

RE: J0822-4068
 Lot 6 Liberty Meadows

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0822-4068
 Lot/Block: 6 Model: Caroline
 Address: 128 Solomon Drive Subdivision: Liberty Meadows
 City: State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 22 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I53588288	A1	8/11/2022	21	I53588308	PB1	8/11/2022
2	I53588289	A1GE	8/11/2022	22	I53588309	PB1GE	8/11/2022
3	I53588290	B1	8/11/2022				
4	I53588291	B1SG	8/11/2022				
5	I53588292	B2	8/11/2022				
6	I53588293	B3	8/11/2022				
7	I53588294	B4	8/11/2022				
8	I53588295	B5	8/11/2022				
9	I53588296	B6	8/11/2022				
10	I53588297	B7	8/11/2022				
11	I53588298	C1GE	8/11/2022				
12	I53588299	D1	8/11/2022				
13	I53588300	D1GE	8/11/2022				
14	I53588301	J1	8/11/2022				
15	I53588302	J1GE	8/11/2022				
16	I53588303	J2	8/11/2022				
17	I53588304	J2GE	8/11/2022				
18	I53588305	M1	8/11/2022				
19	I53588306	M1GE	8/11/2022				
20	I53588307	M2	8/11/2022				

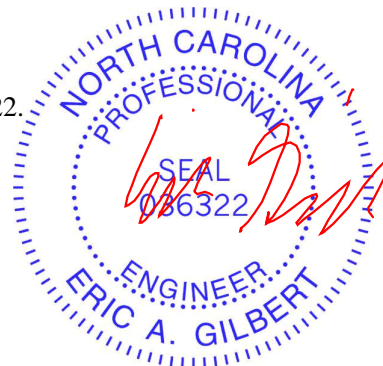
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



August 11, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588288
J0822-4068	A1	ATTIC	11	1	Job Reference (optional)	

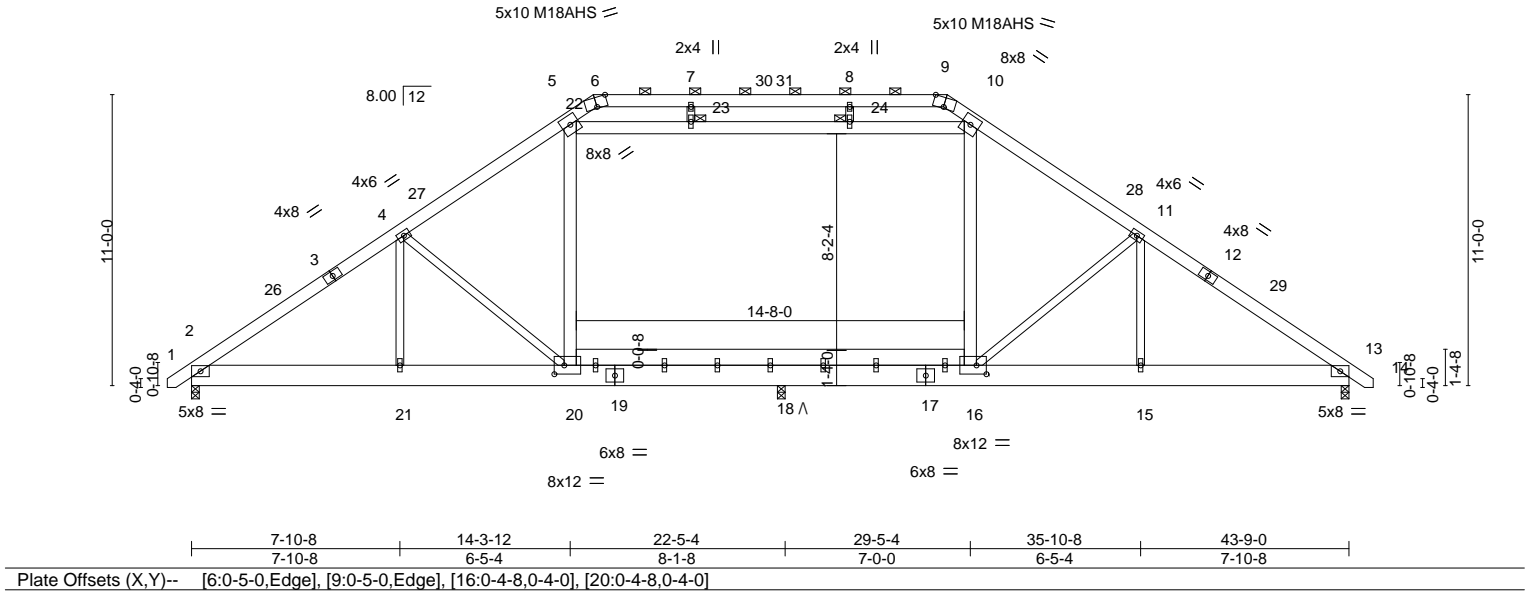
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:16 2022 Page 1

ID:Mxo2zT_1o8v8CIEXCvR1ayxNUw-s9EZkEZyncrsx2km?Qnk7Z28UnErb744Dtfi4ypGnT

0-11-0	7-10-8	14-3-12	15-2-4	18-10-8	24-10-8	28-6-12	29-5-4	35-10-8	43-9-0	44-8-0
0-11-0	7-10-8	6-5-4	0-10-8	3-8-4	6-0-0	3-8-4	0-10-8	6-5-4	7-10-8	0-11-0

Scale = 1:87.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.20 20-21 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.30 20-21 >898 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.14 20-21 >999 240		
				Weight: 457 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except
BOT CHORD 2x10 SP No.1 *Except*	2-0-0 oc purlins (4-0-3 max.): 6-9.
WEBS 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
10-22,5-20,10-16: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 23, 24

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 18=0-3-8
 Max Horz =211(LC 11)
 Max Uplift 18=REL
 Max Grav 2=1839(LC 1), 13=1827(LC 1), 18=1317(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2745/52, 4-5=-2249/93, 5-6=-1813/194, 9-10=-1814/201, 10-11=-2244/94,
 11-13=-2719/57, 6-7=-1867/185, 7-8=-1867/185, 8-9=-1867/185
 BOT CHORD 2-21=0/2272, 20-21=0/2272, 18-20=0/1789, 16-18=0/1789, 15-16=0/2112, 13-15=0/2112
 WEBS 22-23=-282/330, 23-24=-282/330, 10-24=-285/338, 20-22=0/556, 5-22=0/637,
 10-16=0/459, 4-21=0/383, 11-15=-26/378, 4-20=-670/179, 11-16=-654/187

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 15-3-1, Exterior(2) 15-3-1 to 21-5-12, Interior(1) 21-5-12 to 28-5-15, Exterior(2) 28-5-15 to 34-8-10, Interior(1) 34-8-10 to 44-6-1 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x6 MT20 unless otherwise indicated.
 - 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). 22-23, 23-24, 10-24; Wall dead load (5.0psf) on member(s).20-22, 10-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 16-18
 - "A" indicates Released bearing: allow for upward movement at joint(s) 18.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



August 11, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588289
J0822-4068	A1GE	GABLE	1	1	Job Reference (optional)	

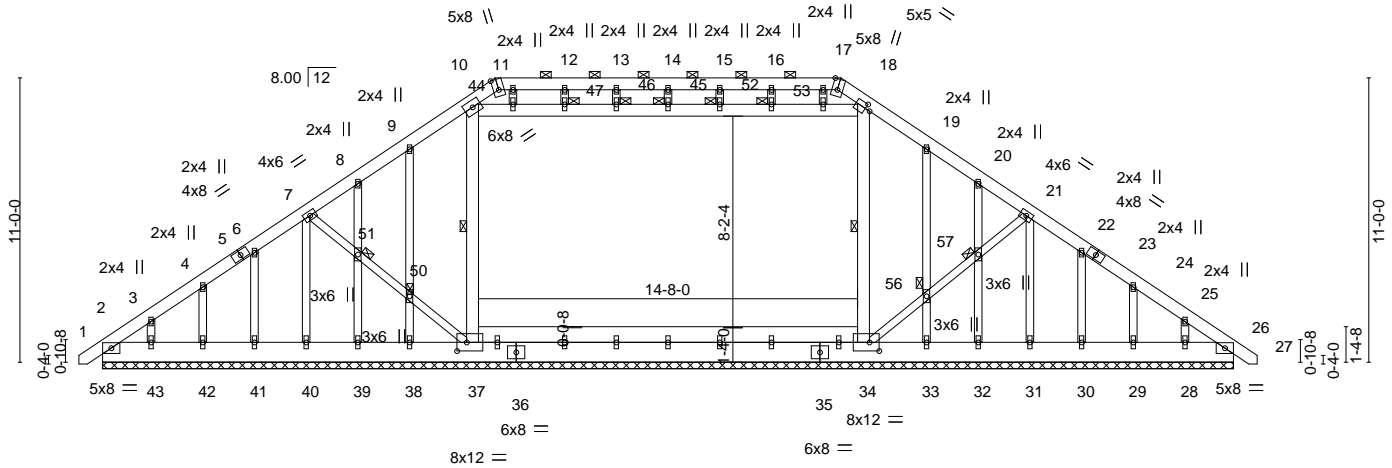
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:19 2022 Page 1

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0-11-0 16-1-4 29-5-12 44-8-0 45-7-0
 0-11-0 15-2-4 13-4-8 15-2-4 0-11-0

Scale = 1:89.1



0-11-0 44-8-0 45-7-0
 0-11-0 43-9-0 0-11-0

Plate Offsets (X,Y)-- [11:0-5-0,Edge], [17:0-5-0,Edge], [18:0-2-5,0-2-4], [34:0-4-8,0-4-0], [37:0-4-8,0-4-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) 0.00	26	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) 0.00	26	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.01	26	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 521 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except 2-0-0 oc purlins (5-9-11 max.): 11-17.
BOT CHORD 2x10 SP No.1 *Except* 34-37: 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 18-44,10-37,18-34: 2x6 SP No.1	WEBS 1 Row at midpt 37-44, 18-34
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 45, 46, 47, 50, 51, 52, 53, 56, 57

REACTIONS. All bearings 43-9-0.
 (lb) - Max Horz 2=264(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 40, 31, 26, 39, 41, 42, 43, 32, 30, 29, 28 except 38=-970(LC 18), 33=-929(LC 18)
 Max Grav All reactions 250 lb or less at joint(s) 31, 41, 42, 43, 30, 29, 28 except 2=318(LC 1), 37=1671(LC 18), 34=1701(LC 18), 40=258(LC 1), 26=297(LC 1), 39=445(LC 20), 32=439(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-415/168, 3-4=-369/157, 4-6=-344/151, 6-7=-353/149, 7-8=-453/171, 8-9=-469/171, 9-10=-395/206, 10-11=-1421/329, 17-18=-1394/326, 18-19=-355/203, 19-20=-415/146, 20-21=-404/94, 21-22=-319/88, 22-24=-313/58, 24-25=-315/67, 25-26=-342/74, 11-12=-1348/322, 12-13=-1348/322, 13-14=-1348/322, 14-15=-1348/322, 15-16=-1348/322, 16-17=-1348/322
 BOT CHORD 2-43=-114/327, 42-43=-114/327, 41-42=-114/327, 40-41=-114/327, 39-40=-114/327, 38-39=-114/327, 37-38=-114/327, 34-37=-89/383, 33-34=-52/276, 32-33=-52/276, 31-32=-52/276, 30-31=-52/276, 29-30=-52/276, 28-29=-52/276, 26-28=-52/276
 WEBS 44-47=-180/1038, 46-47=-180/1038, 45-46=-180/1038, 45-52=-180/1038, 52-53=-180/1038, 18-53=-183/1045, 37-44=-633/104, 10-44=-511/121, 18-34=-685/0, 12-47=-7/295

- NOTES-**
- Unbalanced roof live loads has been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x6 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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Continued on page 2

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588289
J0822-4068	A1GE	GABLE	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:19 2022 Page 2
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NOTES-

