

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0421-2468
Onsite\115 Greening way

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

Pages or sheets covered by this seal: E15641124 thru E15641174

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

North Carolina COA: C-0844



April 21, 2021

Strzyzewski, Marvin

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

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641124
J0421-2468	A1	MODIFIED QUEENPOST	1	1		Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:29 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjzplcvm-krB5O7PG_aSGnJ8nibSUZSAU9vDdriBJRmLaf0zOXy

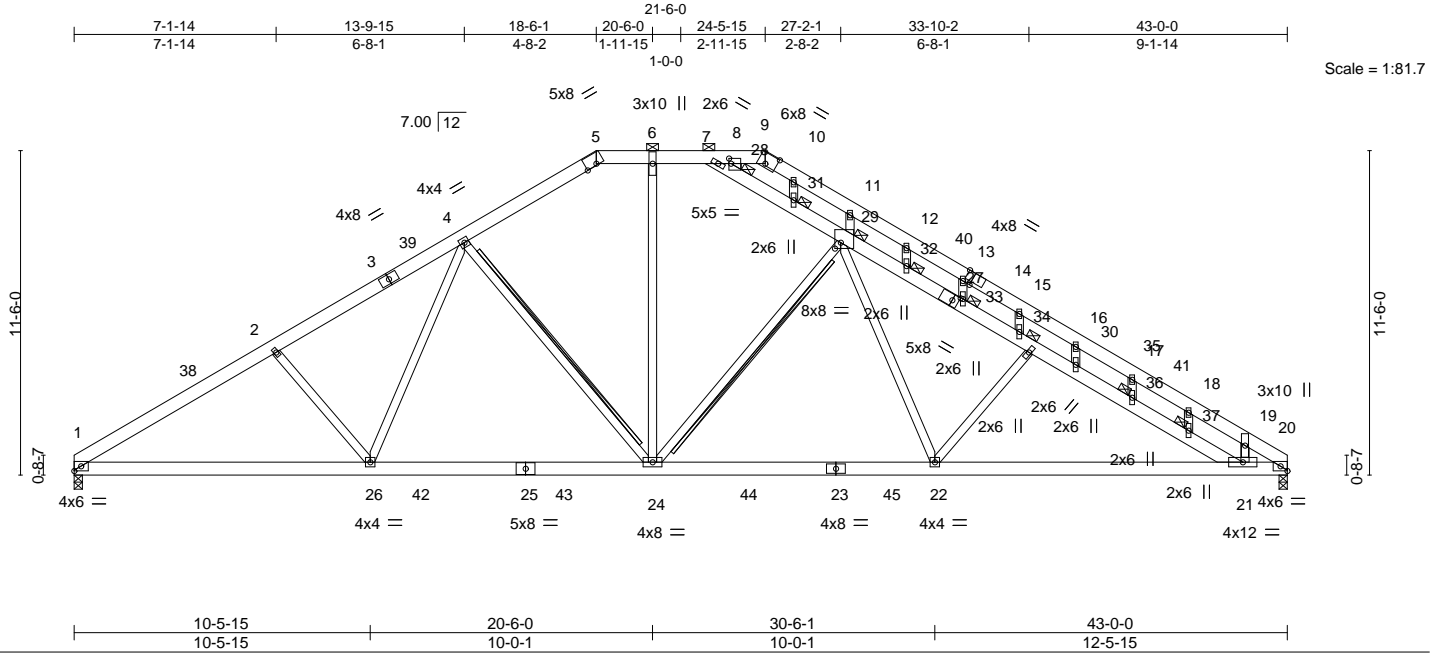


Plate Offsets (X,Y)-- [5:0-4-10,0-0-10], [8:0-1-12,0-0-0], [9:0-4-10,0-4-6], [14:0-2-15,Edge], [27:0-2-10,0-2-8], [28:0-0-14,0-2-3], [28:0-1-12,0-1-0], [29:0-2-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(LL) -0.20 24-26 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Vert(CT) -0.34 24-26 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.09 20 n/a n/a		
			Wind(LL) 0.14 21-22 >999 240	Weight: 364 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
7-27,21-27: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except 2-0-0 oc purlins (4-4-9 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-24, 24-29
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 28, 29, 30, 31, 32, 33, 36, 37

REACTIONS.

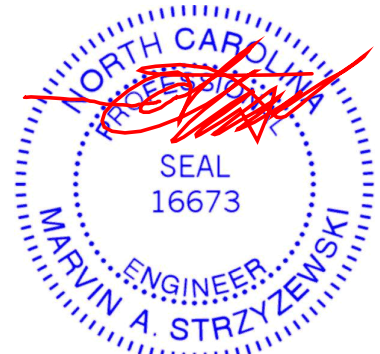
(size) 1=0-3-8, 20=0-3-8
Max Horz 1=331(LC 9)
Max Uplift 1=-318(LC 12), 20=-318(LC 13)
Max Grav 1=1770(LC 19), 20=1749(LC 20)

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

TOP CHORD 1-2=-2929/628, 2-4=-2725/635, 4-5=-1990/576, 9-10=-1966/663, 10-11=-2193/714,
11-12=-2171/642, 12-13=-2225/624, 13-15=-2244/597, 15-16=-2117/494,
16-17=-2089/440, 17-18=-2123/414, 18-19=-2083/371, 19-20=-2371/334, 5-6=-1716/548,
6-7=-1716/548, 7-8=-1943/658, 8-9=-1943/658
BOT CHORD 1-26=-569/2662, 24-26=-315/2149, 22-24=-215/1902, 21-22=-440/2475, 20-21=-236/1734
WEBS 7-28=-292/431, 28-31=-315/495, 29-31=-373/619, 29-32=-521/149, 32-33=-510/151,
33-34=-526/143, 30-34=-632/160, 30-35=-701/204, 35-36=-766/246, 36-37=-772/258,
21-37=-851/284, 8-28=-68/265, 2-26=-426/324, 4-26=-133/712, 4-24=-661/335,
6-24=-163/1064, 24-29=-398/217, 22-29=-197/900, 22-30=-607/382, 10-31=-108/388,
15-34=-357/236, 19-21=0/603

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 18-6-1, Exterior(2) 18-6-1 to 30-8-10, Interior(1) 30-8-10 to 42-10-4 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 2x4 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=318, 20=318.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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

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

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

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641125
J0421-2468	A2	Piggyback Base	12	1	115 Greening way	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:32 2021 Page 1
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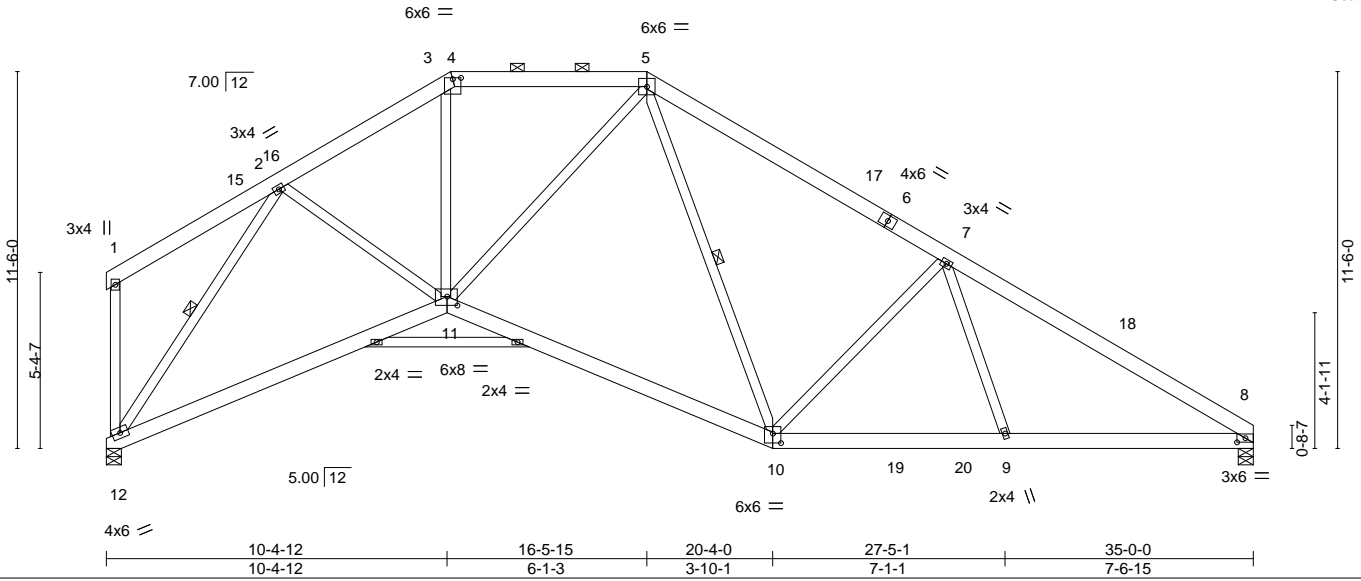


