

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J1221-6805
Regency / 5 North Farm / Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E16501343 thru E16501375

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

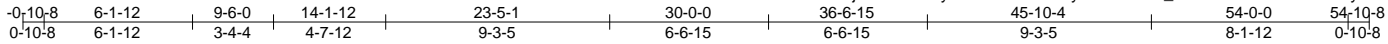
North Carolina COA: C-0844



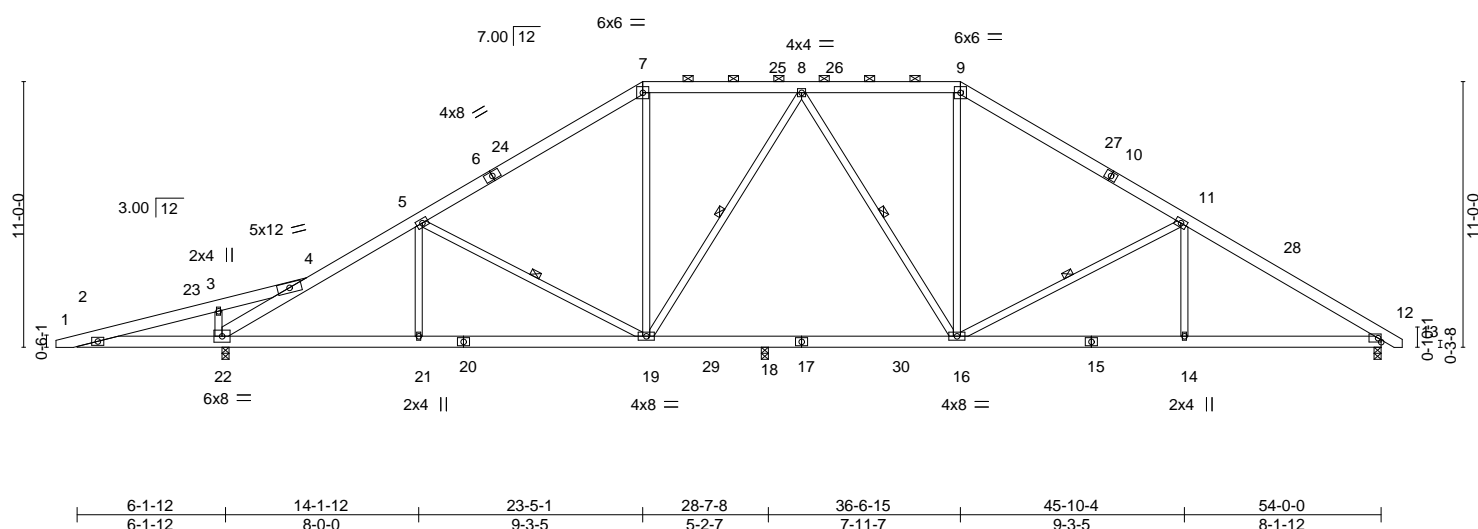
December 29, 2021

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.



Scale: 1/8"=1'



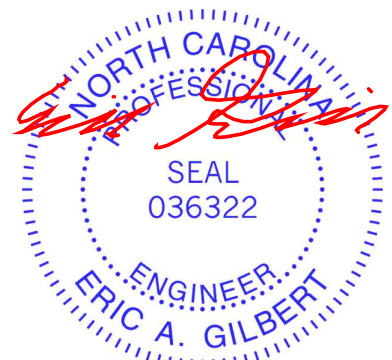
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.13 19-21 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.29 19-21 >928 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 19-21 >999 240	Weight: 391 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except 2-0-0 oc purlins (5-9-15 max.): 4-22, 7-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-19, 8-19, 8-16, 11-16

REACTIONS. (size) 22=0-3-8, 12=0-3-8, 18=0-3-8
 Max Horz 22=255(LC 11)
 Max Uplift 22=-168(LC 12), 12=-116(LC 13)
 Max Grav 22=2292(LC 1), 12=1797(LC 1), 18=602(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-748/770, 3-4=-683/741, 4-22=-3294/1075, 4-5=-2563/522, 5-7=-2084/591, 7-8=-1690/603, 8-9=-1748/609, 9-11=-2170/627, 11-12=-2899/655
 BOT CHORD 2-22=-697/757, 21-22=-289/2121, 19-21=-289/2121, 18-19=-250/1831, 16-18=-250/1831, 14-16=-428/2357, 12-14=-428/2357
 WEBS 5-21=0/356, 5-19=-691/180, 7-19=-37/507, 8-19=-430/218, 8-16=-333/229, 9-16=-81/561, 11-16=-826/271, 11-14=0/398, 3-22=-341/190

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-9-14, Interior(1) 28-9-14 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever 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) All plates are 4x6 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 22=168, 12=116.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 29, 2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501344
J1221-6805	A1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:36:53 2021 Page 1

ID:mHVptvPriWfejLZnULY80lyxYfS-iFEObRyF1ZapkfNYuS05iIRINifaav3MzQz1BPY4PMO

36-6-15 54-0-0 54-10-8
 0-10-8 9-6-0 23-5-1 13-1-14 17-5-1 0-10-8

Scale = 1:97.4

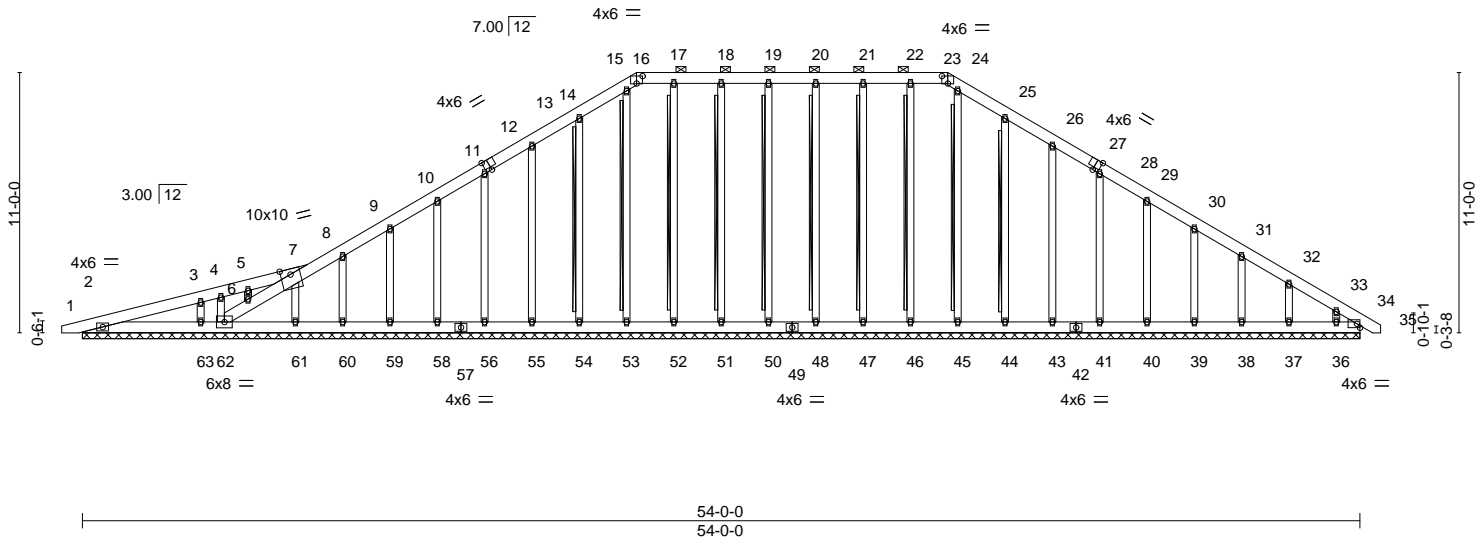


Plate Offsets (X,Y)-- [12:0-2-14,Edge], [16:0-3-0,0-3-12], [23:0-3-0,0-3-12], [27:0-2-14,Edge]

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 0.10	Vert(LL)	-0.00	34	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	34	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	34	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 511 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-62, 16-23.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 2-63,62-63.
 WEBS T-Brace: 2x4 SPF No.2 - 18-51, 17-52, 15-53, 14-54, 19-50, 20-48, 21-47, 22-46, 24-45, 25-44
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. All bearings 54-0-0.
 (lb) - Max Horz 2=326(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 62, 34, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 50, 48, 47, 46, 44, 43, 41, 40, 39, 38, 37 except 63=-136(LC 8), 36=-122(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 62, 34, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 50, 48, 47, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36 except 63=459(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 13-14=-210/269, 14-15=-259/303, 15-16=-239/277, 16-17=-245/290, 17-18=-245/290, 18-19=-245/290, 19-20=-245/290, 20-21=-245/290, 21-22=-245/290, 22-23=-245/290, 23-24=-239/277, 24-25=-259/297, 33-34=-261/183
 WEBS 3-63=-315/369

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-3 to 5-0-0, Exterior(2) 5-0-0 to 23-5-1. Corner(3) 23-5-1 to 29-0-0, Exterior(2) 29-0-0 to 36-6-15, Corner(3) 36-6-15 to 41-11-12, Exterior(2) 41-11-12 to 54-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 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, 62, 34, 51, 52, 58, 59, 60, 61, 50, 48, 47, 46, 44, 43, 41, 40, 39, 38, 37 except (jt=lb) 63=136, 36=122.



December 29, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501344
J1221-6805	A1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:36:54 2021 Page 2
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NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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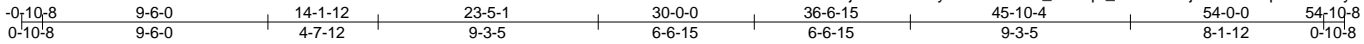


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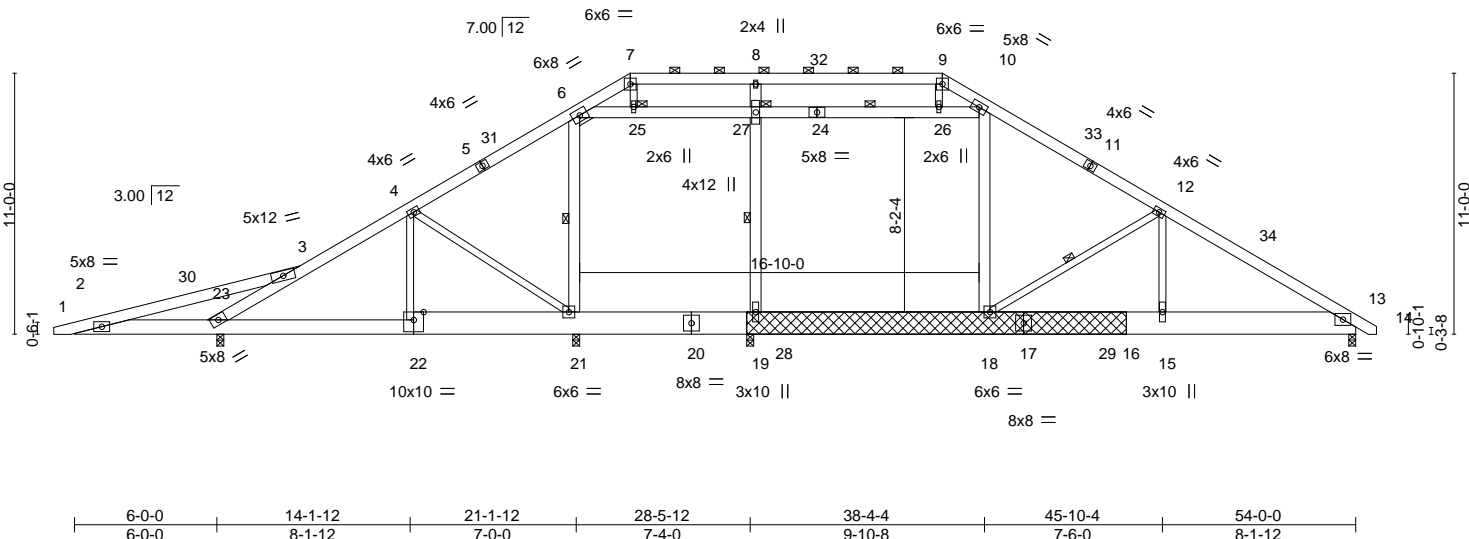
Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501345
J1221-6805	A2	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:36:55 2021 Page 1

ID:mHVPtvPrIwfeJLznULY80lyxYfS-eeL807_VYBqX_zXx?s3ZnjXZ0VC32ipfQkS8Gly4PMM



Scale = 1:97.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.09 15-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.20 15-18 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 15-18 >999 240	Weight: 682 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-23, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-22: 2x8 SP No.1, 20-22: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23.
WEBS 2x6 SP No.1 *Except* 4-21, 12-18, 12-15, 4-22, 7-25, 9-26: 2x4 SP No.2, 6-6: 2x4 SP No.3	WEBS 1 Row at midpt 12-18, 6-21, 10-27, 19-27
OTHERS 2x12 SP 2400F 2.0E	JOINTS 1 Brace at Jt(s): 25, 27
LBR SCAB 16-19 2x12 SP 2400F 2.0E both sides	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 23=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 21=-198(LC 9), 23=-135(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 21=496(LC 24), 19=2361(LC 2), 23=1839(LC 1), 13=1607(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-869/1036, 3-23=-2667/751, 3-4=-1827/0, 4-6=-1618/86, 6-7=-460/55, 7-8=-348/45, 8-9=-348/45, 9-10=-490/67, 10-12=-1595/98, 12-13=-2574/135
 BOT CHORD 2-23=-942/902, 22-23=0/1521, 21-22=0/1521, 19-21=0/1251, 18-19=0/1251, 15-18=0/2085, 13-15=0/2085
 WEBS 4-21=-453/157, 12-18=-1039/250, 12-15=0/622, 6-21=-201/408, 10-18=-30/257, 6-25=-1090/169, 25-27=-1083/172, 26-27=-1083/172, 10-26=-1104/164, 8-27=-514/249, 19-27=-799/71

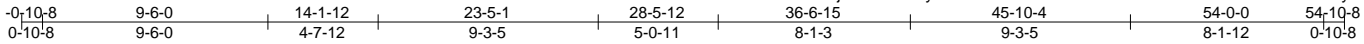
- NOTES-**
- 1) Attached 16-0-0 scab 16 to 19, both face(s) 2x12 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-4-8 from end at joint 19, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 14-0-0 from end at joint 19, nail 2 row(s) at 7" o.c. for 2-0-0.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Provide adequate drainage to prevent water ponding.
 - 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) Ceiling dead load (10.0 psf) on member(s). 6-25, 25-27, 26-27, 10-26; Wall dead load (5.0psf) on member(s). 6-21, 10-18, 19-27
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 18-19
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 21 and 135 lb uplift at joint 23.
 - 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.



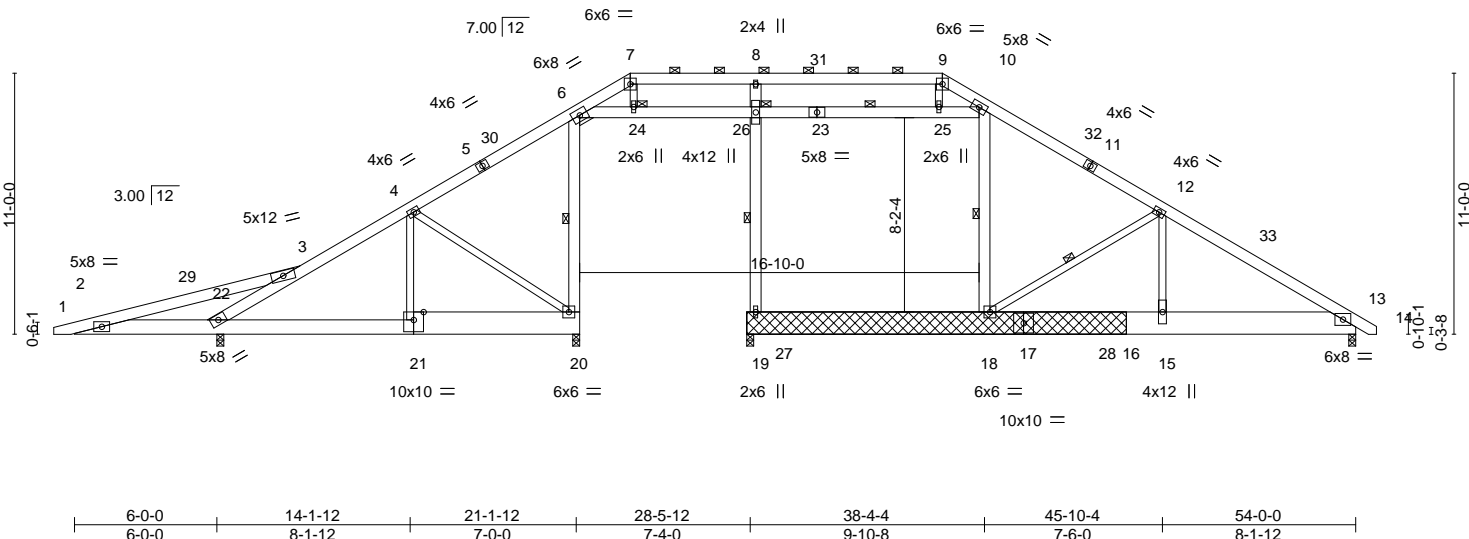
December 29, 2021

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Scale = 1:97.1



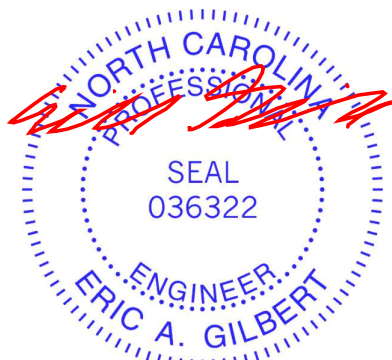
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.26	18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.57	15-18	>531	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.32	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	15-18	>999	240	Weight: 648 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-7 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 3-22, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 20-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.
WEBS 2x6 SP No.1 *Except* 4-20,12-18,12-15,4-21,7-24,9-25: 2x4 SP No.2, 6-6: 2x4 SP No.3	WEBS 1 Row at midpt 12-18, 6-20, 10-18, 10-26, 19-26
OTHERS 2x12 SP No.1	JOINTS 1 Brace at Jt(s): 24, 26
LBR SCAB 16-19 2x12 SP No.1 both sides	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 20=162(LC 9), 22=310(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 20=714(LC 20), 19=2349(LC 27), 22=1202(LC 24), 13=1201(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-857/1080, 3-22=-1527/974, 3-4=-654/263, 4-6=-330/340, 6-7=-23/447, 7-8=0/427, 8-9=0/427, 9-10=0/434, 10-12=-366/372, 12-13=-1945/282
 BOT CHORD 2-22=-985/890, 21-22=-104/419, 20-21=-101/423, 15-18=-107/1550, 13-15=-107/1550
 WEBS 4-20=-522/125, 12-18=-1846/127, 12-15=0/1385, 6-20=-419/155, 4-21=0/265, 10-18=-509/0, 6-24=-580/291, 24-26=-586/291, 25-26=-586/291, 10-25=-558/294, 8-26=-636/229, 19-26=-1109/22

- NOTES-**
- Attached 16-0-0 scab 16 to 19, both face(s) 2x12 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-4-8 from end at joint 19, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 14-0-0 from end at joint 19, nail 3 row(s) at 4" o.c. for 2-0-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).10-18, 19-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 20=162, 22=310.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



December 29, 2021

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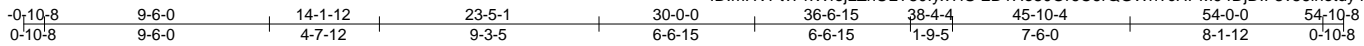


Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501347
J1221-6805	A3	ROOF TRUSS	3	1	Job Reference (optional)	

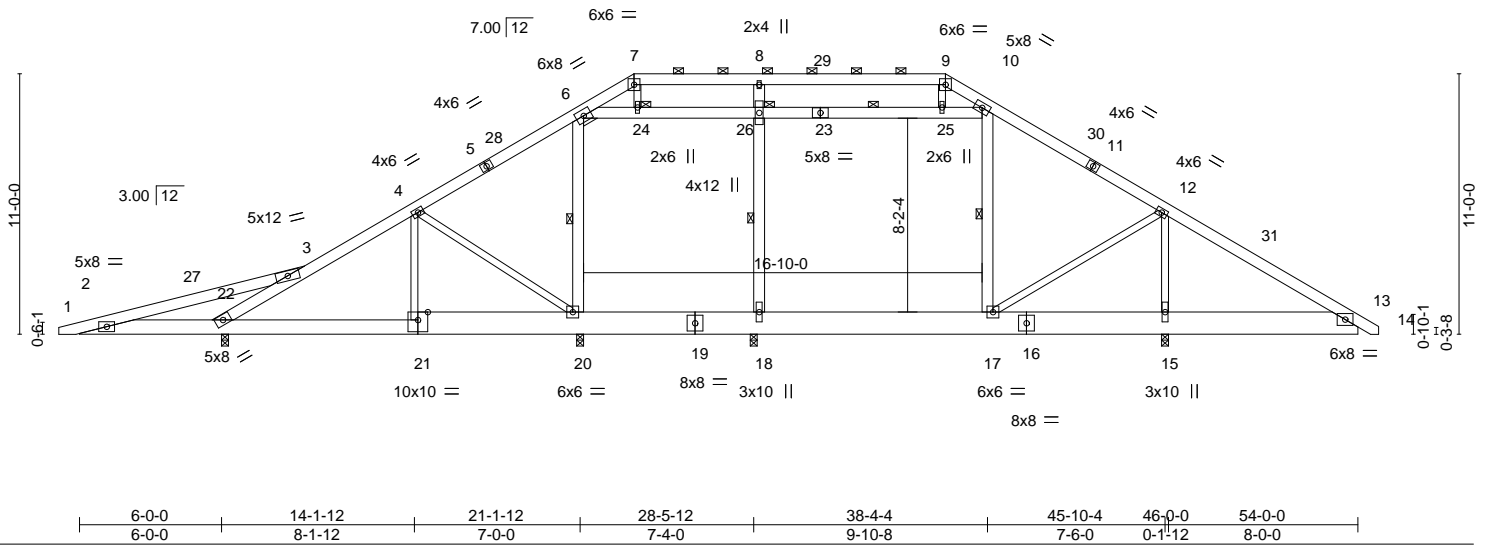
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:36:58 2021 Page 1

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Scale = 1:97.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.03	17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.07	17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.01	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.02	21-22	>999	240		
							Weight: 529 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-22, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 19-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 4-20,12-17,12-15,4-21,7-24,9-25: 2x4 SP No.2, 6-6: 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 10-17, 10-26, 18-26
	JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 20 except 22=172(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 20=984(LC 20), 15=1902(LC 21), 18=1796(LC 27), 22=1408(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-880/1057, 3-22=-1889/537, 3-4=-1033/0, 4-6=-811/20, 6-7=-493/15, 7-8=-362/4, 8-9=-362/4, 9-10=-477/19, 10-12=-793/0, 12-13=-469/617
 BOT CHORD 2-22=-963/912, 21-22=0/905, 20-21=0/908, 18-20=0/610, 17-18=0/610, 15-17=-439/506, 13-15=-439/506
 WEBS 4-20=-490/154, 12-17=-12/1079, 12-15=-1594/335, 6-20=-435/302, 10-17=-486/202, 6-24=-367/79, 24-26=-357/83, 25-26=-357/83, 10-25=-374/79, 8-26=-489/249, 18-26=-737/73

- 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) -0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and right 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) Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).6-20, 10-17, 18-26
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 22=172.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Attic room checked for L/360 deflection.