- 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). 44-47, 46-47, 45-46, 45-52, 52-53, 18-53; Wall dead load (5.0psf) on member(s).37-44, 18-34, 33-56, 22-30
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 31, 26, 39, 41, 42, 43, 32, 30, 29, 28 except (jt=lb) 38=970, 33=929.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

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

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



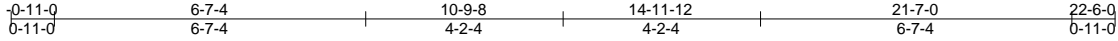
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588290
J0822-4068	B1	COMMON	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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4x6 =

Scale = 1:48.9

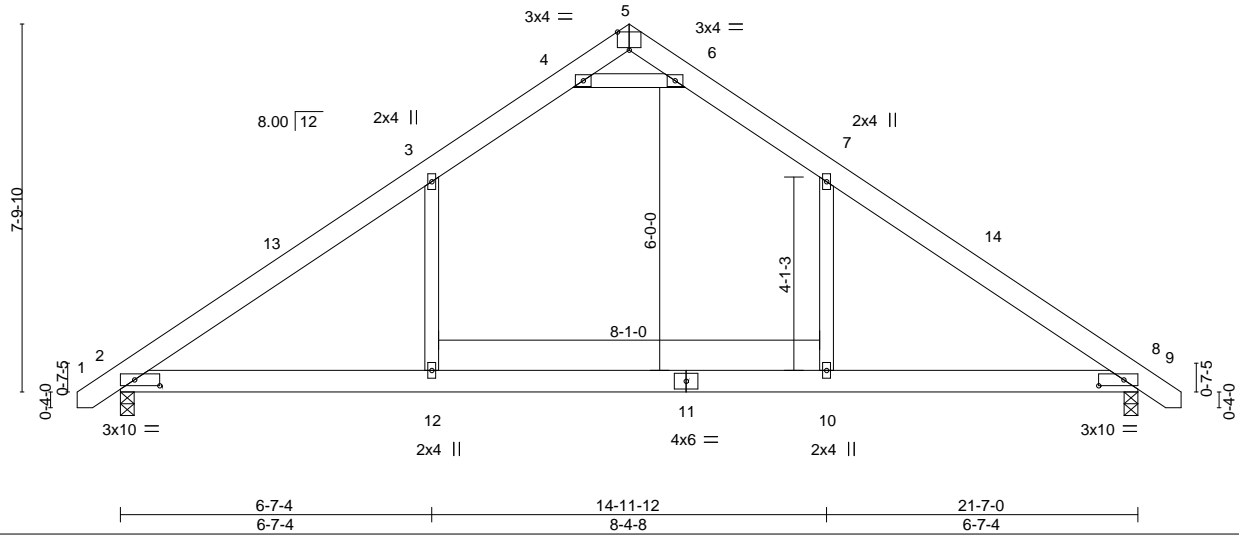


Plate Offsets (X,Y)-- [2:0-6-6,0-1-8], [5:0-3-0,Edge], [8:0-6-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.21	10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.33	10-12	>765	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.02	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	12	>999	240	Weight: 133 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-152(LC 10)
 Max Uplift 2=-1(LC 12), 8=-1(LC 13)
 Max Grav 2=1022(LC 19), 8=1022(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1369/120, 3-4=-941/191, 4-5=-147/961, 5-6=-147/962, 6-7=-941/191,
 7-8=-1369/120
 BOT CHORD 2-12=0/1014, 10-12=0/1014, 8-10=0/1014
 WEBS 7-10=0/467, 3-12=0/467, 4-6=-2102/392

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 10-9-8, Exterior(2) 10-9-8 to 14-11-12, Interior(1) 14-11-12 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 2022

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

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

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

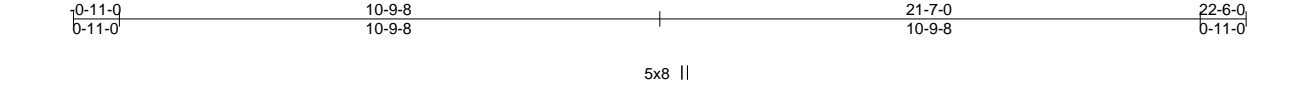


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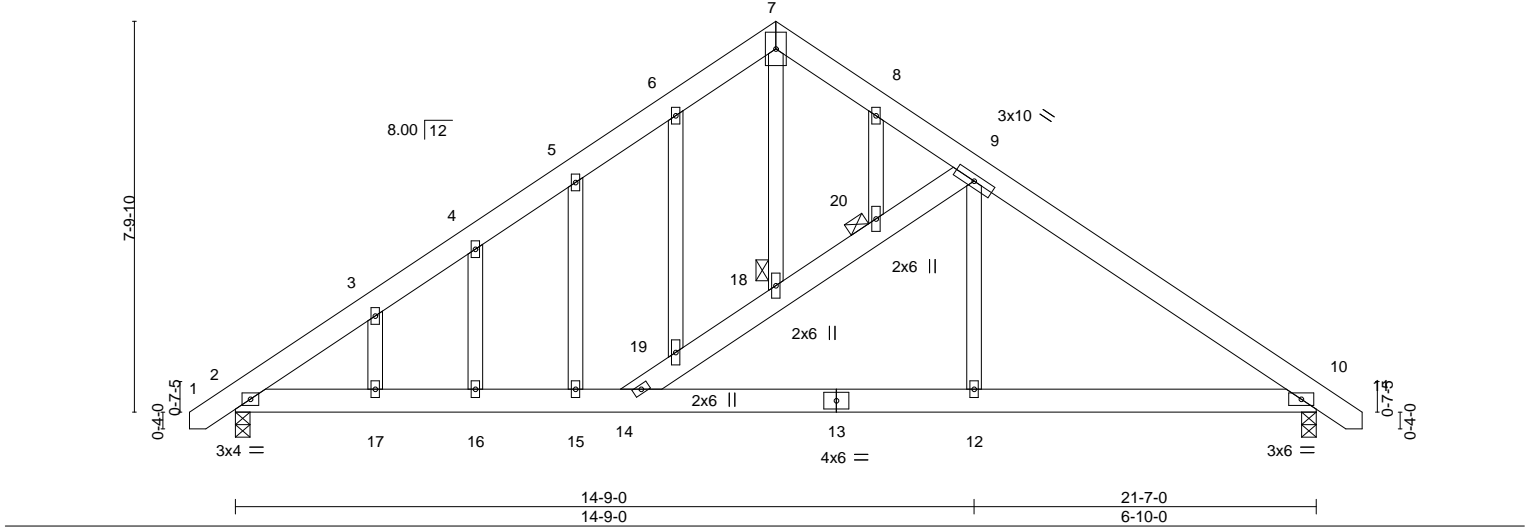
Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	I53588291
J0822-4068	B1SG	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:20 2022 Page 1
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Scale = 1:46.0



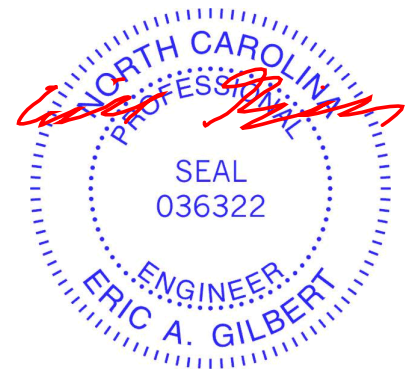
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.11 15-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.23 15-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.14 16 >999 240	Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except*	JOINTS 1 Brace at Jt(s): 18, 20
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=190(LC 11)
 Max Uplift 2=-110(LC 12), 10=-110(LC 13)
 Max Grav 2=906(LC 1), 10=906(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1023/86, 3-4=-921/135, 4-5=-963/193, 5-6=-834/221, 6-7=-773/264, 7-8=-862/285,
 8-9=-825/244, 9-10=-1153/184
 BOT CHORD 2-17=-56/763, 16-17=-56/763, 15-16=-56/763, 14-15=-56/763, 12-14=-31/833,
 10-12=-31/833
 WEBS 18-20=-335/146, 9-20=-270/136, 9-12=0/332, 7-18=-165/506

- 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 B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=110, 10=110.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



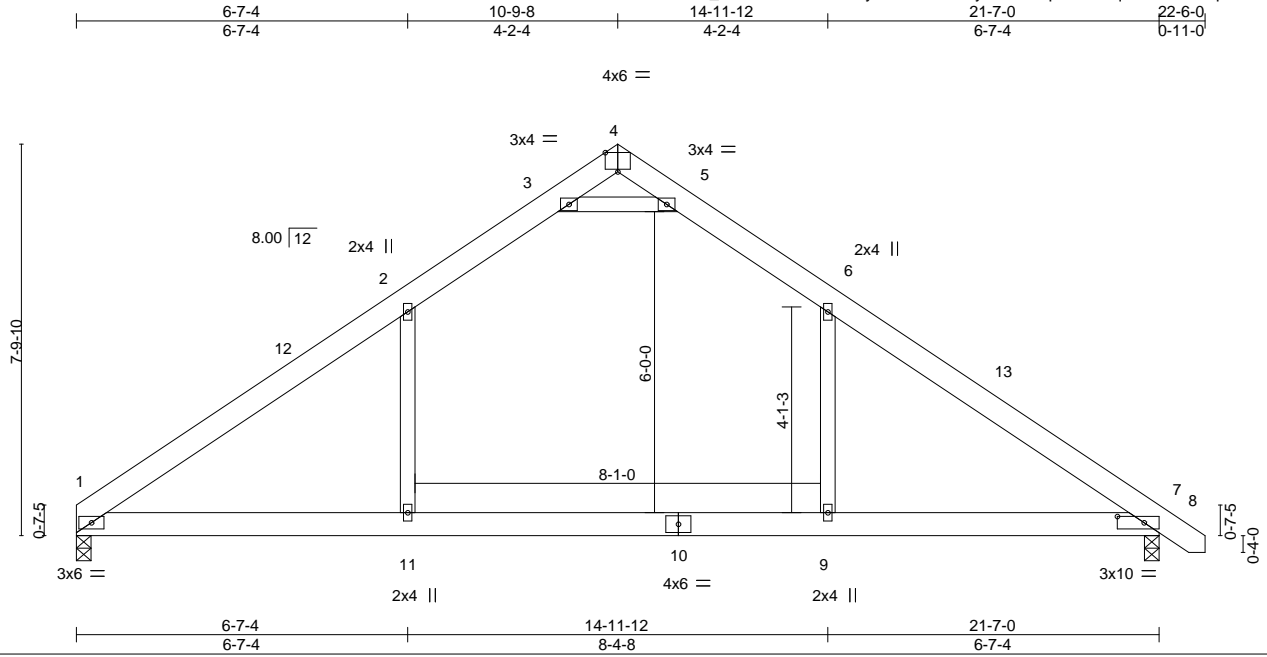
August 11, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588292
J0822-4068	B2	COMMON	4	1		

Comtech, Inc., Fayetteville, NC - 28314,

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ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-D71Snydhc8T81pcknzNvqdl?9o?RG40pDvAQNHypGnO



Scale = 1:45.9

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [7:0-6-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	Vert(LL)	-0.21	9-11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(CT)	-0.34	9-11	>755		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.29	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.10	11	>999	Weight: 130 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

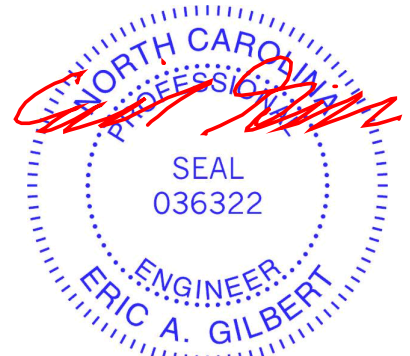
(size) 1=0-3-8, 7=0-3-8
 Max Horz 1=-150(LC 8)
 Max Uplift 7=-1(LC 13)
 Max Grav 1=971(LC 19), 7=1022(LC 20)

