

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1123-6330 Kelly Residence

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: I62040804 thru I62040826

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

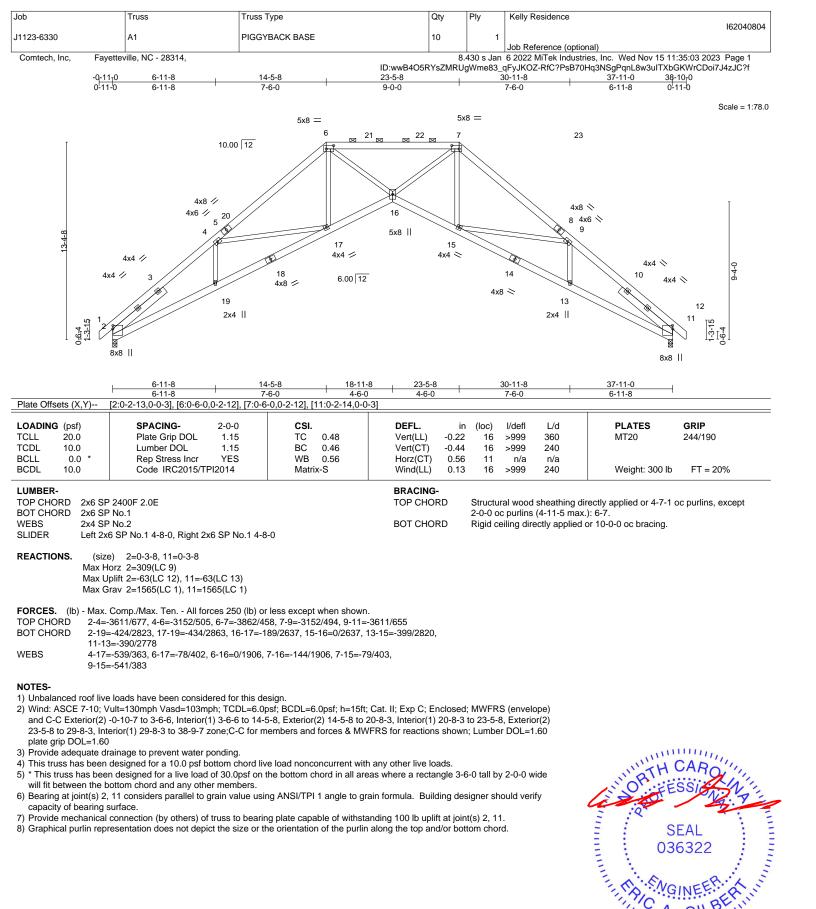
North Carolina COA: C-0844



November 16,2023

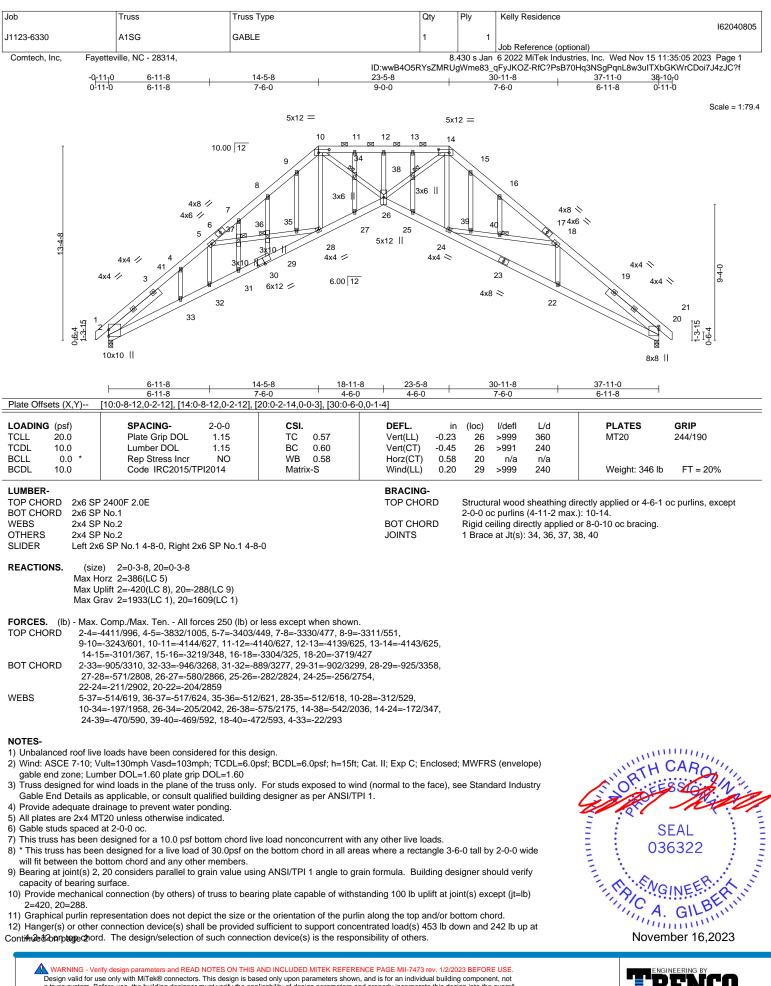
# Gilbert, Eric

**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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

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Job	Truss	Truss Type	Qty	P	Ply	Kelly Residence		
J1123-6330	A1SG	GABLE	1		1	162040805		
						Job Reference (optional)		
Comtech, Inc,	Fayetteville, NC - 28314,	8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 15 11:35:05 2023 Page 2						
		ID:wwB405RYsZMRUgWme83_qFyJK0Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f						

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

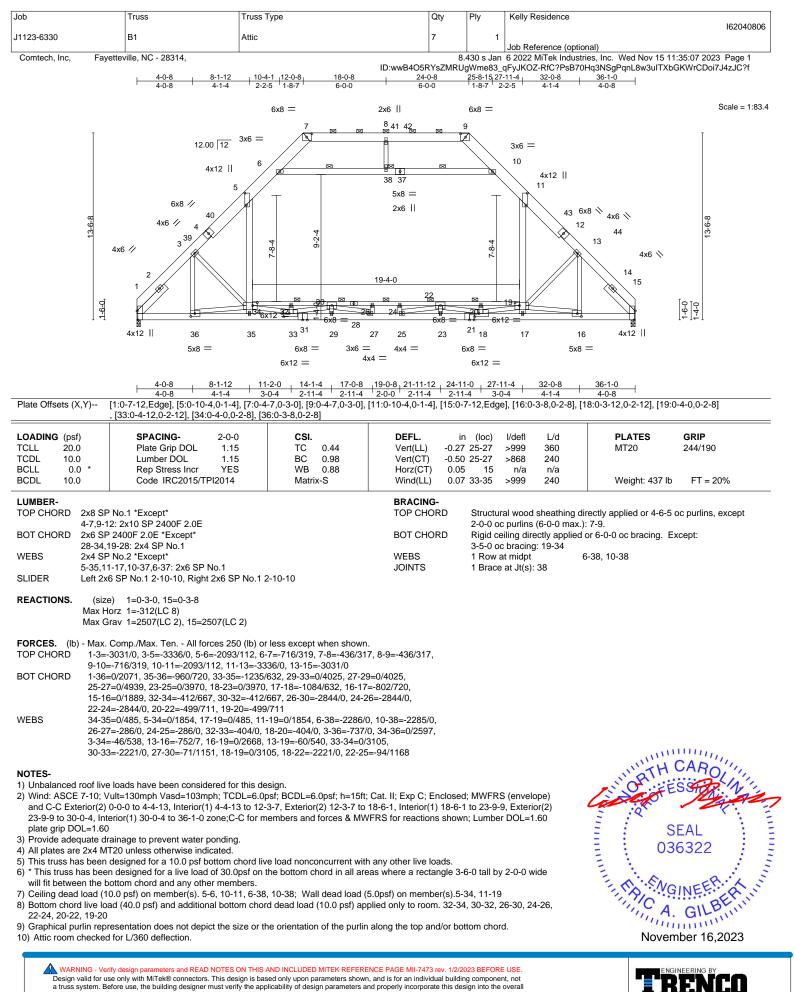
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

