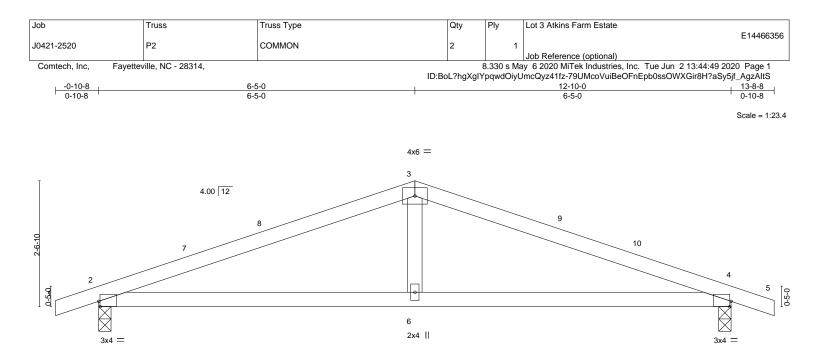
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 2 and 309 lb uplift at joint 4.



3x4 =

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	6-5-0 6-5-0			12-10-0 6-5-0	
	[2:0-0-5,Edge], [4:0-0-5,Edge]				
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.44	DEFL. ir Vert(LL) 0.11	(,	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(LL) 0.11 Vert(CT) -0.09		M120 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.01		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 45 lb $FT = 20\%$
Max H Max U	' No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing Rigid ceiling directly applie	directly applied or 5-9-9 oc purlins. ed or 6-6-10 oc bracing.
TOP CHORD 2-3=- BOT CHORD 2-6=-	Comp./Max. Ten All forces 250 (lb) or 910/965, 3-4=-910/965 828/799, 4-6=-828/799 383/303	less except when shown			
/	loads have been considered for this de ult=130mph (3-second gust) Vasd=103	0	L=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 6-5-0, Exterior(2) 6-5-0 to 10-9-13, Interior(1) 10-9-13 to 13-8-8 zone; porch left and 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.

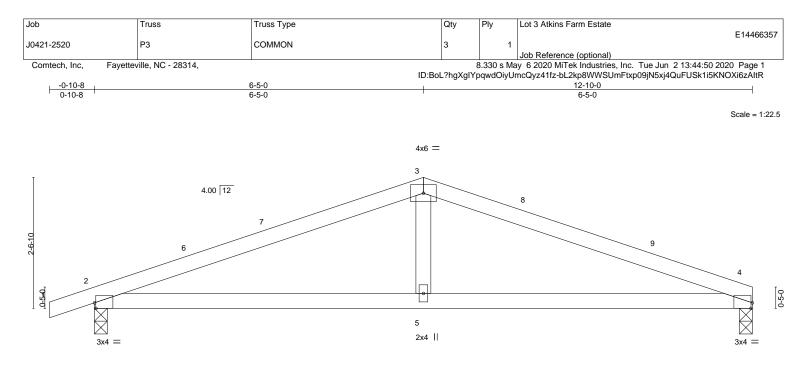
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 217 lb uplift at joint 4.



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	<u>6-5-0</u> 6-5-0	<u>12-10-0</u> 6-5-0						
Plate Offsets (X,Y)	[2:0-0-5,Edge], [4:0-0-5,Edge]							
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 0.48 BC 0.35 WB 0.07 Matrix-S	DEFL.inVert(LL)0.11Vert(CT)-0.09Horz(CT)0.01	4-5 >999 2 4-5 >999 2	L/d PLATES 240 MT20 240 n/a Weight: 44 lb	GRIP 244/190 FT = 20%		
Max L	P No.1 P No.2		BRACING- TOP CHORD BOT CHORD		eathing directly applied or 5-7-1 y applied or 6-4-14 oc bracing.	0 oc purlins.		
FORCES. (Ib) - Max. TOP CHORD 2-3= BOT CHORD 2-5=	Comp./Max. Ten All forces 250 (lb) or -918/984, 3-4=-916/993 -866/807, 4-5=-866/807 -386/305	less except when shown.						

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-5-0, Exterior(2) 6-5-0 to 10-9-13, Interior(1) 10-9-13 to 12-8-8 zone; porch left and 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.

