

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0125-0034

Weaver/Lot 3A Elbridge 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: I70986695 thru I70986721

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



January 25,2025

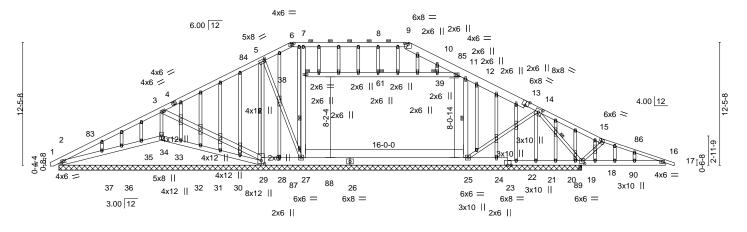
Gilbert, Eric

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.

Job Truss Truss Type Qty Ply Weaver/Lot 3A Elbridge Farm/Harnett 170986695 J0125-0034 A1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:29 2025 Page 1 Comtech, Inc.

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 55-10-8 63-3₋0 0-10-8 39-4-7 62-4-8 23-6-1 14-11-14 9-11-9 6-6-8 6-6-0

Scale = 1:116.8



	-0 ₁ 1Q-	8 21-4-8	Ĺ	53-8-12	62-4-8 63-3 _F 0
	0-10 ^l -8	3 20-6-0	l	32-4-4	8-7-12 0-10 ⁻ 8
Plate Off	sets (X,Y)	[2:0-2-9,0-2-0], [5:0-1-12,0-2-8], [:0-3-0,0-1-9], [9:0-4-0,0-1-7],	[13:0-4-0,Edge], [14:0-4-0,0-3-12], [18:0-3-0,0-3-8], [29:0-	3-12,0-4-0]
	-	2710110	001		DI ATEO ODID
LOADIN	G (pst)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.17 25-27 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.22 25-27 >879 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.01 18 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 2-37 >999 240	Weight: 693 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 *Except* TOP CHORD Structural wood sheathing directly applied or 5-9-10 oc purlins,

9-13: 2x10 SP No.1, 15-17: 2x4 SP No.1 2x6 SP No.1 *Except*

2-0-0 oc purlins (6-0-0 max.): 6-9. 26-29,23-26: 2x10 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 2x4 SP No.2 *Except* **WEBS** 27-38, 12-25, 5-29, 14-18 1 Row at midpt

JOINTS 3-29,7-27,12-25,11-38: 2x6 SP No.1 1 Brace at Jt(s): 38, 39, 61 **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 53-0-0.

BOT CHORD

Max Horz 2=246(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 37, 36 except 2=-141(LC 13)

34=-420(LC 12), 29=-152(LC 12), 25=-239(LC 13), 18=-926(LC 9), 28=-994(LC

18), 24=-881(LC 18), 19=-614(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 37, 36, 35, 33, 32, 31, 30, 21, 20

except 2=342(LC 1), 34=1151(LC 1), 29=367(LC 20), 27=1673(LC 18), 25=1531(LC

21), 18=2220(LC 25), 18=2207(LC 1), 22=411(LC 18), 19=329(LC 9)

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

TOP CHORD 2-3=-428/237, 3-5=-779/535, 5-6=-648/649, 9-10=-742/641, 10-11=-869/654,

11-12=-800/599, 12-14=-693/327, 14-15=-1002/1157, 15-16=-964/911, 6-7=-589/633,

7-8=-633/657, 8-9=-633/657

BOT CHORD 2-37=-89/335, 36-37=-57/300, 35-36=-71/318, 34-35=-67/312, 33-34=-68/313,

32-33=-68/316, 31-32=-68/315, 30-31=-68/316, 29-30=-69/313, 28-29=-55/568 27-28=-51/577, 25-27=-45/579, 24-25=-73/394, 22-24=-85/394, 21-22=-73/394,

20-21=-73/394, 19-20=-73/394, 18-19=-73/394, 16-18=-800/998

WEBS 3-29=-60/356, 27-38=-315/176, 7-38=-274/154, 14-25=-323/524, 3-34=-992/588,

12-25=-697/617, 5-29=-318/240, 14-18=-1758/1171, 15-18=-251/218

- 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 Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 23-6-11, Corner(3) 23-6-11 to 27-11-8, Exterior(2) 27-11-8 to 35-4-10, Corner(3) 35-4-10 to 39-9-7, Exterior(2) 39-9-7 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.



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Continued on page 2



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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 3A Elbridge Farm/Harnett	
J0125-0034	A1GE	GABLE	1	1		170986695
00120-0004	IN TOE	OADLE	'		Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:29 2025 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 36 except (it=lb) 2=141, 34=420, 29=152, 25=239, 18=926, 28=994, 24=881, 19=614.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.



Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986696 **ROOF TRUSS** J0125-0034 A2 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:30 2025 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

38-5-15 6-9-0

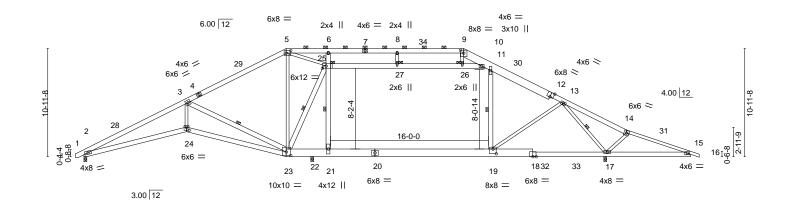
|41-0-0| |2-6-1|

48-5-8 7-5-8

55-0-0

61-6-0 6-6-0

Scale = 1:116.8



	10-4-12	20-6-0	23-1-12 25-0-0	41-0-0	52-10-4	61-6-0	
	10-4-12	10-1-4	¹ 2-7-12 ¹ -10-4 ¹	16-0-0	11-10-4	8-7-12	
Plate Offsets (X,Y)	[5:0-5-8,0-3-0], [9:0-4-0	0-3-8], [12:0-4-0),Edge], [19:0-4-0,0-5-12]	, [23:0-5-8,0-4-4], [24:0-3-0,0-3-8],	[25:0-4-8,0-2-12]		
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL) -0.34 19-21	>999 360	MT20 244/190	
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT) -0.61 19-21	>589 240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT) 0.28 17	n/a n/a		
BCDL 10.0	Code IRC2015/7	PI2014	Matrix-S	Wind(LL) 0.11 2-24	>999 240	Weight: 535 lb FT = 20%	

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 *Except* 9-12: 2x10 SP No.1, 14-16: 2x4 SP No.1

2x6 SP No.1 *Except*

10-4-12 10-4-12

BOT CHORD 20-23,18-20: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

3-23,23-25,6-21,11-19,10-25: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 17=0-3-8 (req. 0-3-9), 22=0-3-8 Max Horz 2=-141(LC 10)

Max Grav 2=1536(LC 2), 17=3045(LC 27), 22=1832(LC 26)

OR THE BUILDING DESIGNER.

TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins, except

2-0-0 oc purlins (4-1-5 max.): 5-9.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 3-23, 23-25, 21-25, 11-19, 13-17

WEBS JOINTS 1 Brace at Jt(s): 25, 26, 27

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)
ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

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

TOP CHORD 2-3=-4821/152, 3-5=-1864/81, 9-10=-1728/263, 10-11=-2357/6, 11-13=-2659/0,

13-14=-859/1150, 14-15=-852/906, 5-6=-1542/220, 6-8=-1546/231, 8-9=-1551/230

2-24=-2/4337, 23-24=0/4330, 22-23=0/2387, 21-22=0/2320, 19-21=0/2324, 17-19=0/1483, **BOT CHORD**

15-17=-795/857

WFBS 3-23=-3015/316, 23-25=-1861/0, 21-25=-180/1166, 6-25=-761/228, 13-19=-40/1232,

3-24=0/2305, 11-19=-259/529, 25-27=-1055/0, 26-27=-1054/0, 10-26=-1082/0,

9-26=0/340, 5-23=0/742, 13-17=-3350/515, 5-25=-277/324

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-0, Exterior(2) 20-6-0 to 24-9-4, Interior(1) 24-9-4 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 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.
- * 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) Ceiling dead load (10.0 psf) on member(s). 10-11, 25-27, 26-27, 10-26; Wall dead load (5.0psf) on member(s).21-25, 11-19
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
- 9) WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continued tity of a locating surface



January 25,2025

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 3A Elbridge Farm/Harnett
			_		170986696
J0125-0034	A2	ROOF TRUSS	5	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:30 2025 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

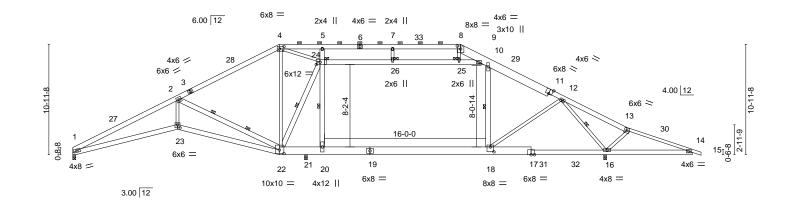
Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986697 J0125-0034 A2A **ROOF TRUSS** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:31 2025 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

25-0-0 4-6-0

Scale = 1:114.4

61-6-0

6-6-0



		10-4-12	20-6-0	23-1-12 25-0-0	41-0-0	52-10-4	61-6-0	
	J.	10-4-12	10-1-4	¹ 2-7-12 ¹ -10-4 ¹	16-0-0	11-10-4	8-7-12	
Plate Offse	ets (X,Y)	[4:0-5-8,0-3-0], [8:0-4-0,0	0-3-8], [11:0-4-	0,Edge], [18:0-4-0,0-5-12	, [22:0-5-8,0-4-4], [23:0-3-0,0-3-8 _]	, [24:0-4-8,0-2-12]		
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 0.99	Vert(LL) -0.34 18-20	>999 360	MT20 244/190	
TCDL	10.0	Lumber DOL	1.15	BC 0.73	Vert(CT) -0.61 18-20	>589 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT) 0.28 16	n/a n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-S	Wind(LL) 0.11 23	>999 240	Weight: 533 lb FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1

2x6 SP No.1 *Except*

BOT CHORD 19-22,17-19: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

2-22,22-24,5-20,10-18,9-24: 2x6 SP No.1

REACTIONS. (size) 1=0-3-8, 16=0-3-8 (req. 0-3-9), 21=0-3-8

Max Horz 1=-142(LC 10)

Max Grav 1=1491(LC 2), 16=3045(LC 27), 21=1833(LC 26)

BRACING-

TOP CHORD Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-1-5 max.): 4-8.

48-5-8 7-5-8

41-0-0 2-6-1

38-5-15

6-9-0

55-0-0

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

WEBS 22-24, 20-24, 10-18, 12-16 1 Row at midpt 2 Rows at 1/3 pts 2-22

JOINTS 1 Brace at Jt(s): 24, 25, 26

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

OR THE BUILDING DESIGNER.

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

TOP CHORD 1-2=-4825/170, 2-4=-1864/81, 8-9=-1727/263, 9-10=-2357/4, 10-12=-2659/0,

12-13=-859/1150, 13-14=-852/906, 4-5=-1542/219, 5-7=-1546/231, 7-8=-1551/230

1-23=-24/4342, 22-23=-22/4335, 21-22=0/2387, 20-21=0/2320, 18-20=0/2323, **BOT CHORD**

16-18=0/1483. 14-16=-795/857

WFBS 2-22=-3023/343, 22-24=-1861/0, 20-24=-180/1166, 5-24=-761/231, 12-18=-39/1232,

2-23=0/2306, 10-18=-259/529, 24-26=-1055/0, 25-26=-1054/0, 9-25=-1082/0,

8-25=0/340, 4-22=0/743, 12-16=-3350/515, 4-24=-277/324

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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-9-4, Interior(1) 24-9-4 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 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.
- * 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) Ceiling dead load (10.0 psf) on member(s). 9-10, 24-26, 25-26, 9-25; Wall dead load (5.0psf) on member(s).20-24, 10-18
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
- 9) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continued the page aging surface.



January 25,2025

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



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 3A Elbridge Farm/Harnett
10405 0004	404	DOOF TRUES	_		170986697
J0125-0034	A2A	ROOF TRUSS	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:31 2025 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

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

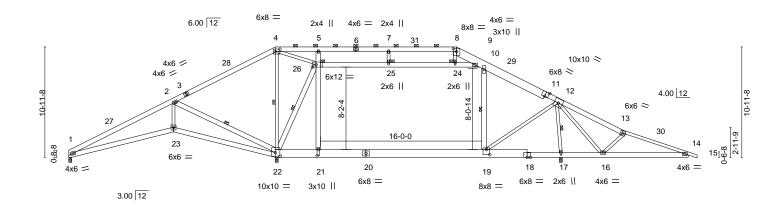
12) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986698 J0125-0034 **A3 ROOF TRUSS** 3 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:32 2025 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:114.4



41-0-0 2-6-1

38-5-15 6-9-0

		10-4-12	20-6-0	20-7-12 25-0-0	41-0-0	48-10-4	52-10-4 61-6-0	
	l l	10-4-12	10-1-4	0-1 ^{!!} 12 4-4-4	16-0-0	7-10-4	4-0-0 8-7-12	· ·
Plate Offs	sets (X,Y)	[4:0-5-8,0-3-0], [8:0-4-0,0)-3-8], [11:0-4-	0,Edge], [19:0-4-0,0-6	0], [21:0-7-4,0-1-8], [22:0-5-8,0-4-4],	[26:0-4-8,0-2-12]		
LOADING	3 (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL) -0.33 19-21	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.81	Vert(CT) -0.51 19-21	>666 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT) 0.12 17	n/a n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-S	Wind(LL) 0.06 1-23	>999 240	Weight: 540 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 *Except*

8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

20-22: 2x10 SP 2400F 2.0E, 18-20: 2x10 SP No.1

WEBS 2x4 SP No.2 *Except*

2-22,5-21,10-19,9-26,22-26: 2x6 SP No.1

REACTIONS. (size) 1=0-3-8, 22=0-3-8, 17=0-3-8 Max Horz 1=-142(LC 10)

Max Uplift 1=-11(LC 12)