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

TOP CHORD 1-2=-1365/121, 2-3=-943/196, 3-4=-149/970, 4-5=-159/971, 5-6=-941/192,
 6-7=-1372/121
 BOT CHORD 1-11=0/1017, 9-11=0/1017, 7-9=0/1017
 WEBS 6-9=0/470, 2-11=0/458, 3-5=-2115/411

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-9-8, Exterior(2) 10-9-8 to 14-11-12, Interior(1) 14-11-12 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 2022

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

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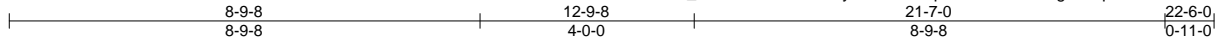
Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588293
J0822-4068	B3	HIP	1	1		

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ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-hJbq?leJNSb?fzBwLgu8NqHFmCKM?aJzS9KzvypGnN

Job Reference (optional)



Scale = 1:43.0

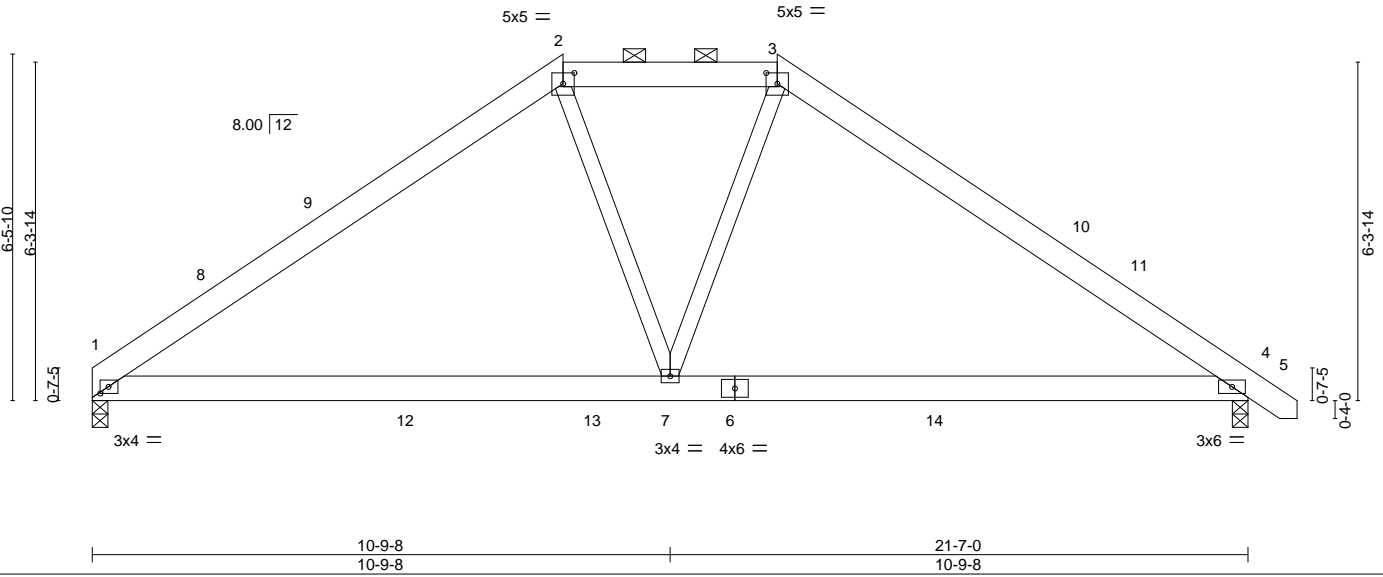


Plate Offsets (X,Y)-- [1:0-1-14,0-1-8], [2:0-2-8,0-2-6], [3:0-2-8,0-2-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.08	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.16	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	4-7	>999	240		
							Weight: 130 lb	FT = 20%

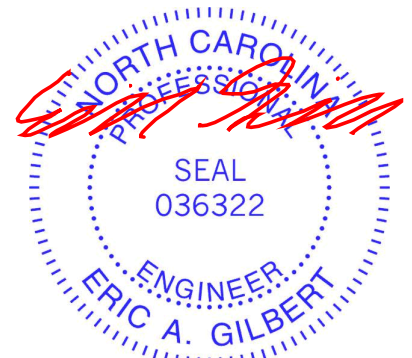
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=0-3-8
 Max Horz 1=122(LC 10)
 Max Grav 1=923(LC 19), 4=975(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1170/186, 2-3=-986/207, 3-4=-1170/182
 BOT CHORD 1-7=-14/931, 4-7=-15/892
 WEBS 2-7=0/369, 3-7=0/370

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-9-8, Exterior(2) 8-9-8 to 19-0-3, Interior(1) 19-0-3 to 22-4-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588294
J0822-4068	B4	HALF HIP	1	1		

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ID:Mxo2zT_1o8v8CIEXCbVr1ayxNUw-9W9CCefx8mjsH7m6vOPNv2qTGckVkJ6hp3WSAppGnM

Job Reference (optional)

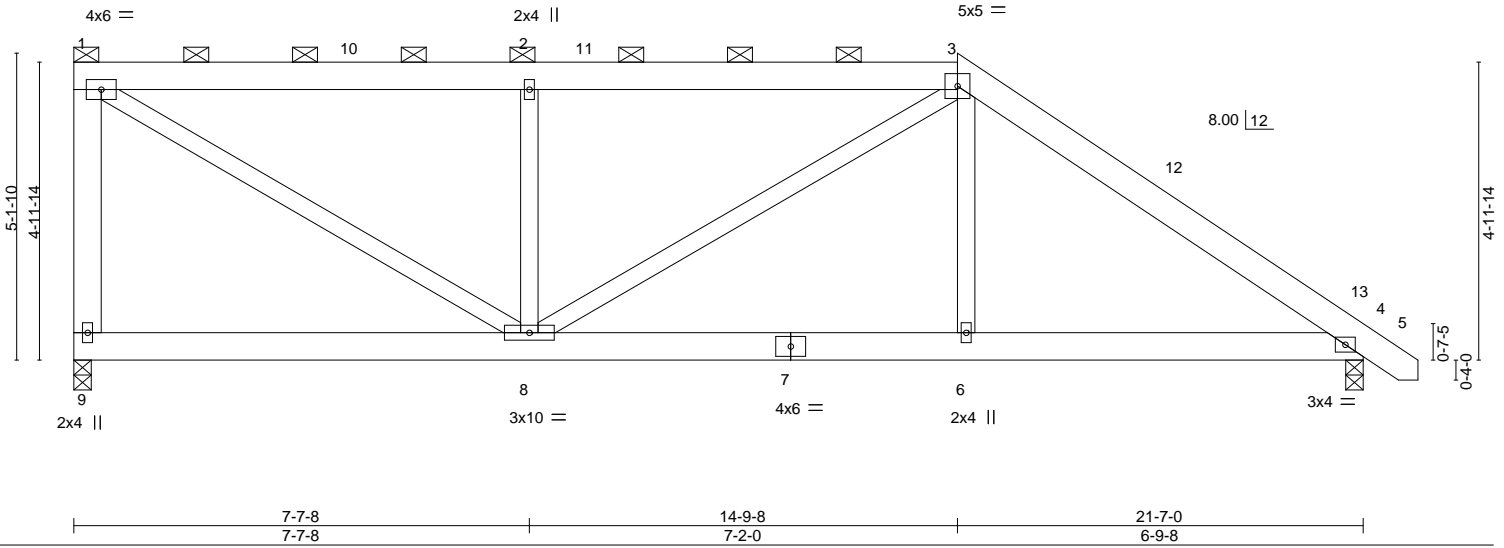
7-7-8
7-7-8

14-9-8
7-2-0

21-7-0
6-9-8

22-6-0
0-11-0

Scale = 1:38.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL)	-0.02	8	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	-0.05	6-8	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	8	>999	240		
	Code IRC2015/TPI2014							Weight: 153 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-9: 2x6 SP No.1

BRACING-

TOP 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.): 1-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 9=0-3-8, 4=0-3-8
 Max Horz 9=-131(LC 13)
 Max Uplift 9=-31(LC 8)
 Max Grav 9=847(LC 1), 4=903(LC 1)

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

TOP CHORD 1-9=-774/180, 1-2=-981/167, 2-3=-983/169, 3-4=-1200/155
 BOT CHORD 6-8=-7/892, 4-6=-5/898
 WEBS 1-8=-191/1106, 2-8=-503/194, 3-6=0/299

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 14-9-8, Exterior(2) 14-9-8 to 21-0-3, Interior(1) 21-0-3 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2022

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588295
J0822-4068	B5	HALF HIP	1	1		

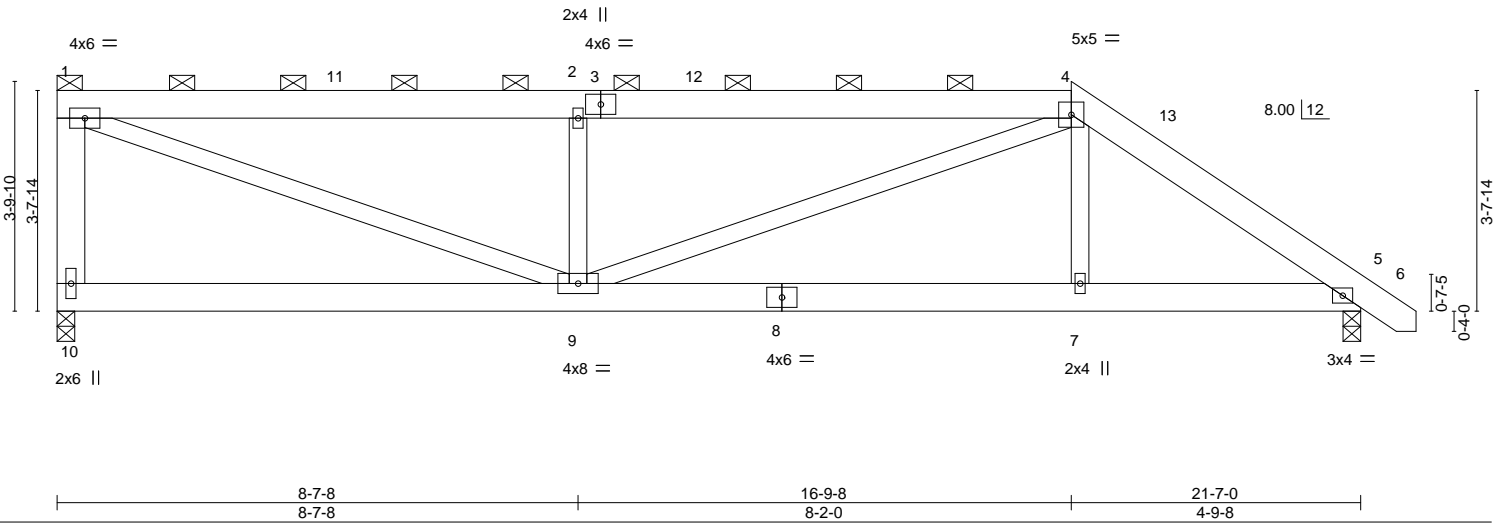
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:23 2022 Page 1

ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-9W9CCefx8mjsH7m6vOPNv2qSPckxkzC6hp3WSAppGnM



Scale = 1:38.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.05 9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.37	Vert(CT) -0.10 7-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 9 >999 240		
				Weight: 146 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-10: 2x6 SP No.1

BRACING-

TOP 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.): 1-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 10=0-3-8, 5=0-3-8
 Max Horz 10=-95(LC 13)
 Max Uplift 10=-31(LC 8)
 Max Grav 10=847(LC 1), 5=903(LC 1)

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

TOP CHORD 1-10=-760/174, 1-2=-1484/235, 2-4=-1486/236, 4-5=-1307/181
 BOT CHORD 7-9=-59/1008, 5-7=-56/1015
 WEBS 1-9=-241/1500, 2-9=-565/220, 4-9=-71/574, 4-7=0/286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 16-9-8, Exterior(2) 16-9-8 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2022