December 29,2021

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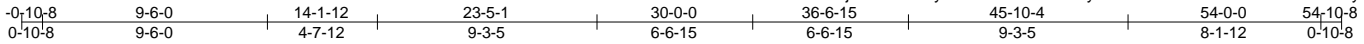
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

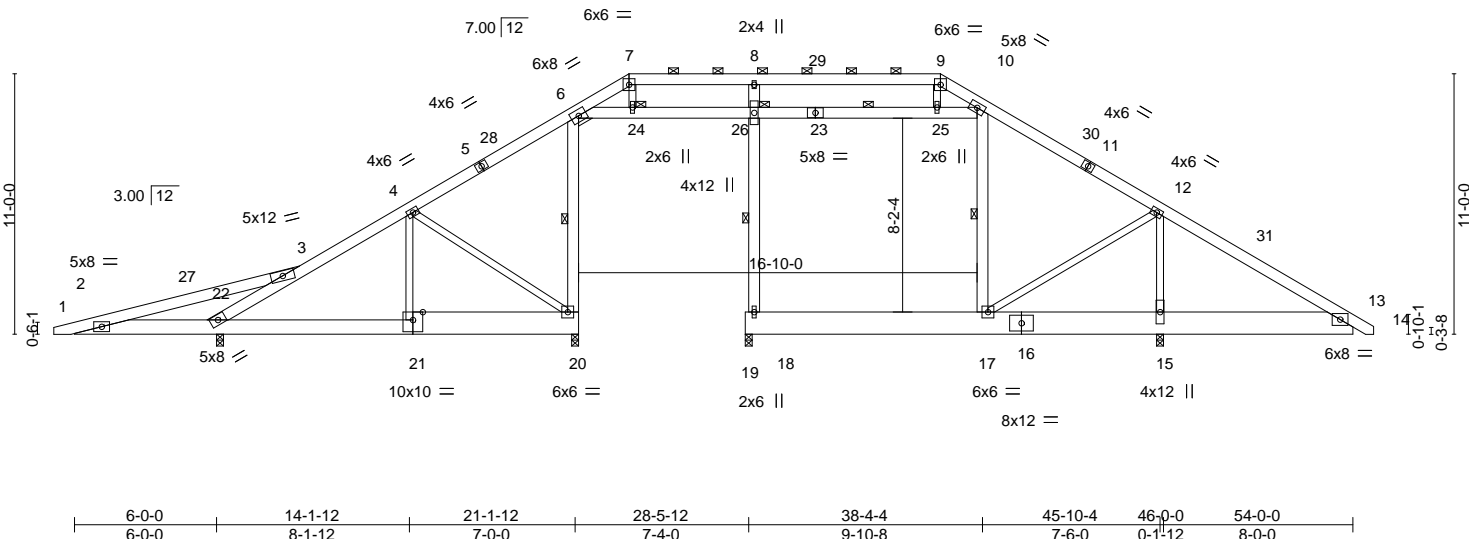
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932



Scale = 1:97.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.21 17-18 >982 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.42 17-18 >493 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.48 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.09 17 >999 240	Weight: 495 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-22, 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* 2-21: 2x8 SP No.1, 20-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 4-20,12-17,12-15,4-21,7-24,9-25: 2x4 SP No.2, 6-6: 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 10-17, 10-26, 18-26
	JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 22=254(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 20=148(LC 9), 15=145(LC 13), 22=309(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 20=782(LC 20), 15=1672(LC 25), 18=1737(LC 23), 22=1203(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-857/1078, 3-22=-1527/972, 3-4=-655/261, 4-6=-329/339, 6-7=-190/383,
 7-8=-118/342, 8-9=-119/342, 9-10=-178/421, 10-12=-365/358, 12-13=-560/541
 BOT CHORD 2-22=-983/890, 21-22=-103/421, 20-21=-100/425, 15-17=-403/588, 13-15=-403/588
 WEBS 4-20=-528/124, 12-17=-700/480, 12-15=-1085/1002, 6-20=-463/156, 4-21=0/264,
 10-17=-583/57, 6-24=-285/181, 24-26=-280/177, 25-26=-280/177, 10-25=-274/204,
 8-26=-561/176, 18-26=-946/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).10-17, 18-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 20, 145 lb uplift at joint 15 and 309 lb uplift at joint 22.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



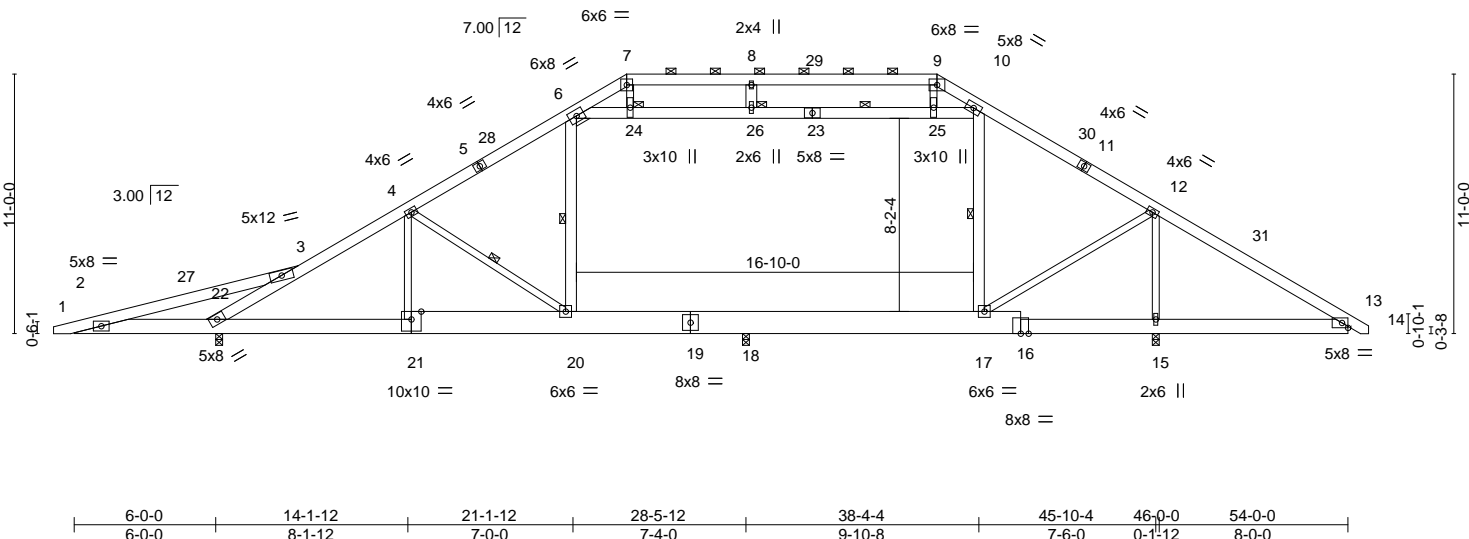
December 29, 2021

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Scale = 1:97.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.24 20-21 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.50 20-21 >543 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 15 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.21 20-21 >999 240	Weight: 486 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except
BOT CHORD 2x8 SP No.1 *Except*	2-0-0 oc purlins (5-8-1 max.): 3-22, 7-9.
16-19,19-21: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 4-20, 6-20, 10-17, 10-26
6-20,10-17,10-23,6-23,8-26: 2x6 SP No.1, 6-6: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS. (size) 15=0-3-8, 22=0-3-8, 18=0-3-8
 Max Horz 22=255(LC 11)
 Max Uplift 22=-76(LC 8)
 Max Grav 15=2117(LC 25), 22=1831(LC 1), 18=2021(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-877/1037, 3-22=-2743/654, 3-4=-1770/0, 4-6=-1081/12, 6-7=-1587/296,
 7-8=-1386/254, 8-9=-1386/254, 9-10=-1586/289, 10-12=-1048/0, 12-13=-483/718
 BOT CHORD 2-22=-943/910, 21-22=0/1629, 20-21=0/1643, 18-20=0/856, 17-18=0/856,
 15-17=-504/504, 13-15=-504/500
 WEBS 4-20=-1072/189, 12-17=-63/1483, 12-15=-1962/409, 6-20=-599/357, 4-21=0/722,
 10-17=-648/250, 6-24=-311/684, 24-26=-311/730, 25-26=-311/730, 10-25=-322/645,
 7-24=-69/515, 9-25=-2/466

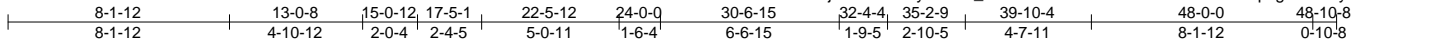
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-3 to 4-10-10, Interior(1) 4-10-10 to 23-5-1, Exterior(2) 23-5-1 to 28-8-8, Interior(1) 28-8-8 to 36-6-15, Exterior(2) 36-6-15 to 41-11-12, Interior(1) 41-11-12 to 54-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 6-24, 24-26, 25-26, 10-25; Wall dead load (5.0psf) on member(s).6-20, 10-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 22.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



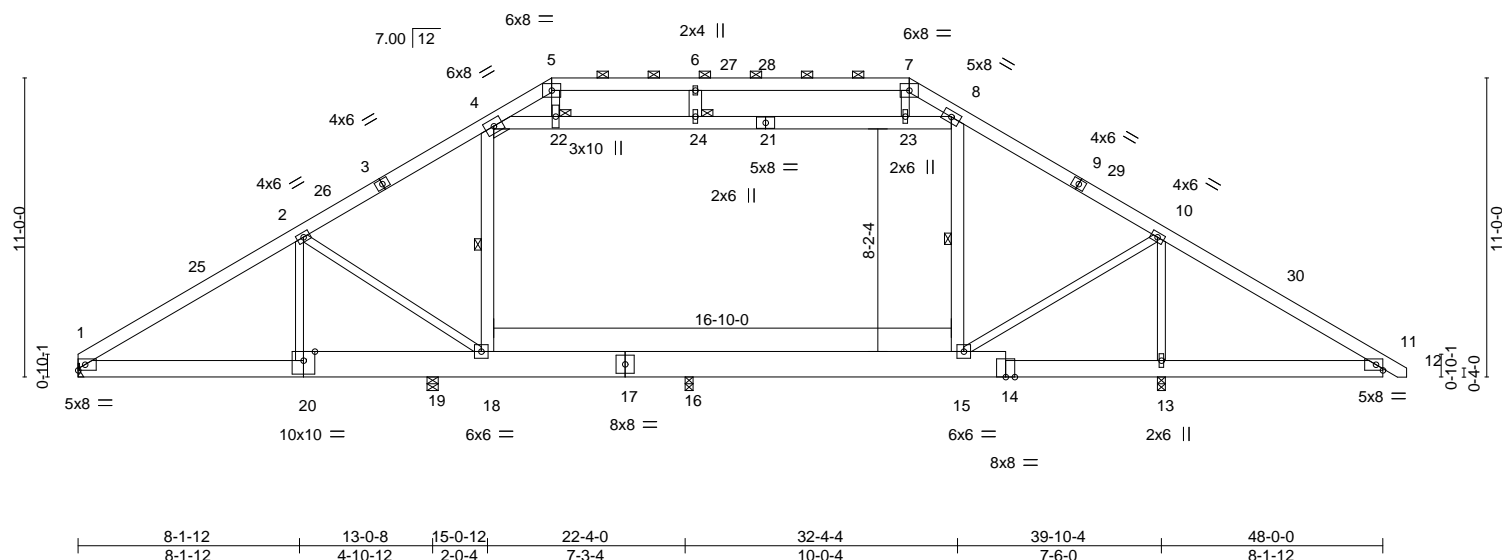
December 29,2021

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Scale = 1:84.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.45	in (loc) l/defl L/d Vert(LL) -0.04 15-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.07 15-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.01 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 1-20 >999 240	Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except 2-0-0 oc purlins (5-7-1 max.): 5-7.
BOT CHORD 2x8 SP No.1 *Except* 14-17,17-20: 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15,11-13.
WEBS 2x4 SP No.2 *Except* 8-15,8-21,4-18,6-24,4-21: 2x6 SP No.1, 4-4: 2x4 SP No.3	WEBS 1 Row at midpt 8-15, 4-18
	JOINTS 1 Brace at Jt(s): 22, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical, 19=0-4-15.
 (lb) - Max Horz 1=253(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 19=103(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 1=890(LC 21), 13=2168(LC 25), 19=1148(LC 20), 16=1387(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1367/0, 2-4=-1075/46, 4-5=-1659/339, 5-6=-1417/296, 6-7=-1417/296,
 7-8=-1566/321, 8-10=-1038/0, 10-11=-471/677
 BOT CHORD 1-20=0/1047, 19-20=0/1049, 18-19=0/1044, 16-18=0/825, 15-16=0/825, 13-15=-468/495,
 11-13=-468/488
 WEBS 2-18=-475/203, 10-13=-1938/405, 8-15=-592/241, 10-15=-51/1408, 4-22=-315/747,
 22-24=-317/798, 23-24=-317/798, 8-23=-329/732, 5-22=-92/578, 7-23=-3/365,
 4-18=-640/357

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-22, 22-24, 23-24, 8-23; Wall dead load (5.0psf) on member(s).8-15, 4-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18, 15-16
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 19.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



December 29, 2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501351
J1221-6805	A6	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:37:03 2021 Page 1

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Scale = 1:84.8

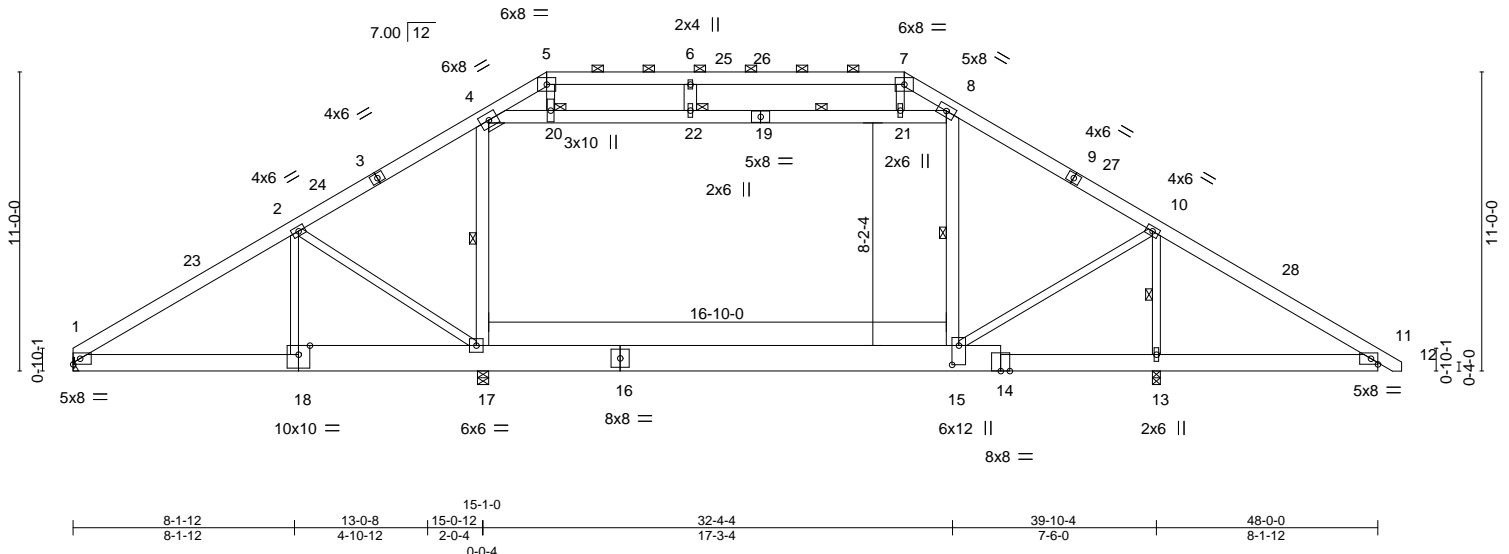


Plate Offsets (X,Y)-- [15:0-8-8,0-3-0]

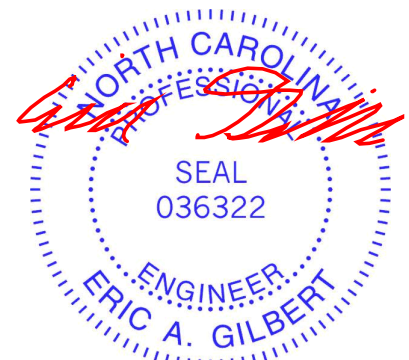
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL)	-0.27	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Horz(CT)	-0.41	15-17	>725		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT)	0.03	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.01	15	>999		
							Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins, except
BOT CHORD 2x8 SP No.1 *Except* 14-16,16-18: 2x12 SP No.1	2-0-0 oc purlins (5-6-4 max.): 5-7.
WEBS 2x4 SP No.2 *Except* 8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1, 4-4: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
	WEBS 1 Row at midpt 10-13, 8-15, 8-22, 4-17
	JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS. (size) 1=Mechanical, 17=0-4-15, 13=0-3-8
 Max Horz 1=-253(LC 8)
 Max Grav 1=1075(LC 21), 17=1777(LC 20), 13=2575(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1690/0, 2-4=-1600/0, 4-5=-1682/325, 5-6=-1447/280, 6-7=-1447/280, 7-8=-1599/304, 8-10=-1563/0, 10-11=-460/698
 BOT CHORD 1-18=0/1373, 17-18=0/1371, 15-17=0/1273, 13-15=-484/489, 11-13=-484/478
 WEBS 2-18=-320/182, 2-17=-504/330, 10-13=-2556/278, 8-15=-466/297, 10-15=0/1994, 4-20=-402/584, 20-22=-403/636, 21-22=-403/636, 8-21=-418/568, 5-20=-91/588, 7-21=0/398, 4-17=-539/410

- 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) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever right 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) Ceiling dead load (10.0 psf) on member(s). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s).8-15, 4-17
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Attic room checked for L/360 deflection.