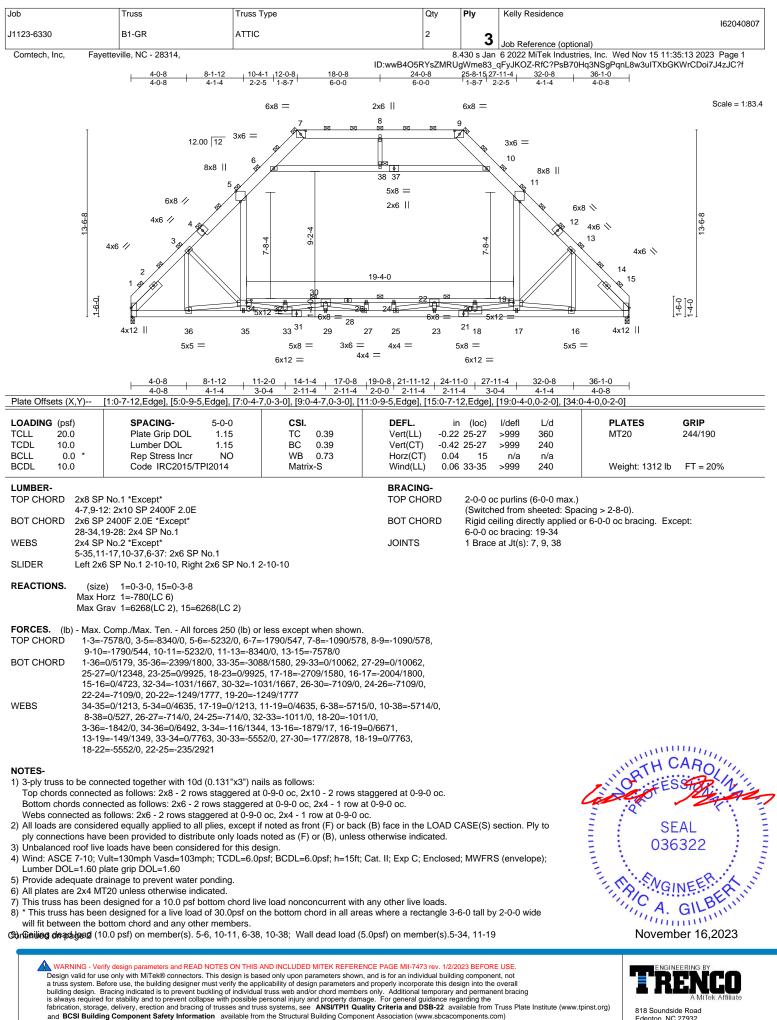
Vert: 1-10=-60, 10-14=-60, 14-21=-60, 2-26=-20, 20-26=-20 Concentrated Loads (lb) Vert: 41=-413(F)

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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 ANS/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Association (www.sbcacomponents.com) Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Kelly Residence		
J1123-6330	B1-GR	ATTIC	2	_	162040807		
1123-0330	BIGK	Arrio	2	3	Job Reference (optional)		
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Nov 15 11:35:13 2023 Page 2		
		ID:wwB4O5RYsZMRUgWme83_qFyJKOZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f					

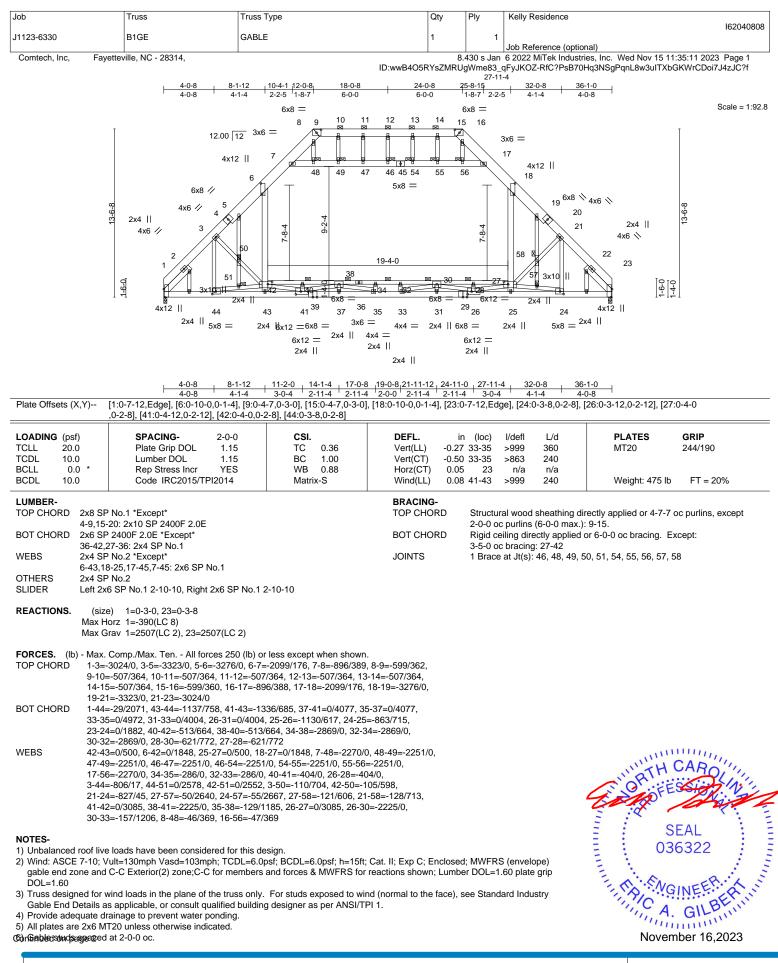
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 30-32, 26-30, 24-26, 22-24, 20-22, 19-20

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

12) Attic room checked for L/360 deflection.