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588296
J0822-4068	B6	HALF HIP	1	1		

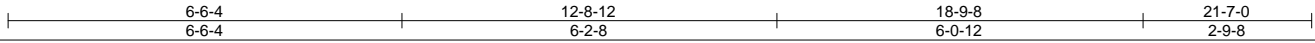
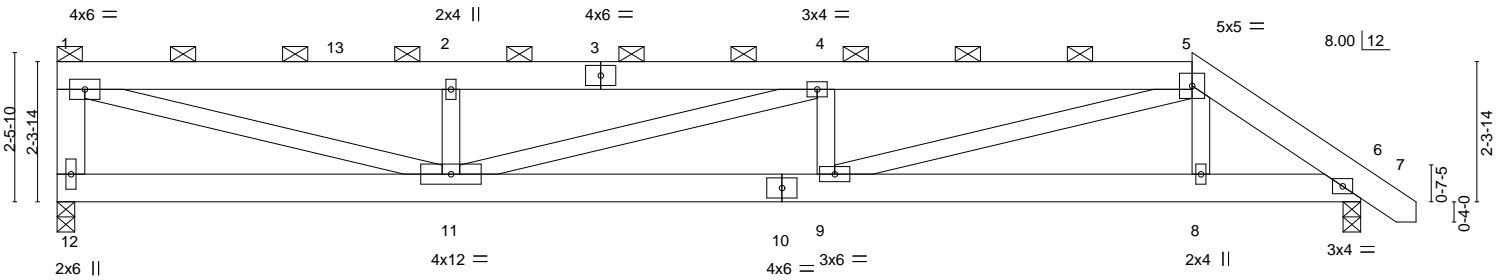
Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:38.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL) -0.10	9-11	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT) -0.20	9-11	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.07	9-11	>999	240		
	Code IRC2015/TPI2014						Weight: 142 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-12: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-13 max.): 1-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 12=0-3-8, 6=0-3-8
 Max Horz 12=-59(LC 13)
 Max Uplift 12=-31(LC 8), 6=-11(LC 8)
 Max Grav 12=847(LC 1), 6=903(LC 1)

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

TOP CHORD 1-12=-763/156, 1-2=-2060/281, 2-4=-2060/281, 4-5=-2380/369, 5-6=-1400/198
 BOT CHORD 9-11=-278/2378, 8-9=-104/1101, 6-8=-99/1111
 WEBS 1-11=-273/1998, 2-11=-369/149, 5-9=-183/1359, 4-9=-303/134, 4-11=-332/90

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 18-9-8, Exterior(2) 18-9-8 to 22-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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	Ply	Lot 6 Liberty Meadows	153588297
J0822-4068	B7	HALF HIP	1	1		

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ID:Mxo2zT_1o8v8CIEXCBr1ayxNUw-5uHydJgCgNzaWQwV0pSr?TviOPJ8CoHP87YdW2ypGnK



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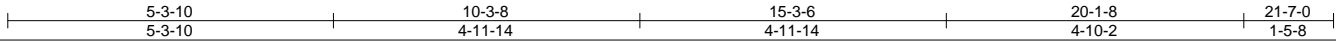
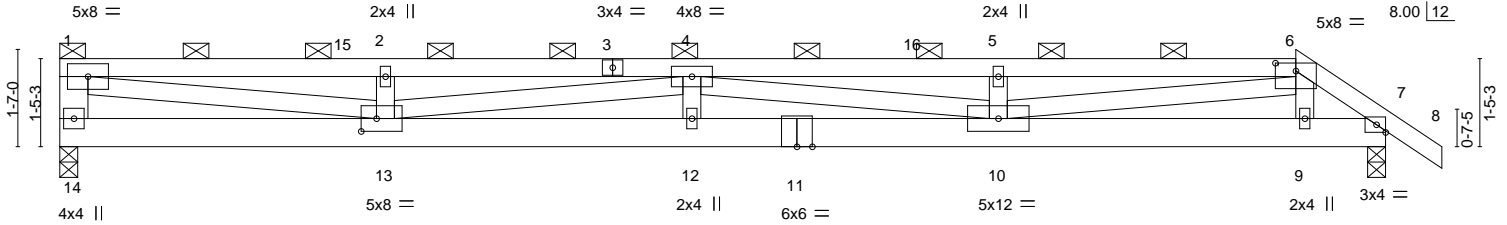


Plate Offsets (X,Y)-- [6:0-4-0-0-1-9], [13:0-3-0-0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.29	12	>891	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.57	10-12	>445	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.05	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.19	12	>999	240		
							Weight: 119 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-14: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-4 max.): 1-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

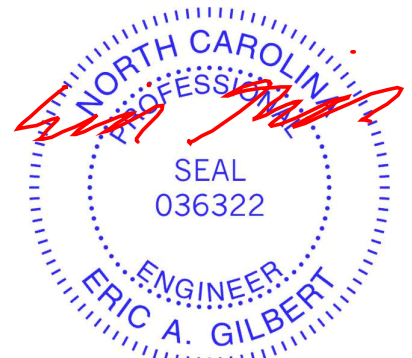
(size) 14=0-3-8, 7=0-3-8
 Max Horz 14=-37(LC 13)
 Max Uplift 14=-31(LC 8), 7=-21(LC 8)
 Max Grav 14=847(LC 1), 7=914(LC 1)

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

TOP CHORD 1-14=-706/138, 1-2=-2910/386, 2-4=-2910/386, 4-5=-3292/487, 5-6=-3292/487, 6-7=-1560/199
 BOT CHORD 13-14=-9/310, 12-13=-507/4180, 10-12=-507/4180, 9-10=-123/1192, 7-9=-118/1230
 WEBS 1-13=-341/2655, 4-13=-1298/198, 4-10=-907/121, 6-10=-310/2149, 6-9=0/325, 2-13=-288/124, 5-10=-290/134

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 20-1-8, Exterior(2) 20-1-8 to 22-6-0 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.
- 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) 14, 7.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2022

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

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

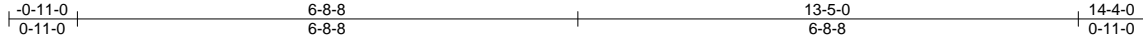


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588298
J0822-4068	C1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

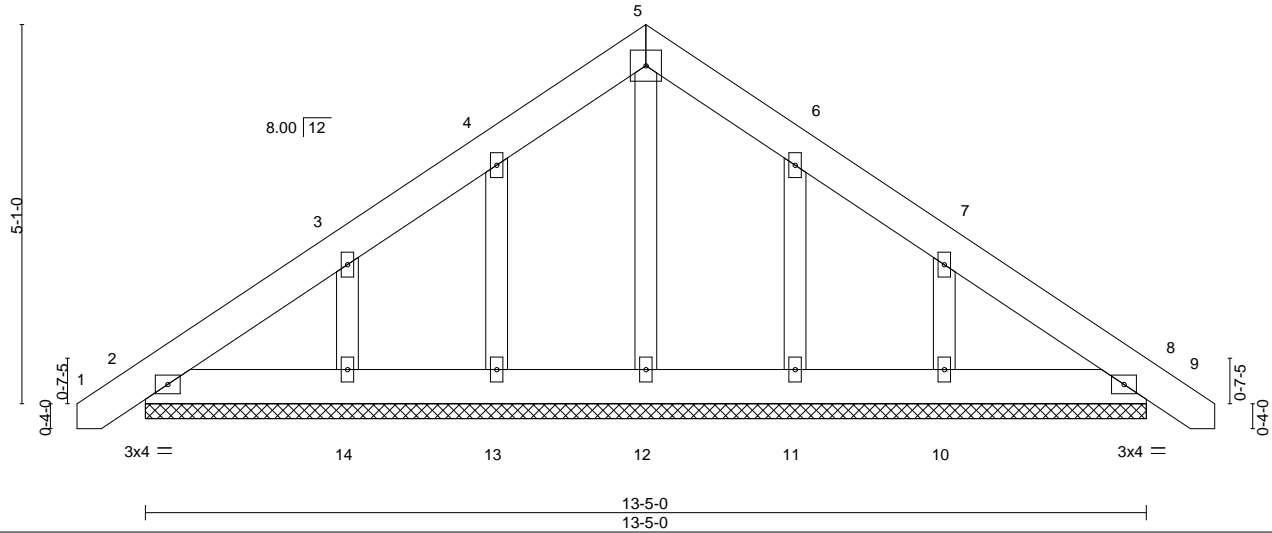
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:26 2022 Page 1
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5x5 =

Scale = 1:30.9



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 0.02	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 94 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 13-5-0.
 (lb) - Max Horz 2=-123(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588299
J0822-4068	D1	COMMON	4	1		

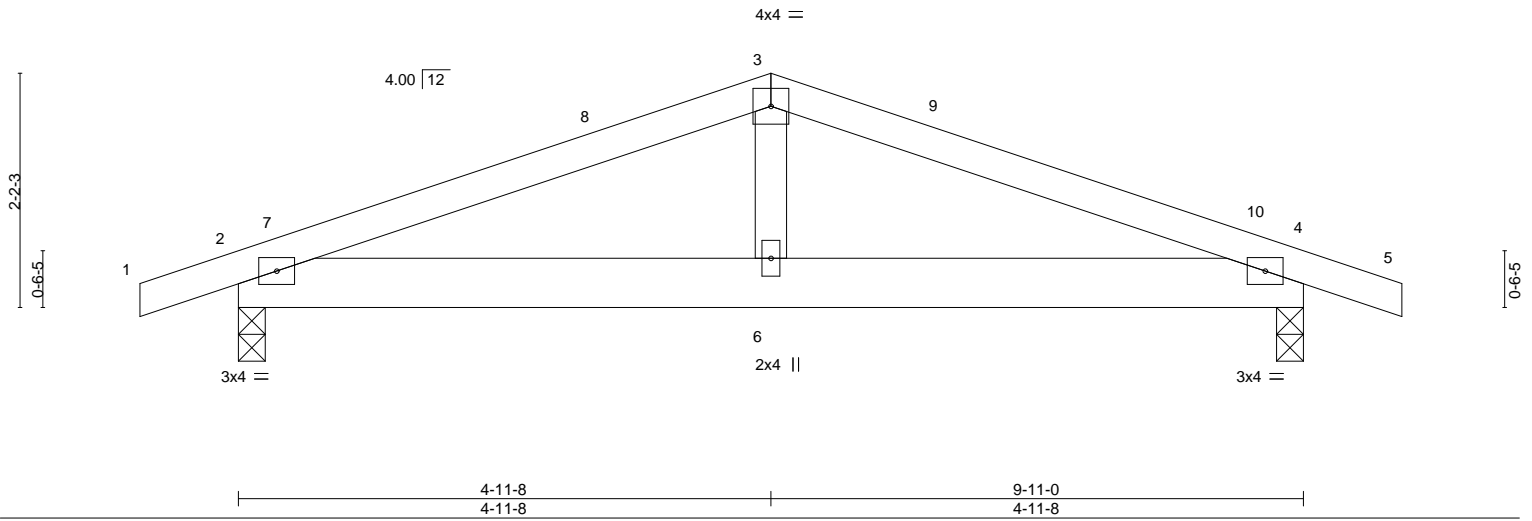
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:27 2022 Page 1

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Scale = 1:21.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	-0.02	6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	2-6	>999	240		
	Code IRC2015/TPI2014							Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

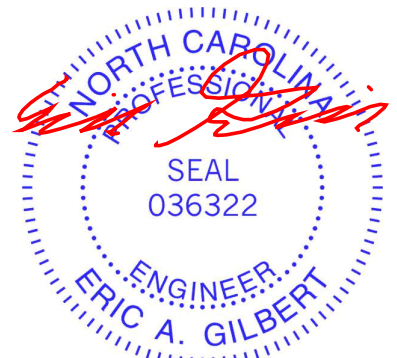
(size) 2=0-3-0, 4=0-3-0
 Max Horz 2=-19(LC 17)
 Max Uplift 2=-124(LC 8), 4=-124(LC 9)
 Max Grav 2=449(LC 1), 4=449(LC 1)