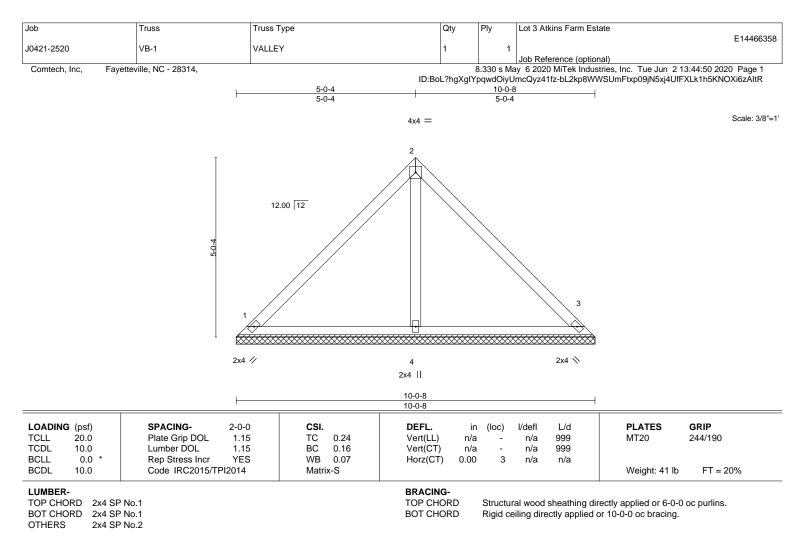
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 217 lb uplift at joint 2.



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REACTIONS. (size) 1=10-0-8, 3=10-0-8, 4=10-0-8 Max Horz 1=112(LC 9) Max Uplift 1=-28(LC 13), 3=-28(LC 13) Max Grav 1=212(LC 1), 3=212(LC 1), 4=324(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

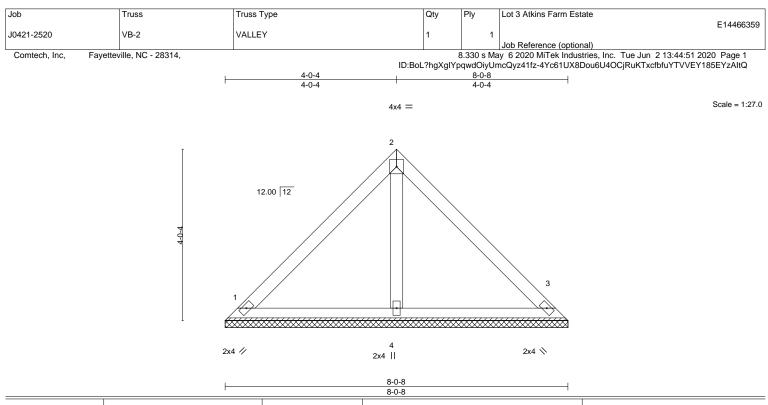
3) Gable requires continuous bottom chord bearing.

- 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 28 lb uplift at joint 1 and 28 lb uplift at joint 3.



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LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.23 BC 0.10	DEFL. Vert(LL) Vert(CT)	in (loc) n/a - n/a -	l/defl n/a n/a	L/d 999 999	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-P		0.00 3	n/a	n/a	Weight: 33 lb FT = 20%

LUMBER-

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

2x4 SP No.2

REACTIONS. (size) 1=8-0-8, 3=8-0-8, 4=8-0-8 Max Horz 1=-88(LC 10) Max Uplift 1=-32(LC 13), 3=-32(LC 13) Max Grav 1=179(LC 1), 3=179(LC 1), 4=230(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 32 lb uplift at joint 1 and 32 lb uplift at joint 3.

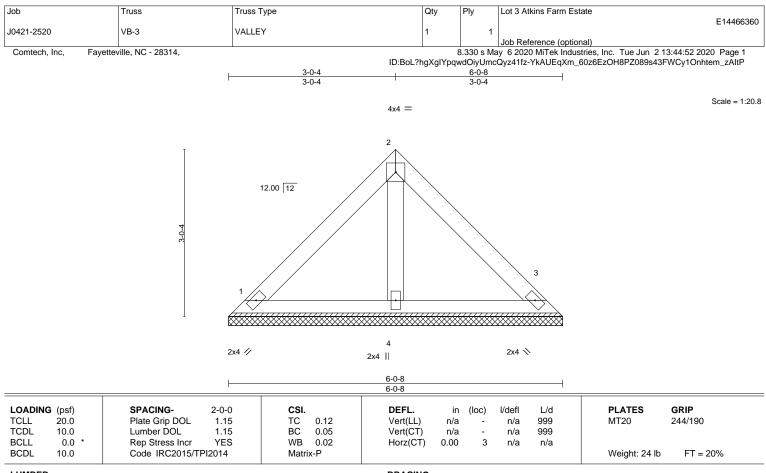


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BRACING-TOP CHORD BOT CHORD

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



LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 1=6-0-8, 3=6-0-8, 4=6-0-8 Max Horz 1=64(LC 9) Max Uplift 1=-23(LC 13), 3=-23(LC 13) Max Grav 1=130(LC 1), 3=130(LC 1), 4=167(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate orip 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.