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TRENCO A Mitek Affiliate

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Job	Truss	Truss Type	Qty	Ply	Kelly Residence	
14 4 00 0000	5105					162040808
J1123-6330	B1GE	GABLE	1	1	Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,		8	.430 s Jan	6 2022 MiTek Industries, Inc. Wed Nov 15 11:35:11 2023	Page 2
			ID:wwB4O5RYsZMRU	laWme83	aEv.IKOZ-RfC?PsB70Ha3NSaPanL8w3uITXbGKWrCDoi7.14	47.IC?f

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

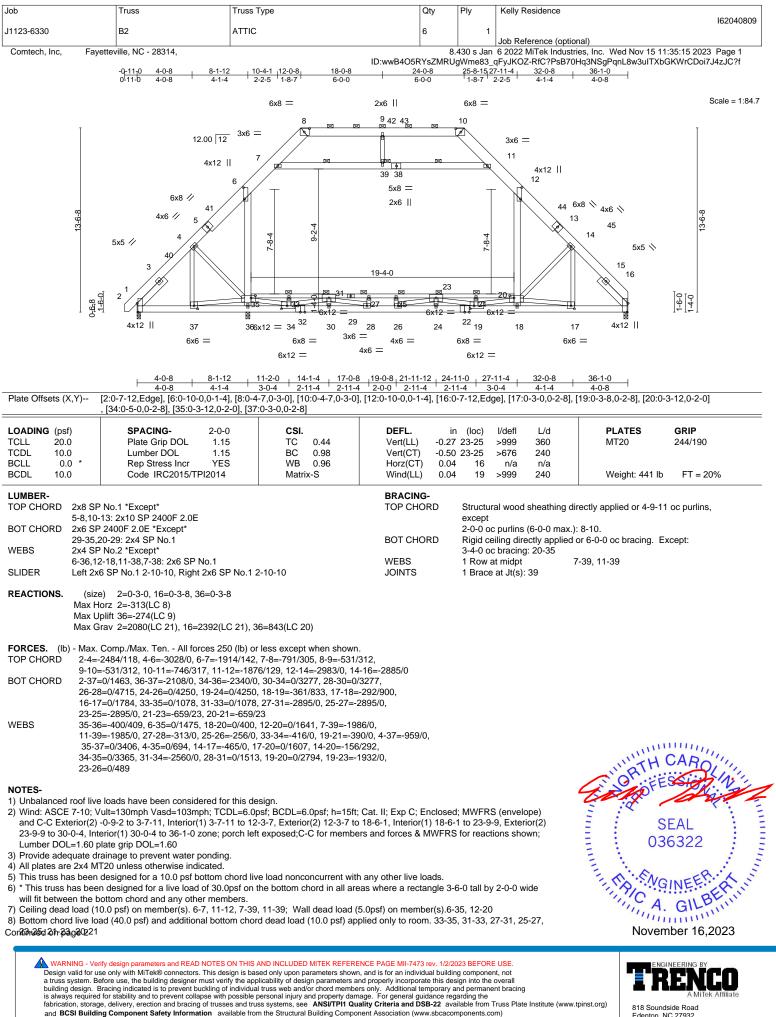
any other members. 9) Ceiling dead load (10.0 psf) on member(s). 6-7, 17-18, 7-48, 48-49, 47-49, 46-47, 46-54, 54-55, 55-56, 17-56; Wall dead load (5.0psf) on member(s).6-42, 18-27
 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 40-42, 38-40, 34-38, 32-34, 30-32, 28-30, 27-28

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

12) Attic room checked for L/360 deflection.

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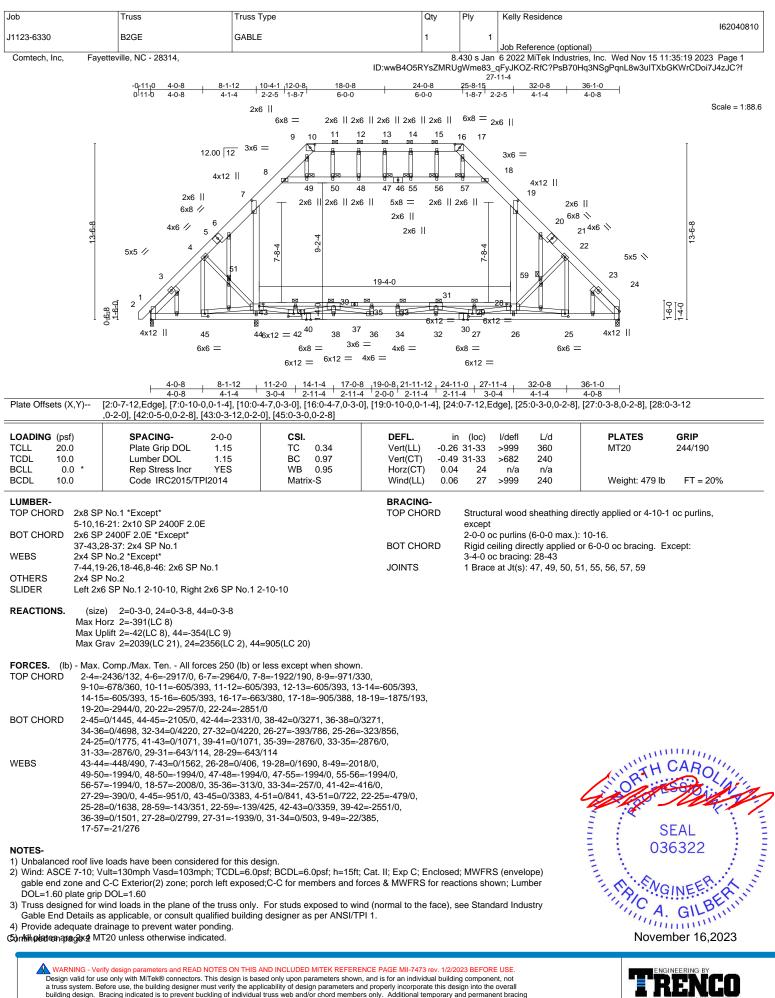
[	Job	Truss	Truss Type	Qty	Ply	Kelly Residence		
	J1123-6330	B2	ATTIC	6	1	162040809		
	1123-0330	DZ	Arrie	0		Job Reference (optional)		
	Comtech, Inc, Fayettev	ville, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Nov 15 11:35:15 2023 Page 2		
			ID:wwB4O5RYsZMRUgWme83_qFyJKOZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f					

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 36=274.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 11) Attic room checked for L/360 deflection.