Plate Offsets (X,Y)-- [3:0-1-12,0-1-0], [4:0-3-0,0-0-8], [8:0-3-1,0-1-8], [10:0-3-0,0-3-8], [11:0-3-12,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.11	11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.23	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.09	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	10	>999	240		
							Weight: 275 lb	FT = 20%

LUMBER-

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

REACTIONS.

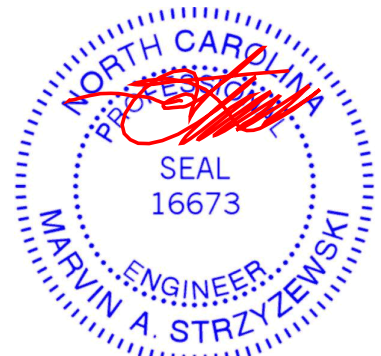
(size) 8=0-5-8, 12=0-5-8
 Max Horz 12=-259(LC 8)
 Max Uplift 8=-73(LC 13), 12=-37(LC 12)
 Max Grav 8=1380(LC 1), 12=1380(LC 1)

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

TOP CHORD 2-3=-1795/375, 3-4=-1367/375, 4-5=-1477/374, 5-7=-1662/491, 7-8=-2218/434
 BOT CHORD 11-12=-126/1153, 10-11=-60/1408, 9-10=-282/1729, 8-9=-255/1783
 WEBS 2-11=0/622, 3-11=-28/552, 5-11=-124/410, 5-10=-169/365, 7-10=-733/304, 7-9=0/331,
 2-12=-1823/344

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 10-6-13, Exterior(2) 10-6-13 to 22-8-10, Interior(1) 22-8-10 to 34-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 12.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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



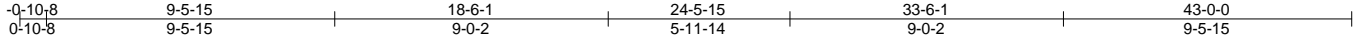
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641126
J0421-2468	A3	Piggyback Base	3	1			

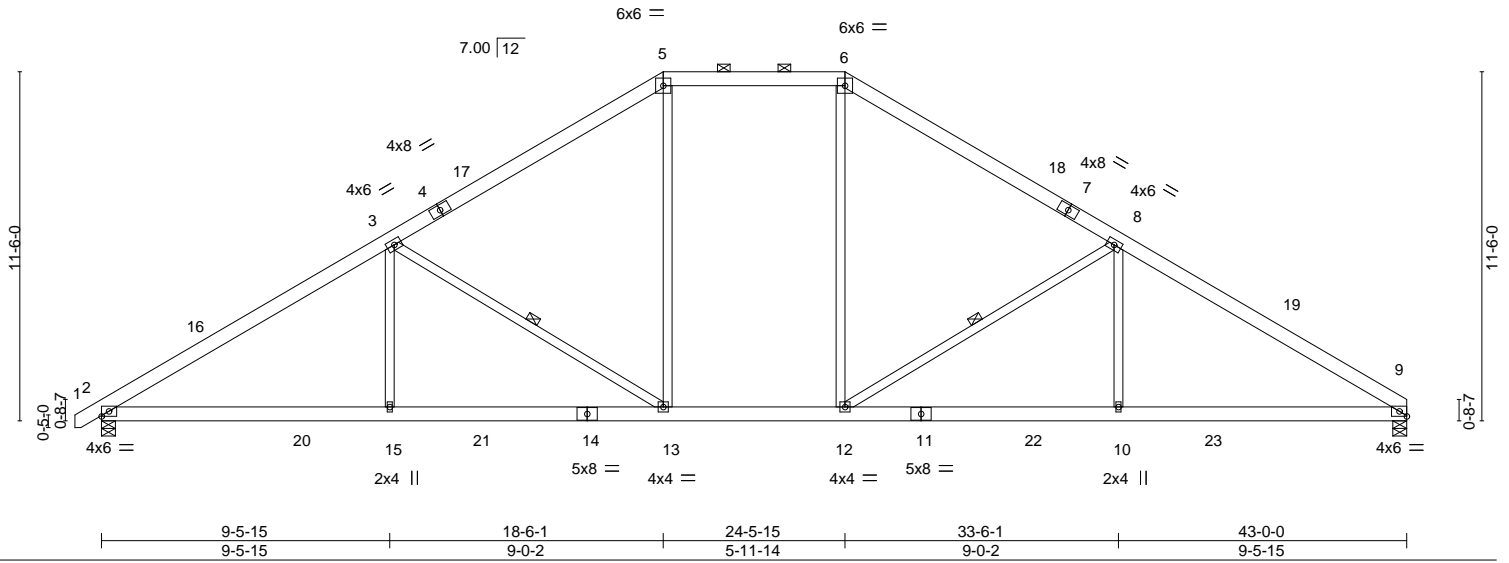
Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:34 2021 Page 1

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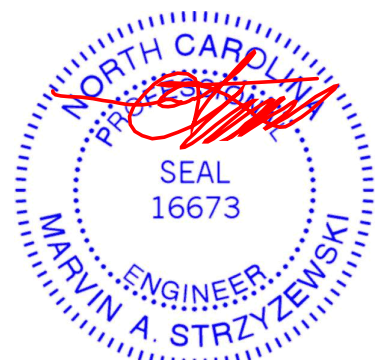
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) -0.26 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.37 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.21 13-15 >999 240		
				Weight: 296 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-8-7 max.): 5-6.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 3-13, 8-12

REACTIONS. (size) 2=0-5-8, 9=0-5-8
 Max Horz 2=268(LC 9)
 Max Uplift 2=-97(LC 12), 9=-83(LC 13)
 Max Grav 2=2002(LC 19), 9=1945(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3213/588, 3-5=-2288/578, 5-6=-1873/566, 6-8=-2288/583, 8-9=-3192/585
 BOT CHORD 2-15=-388/2815, 13-15=-388/2815, 12-13=-140/1919, 10-12=-380/2622, 9-10=-380/2622
 WEBS 3-15=0/525, 3-13=-1070/293, 5-13=-74/775, 6-12=-80/776, 8-12=-1076/295, 8-10=0/526

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 18-6-1, Exterior(2) 18-6-1 to 30-8-10, Interior(1) 30-8-10 to 42-9-4 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



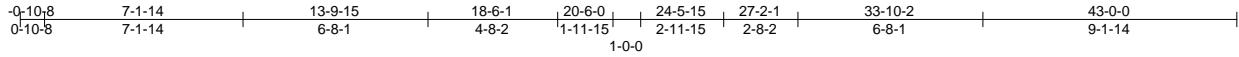
April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641127
J0421-2468	A4	MODIFIED QUEENPOST	1	1	Job Reference (optional)	