Max Grav 1=842(LC 24), 22=2485(LC 2), 17=2974(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2120/26, 2-4=-395/168, 8-9=-1579/223, 9-10=-1296/0, 10-12=-1370/0,

12-13=-840/1213, 13-14=-833/976, 4-5=-1340/171, 5-7=-1377/188, 7-8=-1382/187

1-23=-60/1877, 22-23=-59/1871, 21-22=0/1205, 19-21=0/1181, 17-19=-1215/1160, **BOT CHORD**

16-17=-1281/1176, 14-16=-860/840

WEBS 2-22=-1941/267, 21-26=0/1909, 5-26=-703/221, 12-19=-380/2539, 2-23=0/1113,

10-19=-876/491, 25-26=-616/807, 24-25=-615/805, 9-24=-616/766, 8-24=0/345,

12-16=-434/440, 4-22=-685/488, 12-17=-3042/780, 4-26=-390/1391, 22-26=-2266/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-9-4, Interior(1) 24-9-4 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or
- 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.
- * 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). 9-10, 25-26, 24-25, 9-24; Wall dead load (5.0psf) on member(s).21-26, 10-19
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
- 9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continuacity of pagaring surface



Structural wood sheathing directly applied or 4-6-15 oc purlins,

2-22, 10-19, 4-22, 12-17, 22-26

2-0-0 oc purlins (5-0-10 max.): 4-8.

1 Brace at Jt(s): 24, 25, 26

1 Row at midpt

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 3A Elbridge Farm/Harnett
10405 0004		DOOF TRUING			170986698
J0125-0034	A3	ROOF TRUSS	3	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

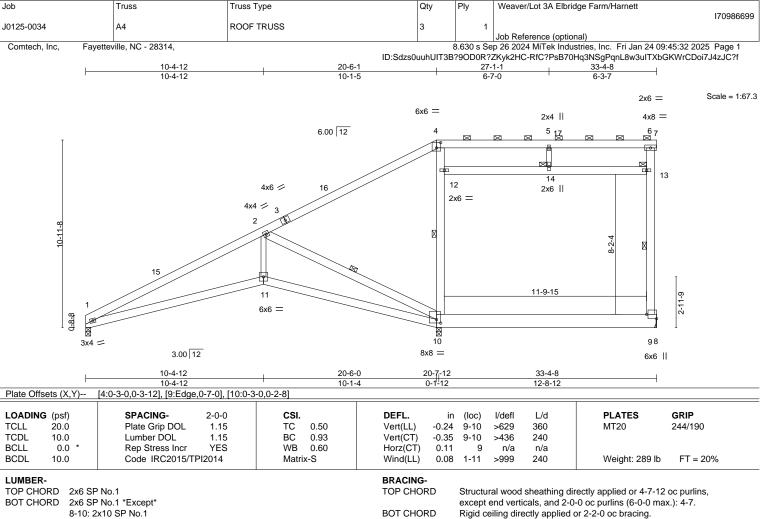
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:32 2025 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932



WEBS

JOINTS

1 Row at midpt

1 Brace at Jt(s): 6, 13, 14

8-10: 2x10 SP No.1 2x6 SP No.1 *Except*

WEBS 2-11,5-14: 2x4 SP No.2

(size) 9=Mechanical, 1=0-3-8, 10=0-3-8

Max Horz 1=343(LC 12)

Max Grav 9=1093(LC 2), 1=809(LC 1), 10=1861(LC 2)

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

TOP CHORD 1-2=-1961/301, 2-4=-333/203, 9-13=-523/107, 6-13=-371/100

BOT CHORD 1-11=-935/1730, 10-11=-933/1720

WEBS 2-11=-328/1031, 2-10=-1810/826, 10-12=-836/436, 4-12=-589/425

NOTES-

REACTIONS.

- 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 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.
- 3) 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.
- 5) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.



9-13, 2-10, 10-12

January 25,2025

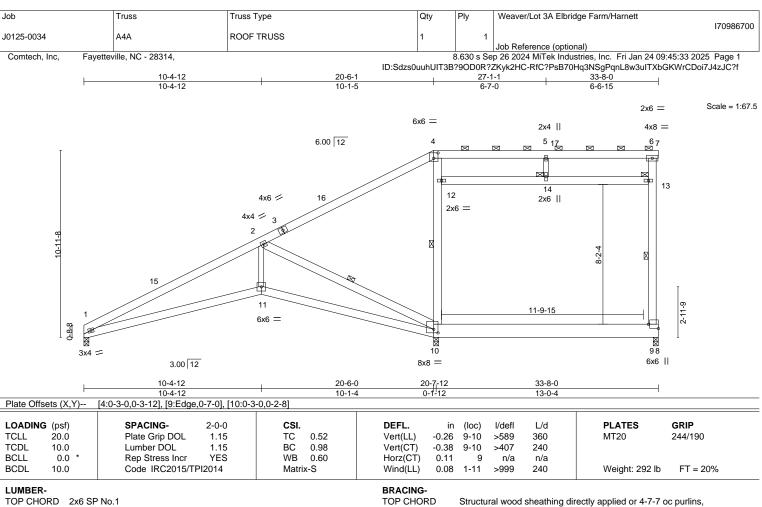


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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BOT CHORD

WEBS

JOINTS

LUMBER-

REACTIONS.

2x6 SP No.1 TOP CHORD

BOT CHORD 2x6 SP No.1 *Except* 8-10: 2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

2-11,5-14: 2x4 SP No.2

(size) 9=0-3-8, 1=0-3-8, 10=0-3-8

Max Horz 1=343(LC 12)

Max Grav 9=1120(LC 2), 1=811(LC 1), 10=1883(LC 2)

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

TOP CHORD 1-2=-1965/303, 2-4=-332/200, 9-13=-536/110, 6-13=-382/106

BOT CHORD 1-11=-936/1733. 10-11=-935/1723

WEBS 2-11=-329/1032, 2-10=-1808/827, 10-12=-846/437, 4-12=-594/425

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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) 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.
- 5) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
- 7) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Attic room checked for L/360 deflection.



except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

9-13, 2-10, 10-12

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 6, 13, 14

January 25,2025

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Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986701 J0125-0034 A5 **ROOF TRUSS** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:34 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 33-8-0 10-4-12 10-1-5 6-7-0 6-7-0 Scale = 1:72.2 2x6 = 8x8 = 5x10 M18AHS = 2x4 || 6.00 12 6 20 5 16 4x6 / 19 2x6 =2x6 || 11-9-15 24 14 13 22 23 10 9 4x4 =12 11 4x6 = 3x6 = 6x6 || 8x8 = 2x4 // 20-6-1 33-8-0 8-2-0 8-3-12 13-1-15 4-0-5 Plate Offsets (X,Y)--[5:0-4-0,0-3-8], [7:Edge,0-2-8], [10:Edge,0-7-0], [11:0-4-0,Edge] LOADING (psf) SPACING-DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) -0.21 10-11 >984 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.82 Vert(CT) -0.31 10-11 >653 240 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.91 Horz(CT) -0.01 10 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 0.03 2-13 >999 240 Weight: 307 lb FT = 20%Matrix-S **BRACING-**2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD **BOT CHORD** 2x6 SP No.1 *Except* except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8. 9-11: 2x10 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 5-4-11 oc bracing. WEBS 2x6 SP No.1 *Except* **WEBS** 10-16, 5-12 1 Row at midpt 6-17,3-12,3-13: 2x4 SP No.2 **JOINTS** 1 Brace at Jt(s): 7, 16, 17

LUMBER-

REACTIONS. (size) 10=0-3-8, 2=0-3-8, 12=0-3-8

Max Horz 2=346(LC 12) Max Uplift 2=-36(LC 12)

Max Grav 10=1088(LC 2), 2=449(LC 1), 12=2557(LC 2)

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

TOP CHORD 2-3=-373/312, 3-5=-373/928, 5-6=-272/6, 6-7=-272/6, 10-16=-548/112, 7-16=-401/109

BOT CHORD 2-13=-367/261, 12-13=-402/176

WEBS 11-15=0/1137, 5-15=0/1243, 5-12=-2131/144, 3-12=-817/356, 3-13=0/406

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates 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 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.
- 6) Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s).11-15
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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.