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Job	Truss	Truss Type	Qty	Ply	Kelly Residence		
J1123-6330	B2GE	GABLE	1	1	I62040810		
J1123-0330	BZGE	GABLE		'	Job Reference (optional)		
Comtech, Inc,	Fayetteville, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Nov 15 11:35:19 2023 Page 2		
		ID:wwB405RYsZMRUgWme83_gFyJK0Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJČ?f					

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) Ceiling dead load (10.0 psf) on member(s). 7-8, 18-19, 8-49, 49-50, 48-50, 47-48, 47-55, 55-56, 56-57, 18-57; Wall dead load (5.0psf) on member(s).7-43, 19-28

10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 41-43, 39-41, 35-39, 33-35, 31-33, 29-31, 28-29

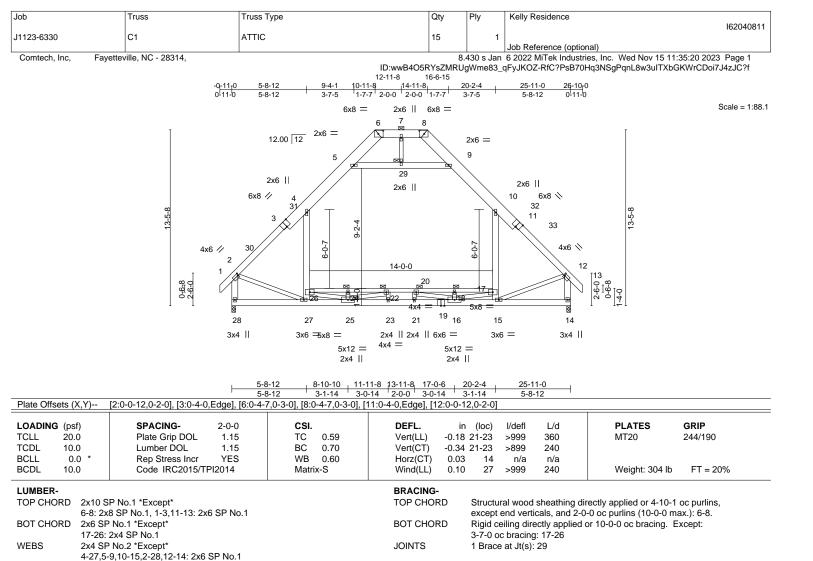
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 44=354.

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

13) Attic room checked for L/360 deflection.

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REACTIONS. (size) 28=0-3-8, 14=0-3-8 Max Horz 28=-284(LC 10)

Max Grav 28=1856(LC 20), 14=1856(LC 21)

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

- TOP CHORD
   2-4=-1798/0, 4-5=-1189/174, 5-6=-122/275, 6-7=0/497, 7-8=0/497, 8-9=-122/275, 9-10=-1190/174, 10-12=-1798/0, 2-28=-1849/0, 12-14=-1850/0

   BOT CHORD
   27-28=-286/438, 25-27=-139/1252, 23-25=0/3879, 21-23=0/3879, 16-21=0/3879, 10-20=0/3879, 10-20=0/3879, 10-20=0/380, 10-20=0
- 15-16=0/1049, 24-26=-1787/0, 22-24=-1787/0, 20-22=-2858/0, 18-20=-1787/0, 17-18=-1787/0

   WEBS
   4-26=0/821, 5-29=-1566/168, 9-29=-1566/168, 10-17=0/821, 2-27=0/1109, 12-15=0/1112, 25-26=0/2129, 24-25=-410/0, 22-25=-1170/5, 16-20=-1159/0, 16-18=-410/0,

#### 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) -0-10-6 to 3-6-7, Interior(1) 3-6-7 to 11-2-7, Exterior(2) 11-2-7 to 20-11-4, Interior(1) 20-11-4 to 26-9-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

16-17=0/2129

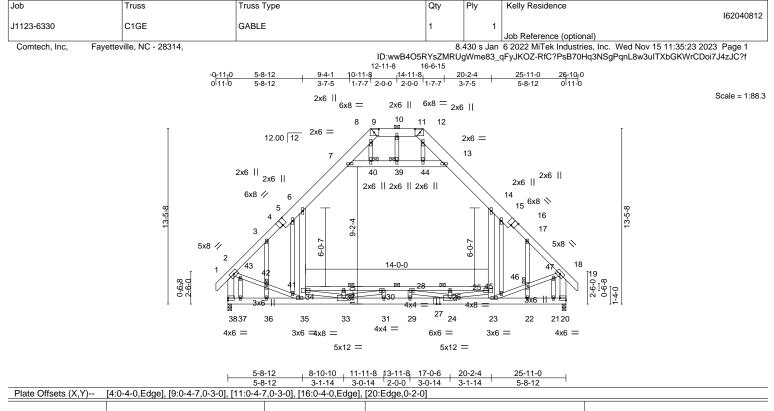
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-29, 9-29; Wall dead load (5.0psf) on member(s). 4-26, 10-17
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 24-26, 22-24, 20-22, 18-20, 17-18
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Attic room checked for L/360 deflection.

NIN TH CA JORTH CONTRACTOR OF THE SEAL 036322 G (1111111) November 16,2023

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818 Soundside Road



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 0.48	Vert(LL)	-0.16 29-31	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT)	-0.31 29-31	>995	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT)	0.03 20	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.11 35	>999	240	Weight: 343 lb	FT = 20%
LUMBER-			BRACING-					

LUMBER-		BRACING-	
TOP CHORD	2x10 SP No.1 *Except*	TOP CHORD	Structural wood sheathing directly applied or 5-3-4 oc purlins,
	9-11: 2x8 SP No.1, 1-4,16-19: 2x6 SP No.1		except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 9-11.
BOT CHORD	2x6 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
	25-34: 2x4 SP No.1		3-9-0 oc bracing: 25-34
WEBS	2x4 SP No.2 *Except*	JOINTS	1 Brace at Jt(s): 39, 40, 42, 46
	6-35,7-13,14-23,2-38,18-20: 2x6 SP No.1		
OTHERS	2x4 SP No.2		

- REACTIONS. (size) 38=0-3-8, 20=0-3-8 Max Horz 38=-355(LC 10) Max Grav 38=1856(LC 2), 20=1856(LC 2)
- FORCES.
   (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

   TOP CHORD
   2-3=-1668/0, 3-5=-1806/0, 5-6=-1746/13, 6-7=-1176/203, 8-9=-40/290, 9-10=0/392, 10-11=0/392, 11-12=-40/290, 13-14=-1178/203, 14-15=-1749/12, 15-17=-1807/0, 17-18=-1668/0, 2-38=-1638/0, 18-20=-1640/0

   BOT CHORD
   37-38=-371/534, 36-37=-371/534, 35-36=-371/534, 33-35=-242/1223, 31-33=0/3639, 29-31=0/3639, 24-29=0/3639, 23-24=0/970, 32-34=-1515/0, 30-32=-1515/0, 28-30=-2613/0, 26-28=-1533/0, 25-26=-1533/0

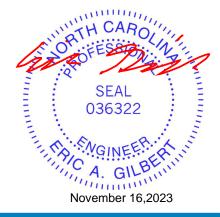
   WEBS
   34-35=-66/278, 6-34=0/1031, 7-40=-1477/222, 39-40=-1462/222, 39-44=-1462/222, 13-44=-1479/222, 23-25=-75/278, 14-25=0/1031, 2-43=0/1109, 42-43=0/1106, 41-42=0/1128, 35-41=0/1118, 23-45=0/1121, 45-46=0/1133, 46-47=0/1114, 33-34=0/1919, 32-33=-416/0, 30-33=-1231/40, 24-28=-1218/25, 24-26=-416/0,
- 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) 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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.