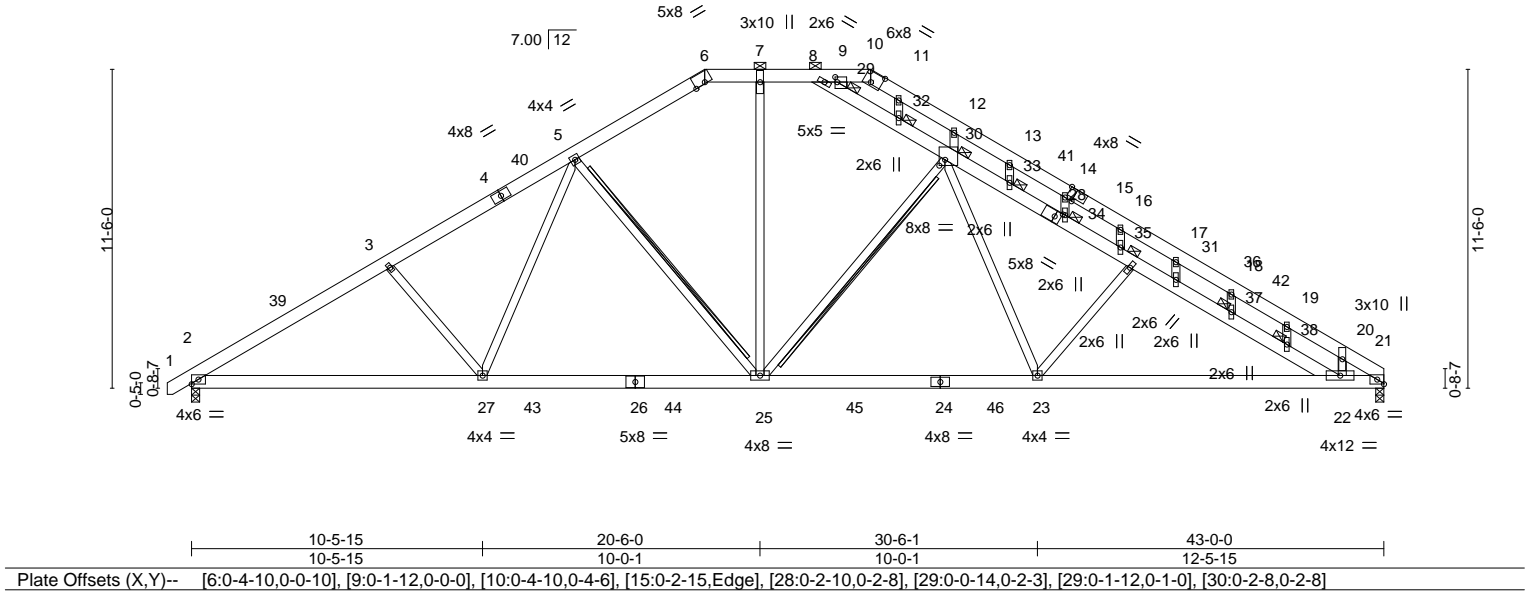
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:37 2021 Page 1

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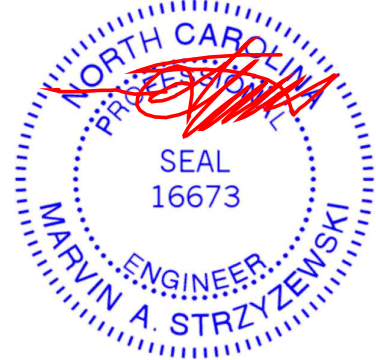


LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(LL) -0.20 25-27 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Vert(CT) -0.34 25-27 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.09 21 n/a n/a		
			Wind(LL) 0.14 22-23 >999 240	Weight: 366 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except 2-0-0 oc purlins (4-4-12 max.): 6-10.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-28,22-28: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 5-25, 25-30 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
REACTIONS.	JOINTS
(size) 2=0-3-8, 21=0-3-8	1 Brace at Jt(s): 29, 30, 31, 32, 33, 34, 37, 38
Max Horz 2=336(LC 9)	
Max Uplift 2=-344(LC 12), 21=-318(LC 13)	
Max Grav 2=1824(LC 19), 21=1749(LC 20)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2924/616, 3-5=-2721/624, 5-6=-1989/573, 10-11=-1967/663, 11-12=-2193/714, 12-13=-2170/641, 13-14=-2224/624, 14-16=-2244/597, 16-17=-2117/494, 17-18=-2089/439, 18-19=-2122/414, 19-20=-2082/370, 20-21=-2370/334, 6-7=-1715/548, 7-8=-1715/548, 8-9=-1943/657, 9-10=-1943/657
BOT CHORD 2-27=-564/2655, 25-27=-315/2148, 23-25=-213/1901, 22-23=-437/2474, 21-22=-236/1734
WEBS 8-29=-292/431, 29-32=-315/495, 30-32=-373/619, 30-33=-521/149, 33-34=-509/151, 34-35=-526/143, 31-35=-632/159, 31-36=-701/203, 36-37=-765/245, 37-38=-772/257, 22-38=-850/283, 9-29=-68/264, 3-27=-427/318, 5-27=-131/708, 5-25=-660/336, 7-25=-162/1063, 25-30=-398/218, 23-30=-197/900, 23-31=-607/382, 11-32=-108/388, 16-35=-357/236, 20-22=0/603

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 18-6-1, Exterior(2) 18-6-1 to 30-8-10, Interior(1) 30-8-10 to 42-10-4 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 2x4 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344, 21=318.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641128
J0421-2468	B1	PIGGYBACK BASE SUPPO	1	1	115 Greening way	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:40 2021 Page 1

ID:GdeVuy8LodFyisWa1fGtjplcvm-vyMFitXAOyqib0UvsP93Wm7XWL6EwExz_WfYuzOX8n

-0-10;8 18-6-1 22-5-15 41-0-0 41-10-8
0-10;8 18-6-1 3-11-14 18-6-1 0-10-8

Scale = 1:78.7

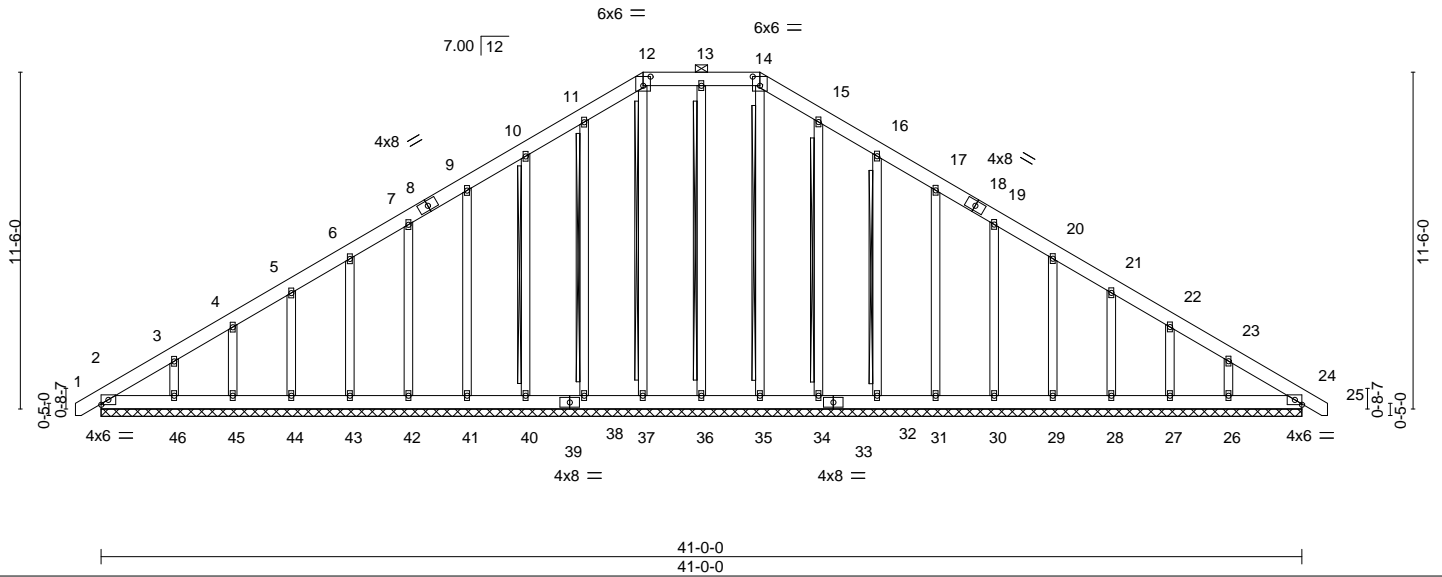


Plate Offsets (X,Y)-- [12:0-3-0,0-3-12], [14:0-3-0,0-3-12]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) 0.00	24	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00	24	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01	24	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 385 lb	FT = 20%