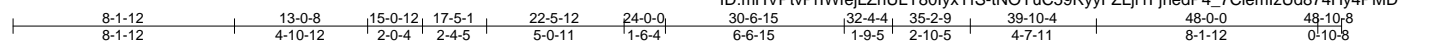


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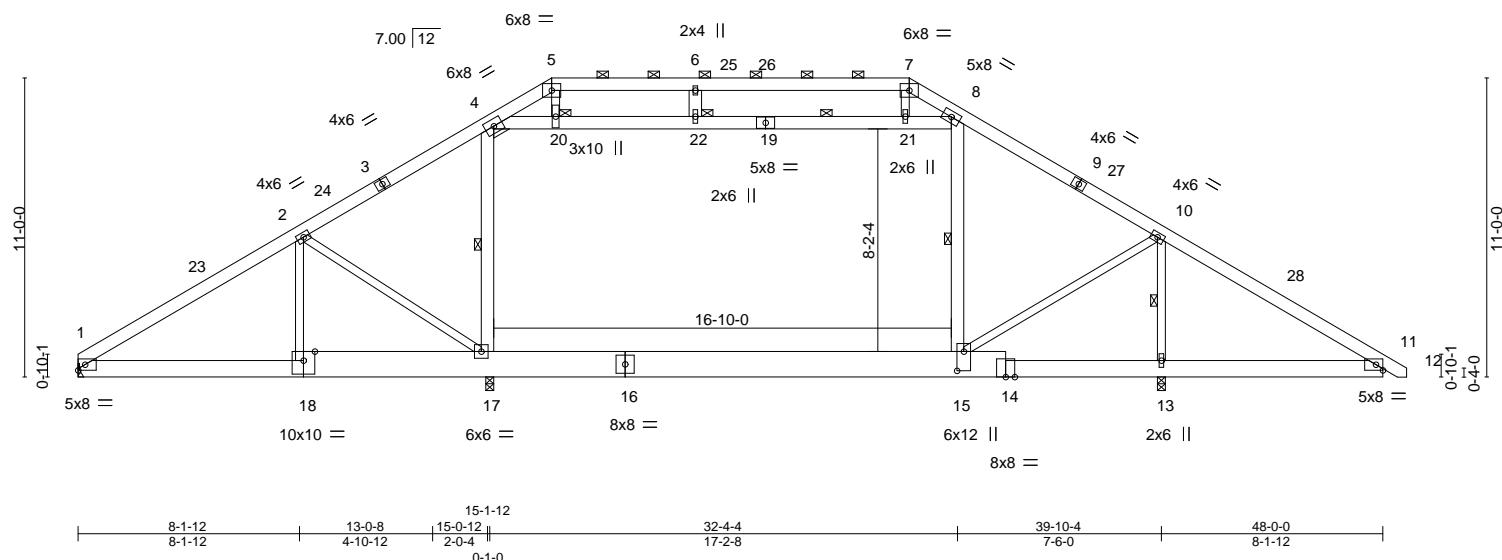
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:37:04 2021 Page 1

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Scale = 1:84.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.27	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Horz(CT) -0.41	15-17	>725	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.03	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	15	>999	240		
							Weight: 442 lb	FT = 20%

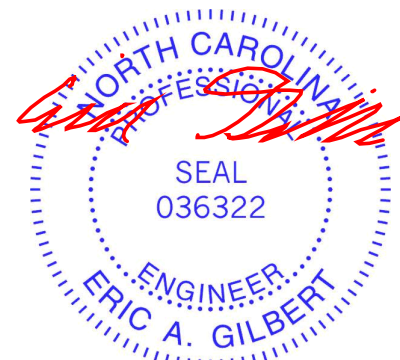
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1 *Except*
 14-16,16-18: 2x12 SP No.1
 WEBS 2x4 SP No.2 *Except*
 8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1, 4-4: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins, except
 2-0-0 oc purlins (5-6-4 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 10-13, 8-15, 8-22, 4-17
 JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS. (size) 1=Mechanical, 17=0-3-8, 13=0-3-8
 Max Horz 1=-253(LC 8)
 Max Grav 1=1075(LC 21), 17=1777(LC 20), 13=2575(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1690/0, 2-4=-1600/0, 4-5=-1682/325, 5-6=-1447/280, 6-7=-1447/280,
 7-8=-1599/304, 8-10=-1563/0, 10-11=-460/698
 BOT CHORD 1-18=0/1373, 17-18=0/1371, 15-17=0/1273, 13-15=-484/489, 11-13=-484/478
 WEBS 2-18=-320/182, 2-17=-504/330, 10-13=-2556/278, 8-15=-466/297, 10-15=0/1994,
 4-20=-402/584, 20-22=-403/636, 21-22=-403/636, 8-21=-418/568, 5-20=-91/588,
 7-21=0/398, 4-17=-539/410

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s).8-15, 4-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Refer to girder(s) for truss to truss connections.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

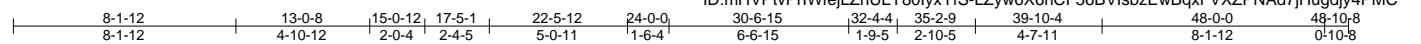


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Scale = 1:84.3

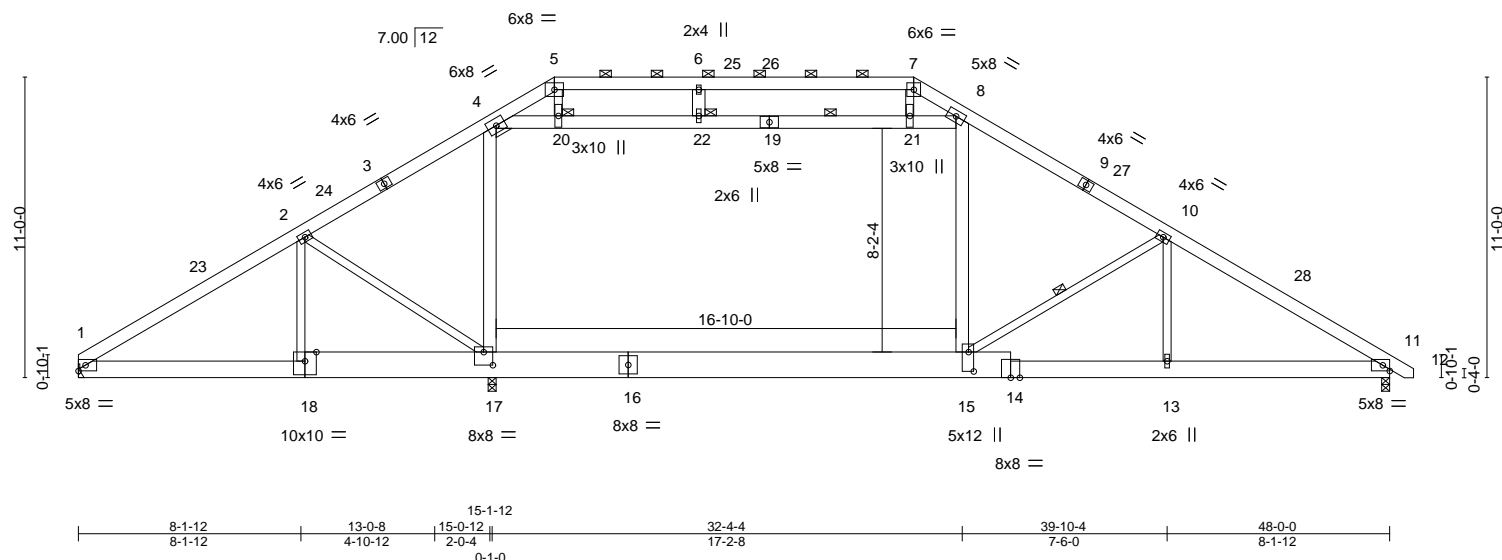


Plate Offsets (X,Y)-- [15:0-8-8,0-2-4], [17:0-4-0,0-5-12]

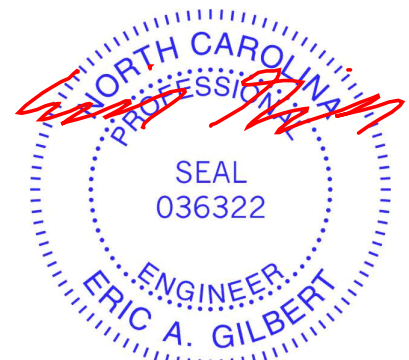
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.31	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.55	15-17	>714	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.09	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	15	>999	240		
							Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins (5-1-4 max.): 5-7.
BOT CHORD 2x8 SP No.1 *Except* 14-16: 2x12 SP No.1, 16-18: 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-15,8-19,4-17,6-22,4-19: 2x6 SP No.1, 4-4: 2x4 SP No.3	WEBS 1 Row at midpt 10-15, 8-22
	JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS. (size) 1=Mechanical, 17=0-3-8, 11=0-3-8
 Max Horz 1=-253(LC 10)
 Max Uplift 17=-145(LC 9)
 Max Grav 1=2123(LC 21), 17=977(LC 26), 11=2512(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3664/207, 2-4=-3801/124, 4-5=-1898/356, 5-6=-1681/314, 6-7=-1680/314,
 7-8=-1875/344, 8-10=-3757/110, 10-11=-4167/181
 BOT CHORD 1-18=-42/2962, 17-18=-41/2956, 15-17=0/3121, 13-15=-40/3425, 11-13=-40/3422
 WEBS 2-18=-486/63, 2-17=-261/475, 10-13=-59/304, 8-15=0/1121, 10-15=-626/293,
 4-20=-1863/0, 20-22=-1818/0, 21-22=-1818/0, 8-21=-1923/0, 5-20=-96/640,
 7-21=-21/584, 4-17=0/1091

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-20, 20-22, 21-22, 8-21; Wall dead load (5.0psf) on member(s). 8-15, 4-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 17.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



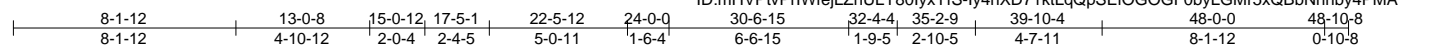
December 29, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932



Scale = 1:84.3

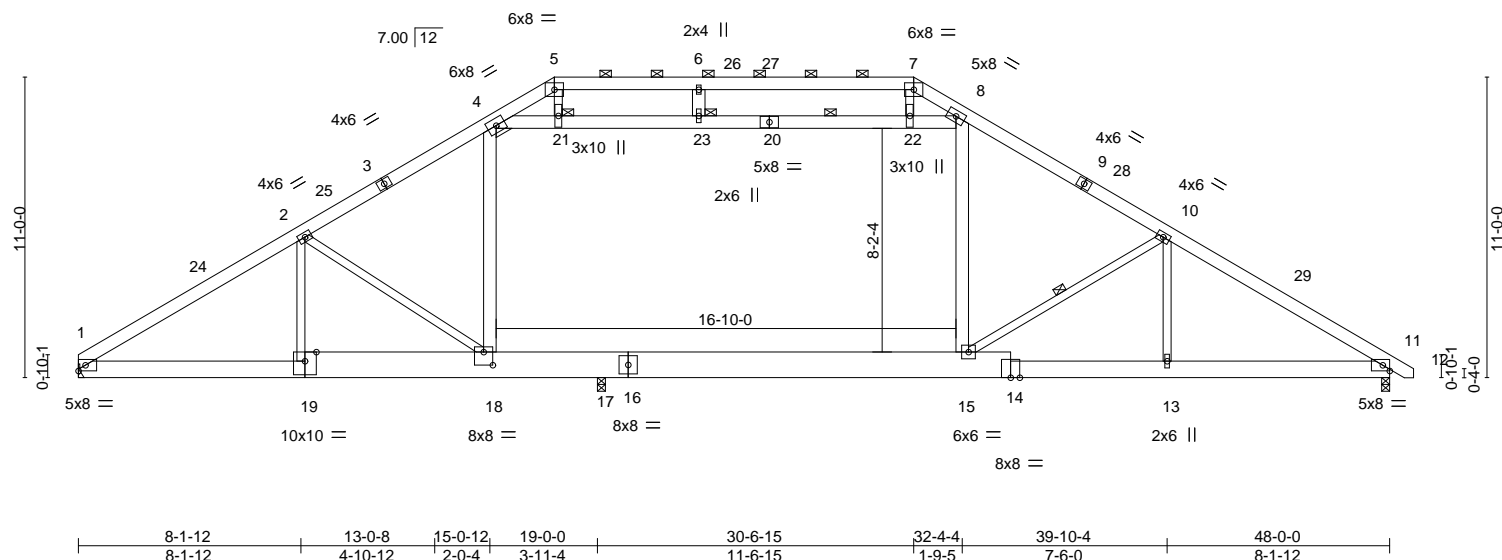


Plate Offsets (X,Y)--	[18:0-4-0,0-5-12]
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LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.30	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.54	15-17	>642	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.08	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.13	15	>999	240	Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except
BOT CHORD 2x8 SP No.1 *Except* 14-16,16-19: 2x12 SP No.1	2-0-0 oc purlins (5-1-12 max.): 5-7.
WEBS 2x4 SP No.2 *Except* 8-15,8-20,4-18,6-23,4-20: 2x6 SP No.1, 4-4: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
	WEBS 1 Row at midpt 10-15, 8-23
	JOINTS 1 Brace at Jt(s): 21, 23

REACTIONS. (size) 1=Mechanical, 17=0-3-8, 11=0-3-8
 Max Horz 1=-253(LC 8)
 Max Uplift 17=-29(LC 9)
 Max Grav 1=1956(LC 2), 17=1300(LC 20), 11=2314(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3329/277, 2-4=-3273/211, 4-5=-1867/363, 5-6=-1647/325, 6-7=-1647/325,
 7-8=-1825/360, 8-10=-3252/193, 10-11=-3853/231
 BOT CHORD 1-19=-101/2739, 18-19=-99/2739, 17-18=0/2685, 15-17=0/2685, 13-15=-82/3157,
 11-13=-82/3157
 WEBS 2-19=-259/231, 2-18=-559/343, 10-13=0/382, 8-15=0/862, 10-15=-719/256,
 4-21=-1490/14, 21-23=-1444/20, 22-23=-1444/20, 8-22=-1531/12, 5-21=-88/654,
 7-22=-37/520, 4-18=-40/812

- 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) 0-1-4 to 4-10-14, Interior(1) 4-10-14 to 17-5-1, Exterior(2) 17-5-1 to 24-2-8, Interior(1) 24-2-8 to 30-6-15, Exterior(2) 30-6-15 to 37-4-6, Interior(1) 37-4-6 to 48-8-8 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.
 - 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). 4-21, 21-23, 22-23, 8-22; Wall dead load (5.0psf) on member(s).8-15, 4-18
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 17.
 - 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.

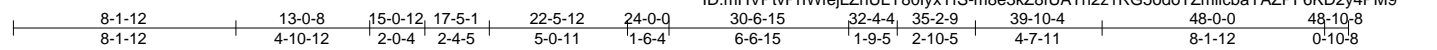


December 29,2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501355
J1221-6805	A9GE	ROOF TRUSS	1	1	Job Reference (optional)	

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ID:mHVpTvPrIwFfejLZnULY80lyxYfS-m8e3kZ8fUAh2z1RG5odoTZmIcbayAZPF6KD2y4PM9



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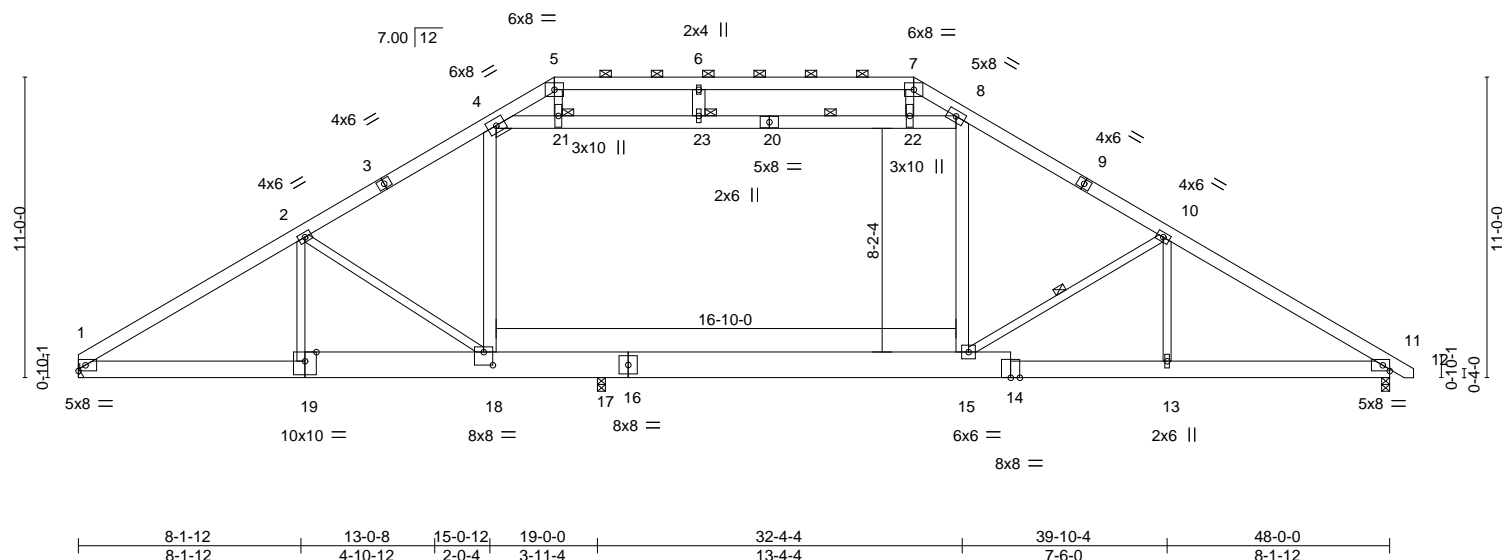


Plate Offsets (X,Y)-- [18:0-4-0,0-5-12]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.30	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.54	15-17	>642	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.08	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.16	13-15	>999	240	Weight: 442 lb	FT = 20%

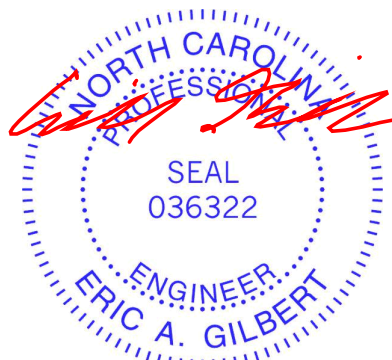
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
14-16,16-19: 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15,8-20,4-18,6-23,4-20: 2x6 SP No.1, 4-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except
2-0-0 oc purlins (5-1-12 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
WEBS 1 Row at midpt 10-15, 8-23
JOINTS 1 Brace at Jt(s): 21, 23

REACTIONS. (size) 1=Mechanical, 17=0-3-8, 11=0-3-8
Max Horz 1=-316(LC 8)
Max Uplift 1=-58(LC 13), 17=-119(LC 9), 11=-193(LC 13)
Max Grav 1=1956(LC 2), 17=1328(LC 20), 11=2282(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3329/396, 2-4=-3207/293, 4-5=-1867/437, 5-6=-1647/394, 6-7=-1647/394,
7-8=-1825/438, 8-10=-3225/304, 10-11=-3781/376
BOT CHORD 1-19=-207/2739, 18-19=-206/2739, 17-18=0/2685, 15-17=0/2685, 13-15=-185/3106,
11-13=-185/3106
WEBS 2-19=-259/231, 2-18=-559/540, 10-13=0/382, 8-15=0/882, 10-15=-719/370,
4-21=-1602/214, 21-23=-1561/216, 22-23=-1561/216, 8-22=-1642/217, 5-21=-107/654,
7-22=-44/520, 4-18=-97/865

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-4 to 4-10-14, Exterior(2) 4-10-14 to 17-5-1, Corner(3) 17-5-1 to 22-2-11, Exterior(2) 22-2-11 to 30-6-15, Corner(3) 30-6-15 to 35-4-9, Exterior(2) 35-4-9 to 48-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-21, 21-23, 22-23, 8-22; Wall dead load (5.0psf) on member(s).8-15, 4-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 119 lb uplift at joint 17 and 193 lb uplift at joint 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



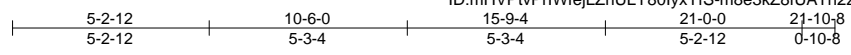
December 29, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501356
J1221-6805	B1	QUEENPOST	2	1	Job Reference (optional)	

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5x5 = Scale = 1:61.3

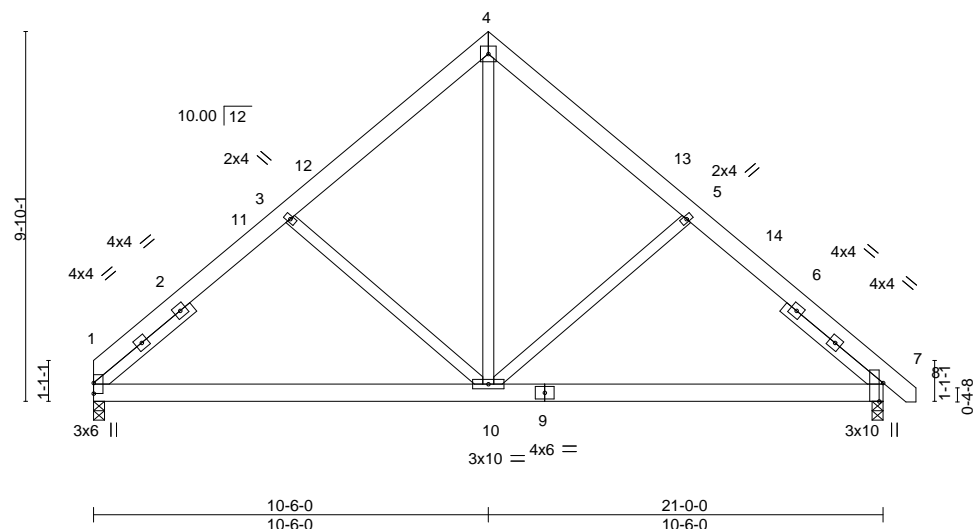


Plate Offsets (X,Y)-- [7:0-5-14,Edge]

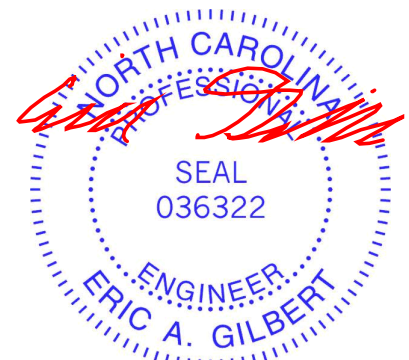
LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	-0.06	1-10	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(CT)	-0.12	1-10	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.29	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.01	10	>999	Weight: 160 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.3 3-4-3, Right 2x4 SP No.3 3-4-3	

REACTIONS. (size) 7=0-3-8, 1=0-3-8
 Max Horz 1=224(LC 8)
 Max Uplift 7=44(LC 13), 1=34(LC 12)
 Max Grav 7=885(LC 1), 1=839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-983/269, 3-4=-796/274, 4-5=-796/270, 5-7=-983/263
 BOT CHORD 1-10=-85/738, 7-10=-79/669
 WEBS 3-10=-329/237, 4-10=-169/676, 5-10=-331/235

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-6-0, Exterior(2) 10-6-0 to 14-10-13, Interior(1) 14-10-13 to 21-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7 and 34 lb uplift at joint 1.