January 25,2025

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Job Truss Truss Type Qty Ply Weaver/Lot 3A Elbridge Farm/Harnett 170986702 J0125-0034 A6 **ROOF TRUSS** 2 ✓ Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:34 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 33-4-8 -0-10-8 0-10-8 20-6-1 10-4-12 10-1-5 6-7-0 6-3-7 2x6 = Scale = 1:72.0 6x6 = 2x4 || 4x8 =6.00 12 6 20 ⁷8 16 17 4x6 / 2x6 =2x6 II 11-9-15 ₩ 12 14 13 22 23 10 9 11 4x6 = 4x4 = 6x6 || 8x8 = 2x4 // 20-6-1 8-2-0 12-10-7 8-3-12 4-0-5 Plate Offsets (X,Y)--[5:0-3-0,0-3-4], [10:Edge,0-7-0], [11:0-4-0,Edge] LOADING (psf) SPACING-3-6-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.51 Vert(LL) -0.17 10-11 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.76 Vert(CT) -0.26 10-11 >760 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.76 Horz(CT) -0.00 10 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 0.02 2-13 >999 240 Weight: 590 lb FT = 20%Matrix-S BRACING-TOP CHORD TOP CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).

BOT CHORD

WEBS

JOINTS

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

5-12

1 Row at midpt

1 Brace at Jt(s): 5, 7, 15, 16, 17

LUMBER-

REACTIONS.

BOT CHORD 2x6 SP No.1 *Except* 9-11: 2x10 SP No.1

2x4 SP No.2 *Except* WEBS

7-10,5-11,16-17: 2x6 SP No.1

(size) 10=Mechanical, 2=0-3-8, 12=0-3-8

Max Horz 2=605(LC 12) Max Uplift 2=-59(LC 12)

Max Grav 10=1875(LC 2), 2=803(LC 1), 12=4398(LC 2)

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

TOP CHORD 2-3=-656/491, 3-5=-656/1555, 5-6=-459/7, 6-7=-458/7, 10-17=-939/191, 7-17=-686/181

BOT CHORD 2-13=-640/485, 12-13=-701/341, 11-12=-322/319, 10-11=-268/290 **WEBS**

11-16=0/1876, 5-16=0/2074, 6-15=-73/268, 5-12=-3571/258, 3-12=-1429/624,

3-13=0/702, 15-16=-229/418, 15-17=-229/418

NOTES-

1) 2-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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; 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.
- * 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) Ceiling dead load (10.0 psf) on member(s). 15-16, 15-17; Wall dead load (5.0psf) on member(s).11-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 9) Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.



January 25,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986703 J0125-0034 A7GE **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:35 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10₁8 0-10-8 21-10-1 24-4-9

10-6-13

2-6-8

9-10-7

Scale = 1:79.0

2x6 = 6x6 = 8x8 II 78 6.00 12 3x6 / 52 26 4x6 / П 2x6 || 2x6 || 2x6 2x6 = 2x6 || 3x4 🖊 2x6 || 2x6 || 3x10 3x10 3x10 11-9-15

-0₁10₁8 9-0-8 0-10-8 8-2-0 16-10-12 8-3-12

13

3x4 =

¹⁷
₅₃ 16

1<u>5</u>4

3x6 II

Plate Offsets (X,Y)--[2:0-2-14,0-2-0], [4:0-2-2,Edge], [10:0-3-4,0-3-8] LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.49 Vert(LL) 0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.61 Vert(CT) 0.01 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.39 Horz(CT) 0.09 8 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 393 lb FT = 20%Matrix-S

BRACING-LUMBER-

10-4-12

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 *Except*

9-10: 2x10 SP No.1 2x4 SP No.2 *Except* WEBS

7-9,5-10,25-26: 2x6 SP No.1

2x4 SP No.2 **OTHERS**

TOP CHORD

11₅₅

10 56

8x8 =

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

q

3x10 ||

6-0-0 oc bracing: 9-10.

WEBS 9-26, 10-25, 5-13 1 Row at midp **JOINTS** 1 Brace at Jt(s): 26, 33

REACTIONS. All bearings 33-4-8.

Max Horz 2=567(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 19, 21 except 8=-506(LC 1),

9=-417(LC 8), 11=-774(LC 18), 18=-193(LC 12), 13=-278(LC 12), 22=-104(LC 12)

All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 17, 19, 21 except

8=325(LC 9), 9=1175(LC 27), 10=1742(LC 2), 12=304(LC 18), 18=374(LC 1),

13=389(LC 1), 22=267(LC 1)

4x6 =

22

21

20

4x6 =

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-622/331, 3-5=-546/334, 5-6=-335/43, 9-26=-1001/707, 7-26=-884/746

BOT CHORD 2-22=-407/243, 21-22=-407/243, 19-21=-407/243, 18-19=-407/243, 17-18=-494/335,

16-17=-494/335, 15-16=-494/335, 14-15=-494/335, 13-14=-494/335

WEBS 10-25=-737/688, 5-25=-570/642, 25-33=-214/252, 26-33=-217/250, 3-18=-425/273,

3-13=-305/411

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 Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 23-6-11, Corner(3) 23-6-11 to 27-11-8, Exterior(2) 27-11-8 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Ceiling dead load (10.0 psf) on member(s). 25-33, 26-33; Wall dead load (5.0psf) on member(s).10-25
- 11) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 19, 21 except Contilitude) &+506e9=417, 11=774, 18=193, 13=278, 22=104



January 25,2025

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



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 3A Elbridge Farm/Harnett
10405 0004	4705	CARLE			170986703
J0125-0034	A7GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:35 2025 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986704 J0125-0034 **B1** PIGGYBACK ATTIC Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:36 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

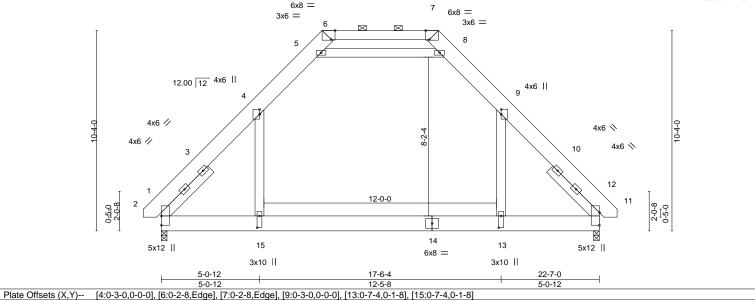
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 6-7.