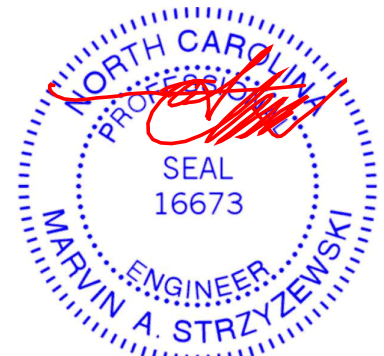
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 12-14.
Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD T-Brace: 2x4 SPF No.2 - 14-35, 13-36, 12-37, 11-38, 10-40, 15-34, 16-32
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 41-0-0.
(lb) - Max Horz 2=338(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 34, 32, 31, 30, 29, 28, 27, 24 except 46=120(LC 12), 26=114(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 34, 32, 31, 30, 29, 28, 27, 26, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-316/278, 9-10=-201/267, 10-11=-254/306, 11-12=-296/343, 12-13=-273/324, 13-14=-273/324, 14-15=-296/343, 15-16=-255/293

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-5 to 3-7-8, Exterior(2) 3-7-8 to 18-6-1, Corner(3) 18-6-1 to 26-10-12, Exterior(2) 26-10-12 to 41-9-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 34, 32, 31, 30, 29, 28, 27, 24 except (jt=lb) 46=120, 26=114.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641129
J0421-2468	B2	Piggyback Base	9	1			

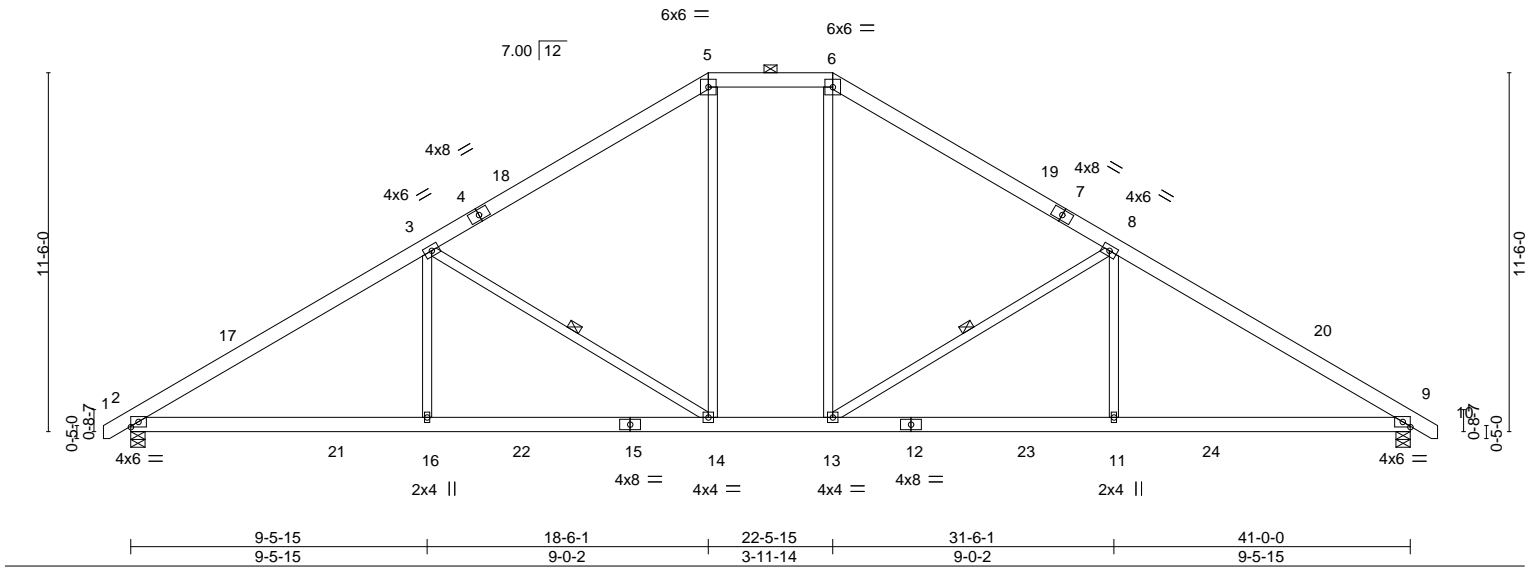
Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:43 2021 Page 1

ID:GdeVuy8LodFyisWa1fGtjplcvm-KX1OLvZ2htDHSTCUXXim7PlxKY0o70MNFykJ9DzOX8k

0-10-8 9-5-15 18-6-1 22-5-15 31-6-1 41-0-0 41-10-8
 0-10-8 9-5-15 9-0-2 3-11-14 9-0-2 9-5-15 0-10-8

Scale = 1:73.8



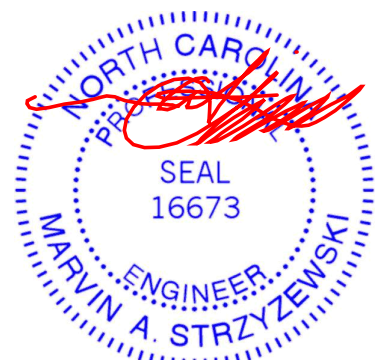
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.16 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.27 11-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 14-16 >999 240	Weight: 289 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-14, 8-13

REACTIONS. (size) 2=0-5-8, 9=0-5-8
 Max Horz 2=-270(LC 10)
 Max Uplift 2=-97(LC 12), 9=-97(LC 13)
 Max Grav 2=1896(LC 19), 9=1896(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3012/537, 3-5=-2067/532, 5-6=-1675/523, 6-8=-2067/532, 8-9=-3012/537
 BOT CHORD 2-16=-333/2647, 14-16=-333/2647, 13-14=-86/1749, 11-13=-330/2445, 9-11=-330/2445
 WEBS 3-16=0/535, 3-14=-1070/293, 5-14=-91/719, 6-13=-91/719, 8-13=-1071/293, 8-11=0/535

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 18-6-1, Exterior(2) 18-6-1 to 28-8-10, Interior(1) 28-8-10 to 41-9-5 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



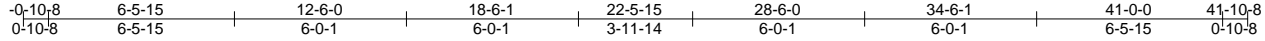
April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641130
J0421-2468	B3	Piggyback Base Girder	1	3	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:GdeVuy8L0dFyisWa1fGtjzplcvm-Gw98lbbJCUT?inMseyIEDqrHIMb4buVg6GDQD5zOX8i