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

TOP CHORD 2-3=-653/587, 3-4=-653/587
 BOT CHORD 2-6=-485/562, 4-6=-485/562

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 10-10-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 4=124.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588300
J0822-4068	D1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

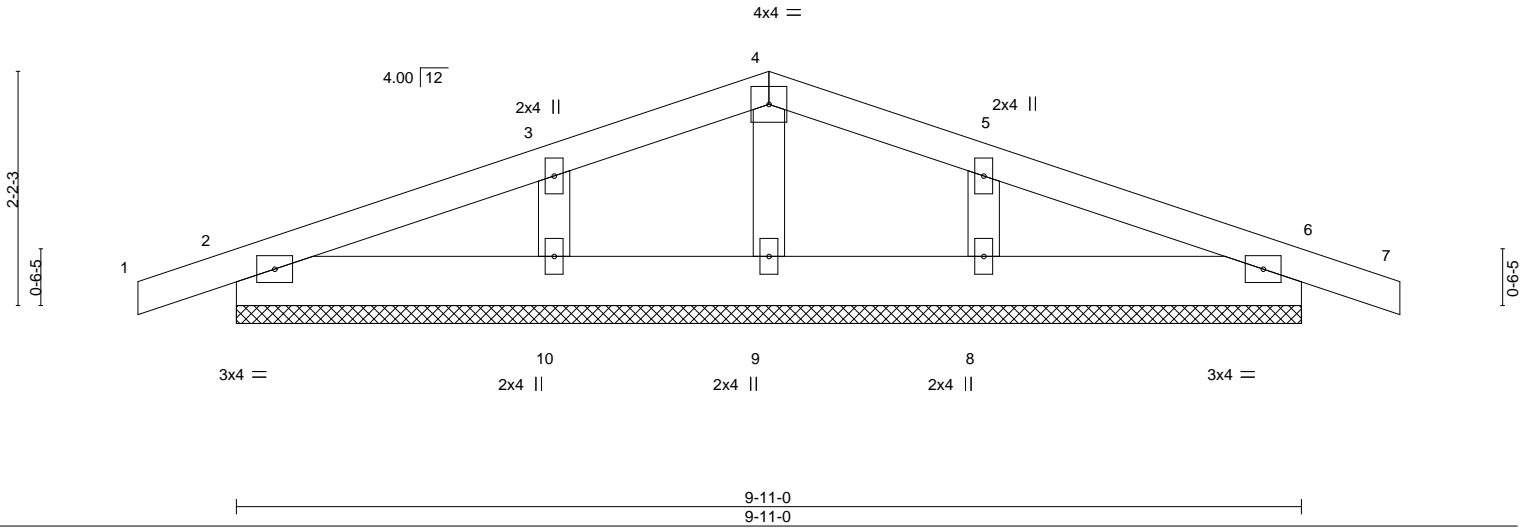
Comtech, Inc., Fayetteville, NC - 28314,

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ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-WTy5FLI4yL9Nue4ix?Yc5XMjdUNPJtrq5nH7NypGnH



Scale = 1:21.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 46 lb	FT = 20%

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

REACTIONS. All bearings 9-11-0.
 (lb) - Max Horz 2=-33(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



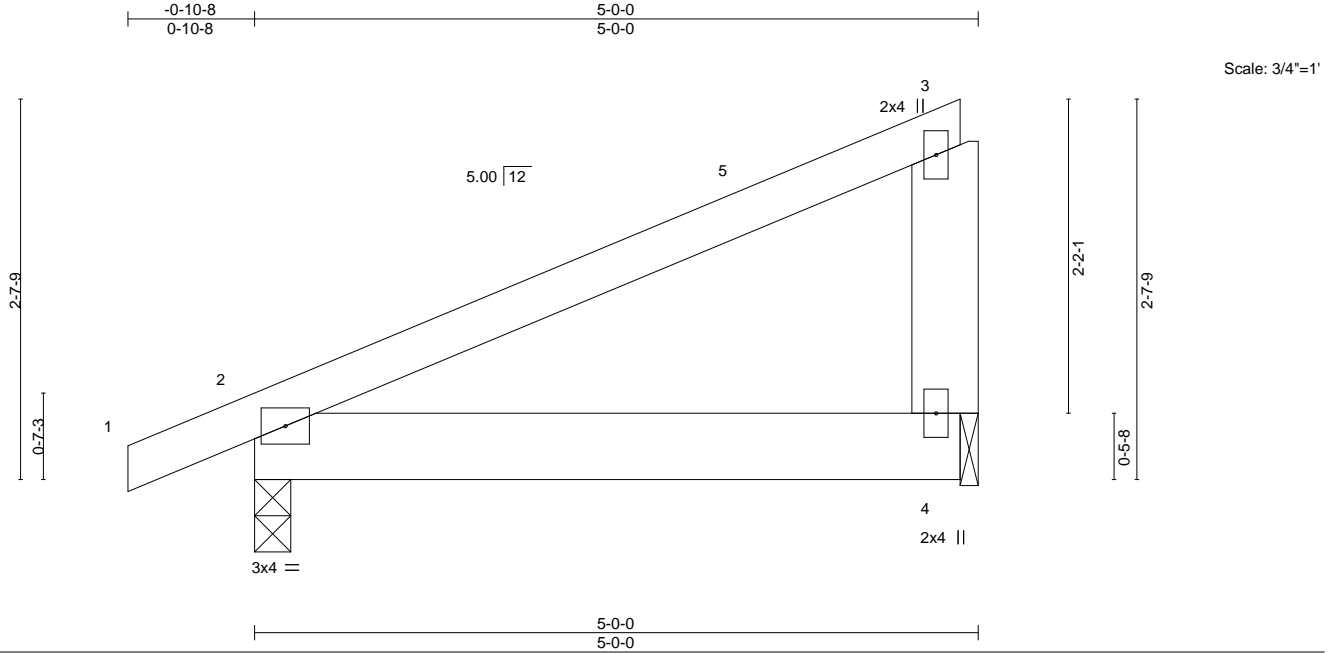
August 11, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588301
J0822-4068	J1	MONOPITCH	6	1		

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ID:Mxo2zT_1o8v8CIEXCbVr1ayxNUw-WTy5FLi4yIL9Nue4ix?Yc5XIFdTSPJCrq5nH7NypGnH
5-0-0
5-0-0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	-0.01	2-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.01	2-4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.01	2-4	>999	Weight: 25 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-0, 4=0-1-8
Max Horz 2=62(LC 12)
Max Uplift 2=45(LC 8), 4=41(LC 8)
Max Grav 2=252(LC 1), 4=179(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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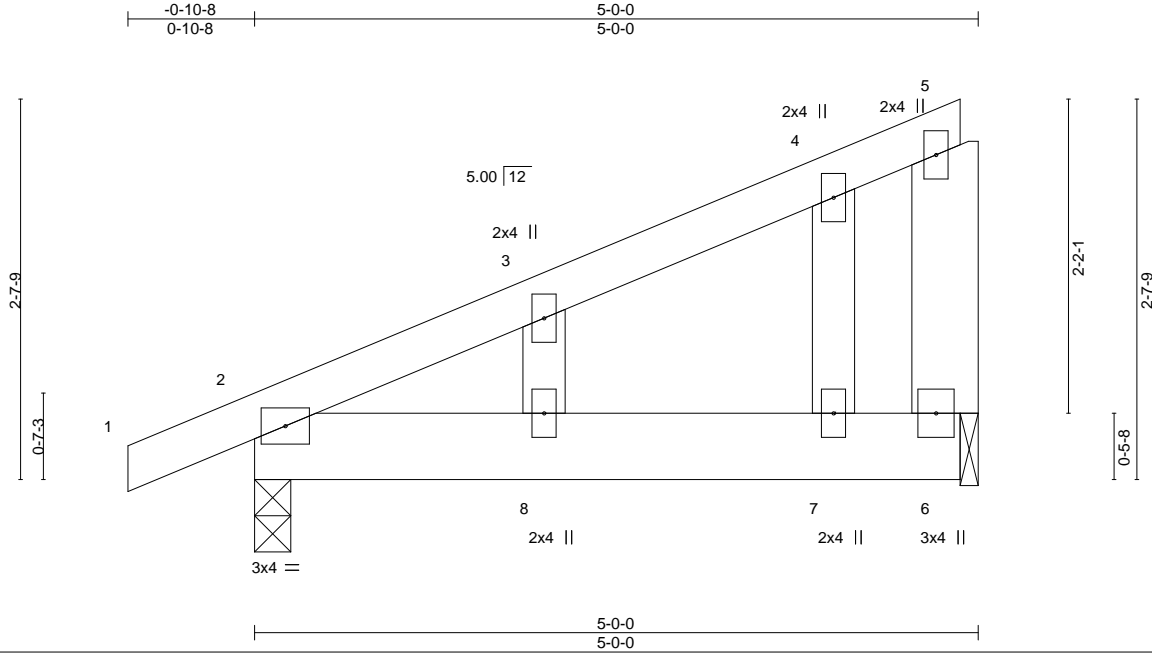
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588302
J0822-4068	J1GE	GABLE	1	1	Job Reference (optional)	

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Scale: 3/4"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01	8	>999	240	Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

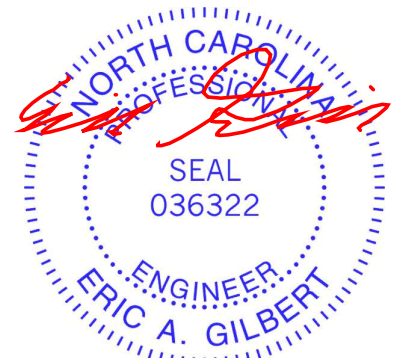
REACTIONS.

(size) 2=0-3-0, 6=0-1-8
 Max Horz 2=90(LC 12)
 Max Uplift 2=-69(LC 8), 6=-63(LC 8)
 Max Grav 2=252(LC 1), 6=179(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



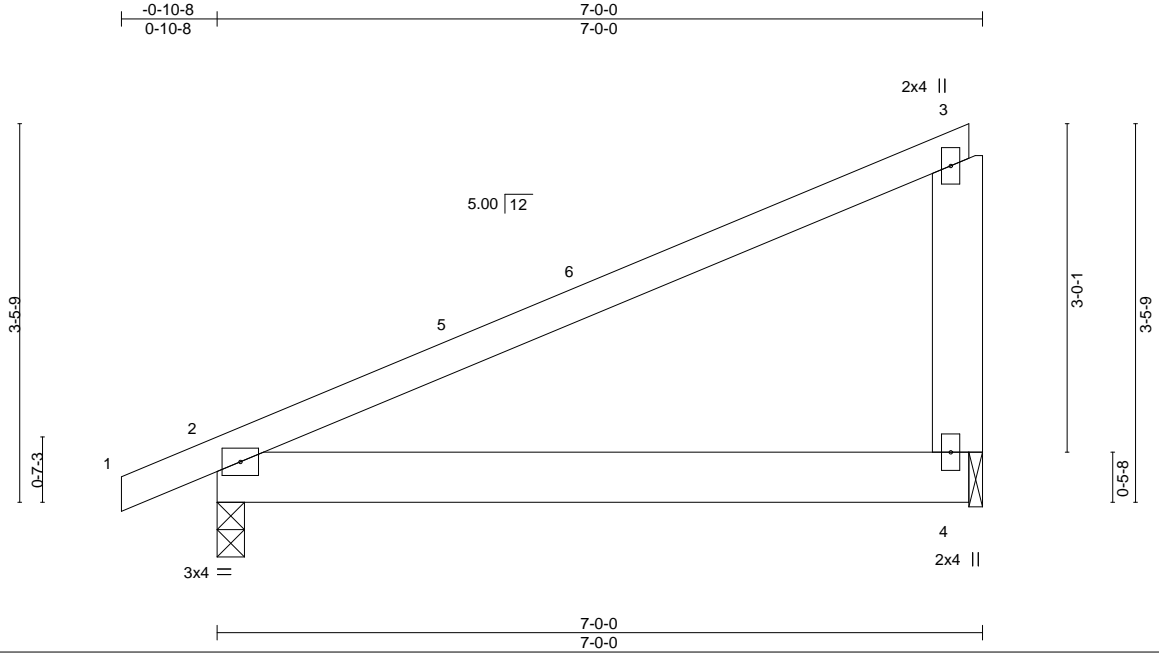
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588303
J0822-4068	J2	MONOPITCH	4	1	Job Reference (optional)	