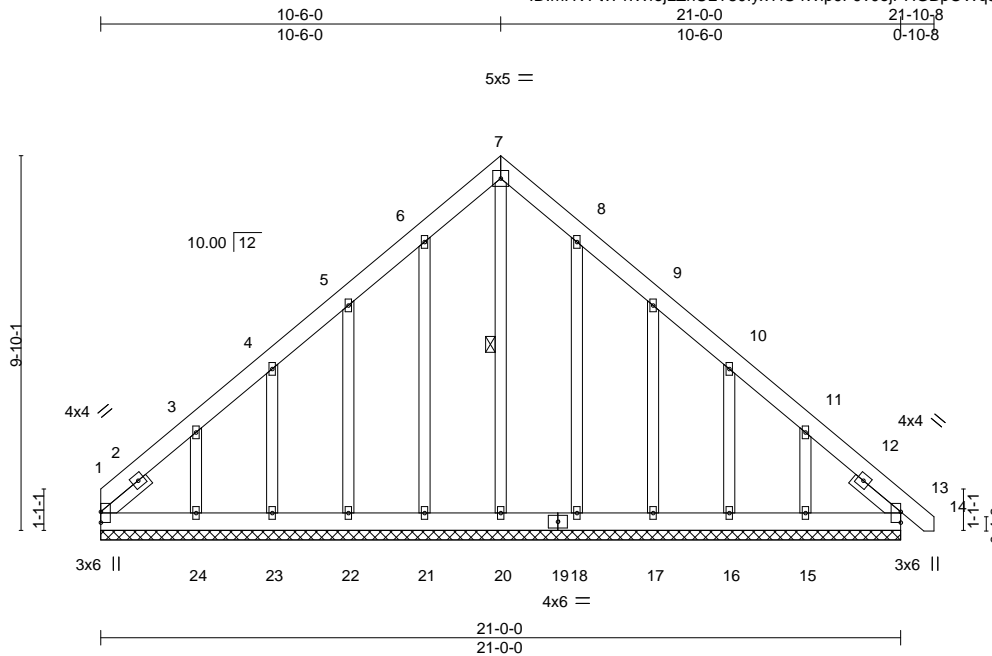
December 29, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501357
J1221-6805	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:37:10 2021 Page 1
 ID:mHVptvPrIWfejLZnULY80lyxYfS-iWlp9F9v0ojPHGBpOWq5uueDpYT_2bSstZbRlwy4PM7



Scale = 1:60.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	13	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 191 lb	FT = 20%

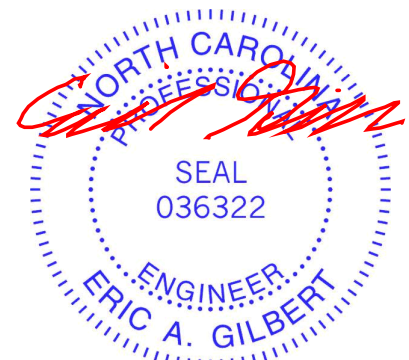
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 1-6-10, Right 2x4 SP No.2 1-6-10

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-20

REACTIONS. All bearings 21-0-0.
 (lb) - Max Horz 1=-280(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 1, 21, 23, 18, 16 except 22=-127(LC 12), 24=-227(LC 12), 17=-129(LC 13), 15=-211(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 1, 20, 21, 22, 23, 18, 17, 16, 15 except 24=269(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-304/215, 11-13=-250/141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-6-0, Exterior(2) 4-6-0 to 10-6-0, Corner(3) 10-6-0 to 14-10-13, Exterior(2) 14-10-13 to 21-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 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) 13, 1, 21, 23, 18, 16 except (jt=lb) 22=127, 24=227, 17=129, 15=211.



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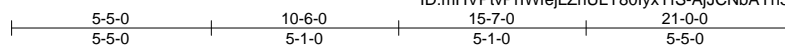


Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501358
J1221-6805	B1GR	FINK	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:mHVptvPrIWfejLZnULY80lyxYfS-AjJCNbAYn5rFvQI?xELKQ5BGBYIm?s?5DL_qNy4PM6



5x8 ||

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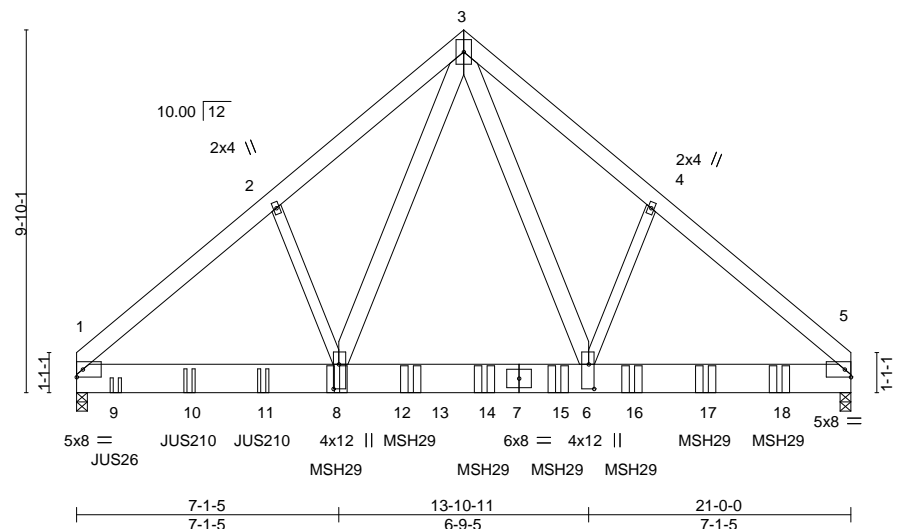


Plate Offsets (X,Y)--	[6:0-8-0,0-1-12], [8:0-8-0,0-1-12]
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LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.06	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.13	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00	8	>999	240		
							Weight: 614 lb	FT = 20%

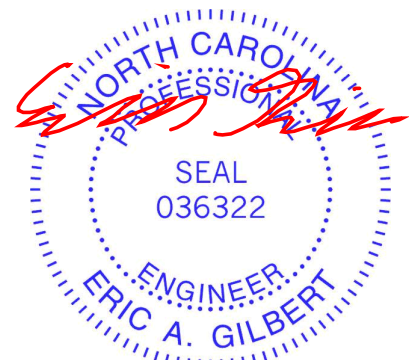
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-8,4-6: 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=-219(LC 4)
 Max Grav 1=8620(LC 2), 5=10003(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-10560/0, 2-3=-10221/0, 3-4=-11050/0, 4-5=-11397/0
 BOT CHORD 1-8=0/7664, 6-8=0/5692, 5-6=0/8292
 WEBS 2-8=-57/585, 3-8=0/6144, 3-6=0/7976, 4-6=-49/608

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
 - * 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.
 - Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - Use USP JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-0-12 from the left end to 5-0-12 to connect truss(es) to front face of bottom chord.
 - Use USP MSH29 (With 18-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 7-0-12 from the left end to 19-0-12 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

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



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501358
J1221-6805	B1GR	FINK	1	3	Job Reference (optional)	

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-1956(F) 9=-813(F) 10=-950(F) 11=-950(F) 13=-1956(F) 14=-1956(F) 15=-1956(F) 16=-1922(F) 17=-1922(F) 18=-1922(F)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501359
J1221-6805	G1	QUEENPOST	5	1	Job Reference (optional)	

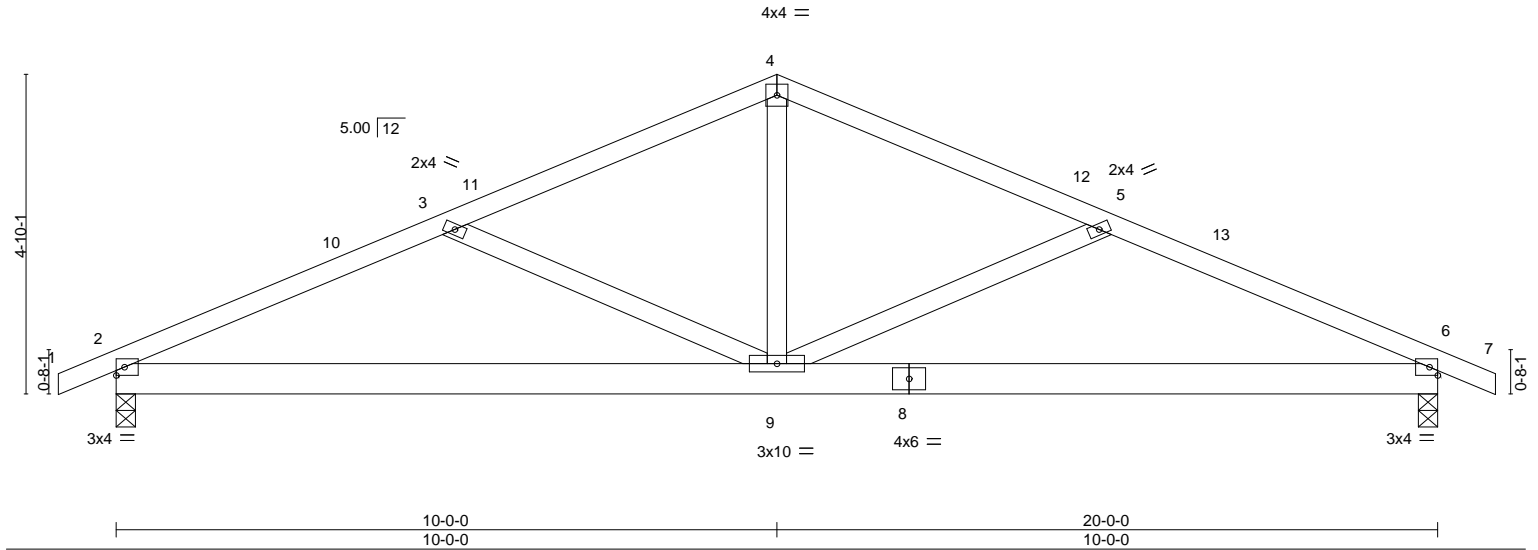
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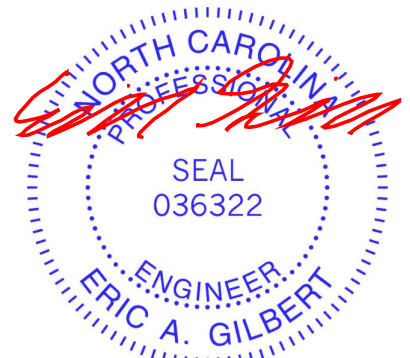
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL) -0.06	6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.13	6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	9	>999	240	Weight: 104 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-1-11 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-54(LC 17)
 Max Uplift 2=-64(LC 12), 6=-64(LC 13)
 Max Grav 2=850(LC 1), 6=850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1395/383, 3-4=-1069/271, 4-5=-1069/271, 5-6=-1395/383
 BOT CHORD 2-9=-290/1205, 6-9=-291/1205
 WEBS 3-9=-334/229, 4-9=-44/541, 5-9=-334/229

- 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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-10-8 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



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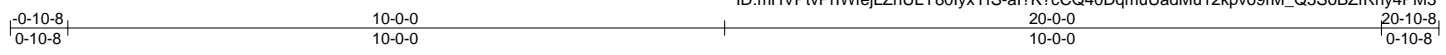


Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501360
J1221-6805	G1GE	GABLE	1	1	Job Reference (optional)	

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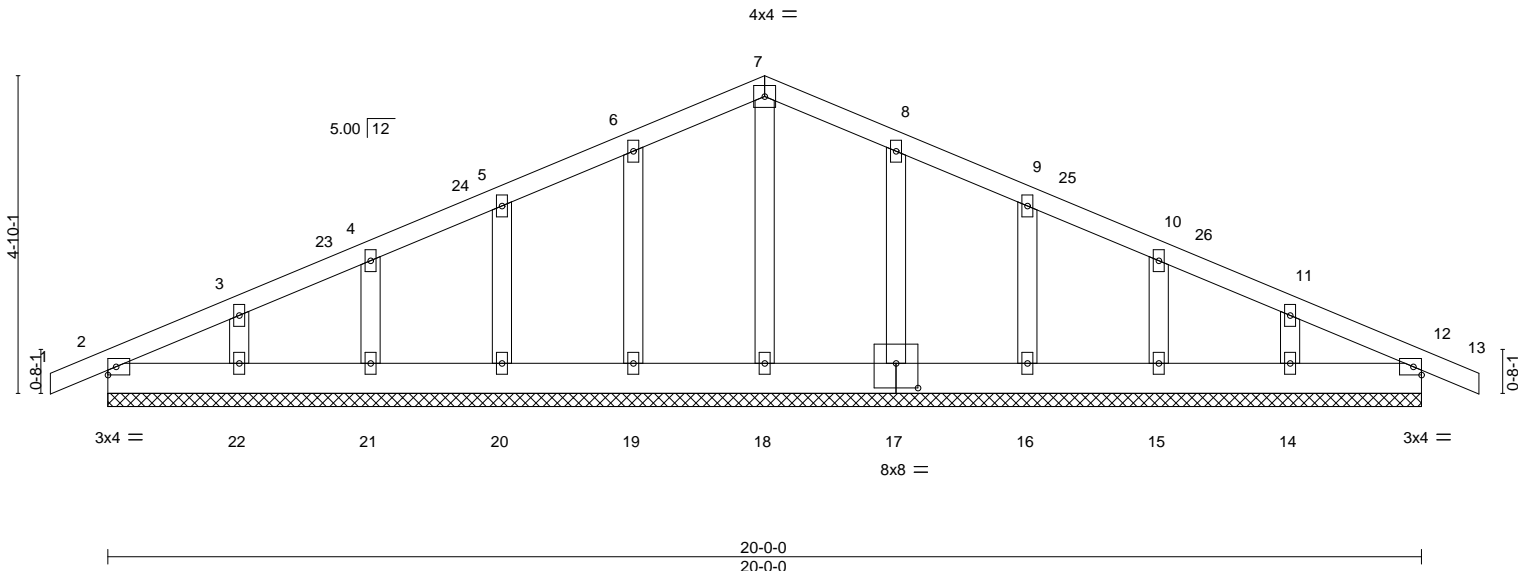


Plate Offsets (X,Y)--	[17:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 112 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=92(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 10-0-0, Corner(3) 10-0-0 to 14-4-13, Exterior(2) 14-4-13 to 20-10-8 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, 12, 19, 20, 21, 22, 17, 16, 15, 14.

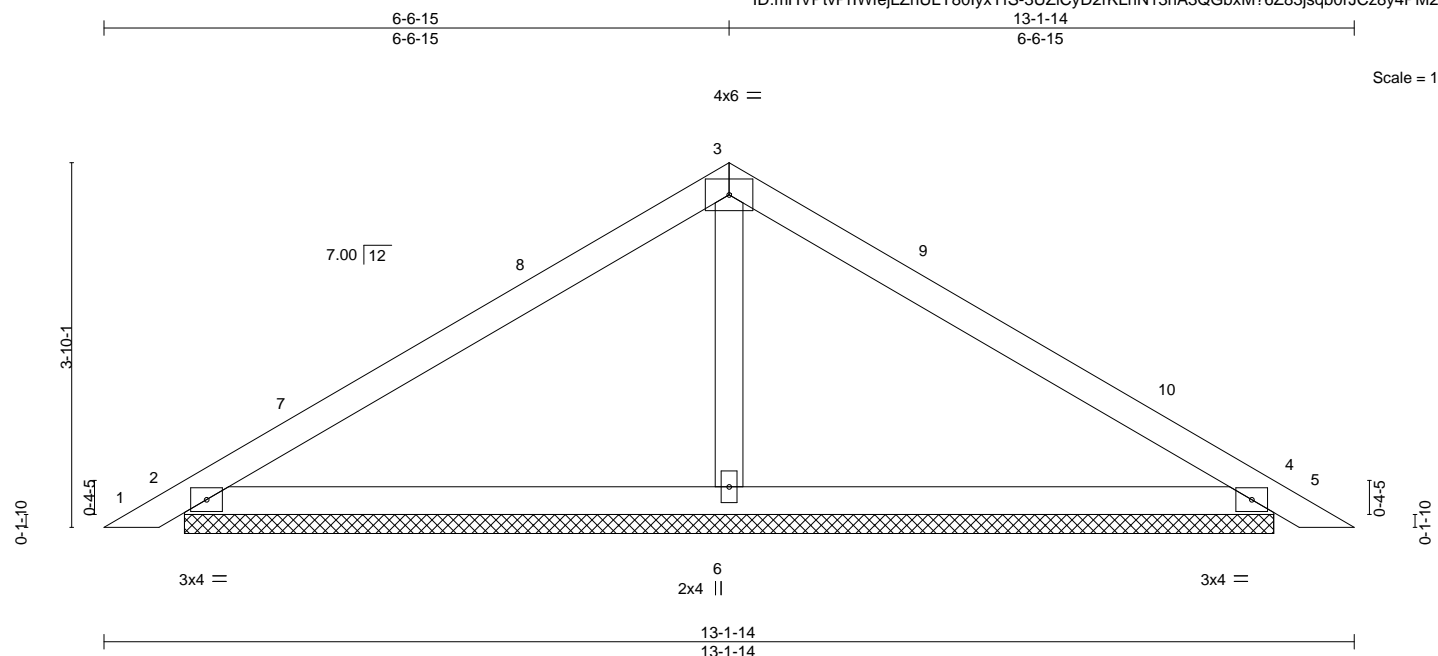


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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501361
J1221-6805	PB	PIGGYBACK	22	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:37:15 2021 Page 1
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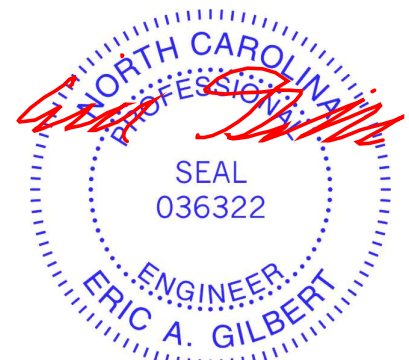
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) 0.02 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.03 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=11-5-9, 4=11-5-9, 6=11-5-9
 Max Horz 2=-88(LC 10)
 Max Uplift 2=-36(LC 12), 4=-45(LC 13)
 Max Grav 2=253(LC 1), 4=253(LC 1), 6=478(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-303/127

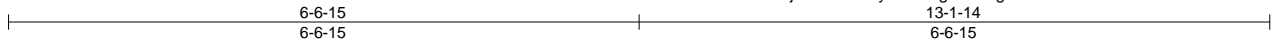
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-8 to 4-8-4, Interior(1) 4-8-4 to 6-6-15, Exterior(2) 6-6-15 to 10-11-12, Interior(1) 10-11-12 to 12-10-6 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.