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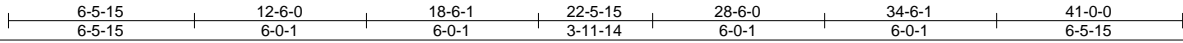
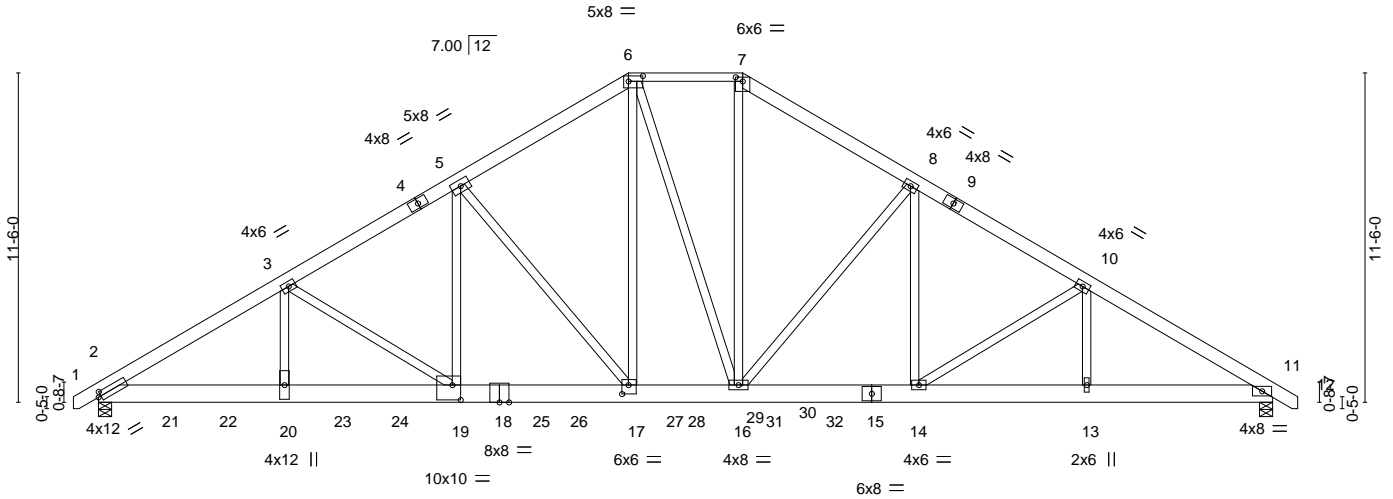


Plate Offsets (X,Y)-- [2:0-1-3,0-2-0], [6:0-6-0,0-2-4], [7:0-3-0,0-1-12], [17:0-2-12,0-3-12], [19:0-3-8,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.23	17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.39	17-19	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.11	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12	17-19	>999	240		
							Weight: 1092 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
 6-7: 2x4 SP No.1
 BOT CHORD 2x8 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.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

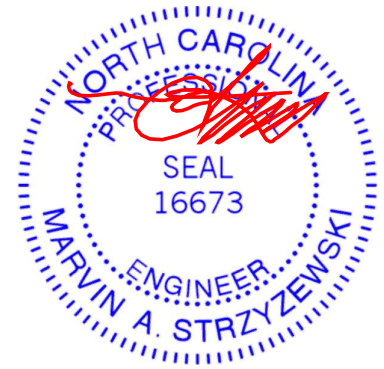
(size) 2=0-5-8, 11=0-5-8
 Max Horz 2=-271(LC 6)
 Max Uplift 2=-727(LC 8), 11=-531(LC 9)
 Max Grav 2=11198(LC 2), 11=5458(LC 2)

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

TOP CHORD 2-3=-18893/1247, 3-5=-15138/1160, 5-6=-10273/1037, 6-7=-7968/911, 7-8=-9268/1010,
 8-10=-9591/985, 10-11=-9778/948
 BOT CHORD 2-20=-1105/15970, 19-20=-1105/15970, 17-19=-930/13032, 16-17=-709/8885,
 14-16=-666/8220, 13-14=-715/8215, 11-13=-715/8215
 WEBS 3-20=-62/4003, 3-19=-3521/209, 5-19=-195/7211, 5-17=-6664/359, 6-17=-598/7602,
 6-16=-2910/257, 7-16=-464/4413, 8-16=-768/241, 8-14=-86/445, 10-14=-420/300

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=727, 11=531.
- 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) 1078 lb down and 53 lb up at 2-4-12, 1078 lb down and 53 lb up at 4-4-12, 1423 lb down and 52 lb up at 6-4-12, 1423 lb down and 52 lb up at 8-4-12, 1423 lb down and 52 lb up at 10-4-12, 1406 lb down and 52 lb up at 12-4-12, 1378 lb down and 52 lb up at 14-4-12, 1915 lb down and 79 lb up at 15-8-7, 704 lb down and 288 lb up at 19-0-12, 541 lb down and 145 lb up at 19-9-12, and 564 lb down and 145 lb up at 21-9-12, and 567 lb down and 145 lb up at 23-5-12 on bottom chord. The design/selection of such connection device(s) is the



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Continued on page 2 others.

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	Onsite\115 Greening way	E15641130
J0421-2468	B3	Piggyback Base Girder	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:45 2021 Page 2
 ID:GdeVuy8L0dFyisWa1fGtjzlcvm-Gw98bbJCUT?inMseyIEDqrHIMb4buVg6GDQD5zOX8i

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-7=-60, 7-12=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 20=-1047(B) 19=-1047(B) 21=-1047(B) 22=-1047(B) 23=-1047(B) 24=-1047(B) 25=-1047(B) 26=-1570(B) 27=-632(B) 28=-498(B) 30=-498(B) 31=-498(B)

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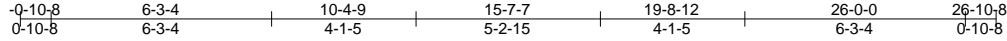
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641131
J0421-2468	C1	PIGGYBACK ATTIC	1	1			

Comtech, Inc., Fayetteville, NC - 28314,

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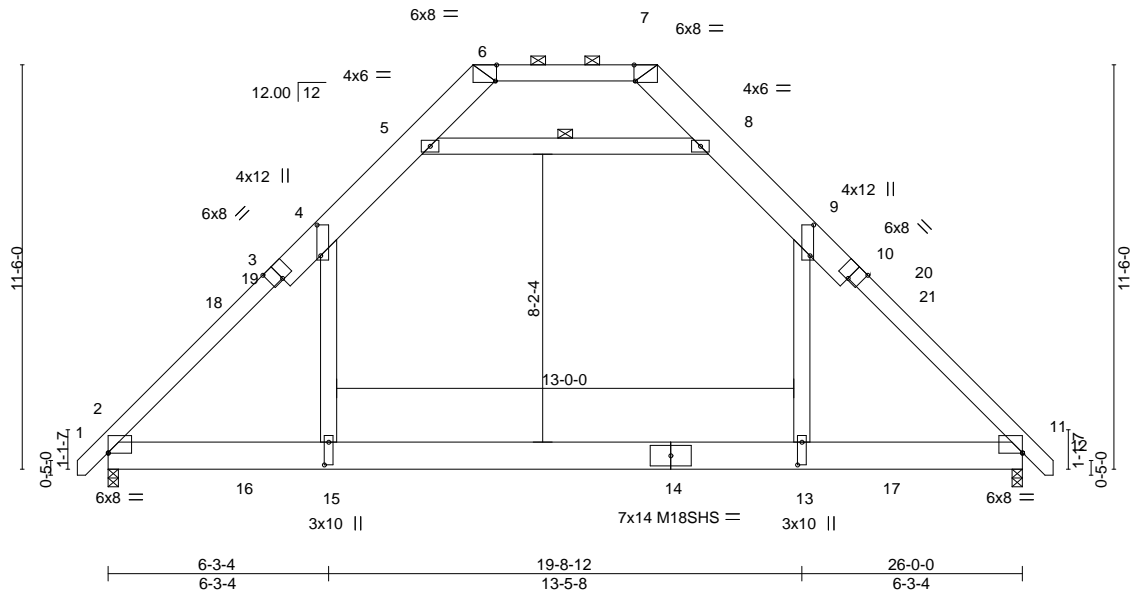


Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-4-0,Edge], [4:0-10-8,0-1-4], [6:0-0-7,Edge], [7:0-0-7,Edge], [9:0-10-8,0-1-4], [10:0-4-0,Edge], [11:0-0-0,0-0-3], [13:0-7-12,0-1-8], [15:0-7-12,0-1-8]