24-25=0/1919, 3-42=-439/106, 36-42=-423/59, 17-46=-436/104, 22-46=-418/59

- 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) Ceiling dead load (10.0 psf) on member(s). 6-7, 13-14, 7-40, 39-40, 39-44, 13-44; Wall dead load (5.0psf) on member(s).6-34,
- e) Centing uead load (10.0 psi) on member(s). c-7, 13-14, 7-40, 39-40, 39-44, 13-44; Wall dead load (5.0pst) on member(s).6-34, 14-25

Continued on page 2

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[	Job	Truss	Truss Type	Qty	Ply	Kelly Residence			
	J1123-6330	C1GE	GABLE	1	1	l62040812			
	1123-0330	OTOL	GABLE	1		Job Reference (optional)			
	Comtech, Inc, Fayettev	ville, NC - 28314,	14, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 15 11:35:23 2023 Page						
			ID:wwB405RYsZMRUgWme83_qFyJK0Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f						

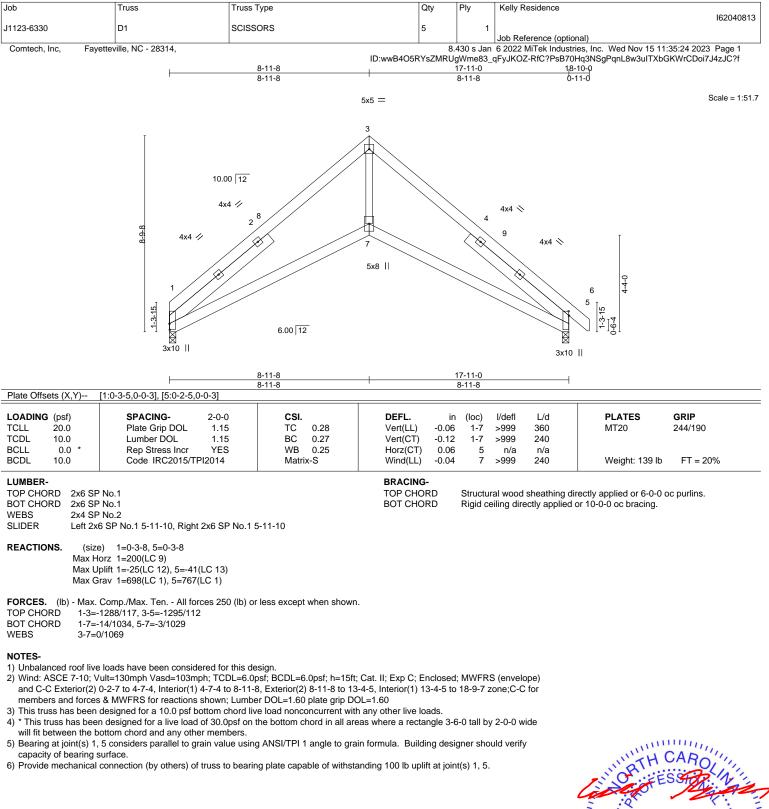
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 30-32, 28-30, 26-28, 25-26

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

12) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 outlapse 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



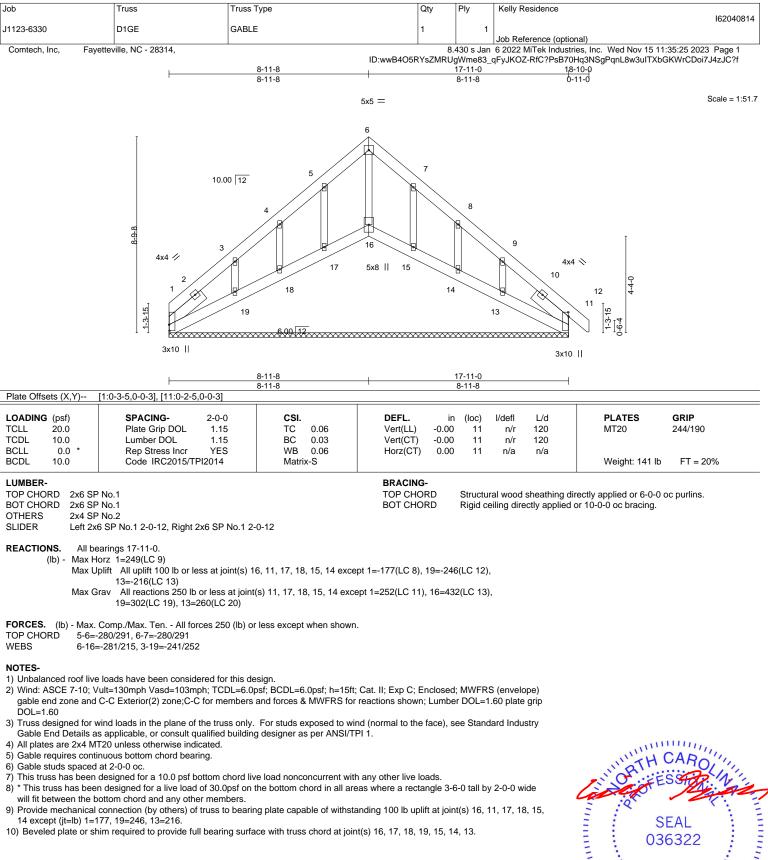


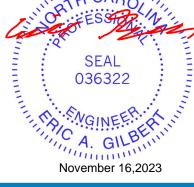


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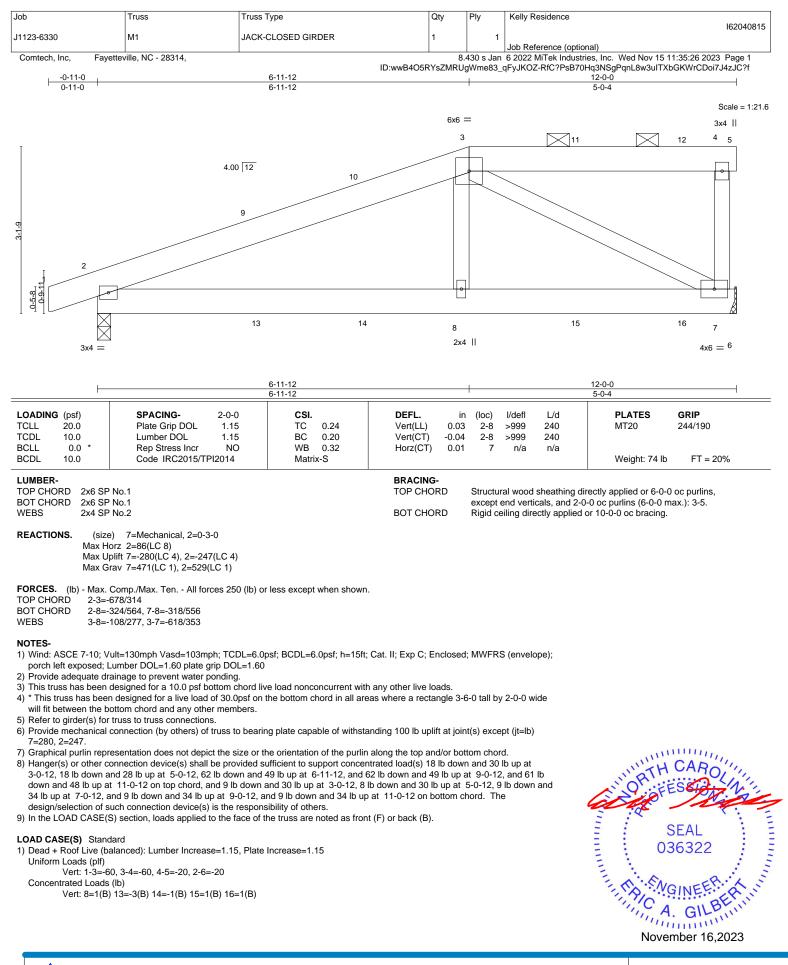
A MITEK Affilia