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

5-0-12 5-0-12 12-5-8 5-0-12

Scale = 1:59.4



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	c) I/defl	L/d	PLATES G	RIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.15 13-1	5 >999	360	MT20 24	44/190
TCDL	10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.24 13-1	5 >999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.01	1 n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	5 >999	240	Weight: 265 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD

6-7: 2x6 SP No.1

BOT CHORD 2x10 SP No.1 2x6 SP No.1 WEBS

SLIDER Left 2x6 SP No.1 3-6-3, Right 2x6 SP No.1 3-6-3

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=287(LC 9)

Max Grav 2=1505(LC 2), 11=1505(LC 2)

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

TOP CHORD 2-4=-1950/0, 4-5=-1050/201, 5-6=-12/558, 7-8=-12/558, 8-9=-1050/201, 9-11=-1948/0,

6-7=-11/898

BOT CHORD 2-15=0/1084, 13-15=0/1090, 11-13=0/1082 **WEBS** 4-15=0/1121, 9-13=0/1121, 5-8=-1856/219

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 Corner(3) -0-6-7 to 3-10-5, Exterior(2) 3-10-5 to 8-6-12, Corner(3) 8-6-12 to 12-11-9, Exterior(2) 12-11-9 to 14-1-4, Corner(3) 14-1-4 to 18-6-1, Exterior(2) 18-6-1 to 23-2-7 zone; end vertical 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-15, 9-13
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986705 J0125-0034 B2 PIGGYBACK ATTIC Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:36 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

22-7-0 5-0-12 12-5-8 5-0-12

Scale = 1:69.2

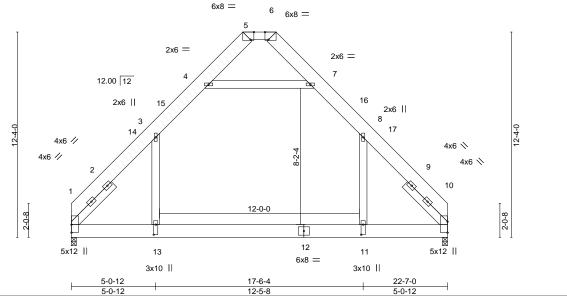


Plate Offsets (X,Y)-- [5:0-2-8,Edge], [6:0-2-8,Edge], [11:0-7-4,0-1-8], [13:0-7-4,0-1-8]

LOADING	· /	SPACING- 2-0	-	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	5	TC	0.47	Vert(LL)	-0.15	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5	BC	0.65	Vert(CT)	-0.24	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.41	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matri	x-S	Wind(LL)	0.04	13	>999	240	Weight: 271 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BOT CHORD

2x10 SP No.1 *Except* TOP CHORD

5-6: 2x6 SP No.1 2x10 SP No.1

2x6 SP No.1 WEBS SLIDER Left 2x6 SP No.1 3-6-3, Right 2x6 SP No.1 3-6-3

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=281(LC 11)

Max Grav 1=1489(LC 21), 10=1489(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-2029/0, 3-4=-1099/161, 7-8=-1098/161, 8-10=-2027/0, 5-6=0/292

BOT CHORD 1-13=0/1142, 11-13=0/1148, 10-11=0/1141 **WEBS** 3-13=0/1113, 8-11=0/1113, 4-7=-1292/175

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-8 to 4-5-5, Interior(1) 4-5-5 to 10-6-12, Exterior(2) 10-6-12 to 16-6-1, Interior(1) 16-6-1 to 22-7-8 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.
- * 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). 3-4, 7-8, 4-7; Wall dead load (5.0psf) on member(s).3-13, 8-11
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Attic room checked for L/360 deflection.



January 25,2025

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

2-0-0 oc purlins (10-0-0 max.): 5-6.

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

Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986706 J0125-0034 **B**3 PIGGYBACK ATTIC Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:37 2025 Page 1

ID: Sdzs 0 uuh UIT 3B? 9 ODOR? ZKyk2HC-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the p5-0-12 5-0-12 17-6-4 22-7-0 12-5-8 5-0-12

> Scale = 1:80.0 6x8 =

> > Structural wood sheathing directly applied or 5-5-3 oc purlins,

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

except end verticals.

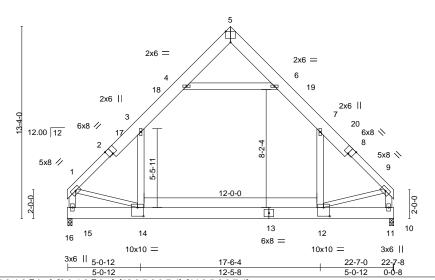


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [12:0-5-0,0-7-4], [14:0-5-0,0-7-4]

LOADING ((psf)	SPACING- 2-0-	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL 1.1	TC TC	0.42	Vert(LL)	-0.16 12-14	>999	360	MT20	244/190
TCDL 1	10.0	Lumber DOL 1.1	5 BC	0.67	Vert(CT)	-0.25 12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	S WB	0.40	Horz(CT)	0.01 11	n/a	n/a		
BCDL 1	10.0	Code IRC2015/TPI2014	Matri	x-S	Wind(LL)	0.05 12-14	>999	240	Weight: 264 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD 1-2,8-9: 2x6 SP No.1

BOT CHORD 2x10 SP No.1 WEBS 2x6 SP No.1 *Except* 1-14,9-12: 2x4 SP No.2

REACTIONS. (size) 15=0-3-8, 11=0-3-8

Max Horz 15=258(LC 9)

Max Grav 15=1495(LC 21), 11=1495(LC 20)

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

TOP CHORD 1-3=-1717/0, 3-4=-1088/150, 6-7=-1087/150, 7-9=-1717/0, 1-15=-1680/0, 9-11=-1681/0

BOT CHORD 14-15=-286/369, 12-14=0/1106

WEBS 3-14=0/794, 7-12=0/794, 4-6=-1263/178, 1-14=0/1079, 9-12=0/1082

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) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Weaver/Lot 3A Elbridge Farm/Harnett 170986707 PIGGYBACK ATTIC J0125-0034 B4

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:38 2025 Page 1

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-0-0 oc purlins (6-0-0 max.), except end verticals

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

(Switched from sheeted: Spacing > 2-8-0).