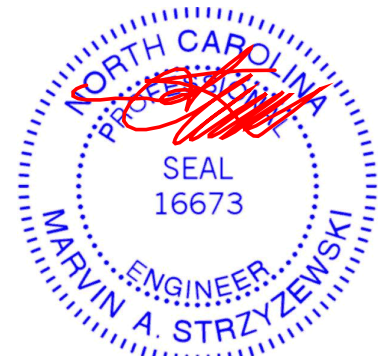
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.29	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.45	13-15	>682	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12	13-15	>999	240		
							Weight: 263 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except
3-6,7-10: 2x10 SP No.1	2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 5-8

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=337(LC 11)
 Max Uplift 2=-33(LC 12), 11=-33(LC 13)
 Max Grav 2=2257(LC 20), 11=2257(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3204/111, 4-5=-1672/246, 5-6=-46/692, 7-8=-47/693, 8-9=-1672/246,
 9-11=-3203/111, 6-7=-45/1014
 BOT CHORD 2-15=0/2002, 13-15=0/2013, 11-13=0/2001
 WEBS 4-15=-18/1855, 9-13=-17/1854, 5-8=-2915/326

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-8-5, Exterior(2) 10-8-5 to 21-6-5, Interior(1) 21-6-5 to 26-9-2 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.
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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Continued on page 2

LOAD CASE(S) Standard

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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	Onsite\115 Greening way	E15641131
J0421-2468	C1	PIGGYBACK ATTIC	1	1	Job Reference (optional)	

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8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:48 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-15=-20, 13-15=-80(F=-40), 11-13=-20, 1-4=-60, 4-5=-80, 5-6=-60, 7-8=-60, 8-9=-80, 9-12=-60, 6-7=-60, 5-8=-20

Drag: 4-15=-10, 9-13=-10

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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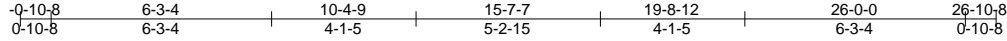
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641132
J0421-2468	C2	PIGGYBACK ATTIC	6	1	Job Reference (optional)		

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8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:03:59 2021 Page 1

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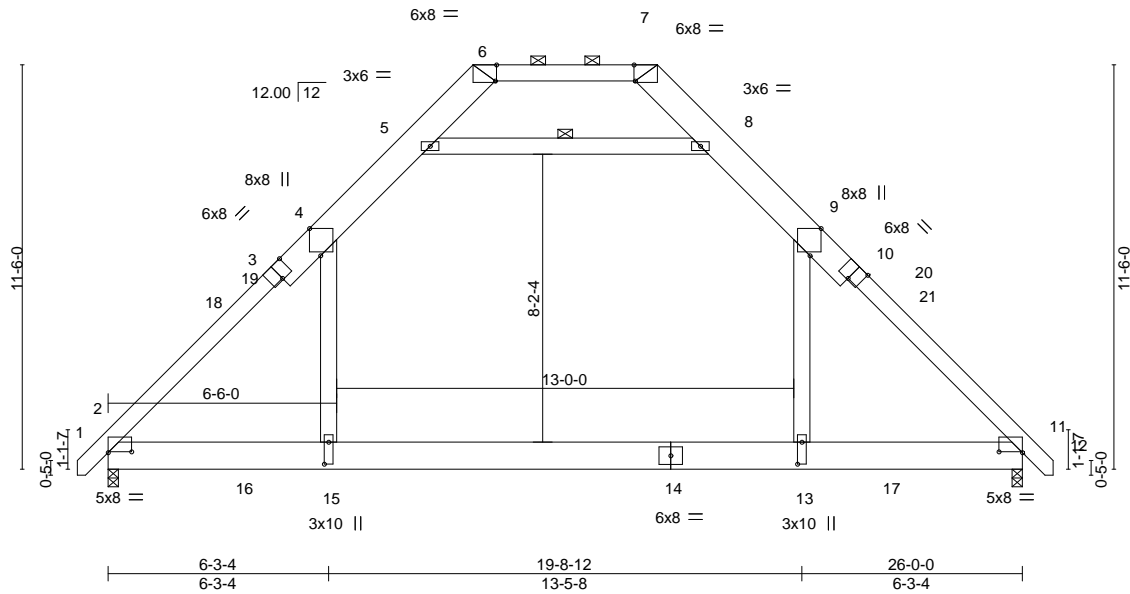


Plate Offsets (X,Y)-- [2:0-8-0,0-0-5], [3:0-4-0,Edge], [4:0-9-5,Edge], [6:0-0-7,Edge], [7:0-0-7,Edge], [9:0-9-5,Edge], [10:0-4-0,Edge], [11:0-8-0,0-0-5], [13:0-7-8,0-1-8], [15:0-7-8,0-1-8]

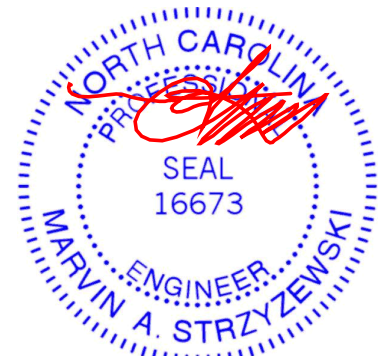
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.22	13-15	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(CT)	-0.36	13-15	>868		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.53	Horz(CT)	0.02	11	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.08	15	>999		
	Code IRC2015/TPI2014						Weight: 263 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except
3-6,7-10: 2x10 SP No.1	2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 5-8

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=269(LC 11)
 Max Grav 2=1802(LC 20), 11=1802(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=2434/0, 4-5=-1357/188, 5-6=-29/471, 7-8=-29/471, 8-9=-1357/188, 9-11=-2433/0,
 6-7=0/716
 BOT CHORD 2-15=0/1517, 13-15=0/1524, 11-13=0/1516
 WEBS 4-15=0/1306, 9-13=0/1306, 5-8=-2090/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-8-5, Exterior(2) 10-8-5 to 21-6-5, Interior(1) 21-6-5 to 26-9-2 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - 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.



April 21, 2021

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

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

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

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



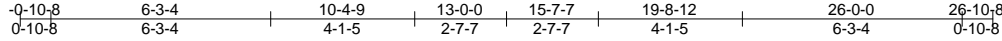
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641133
J0421-2468	C3	PIGGYBACK ATTIC	1	3	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:01 2021 Page 1