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.05	2-4	>999	240	Weight: 35 lb	FT = 20%
	Code IRC2015/TPI2014								

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8
 Max Horz 2=85(LC 12)
 Max Uplift 2=-55(LC 8), 4=-59(LC 8)
 Max Grav 2=330(LC 1), 4=261(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



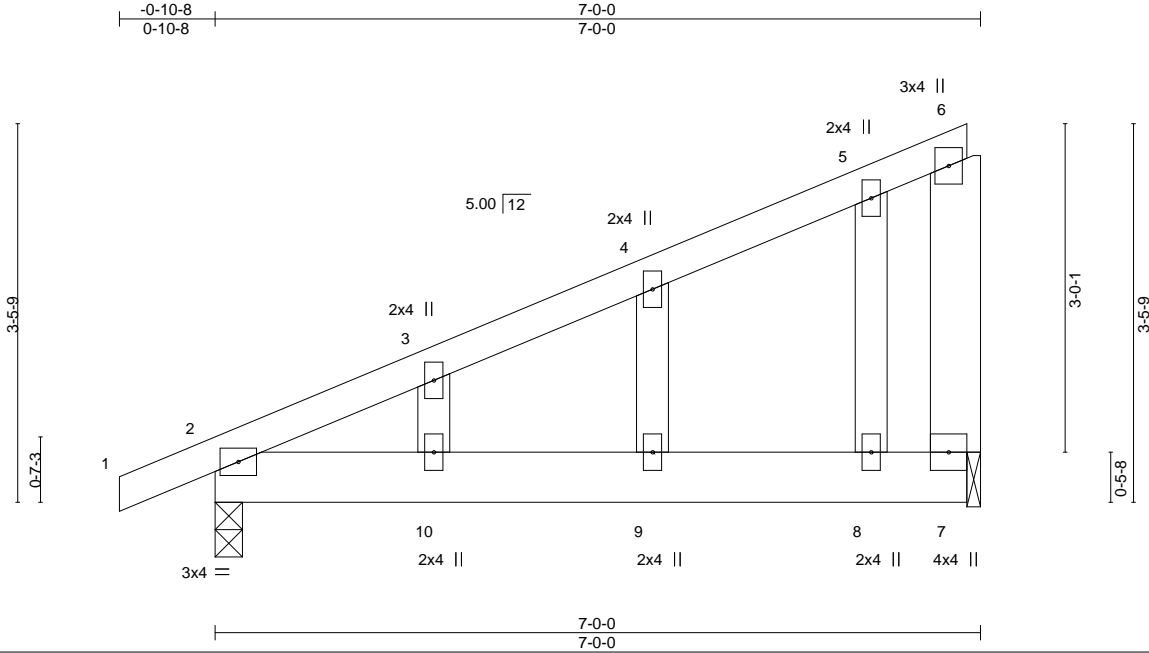
August 11, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588304
J0822-4068	J2GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:30 2022 Page 1

ID: Mxo2zT_1o8v8CIEXCBvR1ayxNUw-Ss4rg1kKUvcscBoTpM10iWdgWQ7BiDU8IPGOCGypGnF



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.02	9-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	-0.05	9-10	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05	9-10	>999	240	Weight: 42 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

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

BRACING-

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.

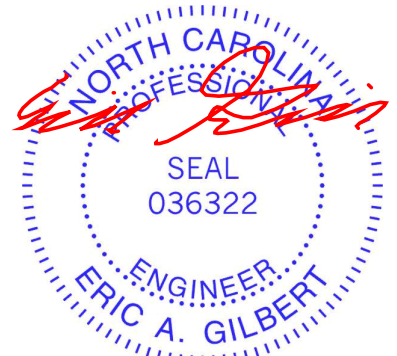
REACTIONS.

(size) 2=0-3-0, 7=0-1-8
 Max Horz 2=122(LC 12)
 Max Uplift 2=-86(LC 8), 7=-91(LC 8)
 Max Grav 2=330(LC 1), 7=261(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 2022

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

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

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

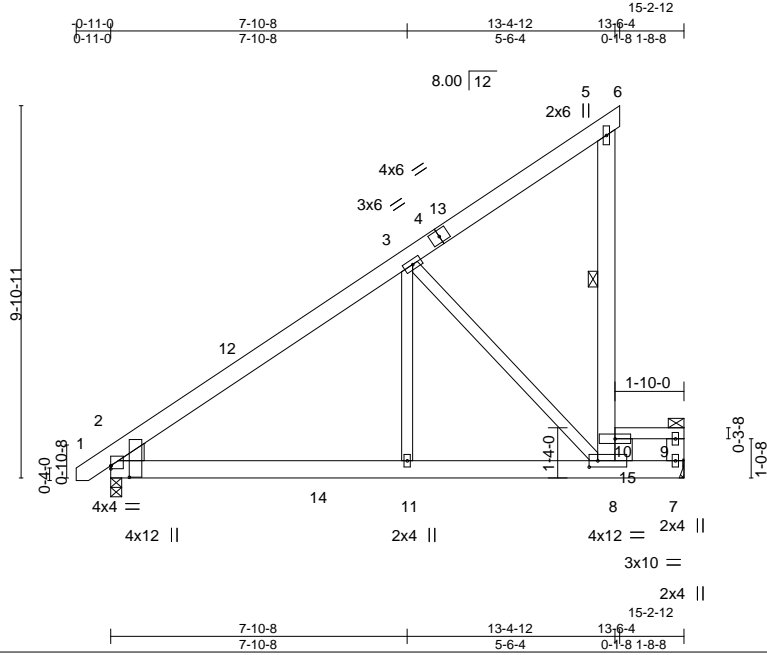


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588305
J0822-4068	M1	ROOF SPECIAL	9	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 1
ID: Mxo2zT_1o8v8CIEXCvR1ayxNUw-w2eEuNlzFDkjELNfN3ZFEk9IUqNMUdIW3?ykiypGnE



Scale = 1:61.2

Plate Offsets (X,Y)-- [2:0-3-10,0-5-15], [2:0-0-0,0-0-15], [8:0-2-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.08	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.18	8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	8-11	>999	240		
							Weight: 123 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP 2400F 2.0E *Except*
 9-10: 2x4 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-8,3-11: 2x4 SP No.2

WEDGE
 Left: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 7=Mechanical
 Max Horz 2=254(LC 12)
 Max Uplift 7=39(LC 12)
 Max Grav 2=724(LC 19), 7=1197(LC 19)

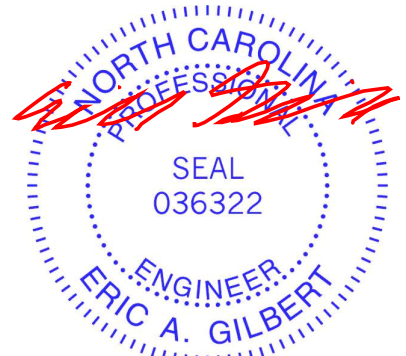
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-845/0, 8-10=-533/109
 BOT CHORD 2-11=-164/658, 8-11=-164/658
 WEBS 3-8=-810/207, 7-9=-254/6, 3-11=0/540

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 13-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588305
J0822-4068	M1	ROOF SPECIAL	9	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 2
ID:Mxo2zT_1o8v8CIEXCbVR1ayxNUw-w2eEuNlzFDkjELNfN3ZFEk9IUqNMcUdIW3?ykiypGnE

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40
Concentrated Loads (lb)
Vert: 15=-500
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Concentrated Loads (lb)
Vert: 15=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-7=-40, 9-10=-60
Concentrated Loads (lb)
Vert: 15=-375
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=45, 2-12=26, 5-12=20, 5-6=45, 2-7=-12, 9-10=-32
Horz: 1-2=-57, 2-12=-38, 5-12=-32, 5-6=-57
Concentrated Loads (lb)
Vert: 15=86
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-13=20, 5-13=26, 5-6=20, 2-7=-12, 9-10=-32
Horz: 1-2=-26, 2-13=-32, 5-13=-38, 5-6=-32
Concentrated Loads (lb)
Vert: 15=86
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=-51, 5-6=5, 2-7=-20, 9-10=-40
Horz: 1-2=-25, 2-5=31, 5-6=-25
Concentrated Loads (lb)
Vert: 15=-444
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-5=-51, 5-6=-45, 2-7=-20, 9-10=-40
Horz: 1-2=25, 2-5=31, 5-6=25
Concentrated Loads (lb)
Vert: 15=-444
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-0, 2-5=-13, 5-6=-18, 2-7=-12, 9-10=-32
Horz: 1-2=-12, 2-5=1, 5-6=6
Concentrated Loads (lb)
Vert: 15=-115
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-5=7, 5-6=20, 2-7=-12, 9-10=-32
Horz: 1-2=-13, 2-5=-19, 5-6=-32
Concentrated Loads (lb)
Vert: 15=-32
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-5=-32, 5-6=-26, 2-7=-20, 9-10=-40
Horz: 1-2=6, 2-5=12, 5-6=6
Concentrated Loads (lb)
Vert: 15=-325
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-12, 5-6=-7, 2-7=-20, 9-10=-40
Horz: 1-2=-13, 2-5=-8, 5-6=-13
Concentrated Loads (lb)
Vert: 15=-285
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32
Horz: 1-2=-21, 2-5=-27, 5-6=-21
Concentrated Loads (lb)
Vert: 15=18
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32
Horz: 1-2=-11, 2-5=-17, 5-6=-11
Concentrated Loads (lb)
Vert: 15=-44

Continued on page 3

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588305
J0822-4068	M1	ROOF SPECIAL	9	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 3
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LOAD CASE(S) Standard

- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32
Horz: 1-2=-21, 2-5=-27, 5-6=-21
Concentrated Loads (lb)
Vert: 15=18
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32
Horz: 1-2=-11, 2-5=-17, 5-6=-11
Concentrated Loads (lb)
Vert: 15=-44
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-5=-4, 5-6=1, 2-7=-20, 9-10=-40
Horz: 1-2=-21, 2-5=-16, 5-6=-21
Concentrated Loads (lb)
Vert: 15=-285
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-9, 2-5=-14, 5-6=9, 2-7=-20, 9-10=-40
Horz: 1-2=-11, 2-5=-6, 5-6=-11
Concentrated Loads (lb)
Vert: 15=-285
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-80, 7-11=-20, 9-10=-120
Concentrated Loads (lb)
Vert: 15=-250
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-5=-59, 5-6=-55, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=5, 2-5=9, 5-6=5
Concentrated Loads (lb)
Vert: 15=-494
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-6=-40, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=-10, 2-5=-6, 5-6=-10
Concentrated Loads (lb)
Vert: 15=-464
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-38, 5-6=-34, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=-16, 2-5=-12, 5-6=-16
Concentrated Loads (lb)
Vert: 15=-464
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-5=-46, 5-6=-41, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=-9, 2-5=-4, 5-6=-9
Concentrated Loads (lb)
Vert: 15=-464
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40
Concentrated Loads (lb)
Vert: 15=-500
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-7=-20, 9-10=-40
Concentrated Loads (lb)
Vert: 15=-250
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Concentrated Loads (lb)
Vert: 15=-438
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100

Continued on page 4

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588305
J0822-4068	M1	ROOF SPECIAL	9	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:31 2022 Page 4
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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 15=-250