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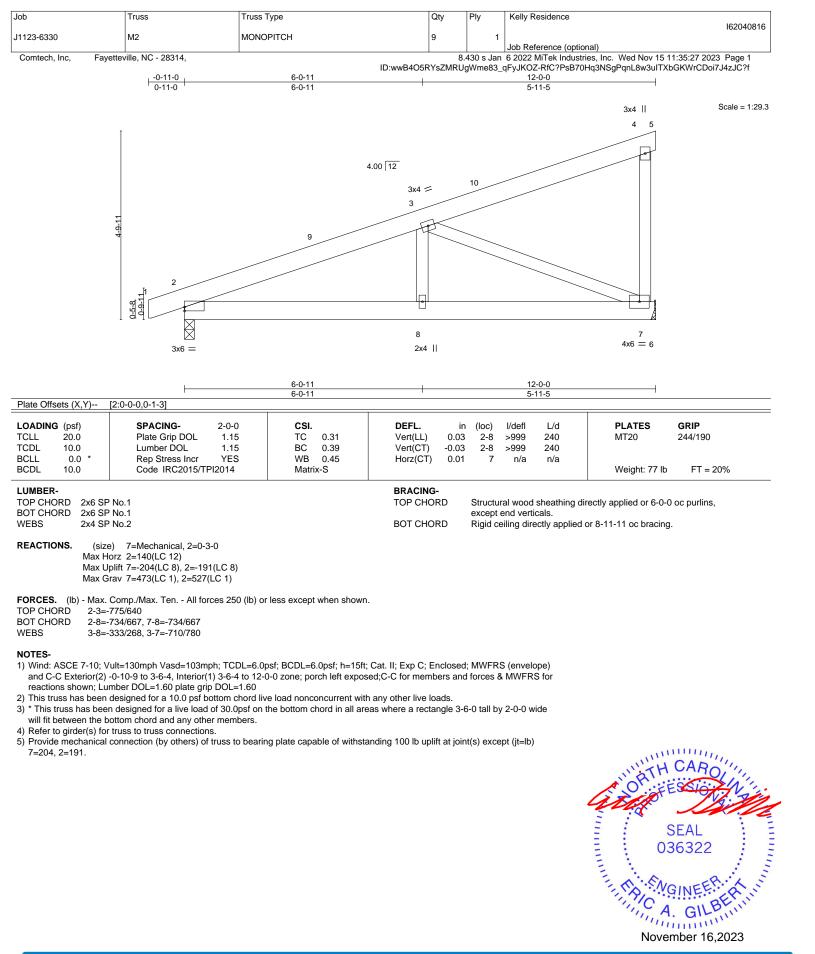


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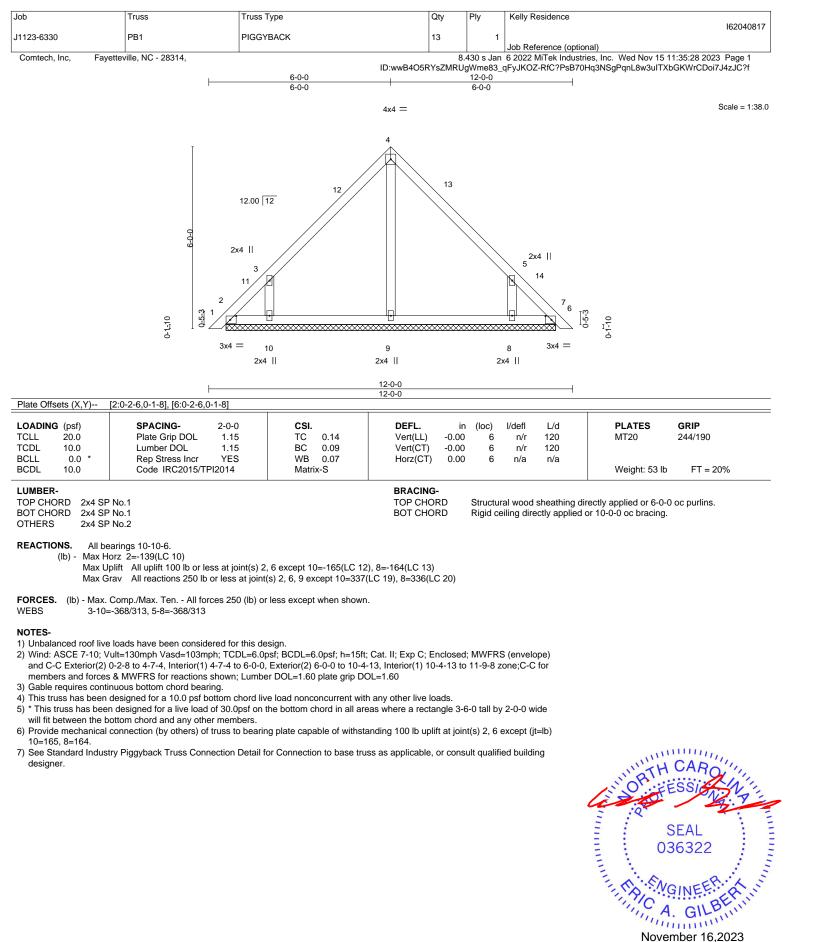
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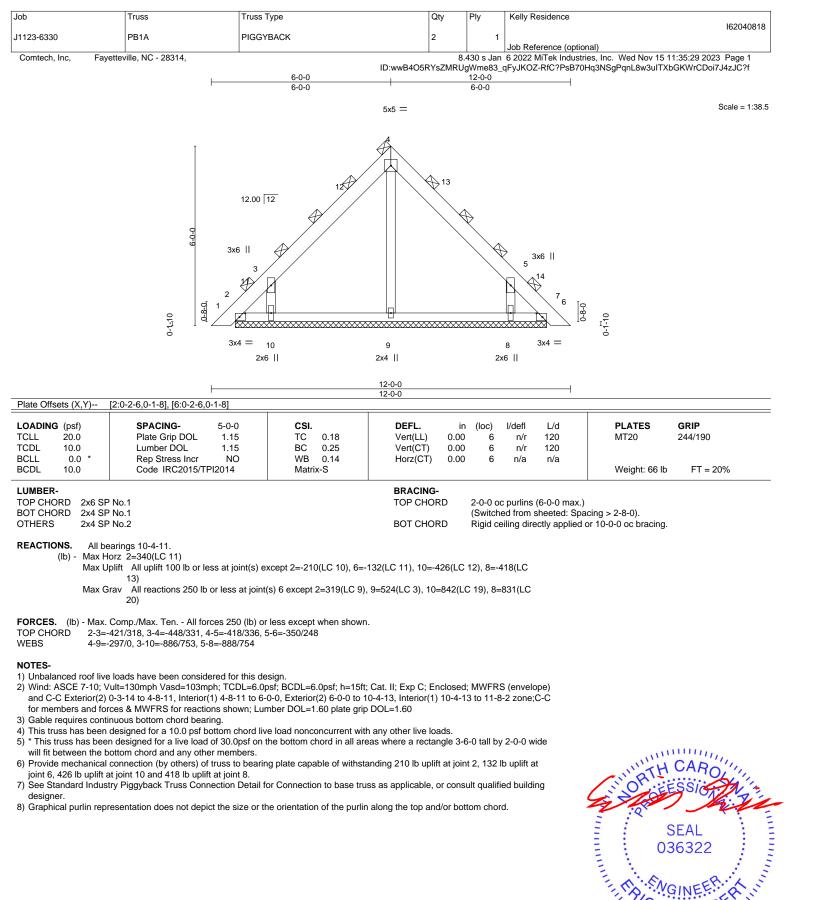