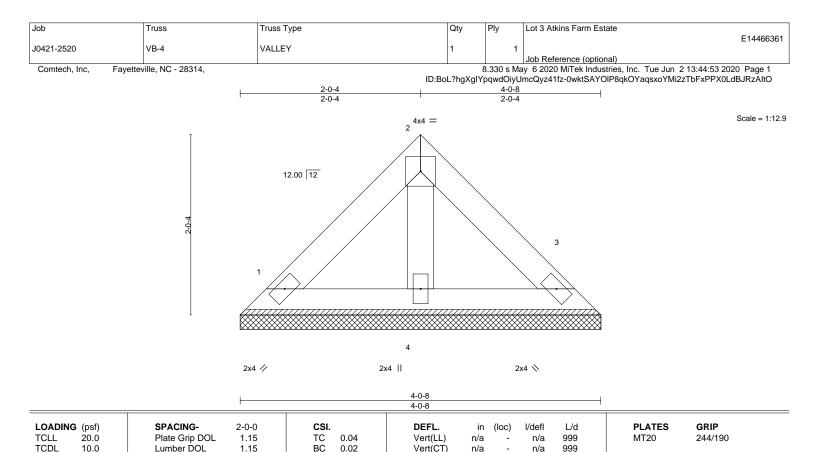
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 23 lb uplift at joint 3.



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Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

Structural wood sheathing directly applied or 4-0-8 oc purlins.

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

Weight: 15 lb

FT = 20%

NOTES-

BCLL

BCDL

LUMBER-

OTHERS REACTIONS.

TOP CHORD

BOT CHORD

0.0

2x4 SP No.1

2x4 SP No.1

2x4 SP No.2

Max Horz 1=-40(LC 10)

10.0

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

Rep Stress Incr

(size) 1=4-0-8, 3=4-0-8, 4=4-0-8

Max Uplift 1=-14(LC 13), 3=-14(LC 13) Max Grav 1=81(LC 1), 3=81(LC 1), 4=104(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code IRC2015/TPI2014

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

WB

Matrix-P

0.01

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.

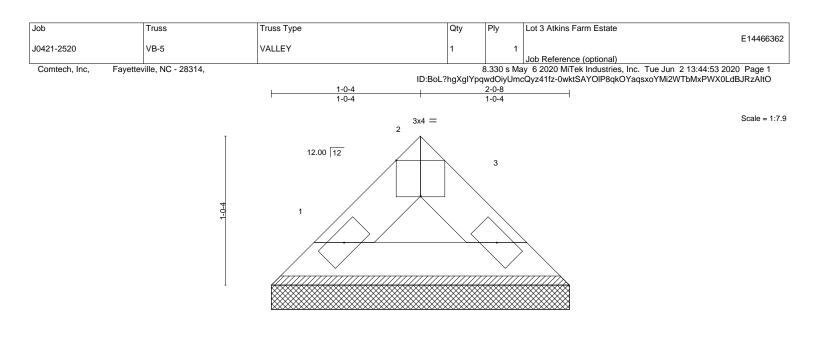
YES

- 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 14 lb uplift at joint 1 and 14 lb uplift at joint 3.



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2x4 🥢

2x4 🚿

			2-0-8				
Plate Offsets (X,Y)	[2:0-2-0,Edge]	I					
LOADING (psf)	SPACING- 2-0-	0 CSI .	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.1	5 TC (0.01 Vert(LL)	n/a -	n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.1	5 BC (0.01 Vert(CT)	n/a -	n/a 999		
BCLL 0.0 *	Rep Stress Incr YE	S WB (0.00 Horz(CT)	0.00 3	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-	P			Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1

REACTIONS. (size) 1=2-0-8, 3=2-0-8 Max Horz 1=-16(LC 8) Max Uplift 1=-2(LC 12), 3=-2(LC 12)

Max Grav 1=54(LC 1), 3=54(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 2 lb uplift at joint 3.