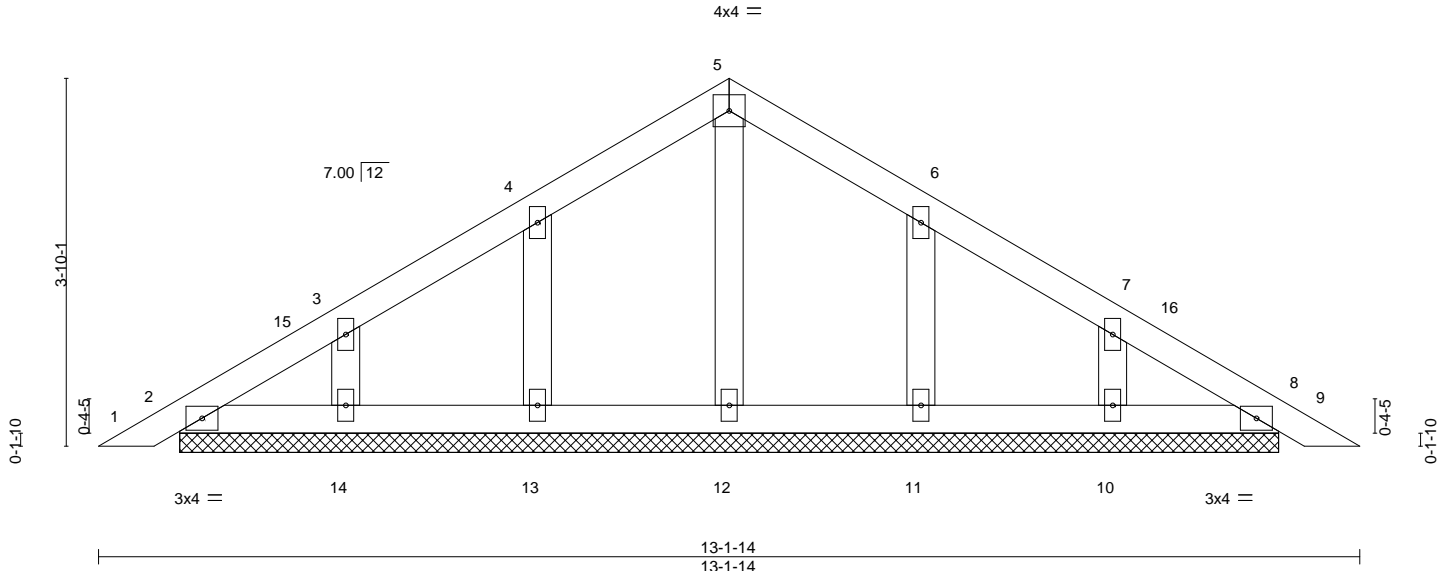
December 29, 2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501362
J1221-6805	PBGE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 14:37:16 2021 Page 1
 ID:mHVptvPrIWfejLZnULY80lyxYfS-Xg74QIEgceTY?BezknxV79uFXzWhSKokFV2IVay4PM1



Scale: 1/2"=1'



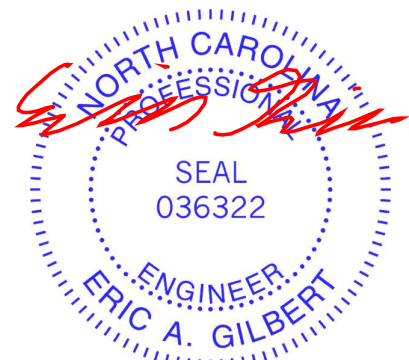
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 53 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 11-5-9.
 (lb) - Max Horz 2=110(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

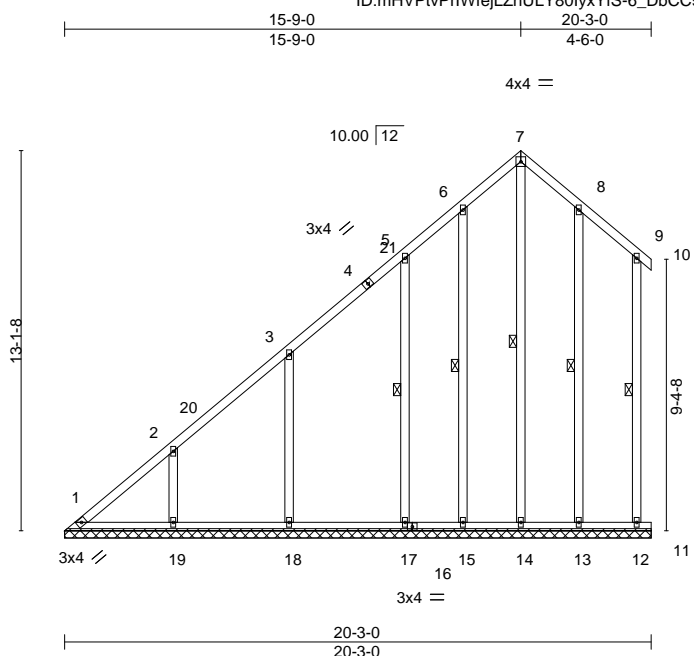
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 4-6-15, Interior(1) 4-6-15 to 6-6-15, Exterior(2) 6-6-15 to 10-11-12, Interior(1) 10-11-12 to 12-10-6 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, 14, 11, 10.
 - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 29, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Scale = 1:79.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 160 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 7-14, 6-15, 5-17, 8-13, 9-12

REACTIONS. (lb/size) 10=2/20-3-0 (min. 0-2-4), 1=102/20-3-0 (min. 0-2-4), 14=155/20-3-0 (min. 0-2-4), 15=130/20-3-0 (min. 0-2-4), 17=261/20-3-0 (min. 0-2-4), 18=330/20-3-0 (min. 0-2-4), 11=6/20-3-0 (min. 0-2-4), 19=324/20-3-0 (min. 0-2-4), 13=175/20-3-0 (min. 0-2-4), 12=115/20-3-0 (min. 0-2-4)
 Max Horz 1=499(LC 12)
 Max Uplift 1=-133(LC 10), 14=-13(LC 11), 15=-87(LC 12), 17=-182(LC 12), 18=-229(LC 12), 11=-27(LC 18), 19=-224(LC 12), 13=-111(LC 13), 12=-78(LC 13)
 Max Grav 10=2(LC 22), 1=345(LC 12), 14=291(LC 22), 15=192(LC 19), 17=400(LC 19), 18=441(LC 19), 19=362(LC 19), 13=258(LC 20), 12=178(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-590/403, 2-20=-395/227, 3-20=-368/274, 3-4=-202/172, 4-21=-181/179, 5-21=-175/196, 5-6=-139/159, 6-7=-148/200, 7-8=-152/183, 8-9=-68/82, 9-10=-0/18
 BOT CHORD 1-19=0/0, 18-19=0/0, 17-18=0/0, 16-17=0/0, 15-16=0/0, 14-15=0/0, 13-14=0/0, 12-13=0/0, 11-12=0/0
 WEBS 7-14=-183/58, 6-15=-125/105, 5-17=-271/221, 3-18=-341/280, 2-19=-325/264, 8-13=-171/135, 9-12=-116/99

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 15-9-0, Exterior(2) 15-9-0 to 20-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are 2x4 MT20 unless otherwise indicated.
 4) Gable requires continuous bottom chord bearing.
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 1, 13 lb uplift at joint 14, 87 lb uplift at joint 15, 182 lb uplift at joint 17, 229 lb uplift at joint 18, 27 lb uplift at joint 11, 224 lb uplift at joint 19, 111 lb uplift at joint 13 and 78 lb uplift at joint 12.

LOAD CASE(S)
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-7=-60, 7-10=-60, 1-11=-20
 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-7=-50, 7-10=-50, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20
 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-7=-20, 7-10=-20, 1-11=-40



December 29, 2021

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501363
J1221-6805	V1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8,430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:16:22 2021 Page 2
 ID:mHVpTvPrIWfjLZnULY80lyxYfS-6_DbCC9Ipn5KgCvE2snrqo_Cr60gMUbXGAPKZ1y484d

LOAD CASE(S)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-20=32, 7-20=25, 7-10=32, 1-11=-12
 Horz: 1-20=-44, 7-20=-37, 7-10=44
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-21=25, 7-21=32, 7-10=32, 1-11=-12
 Horz: 1-21=-37, 7-21=-44, 7-10=44
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-57, 7-10=-57, 1-11=-20
 Horz: 1-7=37, 7-10=-37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-57, 7-10=-57, 1-11=-20
 Horz: 1-7=37, 7-10=-37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-15, 7-10=15, 1-11=-12
 Horz: 1-7=3, 7-10=27
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=15, 7-10=-15, 1-11=-12
 Horz: 1-7=-27, 7-10=-3
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-37, 7-10=-7, 1-11=-20
 Horz: 1-7=17, 7-10=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-7, 7-10=-37, 1-11=-20
 Horz: 1-7=-13, 7-10=-17
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=35, 7-10=15, 1-11=-12
 Horz: 1-7=-47, 7-10=27
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=15, 7-10=35, 1-11=-12
 Horz: 1-7=-27, 7-10=47
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=35, 7-10=15, 1-11=-12
 Horz: 1-7=-47, 7-10=27
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=15, 7-10=35, 1-11=-12
 Horz: 1-7=-27, 7-10=47
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=13, 7-10=-7, 1-11=-20
 Horz: 1-7=-33, 7-10=13
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-7, 7-10=13, 1-11=-20
 Horz: 1-7=-13, 7-10=33
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-7=-20, 7-10=-20, 1-18=-20, 17-18=-60, 16-17=-20, 12-16=-60, 11-12=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-63, 7-10=-40, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20
 Horz: 1-7=13, 7-10=10
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-40, 7-10=-63, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20
 Horz: 1-7=-10, 7-10=-13
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-25, 7-10=-40, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20
 Horz: 1-7=-25, 7-10=10

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501363
J1221-6805	V1	GABLE	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:16:22 2021 Page 3
 ID:mHVPtvPrIWfeJLZnULY80lyxYfS-6_DbCC9Ipn5KgCvE2snrqo_Cr60gMUbxGAPKZ1y484d

LOAD CASE(S)

- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-7=-40, 7-10=-25, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20
 Horz: 1-7=-10, 7-10=25
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-7=-60, 7-10=-20, 1-11=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-7=-20, 7-10=-60, 1-11=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-7=-50, 7-10=-20, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-7=-20, 7-10=-50, 1-18=-20, 17-18=-50, 16-17=-20, 12-16=-50, 11-12=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

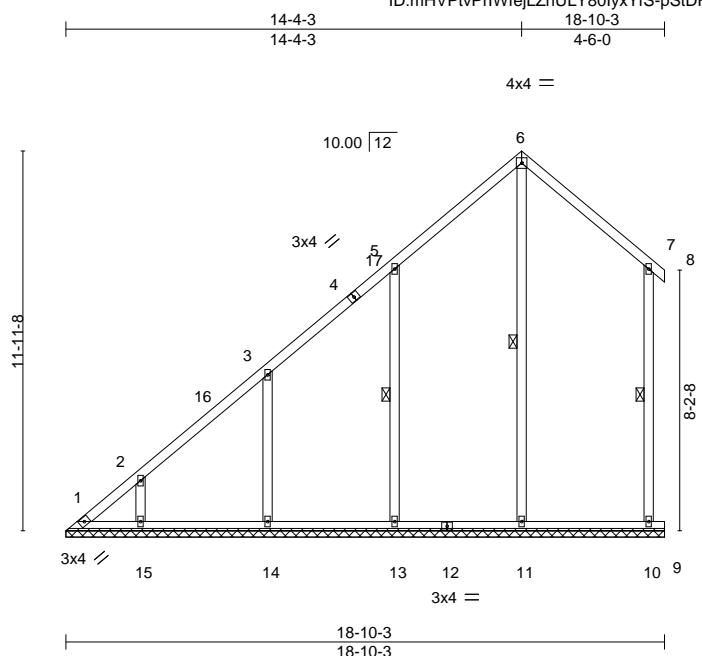
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1221-6805	Truss V2	Truss Type VALLEY	Qty 1	Ply 1	Regency / 5 North Farm / Harnett	E16501364
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Comtech, Inc., Fayetteville, NC 28309, Mitek
 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:17:06 2021 Page 1
 ID:mHVpTvPrIWfejLZnULY80lyxYfS-pStDRFhvSle4yzGhd5aAc4ojur1cgPbPO13f5Uy483x



Scale = 1:72.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 114 lb	FT = 20%

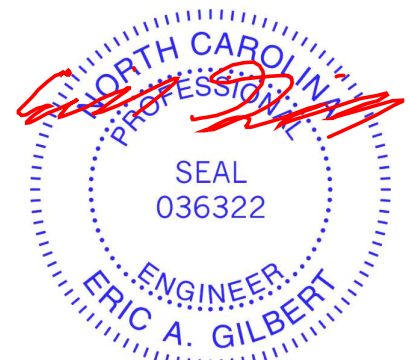
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 6-11, 5-13, 7-10

REACTIONS. (lb/size) 8=120/18-10-3 (min. 0-2-1), 1=35/18-10-3 (min. 0-2-1), 11=306/18-10-3 (min. 0-2-1), 13=331/18-10-3 (min. 0-2-1), 14=326/18-10-3 (min. 0-2-1), 15=273/18-10-3 (min. 0-2-1), 10=366/18-10-3 (min. 0-2-1), 9=42/18-10-3 (min. 0-2-1)
 Max Horz 1=302(LC 12)
 Max Uplift 8=142(LC 20), 1=142(LC 10), 13=136(LC 12), 14=126(LC 12), 15=107(LC 12), 10=143(LC 13), 9=137(LC 18)
 Max Grav 8=85(LC 13), 1=238(LC 12), 11=443(LC 19), 13=499(LC 19), 14=421(LC 19), 15=293(LC 19), 10=543(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-379/378, 2-16=-271/222, 3-16=-252/249, 3-4=-171/122, 4-17=-143/163, 5-17=-143/171, 5-6=-134/155, 6-7=-129/139, 7-8=-76/107
 BOT CHORD 1-15=0/0, 14-15=0/0, 13-14=0/0, 12-13=0/0, 11-12=0/0, 10-11=0/0, 9-10=0/0
 WEBS 6-11=-241/29, 5-13=-343/242, 3-14=-335/215, 2-15=-281/213, 7-10=-369/282

- 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 14-4-3, Exterior(2) 14-4-3 to 18-10-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 8, 142 lb uplift at joint 1, 136 lb uplift at joint 13, 126 lb uplift at joint 14, 107 lb uplift at joint 15, 143 lb uplift at joint 10 and 137 lb uplift at joint 9.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-8=-60, 1-9=-20
 - 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-50, 6-8=-50, 1-14=-20, 10-14=-50, 9-10=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-8=-20, 1-9=-40



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Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501364
J1221-6805	V2	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:17:06 2021 Page 2
ID:mHVptvPrWfejLZnULY80lyxYfS-pStDRFhvSle4yzGhd5aAc4ojur1cgPbPO13f5Uy483x

LOAD CASE(S)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-16=32, 6-16=25, 6-8=32, 1-9=-12
Horz: 1-16=-44, 6-16=-37, 6-8=44
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-17=25, 6-17=32, 6-8=32, 1-9=-12
Horz: 1-17=-37, 6-17=-44, 6-8=44
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-57, 6-8=-57, 1-9=-20
Horz: 1-6=37, 6-8=37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-57, 6-8=-57, 1-9=-20
Horz: 1-6=37, 6-8=37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-13, 6-8=11, 1-9=-12
Horz: 1-6=1, 6-8=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=11, 6-8=-13, 1-9=-12
Horz: 1-6=-23, 6-8=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-35, 6-8=-11, 1-9=-20
Horz: 1-6=15, 6-8=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-11, 6-8=-35, 1-9=-20
Horz: 1-6=-9, 6-8=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=21, 6-8=9, 1-9=-12
Horz: 1-6=-33, 6-8=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=9, 6-8=21, 1-9=-12
Horz: 1-6=-21, 6-8=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=21, 6-8=9, 1-9=-12
Horz: 1-6=-33, 6-8=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=9, 6-8=21, 1-9=-12
Horz: 1-6=-21, 6-8=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-1, 6-8=-13, 1-9=-20
Horz: 1-6=-19, 6-8=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-13, 6-8=-1, 1-9=-20
Horz: 1-6=-7, 6-8=19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 1-14=-20, 10-14=-60, 9-10=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-61, 6-8=-43, 1-14=-20, 10-14=-50, 9-10=-20
Horz: 1-6=11, 6-8=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-43, 6-8=-61, 1-14=-20, 10-14=-50, 9-10=-20
Horz: 1-6=-7, 6-8=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=-36, 6-8=-45, 1-14=-20, 10-14=-50, 9-10=-20
Horz: 1-6=-14, 6-8=5

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501364
J1221-6805	V2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:17:06 2021 Page 3
 ID:mHVptvPrIWfejLznULY80lyxYfS-pStDRFhvSle4yzGhd5aAc4oJur1cgPbPO13f5Uy483x

LOAD CASE(S)

- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-6=-45, 6-8=-36, 1-14=-20, 10-14=-50, 9-10=-20
 Horz: 1-6=-5, 6-8=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-8=-20, 1-9=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-8=-60, 1-9=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-50, 6-8=-20, 1-14=-20, 10-14=-50, 9-10=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-8=-50, 1-14=-20, 10-14=-50, 9-10=-20

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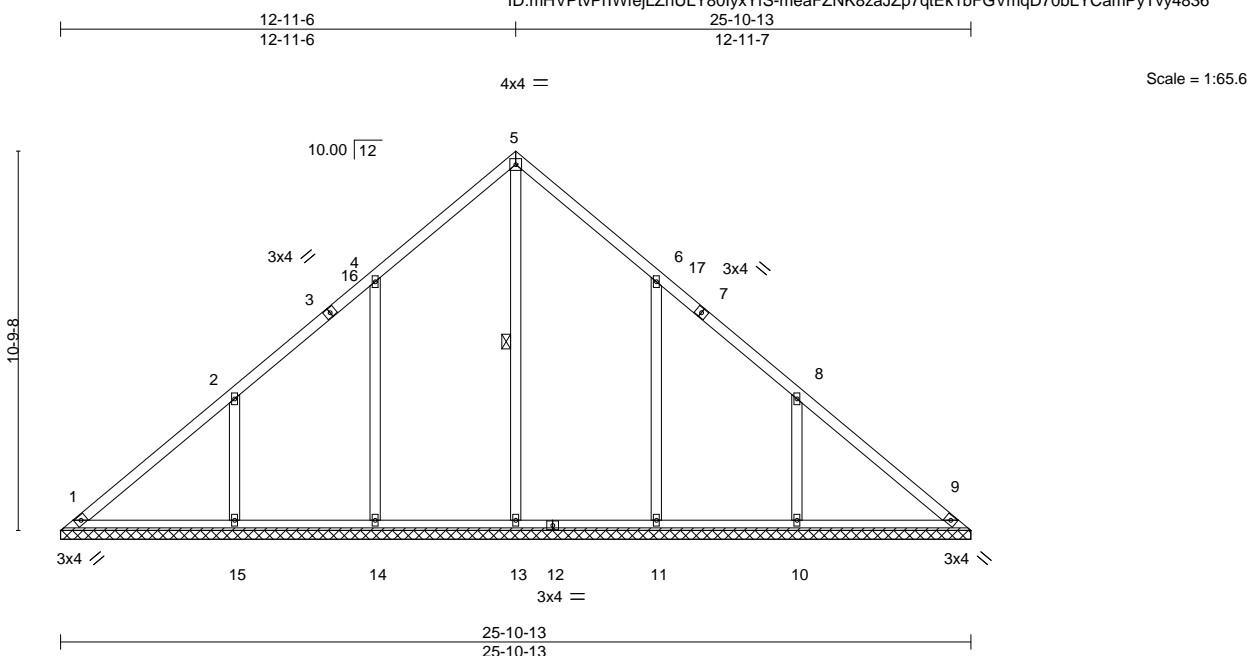


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.29	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 9 n/a n/a	Weight: 134 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 5-13

REACTIONS. (lb/size) 1=179/25-10-13 (min. 0-2-11), 13=242/25-10-13 (min. 0-2-11), 14=311/25-10-13 (min. 0-2-11), 15=393/25-10-13 (min. 0-2-11), 11=311/25-10-13 (min. 0-2-11), 10=393/25-10-13 (min. 0-2-11), 9=179/25-10-13 (min. 0-2-11)
 Max Horz 1=-251(LC 8)
 Max Uplift 1=-33(LC 8), 14=-128(LC 12), 15=-152(LC 12), 11=-127(LC 13), 10=-152(LC 13)
 Max Grav 1=218(LC 20), 13=383(LC 22), 14=479(LC 19), 15=490(LC 19), 11=479(LC 20), 10=490(LC 20), 9=183(LC 19)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-238/200, 2-3=-199/105, 3-16=-127/130, 4-16=-116/133, 4-5=-256/236, 5-6=-256/236, 6-17=-46/83, 7-17=-55/80, 7-8=-145/55, 8-9=-174/152
 BOT CHORD 1-15=-151/183, 14-15=-151/183, 13-14=-151/183, 12-13=-151/183, 11-12=-151/183, 10-11=-151/183, 9-10=-151/183
 WEBS 5-13=-184/80, 4-14=-327/235, 2-15=-389/270, 6-11=-327/235, 8-10=-389/270

- 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) 0-4-13 to 4-11-6, Interior(1) 4-11-6 to 12-11-6, Exterior(2) 12-11-6 to 17-4-3, Interior(1) 17-4-3 to 25-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 128 lb uplift at joint 14, 152 lb uplift at joint 15, 127 lb uplift at joint 11 and 152 lb uplift at joint 10.
 - 7) Non Standard bearing condition. Review required.