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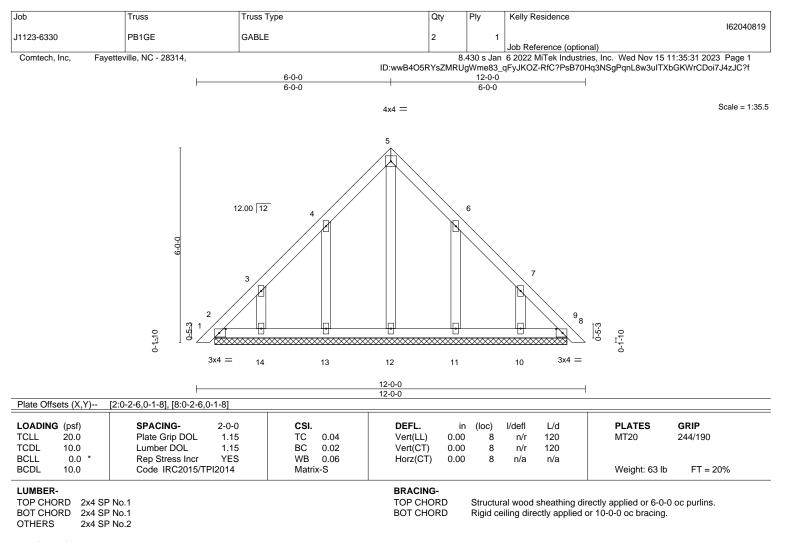
818 Soundside Road



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A MiTek Affiliat

November 16,2023



## REACTIONS. All bearings 10-10-6.

(lb) - Max Horz 2=-174(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-148(LC 12), 14=-139(LC 12), 11=-147(LC 13), 10=-138(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

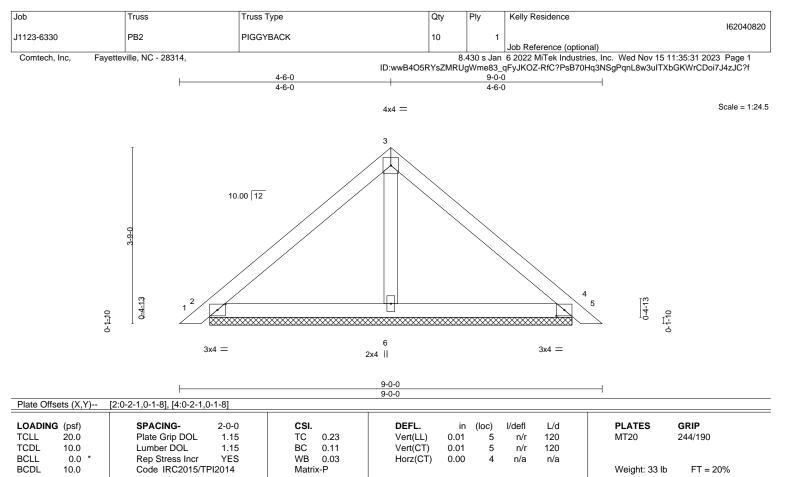
#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C 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) 2, 8 except (jt=lb) 13=148, 14=139, 11=147, 10=138.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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A MiTek A 818 Soundside Road Edenton, NC 27932



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

**REACTIONS.** (size) 2=7-8-9, 4=7-8-9, 6=7-8-9

Max Horz 2=-85(LC 10)

Max Uplift 2=-34(LC 12), 4=-41(LC 13) Max Grav 2=205(LC 1), 4=205(LC 1), 6=257(LC 1)

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

#### NOTES-

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

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

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

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

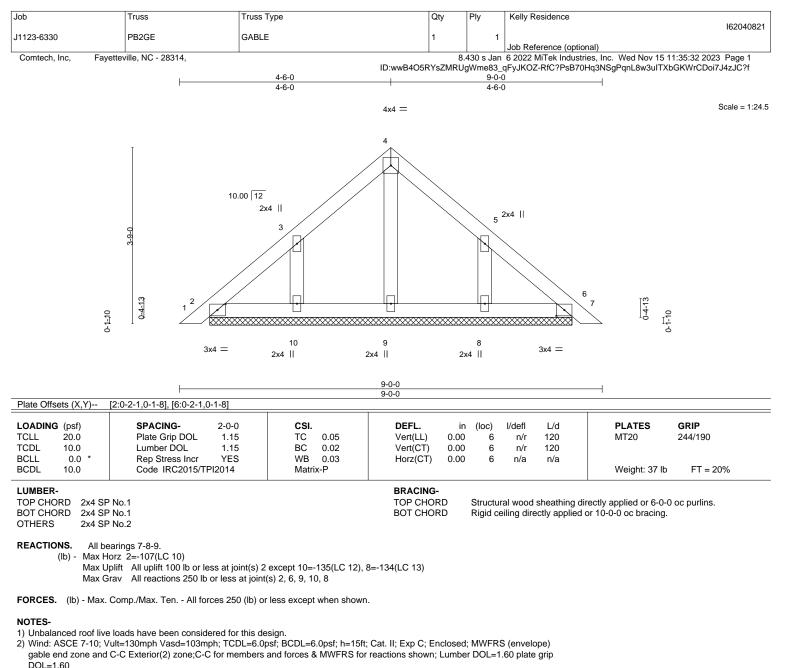


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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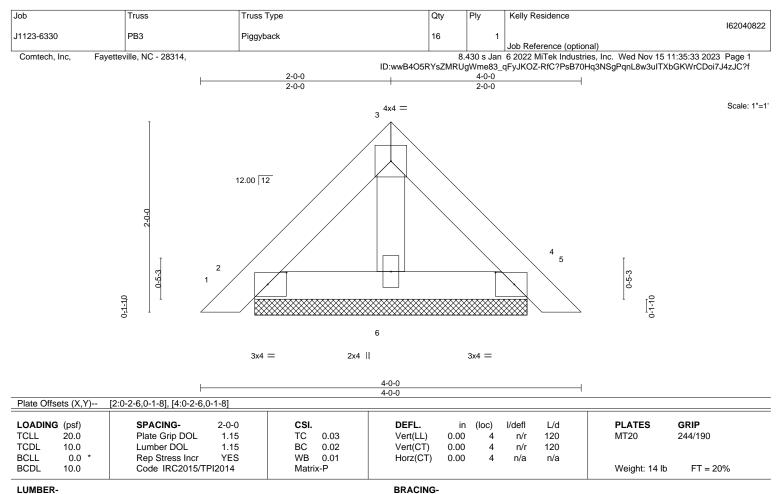
 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=135, 8=134.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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TOP CHORD