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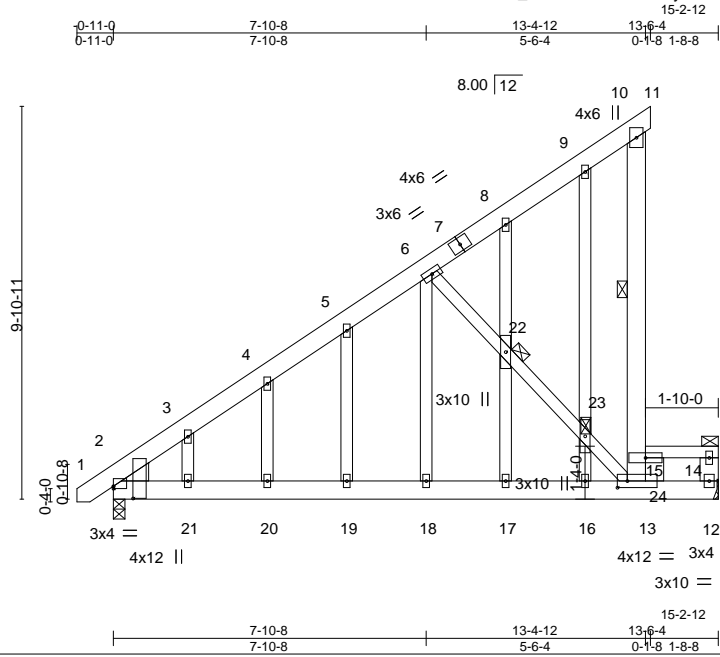


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588306
J0822-4068	M1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 1
ID:Mxo2zT_1o8v8CIEXCbVr1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRjIvG8ypGnD



Scale = 1:58.0

Plate Offsets (X,Y)-- [2:0-3-10,0-5-15], [2:0-0-0,0-0-11], [13:0-3-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.08	16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.17	16	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.23	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	16	>999	240	Weight: 155 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP 2400F 2.0E *Except*
 14-15: 2x4 SP No.1
 WEBS 2x6 SP No.1 *Except*
 6-13,6-18: 2x4 SP No.2
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals. Except:
 6'-0" oc bracing: 10-15
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
 WEBS 1 Row at midpt 10-15
 JOINTS 1 Brace at Jt(s): 14, 22, 23

REACTIONS.

(size) 2=0-3-8, 12=Mechanical
 Max Horz 2=366(LC 12)
 Max Uplift 2=-20(LC 12), 12=-271(LC 12)
 Max Grav 2=713(LC 1), 12=1499(LC 19)

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

TOP CHORD 2-3=-826/0, 3-4=-727/0, 4-5=-697/0, 5-6=-644/30, 6-8=-263/0, 13-15=-856/157, 10-15=-436/140
 BOT CHORD 2-21=-219/618, 20-21=-219/618, 19-20=-219/618, 18-19=-219/618, 17-18=-219/618, 16-17=-219/618, 13-16=-219/618
 WEBS 6-22=-747/285, 22-23=-715/274, 13-23=-724/270, 12-14=-267/13, 6-18=-113/394, 9-23=-57/411, 16-23=-51/427

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=271.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified.



August 11, 2022

Continuing Education: Building Designer must review loads to verify that they are correct for the intended use of this truss.

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	I53588306
J0822-4068	M1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 2
ID:Mxo2ZT_1o8v8CIEXCbVr1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRjIVG8ypGnD

NOTES-

- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-60, 10-11=-60, 2-13=-20, 12-13=-236, 14-15=-40
Concentrated Loads (lb)
Vert: 24=-500
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-50, 10-11=-50, 2-13=-20, 12-13=-209, 14-15=-100
Concentrated Loads (lb)
Vert: 24=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-10=-20, 10-11=-20, 2-13=-40, 12-13=-202, 14-15=-60
Concentrated Loads (lb)
Vert: 24=-375
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=45, 2-10=26, 10-11=45, 2-13=-12, 12-13=25, 14-15=-32
Horz: 1-2=-57, 2-10=-38, 10-11=-57
Concentrated Loads (lb)
Vert: 24=86
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=20, 2-10=26, 10-11=20, 2-13=-12, 12-13=25, 14-15=-32
Horz: 1-2=-32, 2-10=-38, 10-11=-32
Concentrated Loads (lb)
Vert: 24=86
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-10=-51, 10-11=5, 2-13=-20, 12-13=-212, 14-15=-40
Horz: 1-2=-25, 2-10=31, 10-11=-25
Concentrated Loads (lb)
Vert: 24=-444
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-10=-51, 10-11=-45, 2-13=-20, 12-13=-212, 14-15=-40
Horz: 1-2=25, 2-10=31, 10-11=25
Concentrated Loads (lb)
Vert: 24=-444
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-10=-15, 10-11=-20, 2-13=-12, 12-13=62, 14-15=-32
Horz: 1-2=-10, 2-10=3, 10-11=8
Concentrated Loads (lb)
Vert: 24=-115
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-10=10, 10-11=23, 2-13=-12, 12-13=-18, 14-15=-32
Horz: 1-2=-16, 2-10=-22, 10-11=-35
Concentrated Loads (lb)
Vert: 24=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-10=-34, 10-11=-28, 2-13=-20, 12-13=-166, 14-15=-40
Horz: 1-2=8, 2-10=14, 10-11=8
Concentrated Loads (lb)
Vert: 24=-337
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-10=-9, 10-11=-4, 2-13=-20, 12-13=-143, 14-15=-40
Horz: 1-2=-16, 2-10=-11, 10-11=-16
Concentrated Loads (lb)
Vert: 24=-285
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-10=27, 10-11=21, 2-13=-12, 12-13=28, 14-15=-32
Horz: 1-2=-33, 2-10=-39, 10-11=-33
Concentrated Loads (lb)
Vert: 24=92
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588306
J0822-4068	M1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 3
ID:Mxo2ZT_1o8v8CIEXCbVr1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkE1L4XRjIvG8ypGnD

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=4, 2-10=10, 10-11=4, 2-13=-12, 12-13=-18, 14-15=-32
Horz: 1-2=-16, 2-10=-22, 10-11=-16
- Concentrated Loads (lb)
Vert: 24=-13
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-10=27, 10-11=21, 2-13=-12, 12-13=28, 14-15=-32
Horz: 1-2=-33, 2-10=-39, 10-11=-33
Concentrated Loads (lb)
Vert: 24=92
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-10=10, 10-11=4, 2-13=-12, 12-13=-18, 14-15=-32
Horz: 1-2=-16, 2-10=-22, 10-11=-16
Concentrated Loads (lb)
Vert: 24=-13
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-10=8, 10-11=13, 2-13=-20, 12-13=-143, 14-15=-40
Horz: 1-2=-33, 2-10=-28, 10-11=-33
Concentrated Loads (lb)
Vert: 24=-285
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-10=-9, 10-11=-4, 2-13=-20, 12-13=-143, 14-15=-40
Horz: 1-2=-16, 2-10=-11, 10-11=-16
Concentrated Loads (lb)
Vert: 24=-285
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-120
Concentrated Loads (lb)
Vert: 24=-250
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-56, 2-10=-60, 10-11=-56, 2-13=-20, 12-13=-237, 14-15=-100
Horz: 1-2=6, 2-10=10, 10-11=6
Concentrated Loads (lb)
Vert: 24=-503
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-10=-42, 10-11=-38, 2-13=-20, 12-13=-220, 14-15=-100
Horz: 1-2=-12, 2-10=-8, 10-11=-12
Concentrated Loads (lb)
Vert: 24=-464
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-25, 2-10=-29, 10-11=-25, 2-13=-20, 12-13=-220, 14-15=-100
Horz: 1-2=-25, 2-10=-21, 10-11=-25
Concentrated Loads (lb)
Vert: 24=-464
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-10=-42, 10-11=-38, 2-13=-20, 12-13=-220, 14-15=-100
Horz: 1-2=-12, 2-10=-8, 10-11=-12
Concentrated Loads (lb)
Vert: 24=-464
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-60, 10-11=-60, 2-13=-20, 12-13=-236, 14-15=-40
Concentrated Loads (lb)
Vert: 24=-500
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-40
Concentrated Loads (lb)
Vert: 24=-250
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-50, 10-11=-50, 2-13=-20, 12-13=-209, 14-15=-100
Concentrated Loads (lb)
Vert: 24=-438
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588306
J0822-4068	M1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:32 2022 Page 4
 ID:Mxo2zT_1o8v8CIEXCbR1ayxNUw-OECc5jlb0XsasVyrxn4UnxiwkEi1L4XRjI/VG8ypGnD

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-10=-20, 10-11=-20, 2-13=-20, 12-13=-128, 14-15=-100

Concentrated Loads (lb)

Vert: 24=-250

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588307
J0822-4068	M2	ROOF SPECIAL	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 1
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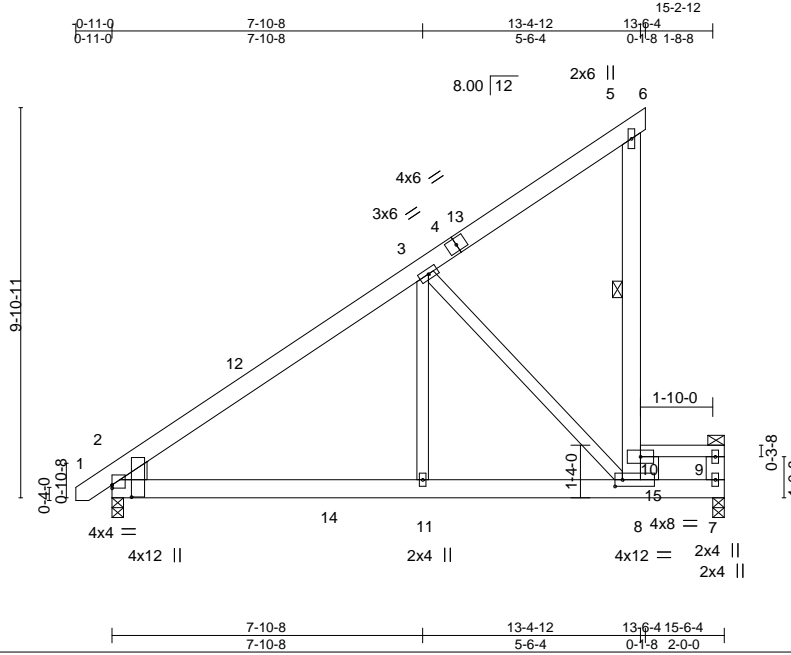


Plate Offsets (X,Y)--	[2:0-3-10,0-5-15], [2:0-0-0,0-0-15], [8:0-2-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.11	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.24	8-11	>759	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	8-11	>999	240	Weight: 124 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 end verticals. Except:
BOT CHORD 2x6 SP 2400F 2.0E *Except*	6-0-0 oc bracing: 5-10
9-10: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-10-10 oc bracing.
WEBS 2x6 SP No.1 *Except*	WEBS 1 Row at midpt 5-10
3-8,3-11: 2x4 SP No.2	

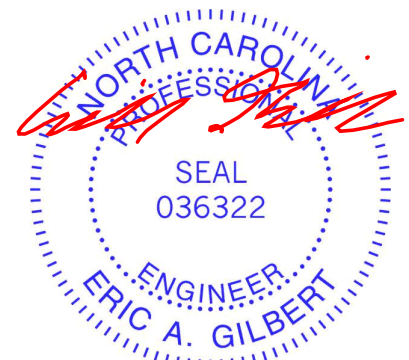
WEDGE
Left: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=254(LC 12)
Max Uplift 7=-25(LC 12)
Max Grav 2=747(LC 19), 7=1209(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-893/0, 8-10=-559/107
BOT CHORD 2-11=-169/696, 8-11=-169/696
WEBS 3-8=-841/212, 7-9=-255/0, 3-11=0/587

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 13-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