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-9=-60, 1-9=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-50, 5-9=-50, 1-15=-20, 10-15=-50, 9-10=-20
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-20, 5-9=-20, 1-9=-40

Continued on page 2



December 29, 2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501365
J1221-6805	VB1	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:18:00 2021 Page 2
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LOAD CASE(S)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=32, 2-5=25, 5-17=32, 9-17=25, 1-9=-12
Horz: 1-2=-44, 2-5=-37, 5-17=44, 9-17=37
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-16=25, 5-16=32, 5-8=25, 8-9=32, 1-9=-12
Horz: 1-16=-37, 5-16=-44, 5-8=37, 8-9=44
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-57, 5-9=-57, 1-9=-20
Horz: 1-5=37, 5-9=37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-57, 5-9=-57, 1-9=-20
Horz: 1-5=37, 5-9=37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-13, 5-9=11, 1-9=-12
Horz: 1-5=1, 5-9=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=11, 5-9=-13, 1-9=-12
Horz: 1-5=-23, 5-9=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-35, 5-9=-11, 1-9=-20
Horz: 1-5=15, 5-9=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-11, 5-9=-35, 1-9=-20
Horz: 1-5=-9, 5-9=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=21, 5-9=9, 1-9=-12
Horz: 1-5=-33, 5-9=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=9, 5-9=21, 1-9=-12
Horz: 1-5=-21, 5-9=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=21, 5-9=9, 1-9=-12
Horz: 1-5=-33, 5-9=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=9, 5-9=21, 1-9=-12
Horz: 1-5=-21, 5-9=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-1, 5-9=-13, 1-9=-20
Horz: 1-5=-19, 5-9=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-13, 5-9=-1, 1-9=-20
Horz: 1-5=-7, 5-9=19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-20, 1-15=-20, 10-15=-60, 9-10=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-61, 5-9=-43, 1-15=-20, 10-15=-50, 9-10=-20
Horz: 1-5=11, 5-9=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-43, 5-9=-61, 1-15=-20, 10-15=-50, 9-10=-20
Horz: 1-5=-7, 5-9=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=-36, 5-9=-45, 1-15=-20, 10-15=-50, 9-10=-20
Horz: 1-5=-14, 5-9=5

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501365
J1221-6805	VB1	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:18:00 2021 Page 3
 ID:mHVptvPrIWfejLznULY80lyxYfS-Er7emjLmkuRQGO4nRYqoT2xacTFKooMoQ8W0My4835

LOAD CASE(S)

- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-5=-45, 5-9=-36, 1-15=-20, 10-15=-50, 9-10=-20
 Horz: 1-5=-5, 5-9=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-9=-20, 1-9=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-20, 5-9=-60, 1-9=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-50, 5-9=-20, 1-15=-20, 10-15=-50, 9-10=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-20, 5-9=-50, 1-15=-20, 10-15=-50, 9-10=-20

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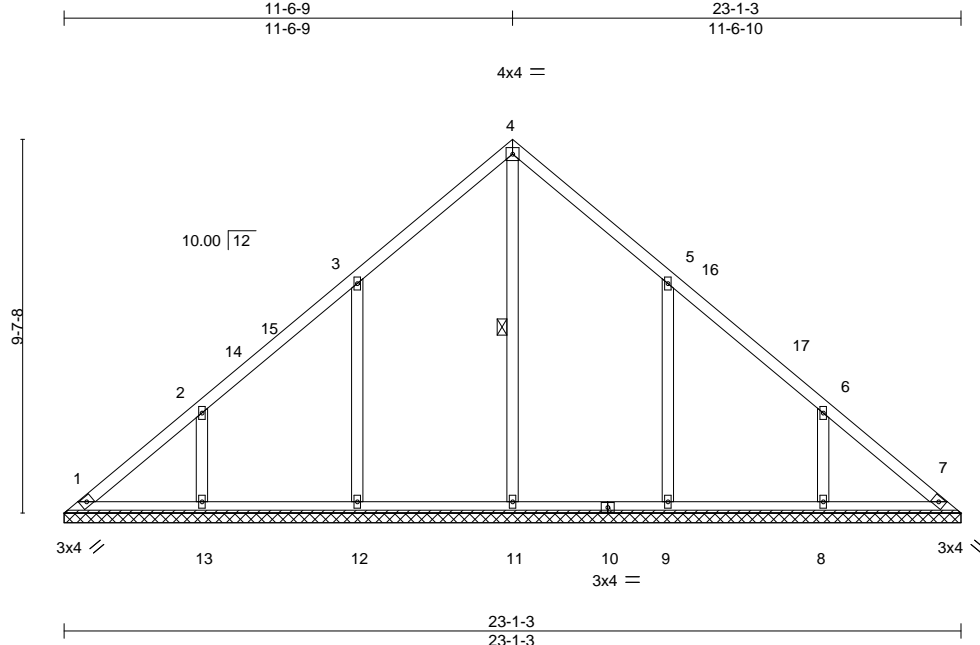


Plate Offsets (X,Y)--	[5:0-0-0,0-0-0], [6:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 115 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 4-11

REACTIONS. (lb/size) 1=126/23-1-3 (min. 0-2-3), 7=126/23-1-3 (min. 0-2-3), 11=232/23-1-3 (min. 0-2-3), 12=336/23-1-3 (min. 0-2-3), 13=314/23-1-3 (min. 0-2-3), 9=336/23-1-3 (min. 0-2-3), 8=314/23-1-3 (min. 0-2-3)
 Max Horz 1=223(LC 8)
 Max Uplift 1=-41(LC 8), 12=-137(LC 12), 13=-121(LC 12), 9=-137(LC 13), 8=-121(LC 13)
 Max Grav 1=175(LC 20), 7=144(LC 19), 11=386(LC 22), 12=435(LC 19), 13=338(LC 19), 9=434(LC 20), 8=339(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-220/178, 2-14=-188/95, 14-15=-125/120, 3-15=-109/123, 3-4=-231/211, 4-5=-231/211, 5-16=-39/59, 16-17=-62/55, 6-17=-140/31, 6-7=-167/143
 BOT CHORD 1-13=-129/160, 12-13=-129/160, 11-12=-129/160, 10-11=-129/160, 9-10=-129/160, 8-9=-129/160, 7-8=-129/160
 WEBS 4-11=-170/54, 3-12=-350/249, 2-13=-315/229, 5-9=-350/249, 6-8=-315/229

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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 11-6-9, Exterior(2) 11-6-9 to 15-11-6, Interior(1) 15-11-6 to 22-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are 2x4 MT20 unless otherwise indicated.
 4) Gable requires continuous bottom chord bearing.
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 137 lb uplift at joint 12, 121 lb uplift at joint 13, 137 lb uplift at joint 9 and 121 lb uplift at joint 8.

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 1-7=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 1-12=-20, 9-12=-50, 7-9=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 1-7=-40



December 29, 2021

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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501366
J1221-6805	VB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:19:23 2021 Page 2
ID:mHVptvPrIWfjZnULY80lyxYfS-Jpe0B5LqBOveu1F19NXIfz_7K4mRHLWauriPP2y481o

LOAD CASE(S)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-14=32, 4-14=25, 4-16=32, 7-16=25, 1-7=-12
Horz: 1-14=-44, 4-14=-37, 4-16=44, 7-16=37
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-15=25, 4-15=32, 4-17=25, 7-17=32, 1-7=-12
Horz: 1-15=-37, 4-15=-44, 4-17=37, 7-17=44
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-57, 4-7=-57, 1-7=-20
Horz: 1-4=37, 4-7=37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-57, 4-7=-57, 1-7=-20
Horz: 1-4=37, 4-7=37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-13, 4-7=11, 1-7=-12
Horz: 1-4=1, 4-7=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=11, 4-7=-13, 1-7=-12
Horz: 1-4=-23, 4-7=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-35, 4-7=-11, 1-7=-20
Horz: 1-4=15, 4-7=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-11, 4-7=-35, 1-7=-20
Horz: 1-4=-9, 4-7=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=21, 4-7=9, 1-7=-12
Horz: 1-4=-33, 4-7=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=9, 4-7=21, 1-7=-12
Horz: 1-4=-21, 4-7=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=21, 4-7=9, 1-7=-12
Horz: 1-4=-33, 4-7=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=9, 4-7=21, 1-7=-12
Horz: 1-4=-21, 4-7=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-1, 4-7=-13, 1-7=-20
Horz: 1-4=-19, 4-7=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-13, 4-7=-1, 1-7=-20
Horz: 1-4=-7, 4-7=19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 1-12=-20, 9-12=-60, 7-9=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-61, 4-7=-43, 1-12=-20, 9-12=-50, 7-9=-20
Horz: 1-4=11, 4-7=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-43, 4-7=-61, 1-12=-20, 9-12=-50, 7-9=-20
Horz: 1-4=-7, 4-7=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-36, 4-7=-45, 1-12=-20, 9-12=-50, 7-9=-20
Horz: 1-4=-14, 4-7=5

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501366
J1221-6805	VB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:19:23 2021 Page 3
 ID:mHVptvPrIWfejLZnULY80lyxYfS-Jpe0B5LqBOveu1F19NXIfz_7K4mRHLWauriPP2y481o

LOAD CASE(S)

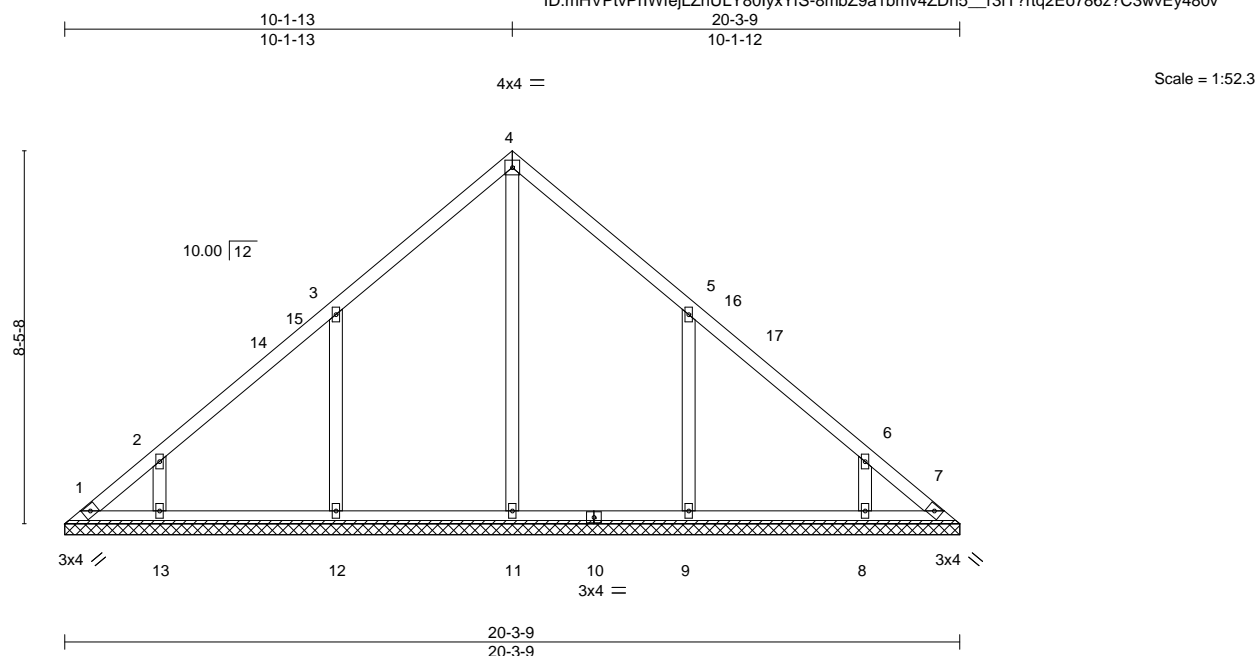
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-45, 4-7=-36, 1-12=-20, 9-12=-50, 7-9=-20
 Horz: 1-4=-5, 4-7=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-7=-20, 1-7=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-60, 1-7=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-50, 4-7=-20, 1-12=-20, 9-12=-50, 7-9=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-50, 1-12=-20, 9-12=-50, 7-9=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 1=57/20-3-9 (min. 0-1-15), 7=57/20-3-9 (min. 0-1-15), 11=228/20-3-9 (min. 0-1-15), 12=345/20-3-9 (min. 0-1-15), 13=263/20-3-9 (min. 0-1-15), 9=345/20-3-9 (min. 0-1-15), 8=263/20-3-9 (min. 0-1-15)
 Max Horz 1=195(LC 8)
 Max Uplift 1=74(LC 10), 7=39(LC 11), 12=141(LC 12), 13=101(LC 12), 9=141(LC 13), 8=101(LC 13)
 Max Grav 1=129(LC 9), 7=100(LC 13), 11=372(LC 22), 12=445(LC 19), 13=280(LC 19), 9=445(LC 20), 8=280(LC 20)

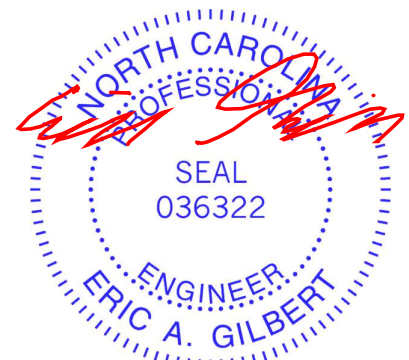
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-204/162, 2-14=-182/95, 14-15=-114/115, 3-15=-109/121, 3-4=-206/187, 4-5=-206/187, 5-16=-50/67, 16-17=-58/59, 6-17=-140/38, 6-7=-166/145
 BOT CHORD 1-13=-107/138, 12-13=-107/138, 11-12=-107/138, 10-11=-107/138, 9-10=-107/138, 8-9=-107/138, 7-8=-107/138
 WEBS 4-11=-158/25, 3-12=-358/254, 2-13=-271/210, 5-9=-358/254, 6-8=-271/210

- 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-1-13, Exterior(2) 10-1-13 to 14-6-9, Interior(1) 14-6-9 to 19-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 1, 39 lb uplift at joint 7, 141 lb uplift at joint 12, 101 lb uplift at joint 13, 141 lb uplift at joint 9 and 101 lb uplift at joint 8.

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-7=-60, 1-7=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-50, 4-7=-50, 1-12=-20, 9-12=-50, 7-9=-20
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-20, 1-7=-40

Continued on page 2



December 29, 2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501367
J1221-6805	VB3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:20:20 2021 Page 2
 ID:mHVptvPrIWfjeLZnULY80lyxYfS-8mbZ9a1bmV4ZDn5_r3fT?rtq2Eo786z?C3wvEy480v

LOAD CASE(S)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-14=32, 4-14=25, 4-16=32, 7-16=25, 1-7=-12
 Horz: 1-14=-44, 4-14=-37, 4-16=44, 7-16=37
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-15=25, 4-15=32, 4-17=25, 7-17=32, 1-7=-12
 Horz: 1-15=-37, 4-15=-44, 4-17=37, 7-17=44
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-57, 4-7=-57, 1-7=-20
 Horz: 1-4=37, 4-7=37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-57, 4-7=-57, 1-7=-20
 Horz: 1-4=37, 4-7=37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-13, 4-7=11, 1-7=-12
 Horz: 1-4=1, 4-7=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=11, 4-7=-13, 1-7=-12
 Horz: 1-4=-23, 4-7=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-35, 4-7=-11, 1-7=-20
 Horz: 1-4=15, 4-7=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-11, 4-7=-35, 1-7=-20
 Horz: 1-4=-9, 4-7=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=21, 4-7=9, 1-7=-12
 Horz: 1-4=-33, 4-7=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=9, 4-7=21, 1-7=-12
 Horz: 1-4=-21, 4-7=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=21, 4-7=9, 1-7=-12
 Horz: 1-4=-33, 4-7=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=9, 4-7=21, 1-7=-12
 Horz: 1-4=-21, 4-7=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-1, 4-7=-13, 1-7=-20
 Horz: 1-4=-19, 4-7=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-13, 4-7=-1, 1-7=-20
 Horz: 1-4=-7, 4-7=19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-20, 1-12=-20, 9-12=-60, 7-9=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-61, 4-7=-43, 1-12=-20, 9-12=-50, 7-9=-20
 Horz: 1-4=11, 4-7=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-43, 4-7=-61, 1-12=-20, 9-12=-50, 7-9=-20
 Horz: 1-4=-7, 4-7=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-36, 4-7=-45, 1-12=-20, 9-12=-50, 7-9=-20
 Horz: 1-4=-14, 4-7=5

Continued on page 3

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501367
J1221-6805	VB3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:20:20 2021 Page 3
 ID:mHVpTvPrIWfejLZnULY80lyxYfS-8mbZ9a1bmv4ZDn5__r3fT?rtq2Eo786z?C3wvEy480v

LOAD CASE(S)

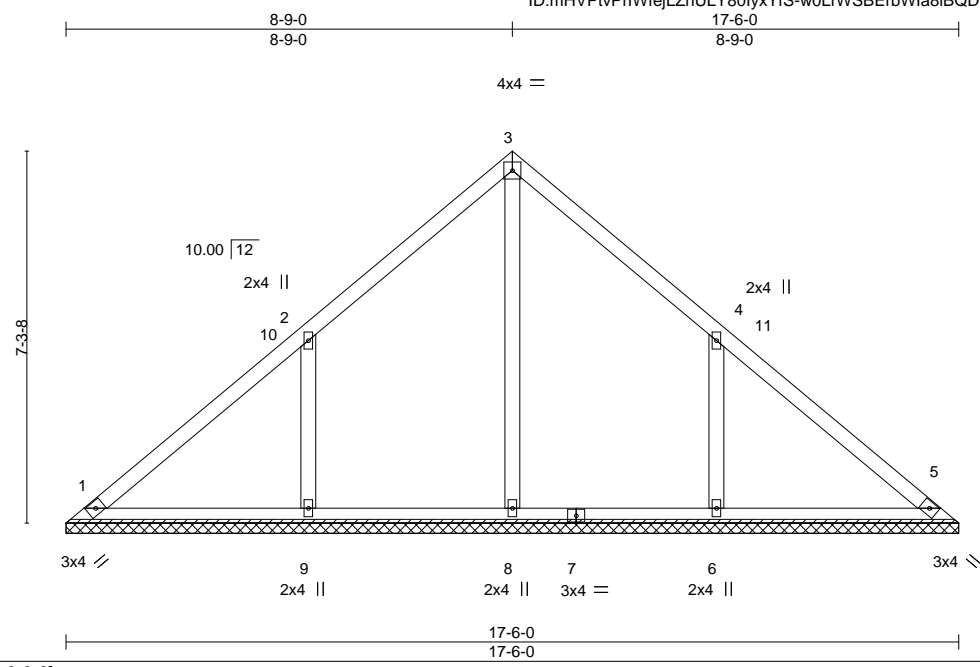
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=-45, 4-7=-36, 1-12=-20, 9-12=-50, 7-9=-20
 Horz: 1-4=-5, 4-7=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-7=-20, 1-7=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-60, 1-7=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-50, 4-7=-20, 1-12=-20, 9-12=-50, 7-9=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-50, 1-12=-20, 9-12=-50, 7-9=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932



Scale = 1:45.2

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 79 lb	FT = 20%
	Code IRC2015/TPI2014							

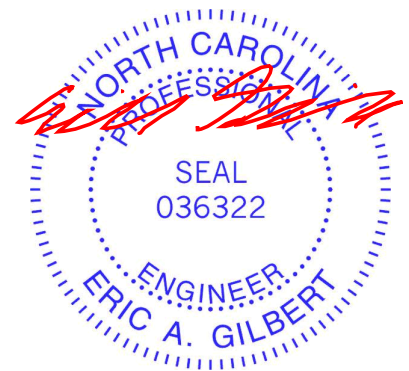
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 1=166/17-6-0 (min. 0-1-11), 5=166/17-6-0 (min. 0-1-11), 8=207/17-6-0 (min. 0-1-11), 9=398/17-6-0 (min. 0-1-11), 6=398/17-6-0 (min. 0-1-11)
 Max Horz 1=-167(LC 8)
 Max Uplift 1=-11(LC 8), 9=-160(LC 12), 6=-160(LC 13)
 Max Grav 1=180(LC 20), 5=166(LC 1), 8=348(LC 22), 9=499(LC 19), 6=499(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-10=-161/126, 2-10=-115/131, 2-3=-181/162, 3-4=-181/162, 4-11=-67/92, 5-11=-125/79
 BOT CHORD 1-9=-88/118, 8-9=-88/118, 7-8=-88/118, 6-7=-88/118, 5-6=-88/118
 WEBS 3-8=-142/4, 2-9=-399/275, 4-6=-399/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-0, Interior(1) 4-9-0 to 8-9-0, Exterior(2) 8-9-0 to 13-1-13, Interior(1) 13-1-13 to 17-1-3 zone;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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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 11 lb uplift at joint 1, 160 lb uplift at joint 9 and 160 lb uplift at joint 6.
 - Non Standard bearing condition. Review required.