17-6-4 22-7-0 5-0-12 12-5-8 5-0-12

> Scale = 1:80.0 6x8 =

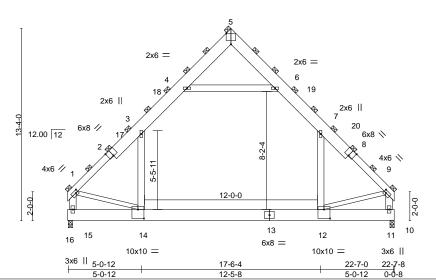


Plate Offsets (X,Y)-- [1:0-1-12,0-2-0], [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [9:0-1-12,0-2-0], [12:0-5-0,0-7-8], [14:0-5-0,0-7-8]

LOADING (psf)	SPACING- 4-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.16 12-14 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.26 12-14 >996 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.01 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 12-14 >999 240	Weight: 528 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD 1-2,8-9: 2x6 SP No.1

BOT CHORD 2x10 SP No.1 2x6 SP No.1 *Except* **WEBS** 1-14,9-12: 2x4 SP No.2

REACTIONS. (size) 15=0-3-8, 11=0-3-8

Max Horz 15=516(LC 9)

Max Grav 15=3994(LC 21), 11=3994(LC 20)

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

TOP CHORD $1-3=-3952/0,\ 3-4=-2403/332,\ 4-5=-132/535,\ 5-6=-132/535,\ 6-7=-2403/332,\ 7-9=-3951/0,\ 3-24=-2403/332,\ 4-5=-132/535,\ 5-6=-132/535,\ 6-7=-2403/332,\ 7-9=-3951/0,\ 7$

1-15=-3831/0. 9-11=-3832/0

BOT CHORD 14-15=-571/836, 12-14=0/2534, 11-12=-120/456

WEBS 3-14=0/1940, 7-12=0/1940, 4-6=-3003/424, 1-14=0/2337, 9-12=0/2344

NOTES-

- 1) 2-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, 2x10 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.

- Webs connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 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.

LOAD CASE(S) Standard

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



January 25,2025

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

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Job Truss Truss Type Qty Ply Weaver/Lot 3A Elbridge Farm/Harnett 170986707 J0125-0034 B4 PIGGYBACK ATTIC

Comtech, Inc, Fayetteville, NC - 28314,

Z Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:38 2025 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

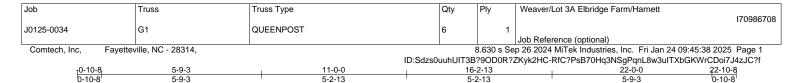
LOAD CASE(S) Standard

Uniform Loads (plf)

Veri: 15-16=-40, 14-15=-160(F=-120), 12-14=-80, 11-12=-160(F=-120), 10-11=-40, 1-3=-120, 3-4=-160, 4-5=-120, 5-6=-120, 6-7=-160, 7-9=-120, 4-6=-40 Drag: 3-14=-20, 7-12=-20



818 Soundside Road Edenton, NC 27932



5-2-13

5-2-13

Scale = 1:41.5

5-9-3

11-0-0

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

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

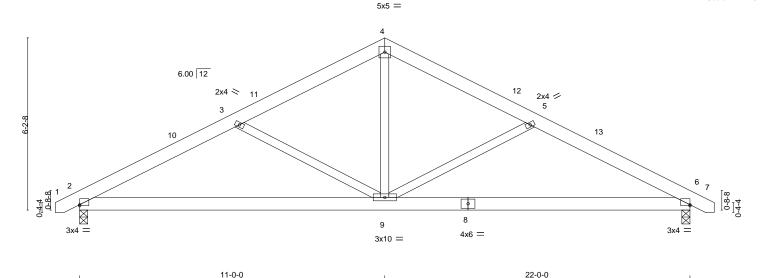


Plate Off	sets (X,Y)	[2:Eage,0-0-7], [6:0-0-0,0-0-7]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.07 6-9 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.15 6-9 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.02 6 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 9 >999 240 Weight: 139 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=-76(LC 10)

Max Uplift 6=-64(LC 13), 2=-64(LC 12) Max Grav 6=920(LC 1), 2=920(LC 1)

5-9-3

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

 $2\hbox{-}3\hbox{-}1389/378,\ 3\hbox{-}4\hbox{-}-1062/288,\ 4\hbox{-}5\hbox{-}-1062/288,\ 5\hbox{-}6\hbox{-}-1389/378}$ TOP CHORD

BOT CHORD 2-9=-252/1174, 6-9=-256/1174

WFBS 3-9=-359/240, 4-9=-73/616, 5-9=-359/240

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11-0-0

- 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) 6, 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



January 25,2025



Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986709 HIP SUPPORTED GABLE J0125-0034 G1GE Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:39 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-10-7

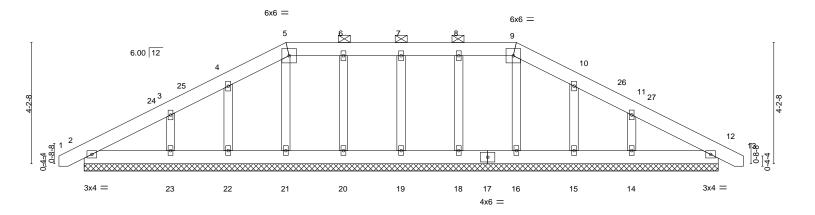
7-11-15

Scale = 1:40.0

0-10-8

22-10-8

7-0-1



0-10-8 0-10-8		23-9-0 0-10-8				
LOADING (psf)	SPACING- 2-0-0	CSI. DEI	(/	I/defl L/d		GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15		t(CT) 0.00 12	2 n/r 120 2 n/r 120	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.04 Hor Matrix-S	z(CT) 0.00 12	2 n/a n/a	Weight: 147 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 **BOT CHORD** 2x6 SP No.1

2-0-0 oc purlins (6-0-0 max.): 5-9. BOT CHORD

2x4 SP No.2 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-0-0.

0-10-8

7-0-1

(lb) -Max Horz 2=-79(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 15, 12 except 23=-109(LC 12),

14=-108(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 18, 19, 20, 21, 22, 23, 15, 14, 12

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

NOTES-

OTHERS

- 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 Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 7-0-11, Corner(3) 7-0-11 to 11-5-8, Exterior(2) 11-5-8 to 14-11-5, Corner(3) 14-11-5 to 19-4-2, Exterior(2) 19-4-2 to 22-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 19, 20, 21, 22, 15, 12 except (jt=lb) 23=109, 14=108.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 25,2025



Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986710 J0125-0034 Р1 COMMON Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:40 2025 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-10-8 16-0-0 16-10-8 8-0-0 8-0-0 0-10-8 Scale = 1:31.3 5x5 =3 6.00 12 4x6 = 4x6 = 2x4 | 16-0-0 Plate Offsets (X,Y)--[2:0-0-4,0-0-11], [4:0-0-4,0-0-11] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) 0.06 4-6 >999 240 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.24 Vert(CT) -0.05 2-6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-57(LC 10)

Max Uplift 2=-142(LC 9), 4=-142(LC 8) Max Grav 2=680(LC 1), 4=680(LC 1)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-873/842, 3-4=-873/840 **BOT CHORD** 2-6=-615/675, 4-6=-615/675

WFBS 3-6=-478/381

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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) except (jt=lb) 2=142, 4=142
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



FT = 20%

Weight: 90 lb

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

Rigid ceiling directly applied or 9-6-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986711 J0125-0034 P1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:40 2025 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

16-0-0

8-0-0

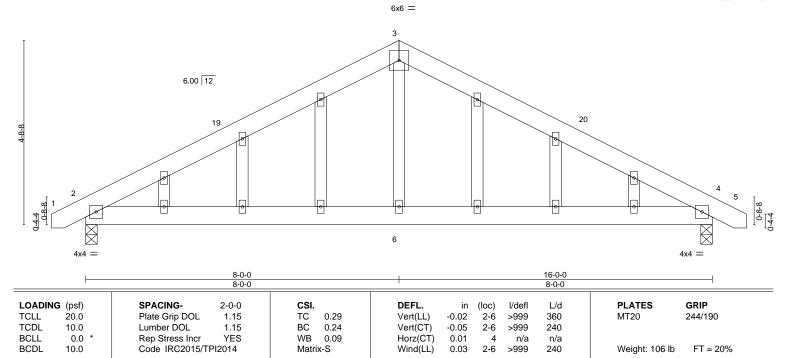
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Scale = 1:29.4