ID:GdeVuy8LOdFyisWa1fGtjplcvm-o?7B63nLRPUkdEaxaJ1_sCVw6p7VLDv1o15GnAzOX8S



Scale = 1:65.7

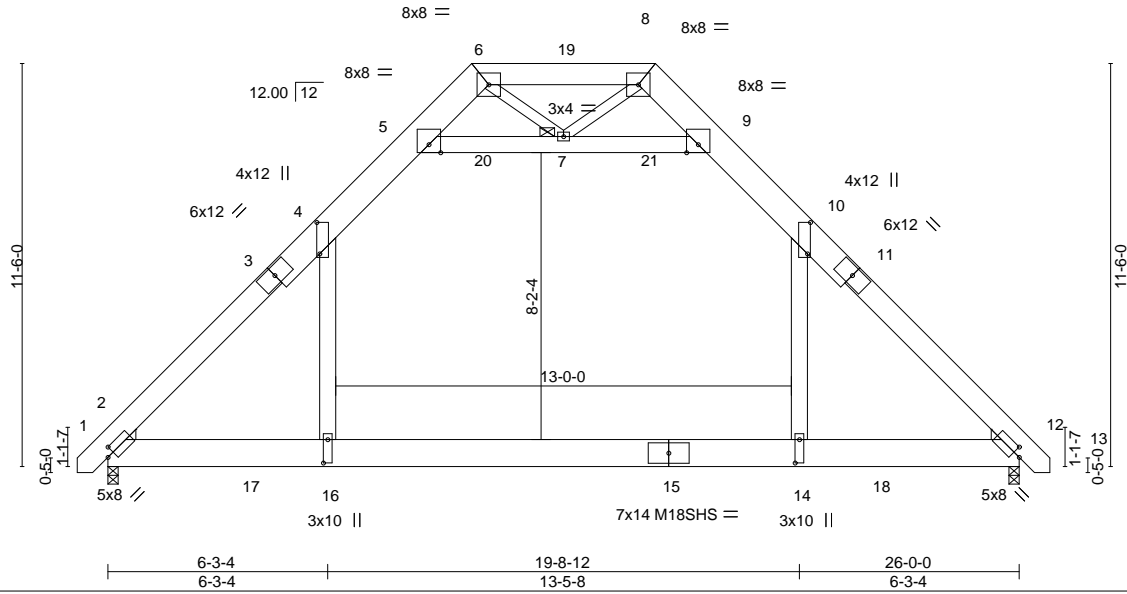


Plate Offsets (X,Y)-- [2:0-2-8,0-2-8], [4:0-10-12,0-1-0], [10:0-10-12,0-1-0], [12:0-2-8,0-2-8], [14:0-8-0,0-1-8], [16:0-8-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.30	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.45	14-16	>680	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.29	Horz(CT) 0.03	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	14-16	>999	240		
							Weight: 860 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1 *Except*
3-6,8-11: 2x10 SP 2400F 2.0E, 5-9: 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x6 SP No.1 *Except*
6-7,7-8: 2x4 SP No.2

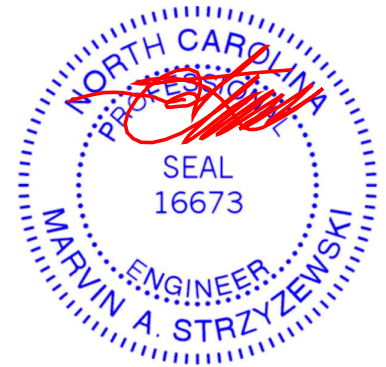
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-8, 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 7

WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-268(LC 26)
Max Uplift 2=-916(LC 8), 12=-766(LC 9)
Max Grav 2=9907(LC 34), 12=7440(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-11869/1156, 4-5=-6699/1126, 5-6=-2534/2499, 8-9=-2501/2556, 9-10=-6916/1140,
10-12=-11604/1136, 6-8=-1608/3370, 5-7=-9138/932, 7-9=-9533/955
BOT CHORD 2-16=-772/7413, 14-16=-772/7459, 12-14=-771/7416
WEBS 4-16=-221/7074, 10-14=-178/6380, 6-7=-166/252, 7-8=-158/547

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-8-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates 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, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-7, 7-9; Wall dead load (5.0psf) on member(s).4-16, 10-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=916, 12=766.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641133
J0421-2468	C3	PIGGYBACK ATTIC	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:01 2021 Page 2
ID:GdeVuy8L0dFyisWa1fGtjzlcvm-o?7B63nLRPUkdEaxaJ1_sCVw6p7VLDv1oI5GnAzOX8S

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3566 lb down and 1365 lb up at 13-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-16=-320(F=-300), 14-16=-340(F=-300), 12-14=-20, 1-4=-60, 4-5=-80, 5-6=-60, 8-9=-60, 9-10=-80, 10-13=-60, 6-8=-100, 5-20=-80, 20-21=-120, 9-21=-80

Drag: 4-16=-10, 10-14=-10

Concentrated Loads (lb)

Vert: 19=-3566(F)

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



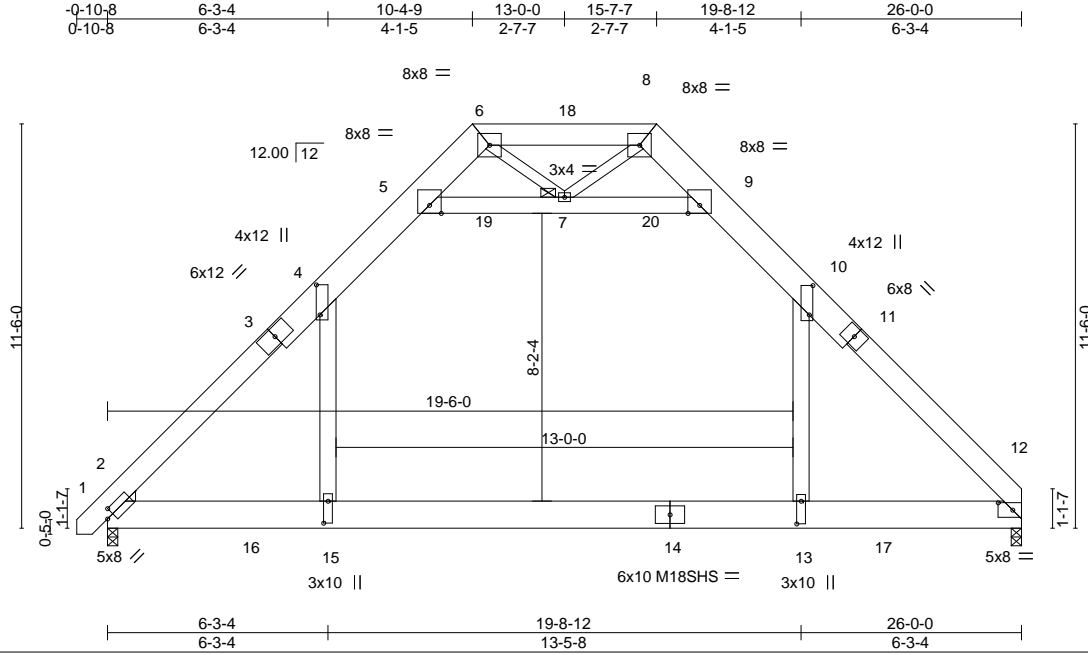
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641134
J0421-2468	C4	PIGGYBACK ATTIC	1	3	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:03 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjplzcvn-kNFyXlpbz0kSsYkKik3SxdaGacpzp7OJF3aNs2zOX8Q



Scale = 1:65.5

Plate Offsets (X,Y)-- [2:0-2-8,0-2-8], [4:0-10-4,0-1-4], [10:0-10-0,0-1-4], [12:0-4-15,0-2-8], [13:0-7-12,0-1-8], [15:0-7-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.31	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.46	13-15	>674	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.29	Horz(CT) 0.03	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	13-15	>999	240		
							Weight: 850 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1 *Except*
3-6,8-11: 2x10 SP 2400F 2.0E, 5-9: 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x6 SP No.1 *Except*
6-7,7-8: 2x4 SP No.2

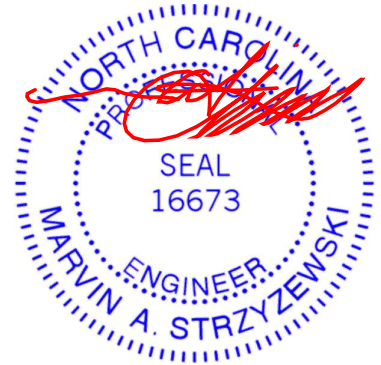
WEDGE
Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=265(LC 7)
Max Uplift 2=969(LC 8), 12=807(LC 9)
Max Grav 2=9983(LC 34), 12=7471(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-11990/1229, 4-5=-6787/1198, 5-6=-2649/2600, 8-9=-2609/2660, 9-10=-7025/1213,
10-12=-11626/1205, 6-8=-1711/3485, 5-7=-9207/972, 7-9=-9639/996
BOT CHORD 2-15=-826/7488, 13-15=-825/7534, 12-13=-824/7493
WEBS 4-15=-226/7110, 10-13=-176/6234, 7-8=-160/571

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-8-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-7, 7-9; Wall dead load (5.0psf) on member(s). 4-15, 10-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=969, 12=807.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641134
J0421-2468	C4	PIGGYBACK ATTIC	1	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:03 2021 Page 2
ID:GdeVuy8L0dFyisWa1fGtjplcvm-kNFyXlpbz0kSsYkKik3SxdaGacpzp7OJF3aNs2zOX8Q