BOT CHORD

### LUMBER-

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

2x4 SP No.2

REACTIONS. (size) 2=2-10-6, 4=2-10-6, 6=2-10-6 Max Horz 2=-54(LC 10) Max Uplift 2=-32(LC 12), 4=-37(LC 13) Max Grav 2=94(LC 1), 4=94(LC 1), 6=88(LC 3)

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

#### NOTES-

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

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

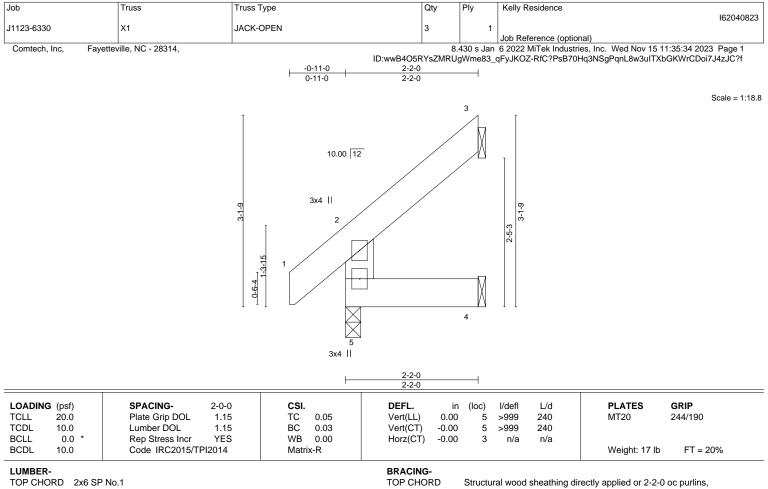
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

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

TOP CHORD

BOT CHORD

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

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

Max Horz 5=75(LC 12) Max Uplift 3=-48(LC 12), 4=-24(LC 9)

Max Grav 5=160(LC 1), 3=52(LC 19), 4=34(LC 3)

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

## NOTES-

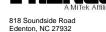
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 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.

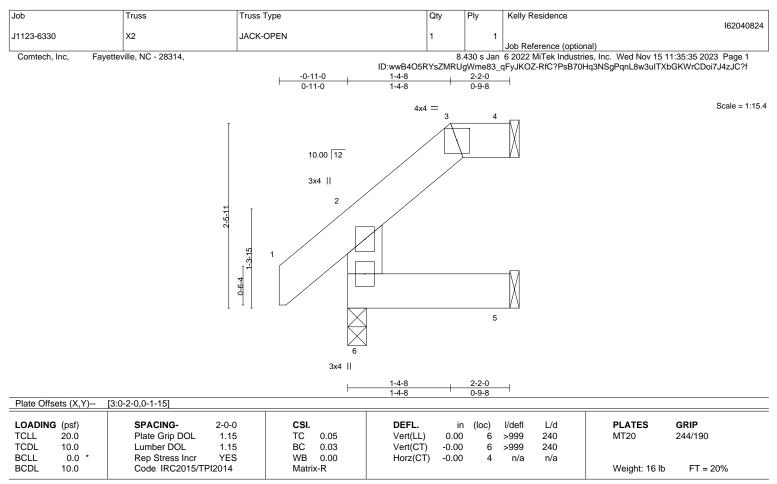
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.



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## LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

BRACING-TOP CHORD

----

BOT CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-0, 4=Mechanical, 5=Mechanical Max Horz 6=57(LC 12) Max Uplift 6=-4(LC 9), 4=-26(LC 9), 5=-20(LC 9) Max Grav 6=160(LC 1), 4=40(LC 1), 5=34(LC 3)

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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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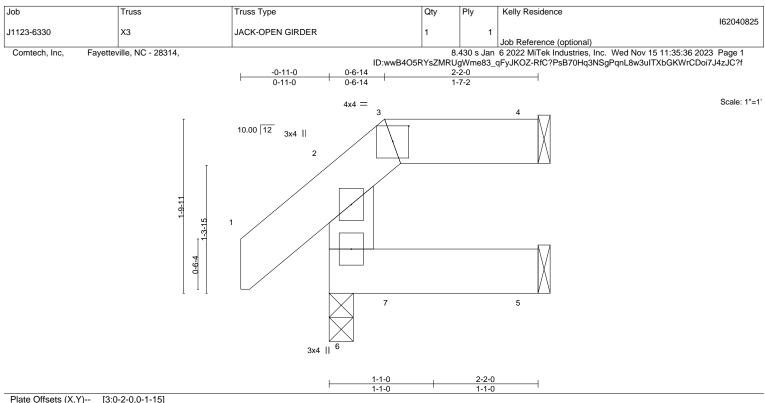


Plate Offsets (X,Y) [3:0-2-0,0-1-15]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-R						Weight: 16 lb	FT = 20%

## LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-0, 4=Mechanical, 5=Mechanical Max Horz 6=35(LC 8) Max Uplift 6=-44(LC 5), 4=-26(LC 5), 5=-18(LC 5) Max Grav 6=181(LC 1), 4=54(LC 20), 5=40(LC 3)

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); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 32 lb down and 46 lb up at 0-7-14 on top chord, and 26 lb down and 29 lb up at 0-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20

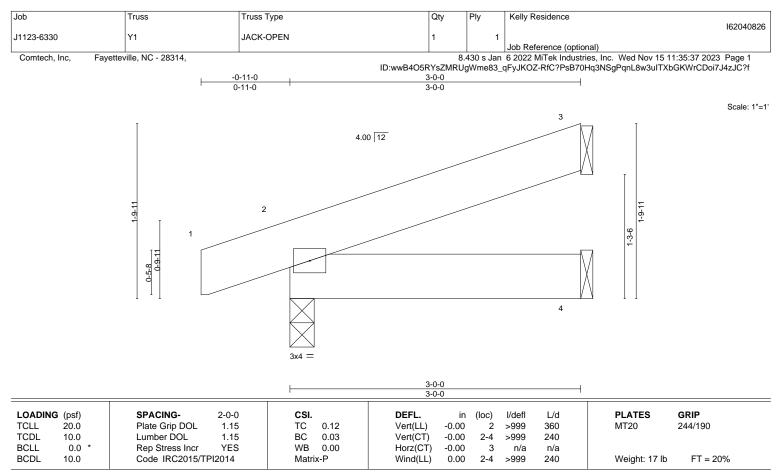
Concentrated Loads (lb)

Vert: 3=-14(F) 7=-13(F)



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#### LUMBER-

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical Max Horz 2=42(LC 12) Max Uplift 3=-36(LC 12), 2=-76(LC 8), 4=-14(LC 8) Max Grav 3=74(LC 1), 2=184(LC 1), 4=56(LC 3)

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

#### 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) zone; porch left exposed; 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) 3, 2, 4.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)