- LOAD CASE(S)**
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-20
 - Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 3-5=-50, 1-9=-20, 6-9=-50, 5-6=-20
 - Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-20, 1-5=-40
 - Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



December 29, 2021

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501368
J1221-6805	VB4	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:23:18 2021 Page 2
 ID:mHVPtvPrIWfejLZnULY80lyxYfS-w0LrWSBERbWla8iBQDFPhXCIMo_Yrf89wvALAWy48_7

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=32, 2-3=25, 3-11=32, 5-11=25, 1-5=-12
 - Horz: 1-2=-44, 2-3=-37, 3-11=44, 5-11=37
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-10=25, 3-10=32, 3-4=25, 4-5=32, 1-5=-12
 - Horz: 1-10=-37, 3-10=-44, 3-4=37, 4-5=44
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-57, 3-5=-57, 1-5=-20
 - Horz: 1-3=37, 3-5=37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-57, 3-5=-57, 1-5=-20
 - Horz: 1-3=37, 3-5=37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-13, 3-5=11, 1-5=-12
 - Horz: 1-3=1, 3-5=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=11, 3-5=-13, 1-5=-12
 - Horz: 1-3=-23, 3-5=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-35, 3-5=-11, 1-5=-20
 - Horz: 1-3=15, 3-5=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-11, 3-5=-35, 1-5=-20
 - Horz: 1-3=-9, 3-5=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=21, 3-5=9, 1-5=-12
 - Horz: 1-3=-33, 3-5=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=9, 3-5=21, 1-5=-12
 - Horz: 1-3=-21, 3-5=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=21, 3-5=9, 1-5=-12
 - Horz: 1-3=-33, 3-5=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=9, 3-5=21, 1-5=-12
 - Horz: 1-3=-21, 3-5=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-1, 3-5=-13, 1-5=-20
 - Horz: 1-3=-19, 3-5=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-13, 3-5=-1, 1-5=-20
 - Horz: 1-3=-7, 3-5=19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-3=-20, 3-5=-20, 1-9=-20, 6-9=-60, 5-6=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-61, 3-5=-43, 1-9=-20, 6-9=-50, 5-6=-20
 - Horz: 1-3=11, 3-5=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-43, 3-5=-61, 1-9=-20, 6-9=-50, 5-6=-20
 - Horz: 1-3=-7, 3-5=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-36, 3-5=-45, 1-9=-20, 6-9=-50, 5-6=-20
 - Horz: 1-3=-14, 3-5=5

Continued on page 3

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501368
J1221-6805	VB4	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:23:18 2021 Page 3
 ID:mHVPtvPrIWfejLZnULY80lyxYfS-w0LrWSBERbWla8iBQDFPhXCIMo_Yrf89vwALAwy48_7

LOAD CASE(S)

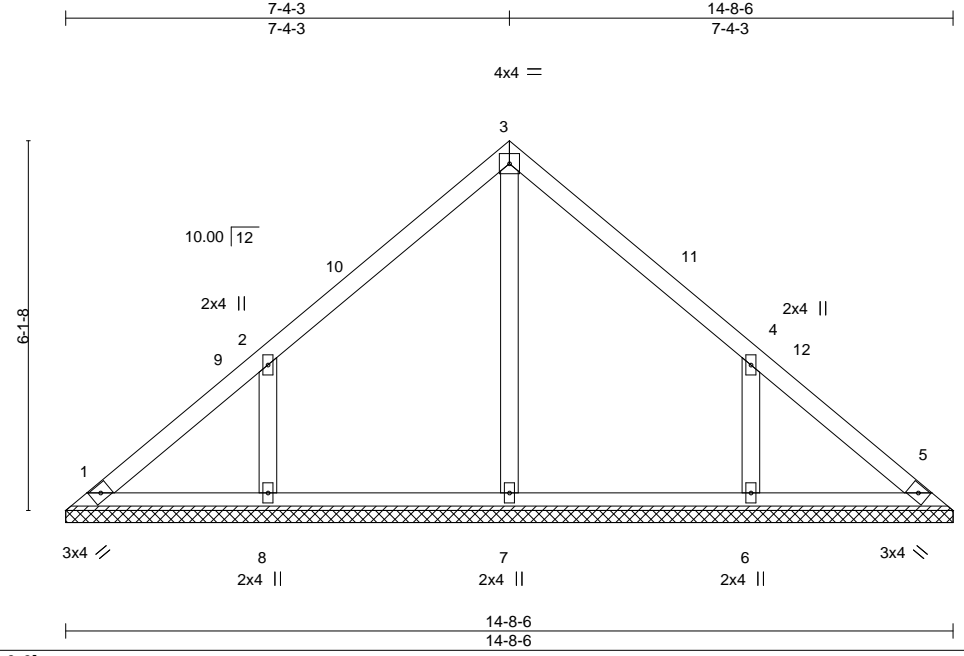
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-3=-45, 3-5=-36, 1-9=-20, 6-9=-50, 5-6=-20
 Horz: 1-3=-5, 3-5=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-20, 1-5=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-60, 1-5=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 3-5=-20, 1-9=-20, 6-9=-50, 5-6=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-50, 1-9=-20, 6-9=-50, 5-6=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Scale = 1:38.2

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]	
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2015/TPI2014
CSI.	DEFL.
TC 0.14	in (loc) l/defl L/d
BC 0.08	Vert(LL) n/a - n/a 999
WB 0.09	Vert(CT) n/a - n/a 999
Matrix-S	Horz(CT) 0.00 5 n/a n/a
PLATES	GRIP
MT20	244/190
Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 1=115/14-8-6 (min. 0-1-8), 5=115/14-8-6 (min. 0-1-8), 7=235/14-8-6 (min. 0-1-8), 8=323/14-8-6 (min. 0-1-8), 6=323/14-8-6 (min. 0-1-8)
 Max Horz 1=-139(LC 8)
 Max Uplift 1=-21(LC 8), 8=-134(LC 12), 6=-134(LC 13)
 Max Grav 1=138(LC 20), 5=119(LC 19), 7=235(LC 1), 8=363(LC 19), 6=363(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-9=-138/104, 2-9=-111/109, 2-10=-156/117, 3-10=-128/137, 3-11=-128/137, 4-11=-156/117, 4-12=-71/69, 5-12=-108/63
 BOT CHORD 1-8=60/92, 7-8=60/92, 6-7=60/92, 5-6=60/92
 WEBS 3-7=-155/0, 2-8=-336/245, 4-6=-336/245

- 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-4-3, Exterior(2) 7-4-3 to 11-9-0, Interior(1) 11-9-0 to 14-3-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 134 lb uplift at joint 8 and 134 lb uplift at joint 6.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-20
 - 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 3-5=-50, 1-5=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-20, 1-5=-40
 - 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



December 29, 2021

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501369
J1221-6805	VB5	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8,430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:21:52 2021 Page 2
ID:mHVPtvPrIWfejLZnULY80lyxYfS-ST9LS2815AgVGw8fN9IECOFbv8eAhmJV9WLo8vy48?T

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-10=33, 3-10=26, 3-12=33, 5-12=26, 1-5=-12
 - Horz: 1-10=-45, 3-10=-38, 3-12=45, 5-12=38
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-9=26, 3-9=33, 3-11=26, 5-11=33, 1-5=-12
 - Horz: 1-9=-38, 3-9=-45, 3-11=38, 5-11=45
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-57, 3-5=-57, 1-5=-20
 - Horz: 1-3=37, 3-5=37
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-57, 3-5=-57, 1-5=-20
 - Horz: 1-3=37, 3-5=37
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-13, 3-5=11, 1-5=-12
 - Horz: 1-3=1, 3-5=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=11, 3-5=-13, 1-5=-12
 - Horz: 1-3=-23, 3-5=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-35, 3-5=-11, 1-5=-20
 - Horz: 1-3=15, 3-5=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-11, 3-5=-35, 1-5=-20
 - Horz: 1-3=-9, 3-5=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=21, 3-5=9, 1-5=-12
 - Horz: 1-3=-33, 3-5=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=9, 3-5=21, 1-5=-12
 - Horz: 1-3=-21, 3-5=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=21, 3-5=9, 1-5=-12
 - Horz: 1-3=-33, 3-5=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=9, 3-5=21, 1-5=-12
 - Horz: 1-3=-21, 3-5=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-1, 3-5=-13, 1-5=-20
 - Horz: 1-3=-19, 3-5=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-13, 3-5=-1, 1-5=-20
 - Horz: 1-3=-7, 3-5=19
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 1-3=-20, 3-5=-20, 1-5=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-61, 3-5=-43, 1-5=-20
 - Horz: 1-3=11, 3-5=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-43, 3-5=-61, 1-5=-20
 - Horz: 1-3=-7, 3-5=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-36, 3-5=-45, 1-5=-20
 - Horz: 1-3=-14, 3-5=5
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-45, 3-5=-36, 1-5=-20
 - Horz: 1-3=-5, 3-5=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501369
J1221-6805	VB5	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8,430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:21:52 2021 Page 3
 ID:mHVPtvPrIWfejLZnULY80lyxYfS-ST9LS2815AgVGw8fN9IECOfbv8eAhmJV9WLo8vy48?T

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-20, 1-5=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 3-5=-60, 1-5=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 3-5=-20, 1-5=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 3-5=-50, 1-5=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

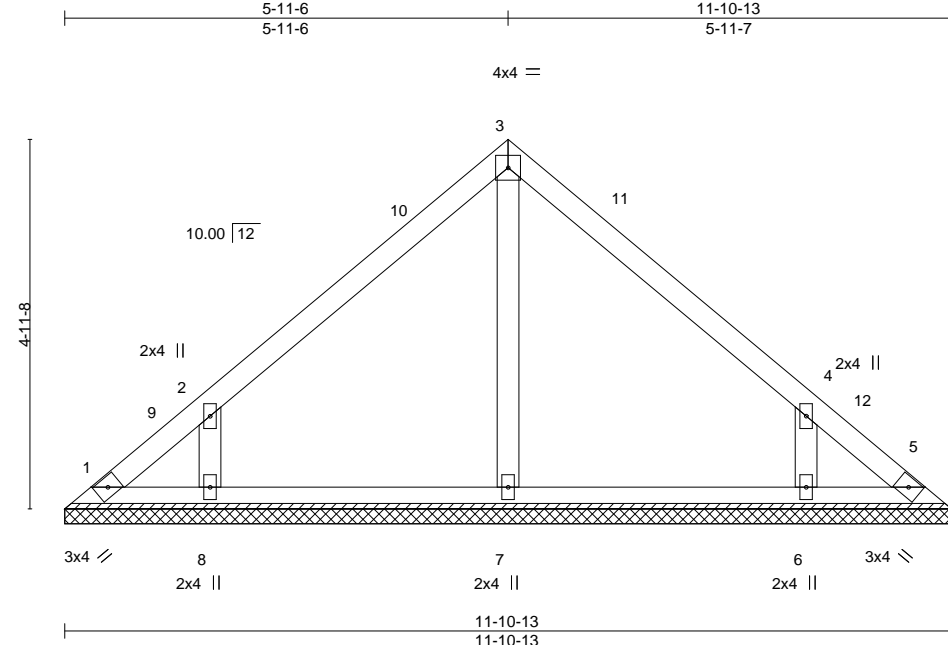


Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.13	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.09	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.06	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 49 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

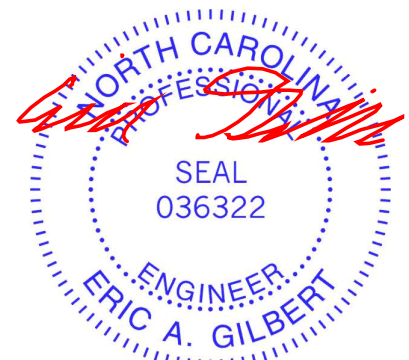
REACTIONS. (lb/size) 1=36/11-10-13 (min. 0-1-8), 5=36/11-10-13 (min. 0-1-8), 7=242/11-10-13 (min. 0-1-8), 8=287/11-10-13 (min. 0-1-8), 6=286/11-10-13 (min. 0-1-8)
 Max Horz 1=-111(LC 8)
 Max Uplift 1=-50(LC 10), 5=-29(LC 11), 8=-124(LC 12), 6=-123(LC 13)
 Max Grav 1=81(LC 9), 5=60(LC 8), 7=242(LC 1), 8=325(LC 19), 6=325(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-9=-122/94, 2-9=-111/99, 2-10=-145/96, 3-10=-96/111, 3-11=-96/111, 4-11=-136/96, 4-12=-86/69, 5-12=-97/64
 BOT CHORD 1-8=-35/67, 7-8=-35/67, 6-7=-35/67, 5-6=-35/67
 WEBS 3-7=-156/5, 2-8=-315/247, 4-6=-315/247

- 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-11-6, Exterior(2) 5-11-6 to 10-4-3, Interior(1) 10-4-3 to 11-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 29 lb uplift at joint 5, 124 lb uplift at joint 8 and 123 lb uplift at joint 6.
 - 6) Non Standard bearing condition. Review required.

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-20
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 3-5=-50, 1-5=-20
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-20, 1-5=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



Continued on page 2 December 29, 2021

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501370
J1221-6805	VB6	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:24:33 2021 Page 2
ID:mHVpTvPrIWfejLZnULY80lyxYfS-ERNCF55HAeyf4gxcJT5_DLp6P1bkvbfCA3rpH4y47yy

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-10=35, 3-10=27, 3-12=35, 5-12=27, 1-5=-12
 - Horz: 1-10=-47, 3-10=-39, 3-12=47, 5-12=39
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-9=27, 3-9=35, 3-11=27, 5-11=35, 1-5=-12
 - Horz: 1-9=-39, 3-9=-47, 3-11=39, 5-11=47
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-58, 3-5=-58, 1-5=-20
 - Horz: 1-3=38, 3-5=38
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-58, 3-5=-58, 1-5=-20
 - Horz: 1-3=38, 3-5=38
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-13, 3-5=11, 1-5=-12
 - Horz: 1-3=1, 3-5=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=11, 3-5=-13, 1-5=-12
 - Horz: 1-3=-23, 3-5=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-35, 3-5=-11, 1-5=-20
 - Horz: 1-3=15, 3-5=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-11, 3-5=-35, 1-5=-20
 - Horz: 1-3=-9, 3-5=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=21, 3-5=9, 1-5=-12
 - Horz: 1-3=-33, 3-5=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=9, 3-5=21, 1-5=-12
 - Horz: 1-3=-21, 3-5=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=21, 3-5=9, 1-5=-12
 - Horz: 1-3=-33, 3-5=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=9, 3-5=21, 1-5=-12
 - Horz: 1-3=-21, 3-5=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-1, 3-5=-13, 1-5=-20
 - Horz: 1-3=-19, 3-5=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-13, 3-5=-1, 1-5=-20
 - Horz: 1-3=-7, 3-5=19
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 1-3=-20, 3-5=-20, 1-5=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-61, 3-5=-43, 1-5=-20
 - Horz: 1-3=11, 3-5=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-43, 3-5=-61, 1-5=-20
 - Horz: 1-3=-7, 3-5=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-36, 3-5=-45, 1-5=-20
 - Horz: 1-3=-14, 3-5=5
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-3=-45, 3-5=-36, 1-5=-20
 - Horz: 1-3=-5, 3-5=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501370
J1221-6805	VB6	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:24:33 2021 Page 3
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LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-20, 1-5=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 3-5=-60, 1-5=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 3-5=-20, 1-5=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 3-5=-50, 1-5=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

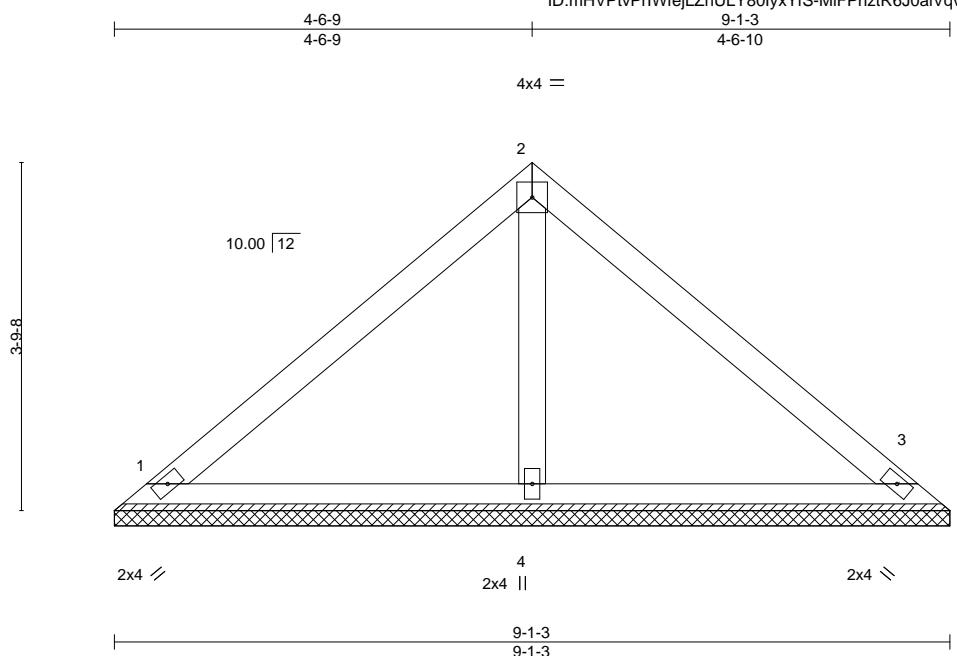
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1221-6805	Truss VB7	Truss Type VALLEY	Qty 1	Ply 1	Regency / 5 North Farm / Harnett	E16501371
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Comtech, Inc., Fayetteville, NC 28309, Mitek
 ID:mHVPtVPrIWfeJLZnULY80lyxYfS-MIFPhztR6J0alVqv3wF?prT2WqR7vYndu1LCXMy47Xy
 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:25:37 2021 Page 1



Scale = 1:25.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 34 lb	FT = 20%

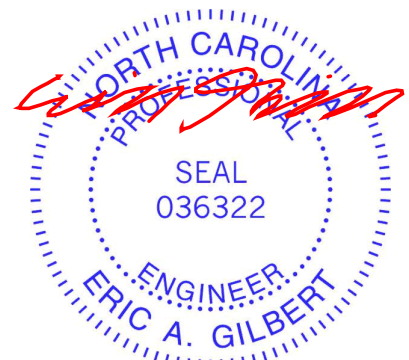
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 1=177/9-1-3 (min. 0-1-8), 3=177/9-1-3 (min. 0-1-8), 4=309/9-1-3 (min. 0-1-8)
 Max Horz 1=83(LC 11)
 Max Uplift 1=-19(LC 13), 3=-27(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-145/75, 2-3=-138/75
 BOT CHORD 1-4=-17/64, 3-4=-17/64
 WEBS 2-4=-185/84

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 27 lb uplift at joint 3.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-3=-50, 1-3=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-3=-20, 1-3=-40
 - 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=36, 2-3=36, 1-3=-12
 Horz: 1-2=-48, 2-3=48
 - 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60



December 29, 2021

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501371
J1221-6805	VB7	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:25:37 2021 Page 2
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LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=36, 2-3=36, 1-3=-12
 - Horz: 1-2=-48, 2-3=48
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-59, 2-3=-59, 1-3=-20
 - Horz: 1-2=39, 2-3=-39
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-59, 2-3=-59, 1-3=-20
 - Horz: 1-2=39, 2-3=-39
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-3=11, 1-3=-12
 - Horz: 1-2=1, 2-3=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=11, 2-3=-13, 1-3=-12
 - Horz: 1-2=-23, 2-3=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-35, 2-3=-11, 1-3=-20
 - Horz: 1-2=15, 2-3=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-3=-35, 1-3=-20
 - Horz: 1-2=-9, 2-3=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-3=9, 1-3=-12
 - Horz: 1-2=-33, 2-3=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-3=21, 1-3=-12
 - Horz: 1-2=-21, 2-3=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-3=9, 1-3=-12
 - Horz: 1-2=-33, 2-3=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-3=21, 1-3=-12
 - Horz: 1-2=-21, 2-3=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-1, 2-3=-13, 1-3=-20
 - Horz: 1-2=-19, 2-3=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-3=-1, 1-3=-20
 - Horz: 1-2=-7, 2-3=19
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-3=-20, 1-3=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-61, 2-3=-43, 1-3=-20
 - Horz: 1-2=11, 2-3=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-3=-61, 1-3=-20
 - Horz: 1-2=-7, 2-3=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-36, 2-3=-45, 1-3=-20
 - Horz: 1-2=-14, 2-3=5
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-45, 2-3=-36, 1-3=-20
 - Horz: 1-2=-5, 2-3=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-20, 1-3=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-3=-60, 1-3=-20

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501371
J1221-6805	VB7	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:25:37 2021 Page 3
 ID:mHVPtvPrIWfejLZnULY80lyxYfS-MIFPhztR6J0alVqv3wF?prT2WqR7vYndu1LCXMy47xy

LOAD CASE(S)

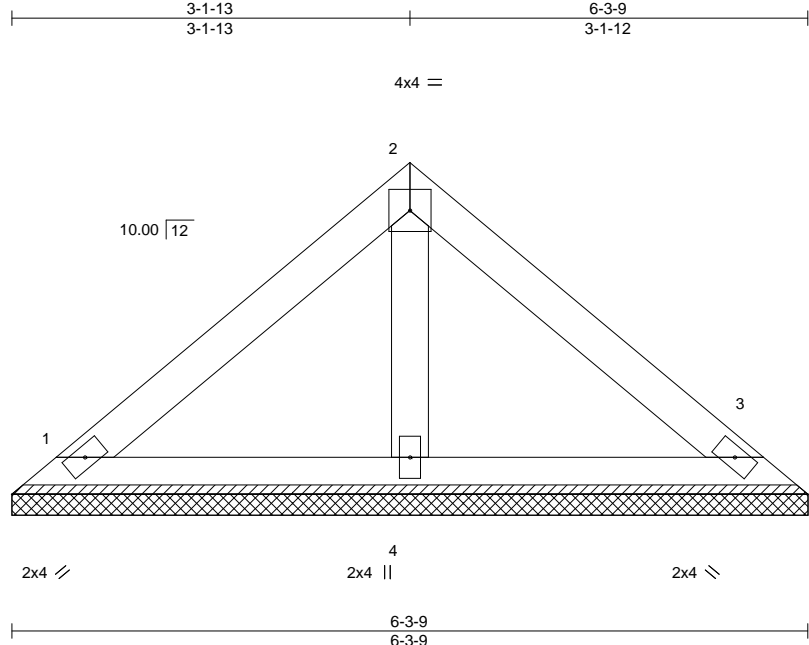
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-3=-20, 1-3=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-3=-50, 1-3=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932