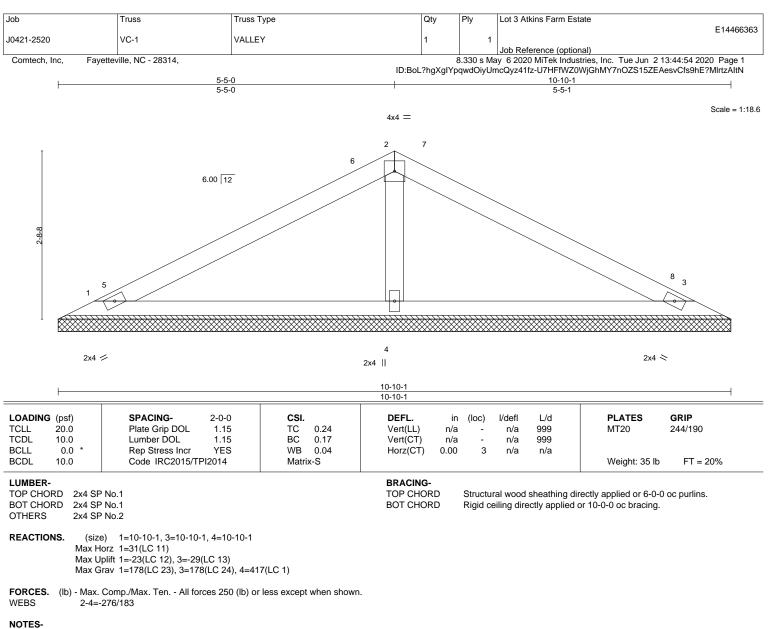


Structural wood sheathing directly applied or 2-0-8 oc purlins.

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

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 5-5-0, Exterior(2) 5-5-0 to 9-9-13, Interior(1) 9-9-13 to 10-2-10 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

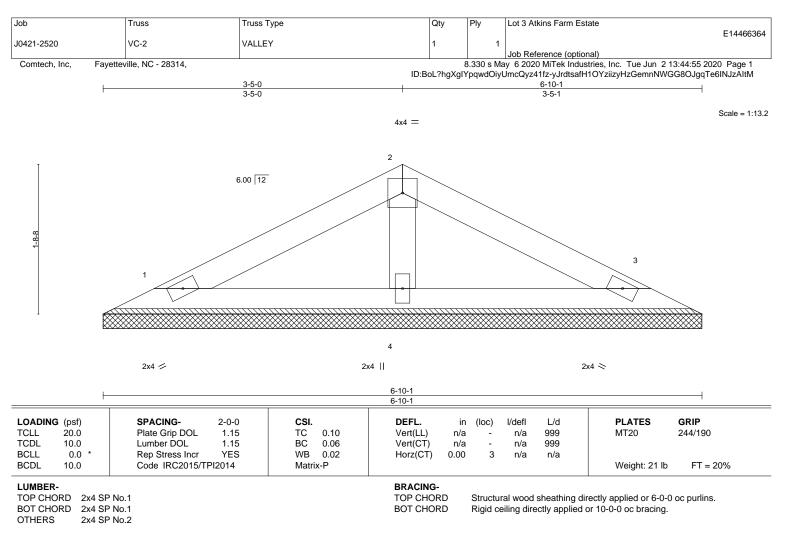
will fit between the bottom chord and any other members. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 29 lb uplift at

joint 3. 6) Non Standard bearing condition. Review required.



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REACTIONS. (size) 1=6-10-1, 3=6-10-1, 4=6-10-1 Max Horz 1=-18(LC 8) Max Uplift 1=-18(LC 12), 3=-21(LC 13) Max Grav 1=114(LC 1), 3=114(LC 1), 4=220(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

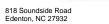
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

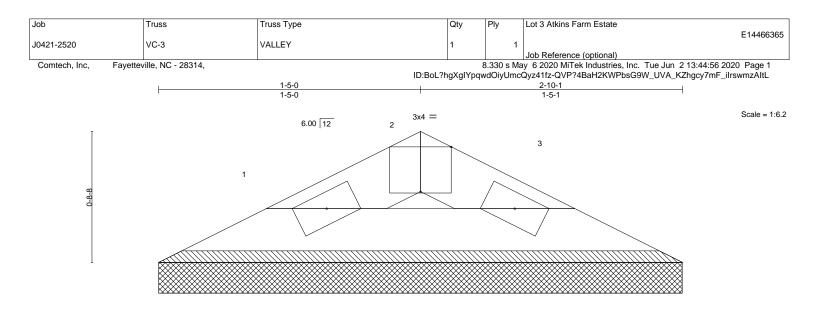
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 21 lb uplift at joint 3.

6) Non Standard bearing condition. Review required.



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2x4 💋

2x4 📚

TOP CHORD

BOT CHORD

	2-10-1 2-10-1									
Plate Offsets (X,Y) [2:0-2-0,Edge]										
LOADING (psf)	SPACING- 2-0	CSI .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.	15 TC	0.01	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 YE	ES WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI201	4 Matri	x-P	()					Weight: 7 lb	FT = 20%

LUMBER-

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

REACTIONS. (size) 1=2-10-1, 3=2-10-1 Max Horz 1=-5(LC 8) Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=64(LC 1), 3=64(LC 1)

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

NOTES-

3.

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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 4 lb uplift at joint 1 and 4 lb uplift at joint

6) Non Standard bearing condition. Review required.



Structural wood sheathing directly applied or 2-10-1 oc purlins.

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

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