16-10-8

0-10-8



BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

-0-10-8 0-10-8

WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-88(LC 17)

Max Uplift 2=-153(LC 12), 4=-153(LC 13) Max Grav 2=680(LC 1), 4=680(LC 1)

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

TOP CHORD 2-3=-873/474. 3-4=-873/471 **BOT CHORD** 2-6=-228/675, 4-6=-228/675

WFBS 3-6=0/381

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 Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 8-0-0, Corner(3) 8-0-0 to 12-4-13, Exterior(2) 12-4-13 to 16-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8-0-0

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986712 J0125-0034 PB1 **PIGGYBACK** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:41 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 17-11-15

3-11-15

Scale = 1:31.1

7-0-0

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

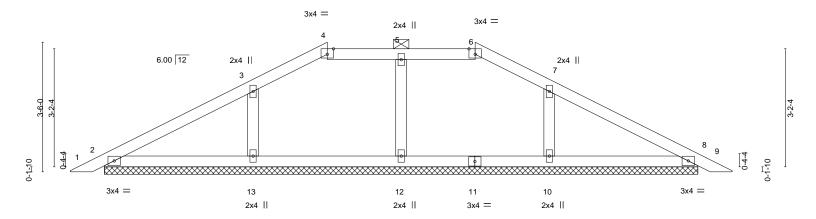


Plate Offsets (X,Y)--[4:0-2-0,Edge], [6:0-2-0,Edge], [7:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 0.00 9 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) 0.01 9 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.04 0.00 8 Horz(CT) n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 FT = 20%Matrix-S Weight: 62 lb

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 TOP CHORD

BOT CHORD 2x4 SP No.1 2-0-0 oc purlins (6-0-0 max.): 4-6.

OTHERS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-0-4.

Max Horz 2=42(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 13, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 12=255(LC 1), 13=341(LC 23), 10=341(LC 24)

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

7-0-0

NOTES-

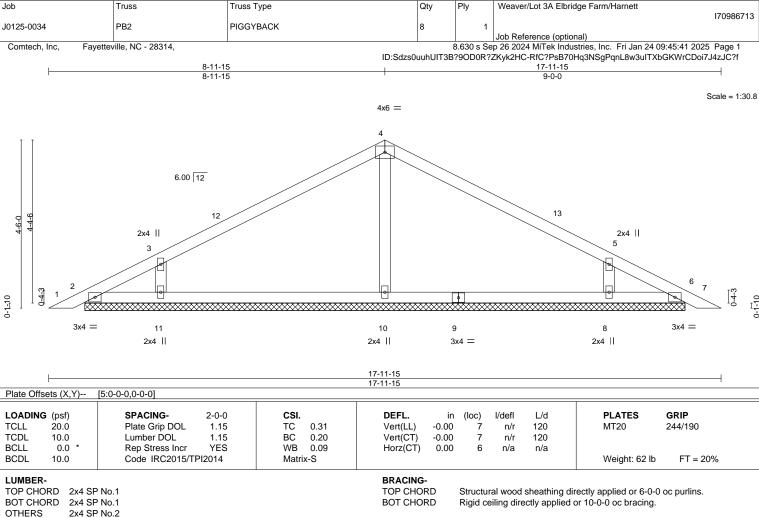
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-5 to 4-11-15, Interior(1) 4-11-15 to 7-0-0, Exterior(2) 7-0-0 to 17-0-2, Interior(1) 17-0-2 to 17-7-10 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 13, 10, 8.
- 7) Non Standard bearing condition. Review required.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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REACTIONS. All bearings 16-0-12. (lb) -Max Horz 2=56(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-105(LC 12), 8=-105(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=428(LC 1), 11=440(LC 23), 8=440(LC 24)

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

4-10=-298/101, 3-11=-356/260, 5-8=-356/263 WEBS

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) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 13-4-12, Interior(1) 13-4-12 to 17-8-0 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 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 except (jt=lb) 11=105, 8=105,
- 6) Non Standard bearing condition. Review required.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building





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Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986714 J0125-0034 PB3 **PIGGYBACK** 3 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:42 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 12-10-7 8-11-15 3-10-8 Scale = 1:28.0 4x4 = 6.00 12 2x4 || 9 2x4 || 3 0-1-10 7 6 8 3x4 =2x4 || 2x4 || 2x4 || 12-10-7 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 20.0 Plate Grip DOL Vert(LL) 0.00 120 244/190 **TCLL** 1.15 TC 0.32 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 6 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 49 lb FT = 20% BRACING-LUMBER-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

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

2x4 SP No.1 2x4 SP No.1

BOT CHORD WEBS 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. All bearings 11-10-14.

Max Horz 2=102(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-103(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=387(LC 1), 8=447(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-7=-277/173, 3-8=-356/285

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) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 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) 6, 2, 7 except (it=lb) 8=103.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986715 J0125-0034 PB4 **PIGGYBACK** 5 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:42 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 13-1-15 8-11-15 4-2-0 Scale = 1:28.2 4x4 = 6.00 12 2x4 || q 2x4 || 3 0-1-10 0-1-10 8 3x4 = 2x4 || 2x4 || 2x4 || 13-1-15 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/defl 20.0 Vert(LL) 0.00 120 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.32 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 6 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 50 lb FT = 20% BRACING-LUMBER-

TOP CHORD 2x4 SP No.1

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

OTHERS 2x4 SP No.2

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

except end verticals.

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

REACTIONS. All bearings 12-2-6.

Max Horz 2=99(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-104(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=390(LC 1), 8=447(LC 23)

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

WEBS 4-7=-279/166, 3-8=-356/282

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) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-10-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 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) 6, 2, 7 except (it=lb) 8=104.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer





Job Truss Truss Type Qty Ply Weaver/Lot 3A Elbridge Farm/Harnett 170986716 J0125-0034 PB5 **PIGGYBACK** ✓ Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:43 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID: Sdzs 0 uuh UIT 3B? 9 ODOR? ZKyk2HC-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the p12-10-7 8-11-15 3-10-8 Scale = 1:28.0 5x5 = 6.00 12 2x4 || 10 2x4 || 0-1-10 7 6 3x4 =2x4 || 2x4 || 2x4 || 12-10-7 12-10-7 LOADING (psf) SPACING-DEFL. **PLATES GRIP** 2-0-0 CSI (loc) I/def L/d 20.0 0.00 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/r 120 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 6 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 121 lb FT = 20% LUMBER-BRACING-

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

BOT CHORD 2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 11-6-7.