Scale = 1:18.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 1=127/6-3-9 (min. 0-1-8), 3=127/6-3-9 (min. 0-1-8), 4=185/6-3-9 (min. 0-1-8)
 Max Horz 1=55(LC 9)
 Max Uplift 1=-19(LC 13), 3=-24(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-88/49, 2-3=-80/49
 BOT CHORD 1-4=-13/39, 3-4=-13/39
 WEBS 2-4=-117/54

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 24 lb uplift at joint 3.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-3=-50, 1-3=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-3=-20, 1-3=-40
 - 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=39, 2-3=39, 1-3=-12
 Horz: 1-2=-51, 2-3=51
 - 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60



December 29, 2021

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501372
J1221-6805	VB8	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8,430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:26:21 2021 Page 2
ID:mHVPtvPrIWfejLZnULY80lyxYfS-3Dv1w0P1qLz1GCMe91Jb71aWaTXDR250t?X5py47xG

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=39, 2-3=39, 1-3=-12
 - Horz: 1-2=-51, 2-3=51
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - Horz: 1-2=40, 2-3=-40
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - Horz: 1-2=40, 2-3=-40
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-3=11, 1-3=-12
 - Horz: 1-2=1, 2-3=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=11, 2-3=-13, 1-3=-12
 - Horz: 1-2=-23, 2-3=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-35, 2-3=-11, 1-3=-20
 - Horz: 1-2=15, 2-3=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-3=-35, 1-3=-20
 - Horz: 1-2=-9, 2-3=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-3=9, 1-3=-12
 - Horz: 1-2=-33, 2-3=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-3=21, 1-3=-12
 - Horz: 1-2=-21, 2-3=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-3=9, 1-3=-12
 - Horz: 1-2=-33, 2-3=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-3=21, 1-3=-12
 - Horz: 1-2=-21, 2-3=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-1, 2-3=-13, 1-3=-20
 - Horz: 1-2=-19, 2-3=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-3=-1, 1-3=-20
 - Horz: 1-2=-7, 2-3=19
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-3=-20, 1-3=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-61, 2-3=-43, 1-3=-20
 - Horz: 1-2=11, 2-3=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-3=-61, 1-3=-20
 - Horz: 1-2=-7, 2-3=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-36, 2-3=-45, 1-3=-20
 - Horz: 1-2=-14, 2-3=5
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-45, 2-3=-36, 1-3=-20
 - Horz: 1-2=-5, 2-3=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-20, 1-3=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-3=-60, 1-3=-20

Continued on page 3

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501372
J1221-6805	VB8	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:26:21 2021 Page 3
 ID:mHVPtvPrIWfejLZnULY80lyxYfS-3Dv1w0P1qZL1GCMe91Jb71aWaTXDR250t?X5py47xG

LOAD CASE(S)

- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-3=-20, 1-3=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-3=-50, 1-3=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

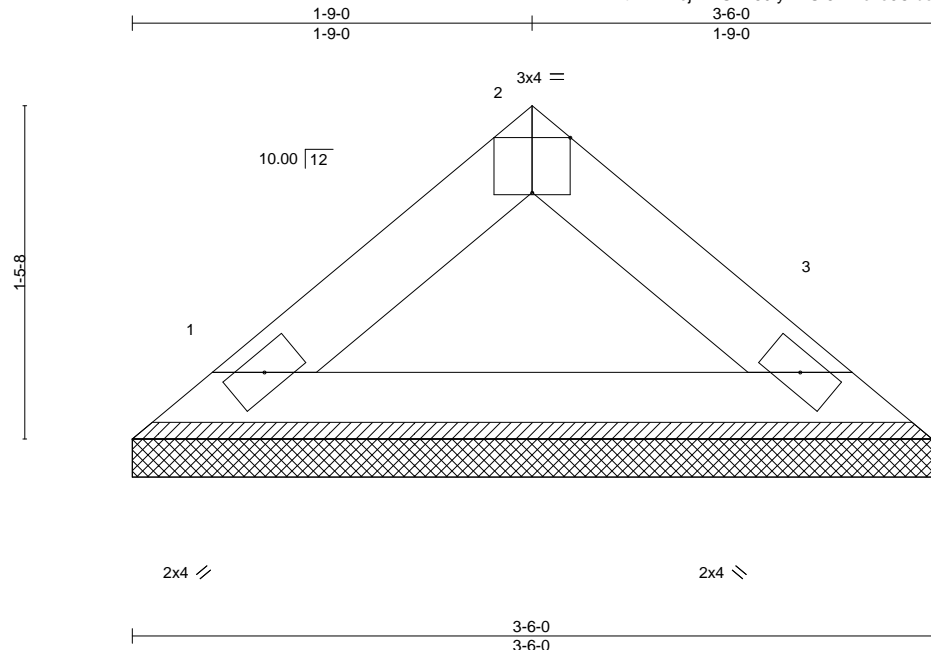
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1221-6805	Truss VB9	Truss Type VALLEY	Qty 1	Ply 1	Regency / 5 North Farm / Harnett	E16501373
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Comtech, Inc., Fayetteville, NC 28309, Mitek 8,430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:26:53 2021 Page 1
 ID:mHVptvPrIWfejLZnULY80lyxYfS-8Nr7ezo6CfbotBeWwtcqt3jTowjwDpMriDCyy47wm



Scale = 1:10.1

Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a
Vert(CT)	n/a	-	n/a
Horz(CT)	0.00	3	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 11 lb	FT = 20%		

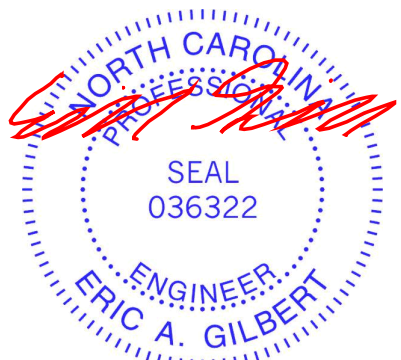
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=108/3-6-0 (min. 0-1-8), 3=108/3-6-0 (min. 0-1-8)
 Max Horz 1=27(LC 9)
 Max Uplift 1=5(LC 12), 3=5(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-84/46, 2-3=-84/46
 BOT CHORD 1-3=-6/51

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 5 lb uplift at joint 3.
 - Non Standard bearing condition. Review required.

- LOAD CASE(S)**
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-3=-50, 1-3=-20
 - Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-3=-20, 1-3=-40
 - Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=40, 2-3=40, 1-3=-12
 Horz: 1-2=-52, 2-3=52
 - Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60



December 29, 2021

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501373
J1221-6805	VB9	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:26:53 2021 Page 2
 ID:mHVpTvPrIWfejLZnULY80lyxYfS-8Nr7eozoCfbotBeWwWtcqutc3jTowjwDpMrIDCyy47wm

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=40, 2-3=40, 1-3=-12
 - Horz: 1-2=-52, 2-3=52
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - Horz: 1-2=40, 2-3=-40
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 1-3=-20
 - Horz: 1-2=40, 2-3=-40
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-3=11, 1-3=-12
 - Horz: 1-2=1, 2-3=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=11, 2-3=-13, 1-3=-12
 - Horz: 1-2=-23, 2-3=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-35, 2-3=-11, 1-3=-20
 - Horz: 1-2=15, 2-3=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-3=-35, 1-3=-20
 - Horz: 1-2=-9, 2-3=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-3=9, 1-3=-12
 - Horz: 1-2=-33, 2-3=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-3=21, 1-3=-12
 - Horz: 1-2=-21, 2-3=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-3=9, 1-3=-12
 - Horz: 1-2=-33, 2-3=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-3=21, 1-3=-12
 - Horz: 1-2=-21, 2-3=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-1, 2-3=-13, 1-3=-20
 - Horz: 1-2=-19, 2-3=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-3=-1, 1-3=-20
 - Horz: 1-2=-7, 2-3=19
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-3=-20, 1-3=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-61, 2-3=-43, 1-3=-20
 - Horz: 1-2=11, 2-3=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-3=-61, 1-3=-20
 - Horz: 1-2=-7, 2-3=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-36, 2-3=-45, 1-3=-20
 - Horz: 1-2=-14, 2-3=5
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-45, 2-3=-36, 1-3=-20
 - Horz: 1-2=-5, 2-3=14
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-20, 1-3=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-3=-60, 1-3=-20

Continued on page 3

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501373
J1221-6805	VB9	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:26:53 2021 Page 3
 ID:mHVptvPrIWfejLZnULY80lyxYfS-8Nr7ezo6CfbotBeWWtcqutc3jTOwjwDpMriDCyy47wm

LOAD CASE(S)

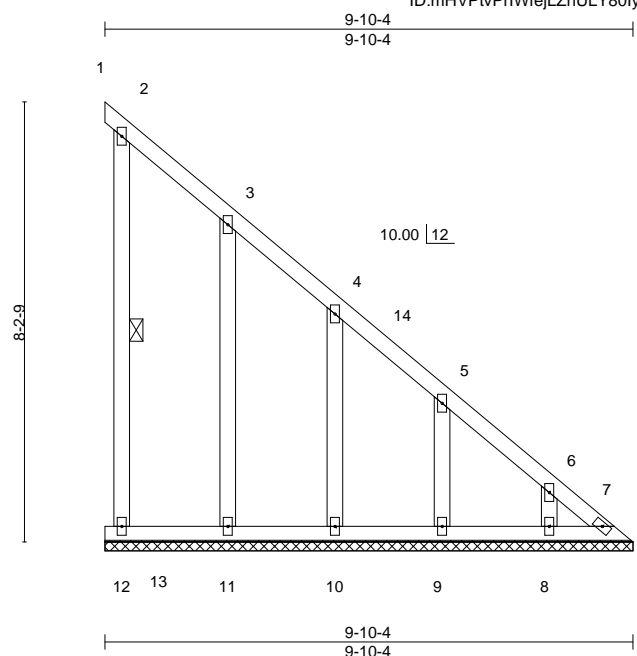
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-3=-20, 1-3=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-3=-50, 1-3=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 63 lb	FT = 20%

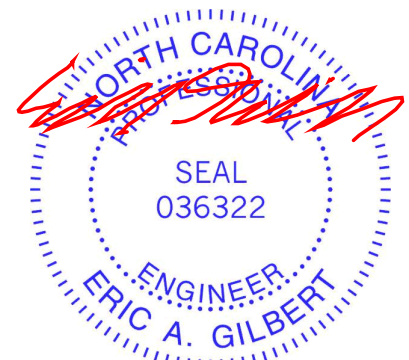
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 2-12
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 12=102/9-10-4 (min. 0-1-8), 1=4/9-10-4 (min. 0-1-8), 7=28/9-10-4 (min. 0-1-8), 13=-12/9-10-4 (min. 0-1-8), 11=170/9-10-4 (min. 0-1-8), 10=157/9-10-4 (min. 0-1-8), 9=164/9-10-4 (min. 0-1-8), 8=142/9-10-4 (min. 0-1-8)
 Max Horz 1=-369(LC 13)
 Max Uplift 12=-48(LC 13), 1=-107(LC 11), 7=-20(LC 13), 13=-57(LC 18), 11=-121(LC 13), 10=-108(LC 13), 9=-114(LC 13), 8=-98(LC 13)
 Max Grav 12=180(LC 20), 1=303(LC 13), 7=33(LC 20), 11=225(LC 20), 10=176(LC 20), 9=189(LC 20), 8=161(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-12=-92/75, 1-2=-396/477, 2-3=-362/427, 3-4=-270/320, 4-14=-165/224, 5-14=-188/217, 5-6=-102/118, 6-7=-19/35
 BOT CHORD 12-13=0/0, 11-12=0/1, 10-11=0/1, 9-10=0/1, 8-9=0/1, 7-8=0/1
 WEBS 3-11=-185/149, 4-10=-167/137, 5-9=-176/142, 6-8=-149/121

- 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) gable end zone and C-C Exterior(2) 0-0-0 to 6-3-8, Interior(1) 6-3-8 to 9-5-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are 2x4 MT20 unless otherwise indicated.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 12, 107 lb uplift at joint 1, 20 lb uplift at joint 7, 57 lb uplift at joint 13, 121 lb uplift at joint 11, 108 lb uplift at joint 10, 114 lb uplift at joint 9 and 98 lb uplift at joint 8.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-7=-60, 7-13=-20
 - 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-7=-50, 12-13=-20, 11-12=-50, 7-11=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501374
J1221-6805	VMB1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:27:55 2021 Page 2
ID:mHVpTvPrIWfjLZnULY80lyxYfS-JJaZe9y?ciP?JiOQ8vjMPxBELTYyExpdxVnVNMMy47Vo

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 7-13=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-5=36, 5-7=28, 7-13=-12
Horz: 1-2=48, 2-5=48, 5-7=40
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-14=28, 7-14=36, 7-13=-12
Horz: 1-2=40, 2-14=40, 7-14=48
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-7=-59, 7-13=-20
Horz: 1-2=-39, 2-7=-39
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-59, 2-7=-59, 7-13=-20
Horz: 1-2=-39, 2-7=-39
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-7=15, 7-13=-12
Horz: 1-2=27, 2-7=27
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-7=-15, 7-13=-12
Horz: 1-2=-3, 2-7=-3
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-7=-7, 7-13=-20
Horz: 1-2=13, 2-7=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-7=-37, 7-13=-20
Horz: 1-2=-17, 2-7=-17
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-7=15, 7-13=-12
Horz: 1-2=27, 2-7=27
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-7=35, 7-13=-12
Horz: 1-2=47, 2-7=47
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-7=15, 7-13=-12
Horz: 1-2=27, 2-7=27
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-7=35, 7-13=-12
Horz: 1-2=47, 2-7=47
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-7=-7, 7-13=-20
Horz: 1-2=13, 2-7=13
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-7=13, 7-13=-20
Horz: 1-2=33, 2-7=33
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 12-13=-20, 11-12=-60, 7-11=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-40, 12-13=-20, 11-12=-50, 7-11=-20
Horz: 1-2=10, 2-7=10
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-63, 2-7=-63, 12-13=-20, 11-12=-50, 7-11=-20
Horz: 1-2=-13, 2-7=-13
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501374
J1221-6805	VMB1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:27:55 2021 Page 3
 ID:mHVPtvPrIWfejLZnULY80lyxYfS-JJaZe9Y?ciP?JiOQ8vjMPxBelTYyExpvdVnVNMMy47Vo

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-40, 2-7=-40, 12-13=-20, 11-12=-50, 7-11=-20

Horz: 1-2=10, 2-7=10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-25, 2-7=-25, 12-13=-20, 11-12=-50, 7-11=-20

Horz: 1-2=25, 2-7=25

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

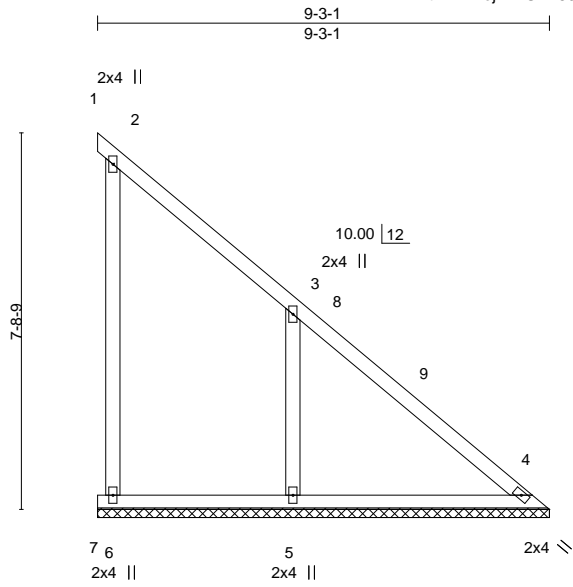
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1221-6805	Truss VMB2	Truss Type VALLEY	Qty 1	Ply 1	Regency / 5 North Farm / Harnett	E16501375
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Comtech, Inc., Fayetteville, NC 28309, Mitek
 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:28:33 2021 Page 1
 ID:mHVptvPriWfejLZnULY80lyxYfs-Cctxd9?qfNCctYHkNtPGyyl6JnU8874XMP_Vj9y47vC
 Job Reference (optional)



Scale = 1:47.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 47 lb	FT = 20%

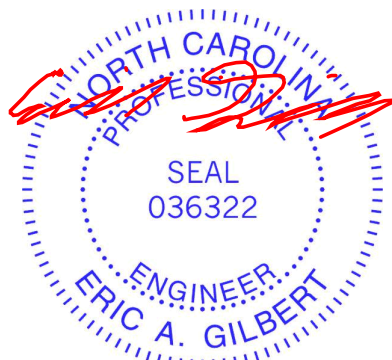
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) 6=174/9-3-1 (min. 0-1-8), 1=35/9-3-1 (min. 0-1-8), 4=157/9-3-1 (min. 0-1-8), 7=-10/9-3-1 (min. 0-1-8), 5=423/9-3-1 (min. 0-1-8)
 Max Horz 1=-240(LC 13)
 Max Uplift 6=-42(LC 13), 1=-115(LC 11), 4=-61(LC 13), 7=-195(LC 18), 5=-167(LC 13)
 Max Grav 6=380(LC 20), 1=229(LC 13), 4=171(LC 20), 5=519(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-6=-192/173, 1-2=-409/476, 2-3=-334/369, 3-8=-54/135, 8-9=-83/131, 4-9=-116/114
 BOT CHORD 6-7=0/0, 5-6=-1/2, 4-5=-1/2
 WEBS 3-5=-437/338

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 6-2-11, Interior(1) 6-2-11 to 8-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Bearing at joint(s) 1 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 42 lb uplift at joint 6, 115 lb uplift at joint 1, 61 lb uplift at joint 4, 195 lb uplift at joint 7 and 167 lb uplift at joint 5.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-4=-60, 4-7=-20
 - 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-4=-50, 6-7=-20, 5-6=-50, 4-5=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-4=-20, 4-7=-40
 - 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



December 29, 2021

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501375
J1221-6805	VMB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:28:33 2021 Page 2
ID:mHVpTvPriWfjeLZnULY80lyxYfS-Cctxd9?qfNCctYHkNTPGyyl6JnU8874XMP_Wj9y47vC

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=36, 2-9=36, 4-9=29, 4-7=-12
 - Horz: 1-2=48, 2-9=48, 4-9=41
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=29, 2-8=29, 4-8=36, 4-7=-12
 - Horz: 1-2=41, 2-8=41, 4-8=48
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-59, 2-4=-59, 4-7=-20
 - Horz: 1-2=-39, 2-4=-39
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-59, 2-4=-59, 4-7=-20
 - Horz: 1-2=-39, 2-4=-39
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=11, 2-4=11, 4-7=-12
 - Horz: 1-2=23, 2-4=23
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-4=-13, 4-7=-12
 - Horz: 1-2=-1, 2-4=-1
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-11, 2-4=-11, 4-7=-20
 - Horz: 1-2=9, 2-4=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-35, 2-4=-35, 4-7=-20
 - Horz: 1-2=-15, 2-4=-15
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-4=9, 4-7=-12
 - Horz: 1-2=21, 2-4=21
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-4=21, 4-7=-12
 - Horz: 1-2=33, 2-4=33
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=9, 2-4=9, 4-7=-12
 - Horz: 1-2=21, 2-4=21
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=21, 2-4=21, 4-7=-12
 - Horz: 1-2=33, 2-4=33
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-13, 2-4=-13, 4-7=-20
 - Horz: 1-2=7, 2-4=7
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-1, 2-4=-1, 4-7=-20
 - Horz: 1-2=19, 2-4=19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-20, 2-4=-20, 6-7=-20, 5-6=-60, 4-5=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-43, 2-4=-43, 6-7=-20, 5-6=-50, 4-5=-20
 - Horz: 1-2=7, 2-4=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-61, 2-4=-61, 6-7=-20, 5-6=-50, 4-5=-20
 - Horz: 1-2=-11, 2-4=-11
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-2=-45, 2-4=-45, 6-7=-20, 5-6=-50, 4-5=-20
 - Horz: 1-2=5, 2-4=5

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Regency / 5 North Farm / Harnett	E16501375
J1221-6805	VMB2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 29 11:28:33 2021 Page 3
 ID:mHVptvPrIWfejLZnULY80lyxYfs-Cctxd9?qfNCctYHkNtPGyyl6JnU8874XMP_VWj9y47vC

LOAD CASE(S)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-36, 2-4=-36, 6-7=-20, 5-6=-50, 4-5=-20

Horz: 1-2=14, 2-4=14

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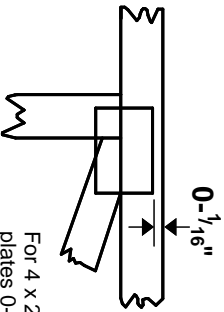
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



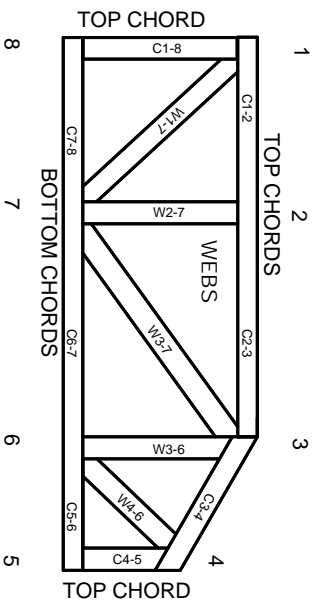
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.