August 11, 2022

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588307
J0822-4068	M2	ROOF SPECIAL	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:33 2022 Page 2
ID:Mxo2ZT_1o8v8CIEXCbVR1ayxNUw-sRm_J2mDnq_RTFX1UUbj9F4Ve254Ofa_MU2obyGnC

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40
Concentrated Loads (lb)
Vert: 15=-500
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Concentrated Loads (lb)
Vert: 15=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-7=-40, 9-10=-60
Concentrated Loads (lb)
Vert: 15=-375
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=45, 2-12=26, 5-12=20, 5-6=45, 2-7=-12, 9-10=-32
Horz: 1-2=-57, 2-12=-38, 5-12=-32, 5-6=-57
Concentrated Loads (lb)
Vert: 15=86
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-13=20, 5-13=26, 5-6=20, 2-7=-12, 9-10=-32
Horz: 1-2=-26, 2-13=-32, 5-13=-38, 5-6=-32
Concentrated Loads (lb)
Vert: 15=86
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=-51, 5-6=5, 2-7=-20, 9-10=-40
Horz: 1-2=-25, 2-5=31, 5-6=-25
Concentrated Loads (lb)
Vert: 15=-444
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-5=-51, 5-6=-45, 2-7=-20, 9-10=-40
Horz: 1-2=25, 2-5=31, 5-6=25
Concentrated Loads (lb)
Vert: 15=-444
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-0, 2-5=-13, 5-6=-18, 2-7=-12, 9-10=-32
Horz: 1-2=-12, 2-5=1, 5-6=6
Concentrated Loads (lb)
Vert: 15=-115
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-5=7, 5-6=20, 2-7=-12, 9-10=-32
Horz: 1-2=-13, 2-5=-19, 5-6=-32
Concentrated Loads (lb)
Vert: 15=-32
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-5=-32, 5-6=-26, 2-7=-20, 9-10=-40
Horz: 1-2=6, 2-5=12, 5-6=6
Concentrated Loads (lb)
Vert: 15=-325
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-12, 5-6=-7, 2-7=-20, 9-10=-40
Horz: 1-2=-13, 2-5=-8, 5-6=-13
Concentrated Loads (lb)
Vert: 15=-285
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32
Horz: 1-2=-21, 2-5=-27, 5-6=-21
Concentrated Loads (lb)
Vert: 15=18
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32
Horz: 1-2=-11, 2-5=-17, 5-6=-11
Concentrated Loads (lb)
Vert: 15=-44

Continued on page 3

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588307
J0822-4068	M2	ROOF SPECIAL	2	1	Job Reference (optional)	

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ID:Mxo2zT_1o8v8CIExCBvR1ayxNUw-sRm_J2mDnq_RTX1UUbj9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard

- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-5=15, 5-6=9, 2-7=-12, 9-10=-32
Horz: 1-2=-21, 2-5=-27, 5-6=-21
Concentrated Loads (lb)
Vert: 15=18
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-5=5, 5-6=-1, 2-7=-12, 9-10=-32
Horz: 1-2=-11, 2-5=-17, 5-6=-11
Concentrated Loads (lb)
Vert: 15=-44
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-5=-4, 5-6=1, 2-7=-20, 9-10=-40
Horz: 1-2=-21, 2-5=-16, 5-6=-21
Concentrated Loads (lb)
Vert: 15=-285
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-9, 2-5=-14, 5-6=9, 2-7=-20, 9-10=-40
Horz: 1-2=-11, 2-5=-6, 5-6=-11
Concentrated Loads (lb)
Vert: 15=-285
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-80, 7-11=-20, 9-10=-120
Concentrated Loads (lb)
Vert: 15=-250
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-5=-59, 5-6=-55, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=5, 2-5=9, 5-6=5
Concentrated Loads (lb)
Vert: 15=-494
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-6=-40, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=-10, 2-5=-6, 5-6=-10
Concentrated Loads (lb)
Vert: 15=-464
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-38, 5-6=-34, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=-16, 2-5=-12, 5-6=-16
Concentrated Loads (lb)
Vert: 15=-464
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-5=-46, 5-6=-41, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Horz: 1-2=-9, 2-5=-4, 5-6=-9
Concentrated Loads (lb)
Vert: 15=-464
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-6=-60, 2-7=-20, 9-10=-40
Concentrated Loads (lb)
Vert: 15=-500
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-7=-20, 9-10=-40
Concentrated Loads (lb)
Vert: 15=-250
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-50, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100
Concentrated Loads (lb)
Vert: 15=-438
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-14=-20, 11-14=-65, 7-11=-20, 9-10=-100

Continued on page 4

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588307
J0822-4068	M2	ROOF SPECIAL	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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 ID:Mxo2zT_1o8v8CIExCBvR1ayxNUw-sRm_J2mDnq_RTFX1UUbj9F4Ve254Ofa_MU2obypGnC

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 15=-250

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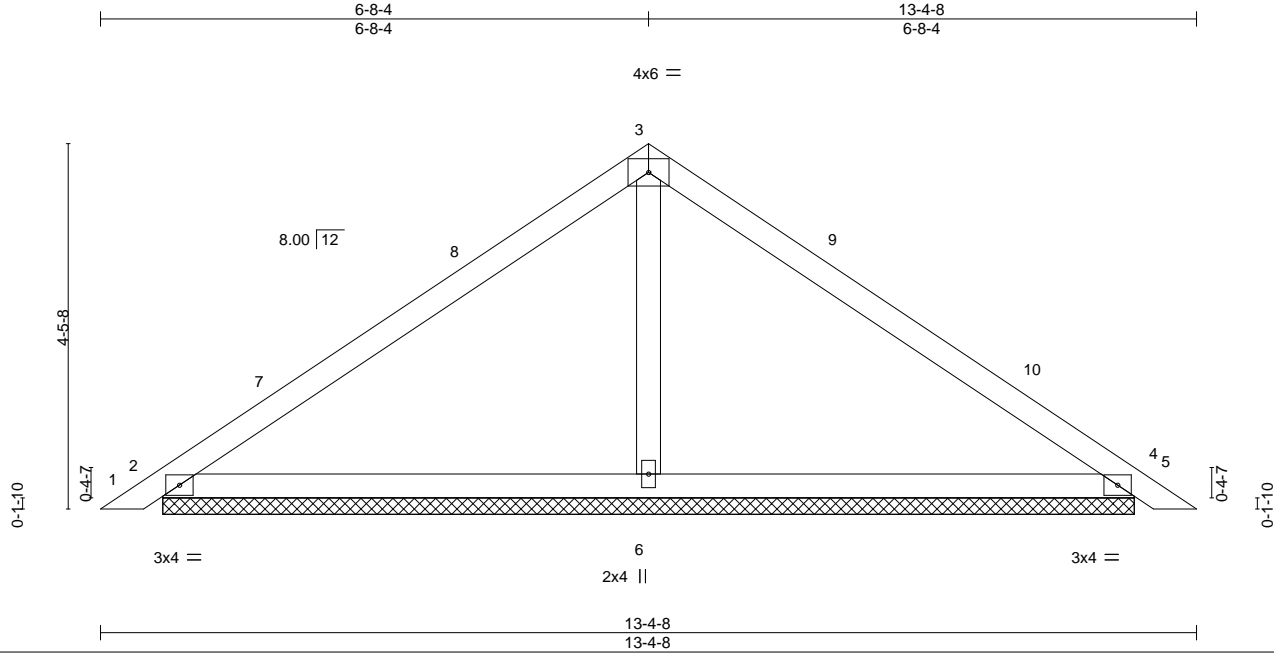
Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588308
J0822-4068	PB1	Piggyback	11	1		

Comtech, Inc, Fayetteville, NC - 28314,

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ID:Mxo2zT_1o8v8CIEXCBvR1ayxNUw-KdJMWOnrY86I5p6E2C6ysMnJU1U8p0NkD0EcL1ypGnB

13-4-8
6-8-4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) 0.02 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.03 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 47 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=11-10-4, 4=11-10-4, 6=11-10-4
Max Horz 2=-85(LC 10)
Max Uplift 2=-17(LC 12), 4=-25(LC 13)
Max Grav 2=265(LC 1), 4=265(LC 1), 6=478(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-294/85

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 6-8-4, Exterior(2) 6-8-4 to 11-1-1, Interior(1) 11-1-1 to 13-1-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 11, 2022

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 Liberty Meadows	153588309
J0822-4068	PB1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Aug 10 10:56:34 2022 Page 1

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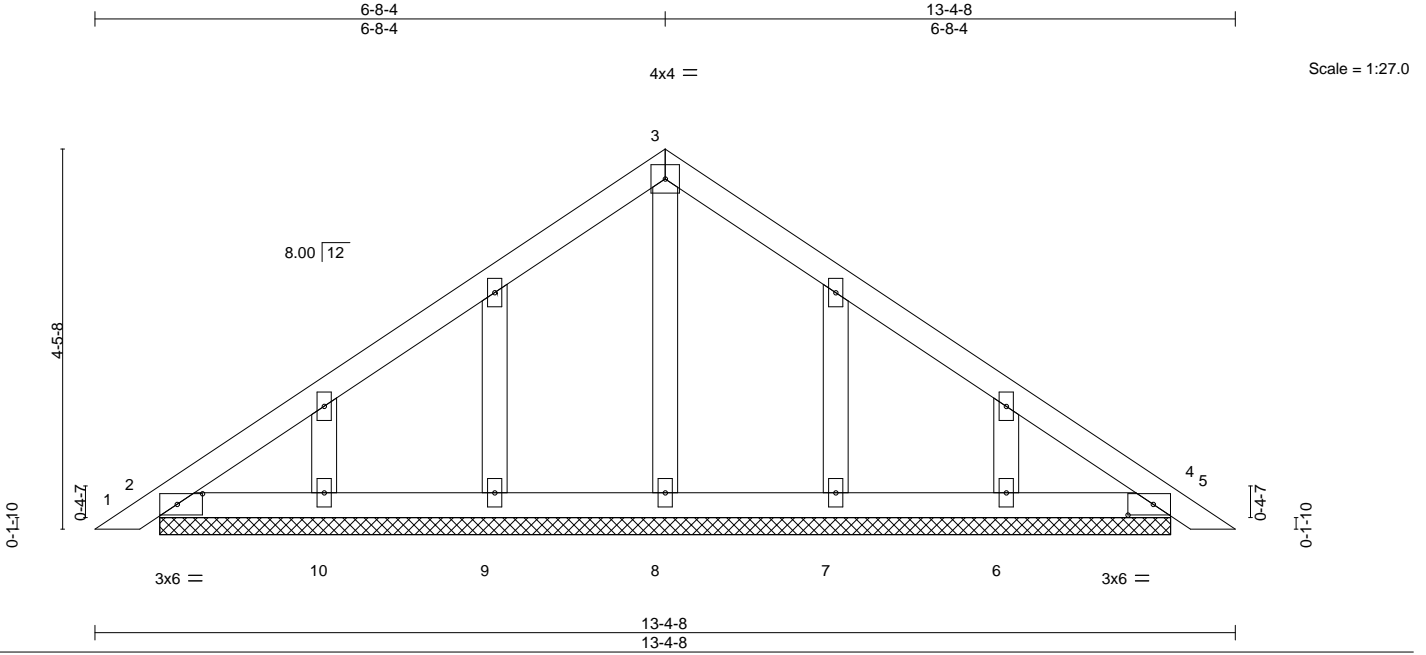


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [4:0-3-9,0-1-8], [13:0-0-0,0-0-0], [14:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) 0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 58 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 11-10-4.
 (lb) - Max Horz 2=106(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 4, 10, 6
 Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 7, 6 except 2=307(LC 1), 4=307(LC 1)

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

TOP CHORD 2-3=-408/154, 3-4=-408/154
 BOT CHORD 2-10=-43/254, 9-10=-43/254, 8-9=-43/254, 7-8=-43/254, 6-7=-43/254, 4-6=-43/254

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 10, 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 11, 2022

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 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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