Max Horz 2=99(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-111(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=391(LC 1), 8=455(LC 23)

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

WEBS 4-7=-282/182, 3-8=-349/301

NOTES-

1) 2-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, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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) 0-6-2 to 4-10-15, Interior(1) 4-10-15 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Gable requires continuous bottom chord bearing.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=111.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

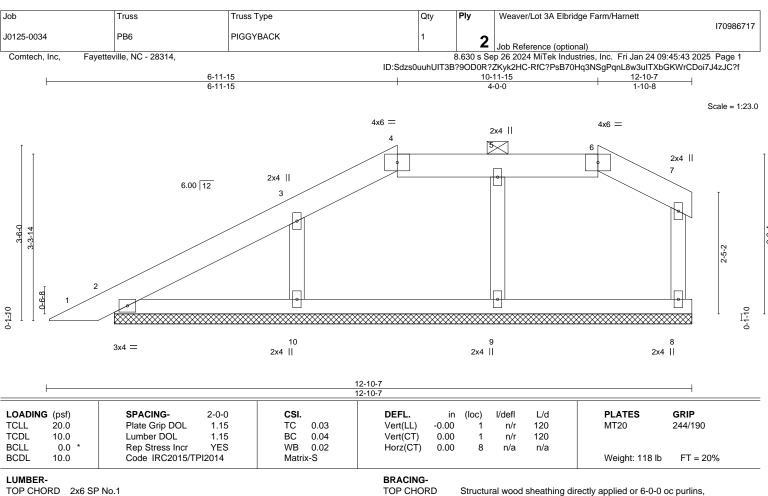


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BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2 **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-2. Max Horz 2=86(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 9

Max Grav All reactions 250 lb or less at joint(s) 8, 2 except 10=333(LC 23), 9=323(LC 1)

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

NOTES-

- 1) 2-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, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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) 0-6-8 to 4-11-15, Interior(1) 4-11-15 to 6-11-15, Exterior(2) 6-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 9.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Weaver/Lot 3A Elbridge Farm/Harnett 170986718 J0125-0034 VP1 VALLEY Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Jan 24 09:45:44 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-11-0 7-11-0 15-10-1 7-11-1 Scale = 1:27.1 4x4 = 3 6.00 12 2x4 || 2x4 | 4 12 6 8 7 3x4 = 3x4 > 2x4 || 2x4 || 2x4 || 15-10-1 0-0₋₁12 0-0-12 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.05 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 57 lb Matrix-S 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 15-8-9.

(lb) -Max Horz 1=48(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 1), 8=344(LC 23), 6=344(LC 24)

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

WEBS 2-8=-260/202, 4-6=-260/202

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) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
- 6) Non Standard bearing condition. Review required.



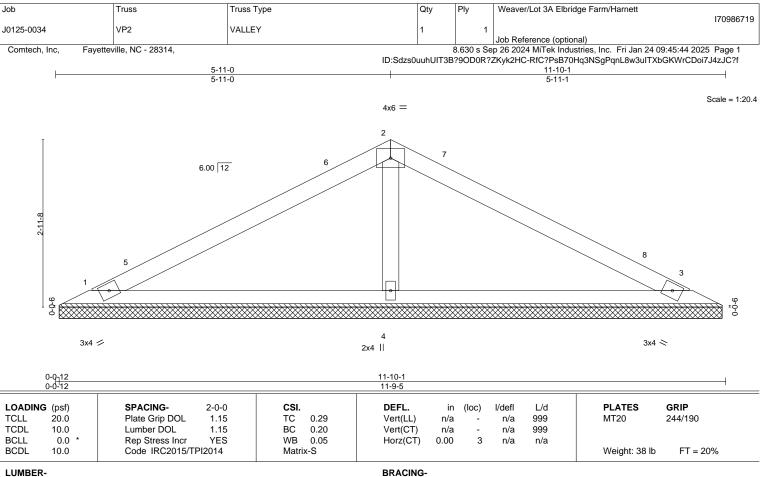


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TOP CHORD

BOT CHORD

TOP CHORD

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

OTHERS 2x4 SP No.2

REACTIONS.

1=11-8-9, 3=11-8-9, 4=11-8-9 (size) Max Horz 1=-35(LC 8) Max Uplift 1=-26(LC 12), 3=-32(LC 13)

Max Grav 1=195(LC 23), 3=195(LC 24), 4=456(LC 1)

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

WEBS 2-4=-302/187

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) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



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

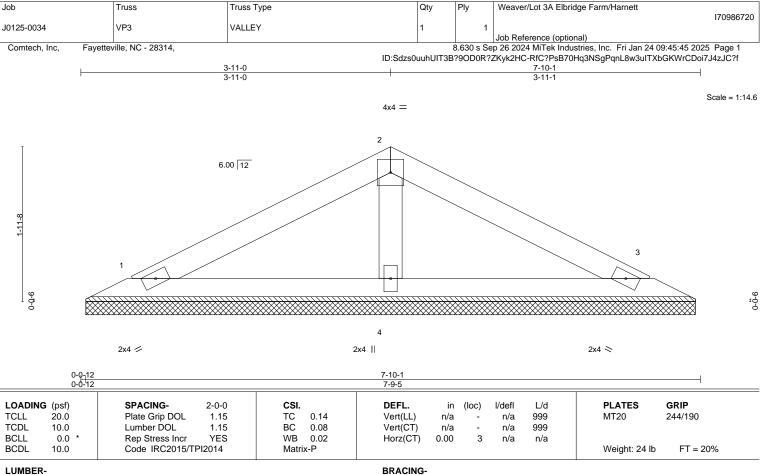
Rigid ceiling directly applied or 10-0-0 oc bracing.

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TOP CHORD

BOT CHORD

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

OTHERS 2x4 SP No.2

REACTIONS. 1=7-8-9, 3=7-8-9, 4=7-8-9 (size) Max Horz 1=-21(LC 10)

Max Uplift 1=-21(LC 12), 3=-25(LC 13)

Max Grav 1=133(LC 1), 3=133(LC 1), 4=256(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



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

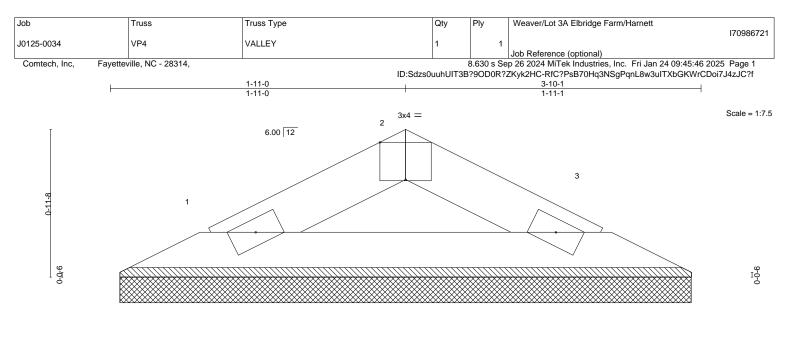
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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2x4 // 2x4 <>

Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-DEFL. **PLATES** LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a 999 MT20 244/190 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.06 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 10 lb

3-10-1

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 BOT CHORD

2x4 SP No.1

1=3-8-9, 3=3-8-9 (size) Max Horz 1=8(LC 9)

Max Uplift 1=-6(LC 12), 3=-6(LC 13) Max Grav 1=101(LC 1), 3=101(LC 1)

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

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



Structural wood sheathing directly applied or 3-10-1 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.