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3722 lb down and 1470 lb up at 13-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-15=-320(B=-300), 13-15=-340(B=-300), 12-13=-20, 1-4=-60, 4-5=-80, 5-6=-60, 8-9=-60, 9-10=-80, 10-12=-60, 6-8=-100, 5-19=-80, 19-20=-120, 9-20=-80

Drag: 4-15=-10, 10-13=-10

Concentrated Loads (lb)

Vert: 18=-3722(B)

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

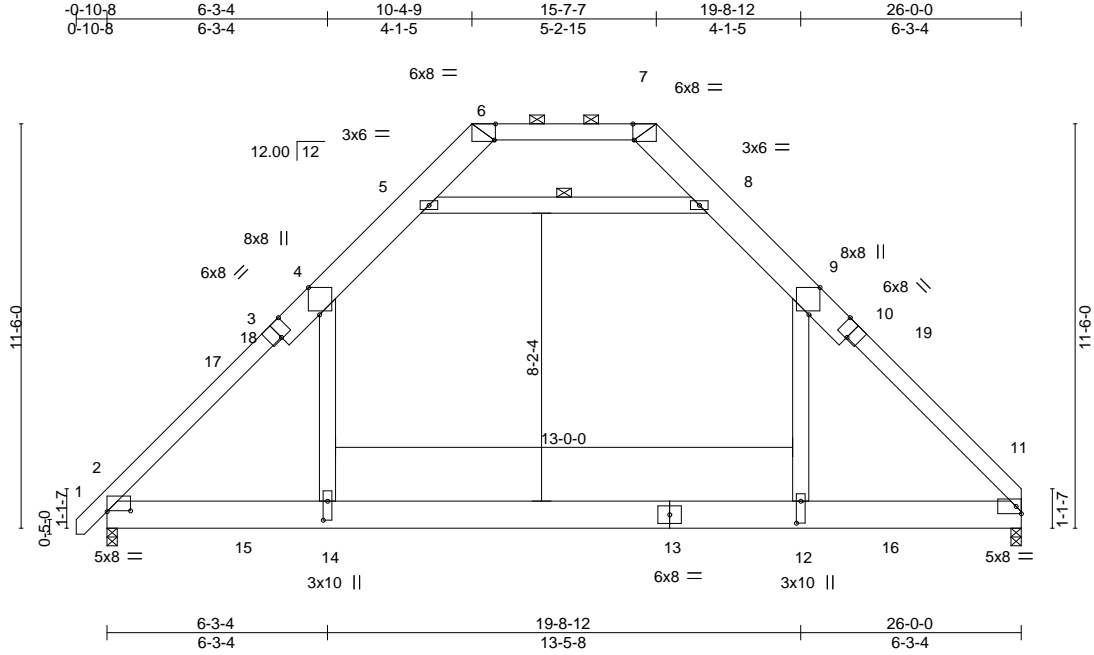
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641135
J0421-2468	C5	PIGGYBACK ATTIC	2	1			

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:05 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjzlcvm-gmMiyRqrVe_95suiip96w02gtxQSwHy1ciN3UwzOX8O



Scale = 1:65.5

Plate Offsets (X,Y)-- [2:0-8-0,0-0-5], [3:0-4-0,Edge], [4:0-9-5,Edge], [6:0-0-7,Edge], [7:0-0-7,Edge], [9:0-9-5,Edge], [10:0-4-0,Edge], [12:0-7-8,0-1-8], [14:0-6-8,0-1-8]

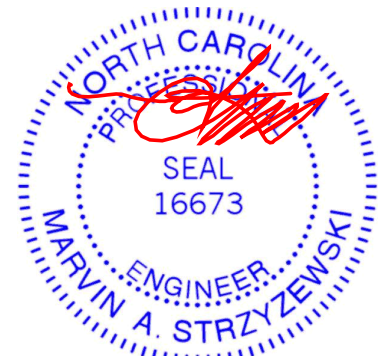
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.22	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.36	12-14	>857		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.02	11	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S	Wind(LL)	0.08	12	>999	Weight: 260 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-6,7-10: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 5-8

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=267(LC 9)
 Max Grav 2=1803(LC 20), 11=1751(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2442/0, 4-5=-1357/188, 5-6=-22/487, 7-8=-20/481, 8-9=-1364/196, 9-11=-2416/0, 6-7=0/735
 BOT CHORD 2-14=0/1517, 12-14=0/1524, 11-12=0/1516
 WEBS 4-14=0/1315, 9-12=0/1274, 5-8=-2123/219

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-8-5, Exterior(2) 10-8-5 to 21-6-5, Interior(1) 21-6-5 to 25-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-14, 9-12
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Attic room checked for L/360 deflection.



April 21, 2021

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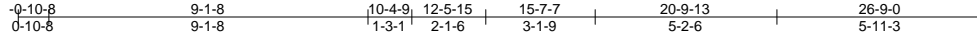
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641136
J0421-2468	C6	PIGGYBACK BASE	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:07 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjzlcvm-d9USN6s61FEtL925xa8P6Tl3?E7jllGvAhZa?pzOX8M



MEMBERS SHOWN DOTTED SHALL BE REMOVED AFTER TRUSS IS ERECTED AND BRACED.

Scale = 1:65.9

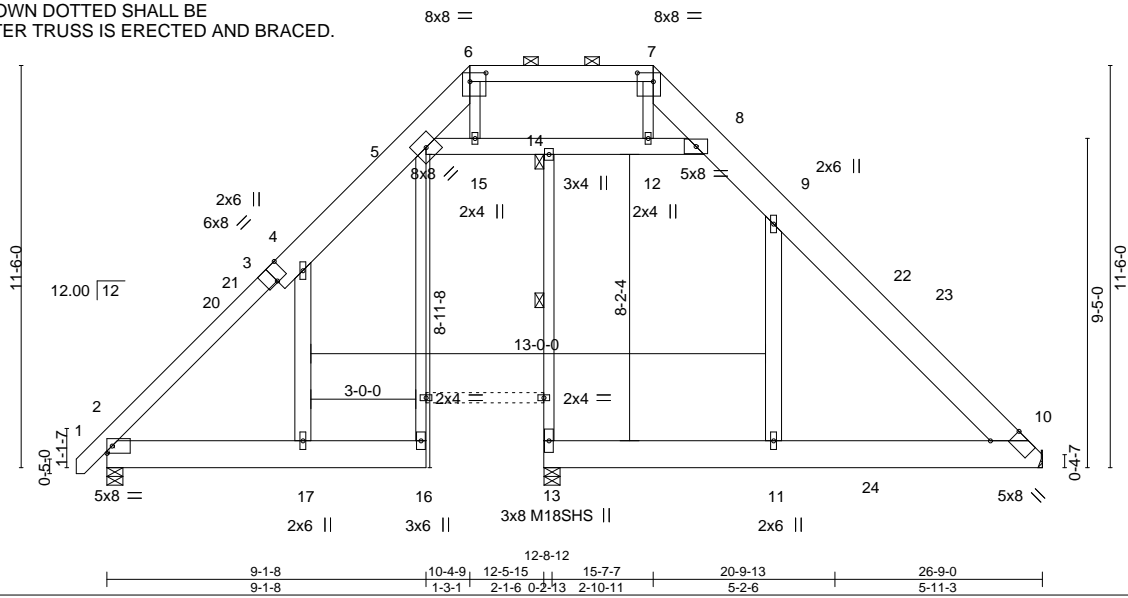


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:0-4-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.15	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.27	11	>615	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.23	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	16-17	>999	240		
							Weight: 295 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
7-10,3-6: 2x10 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
5-16,13-14: 2x4 SP No.1, 5-8: 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
6-15,7-12: 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 4-6-0 oc bracing: 13-14
JOINTS 1 Brace at Jt(s): 14

REACTIONS.

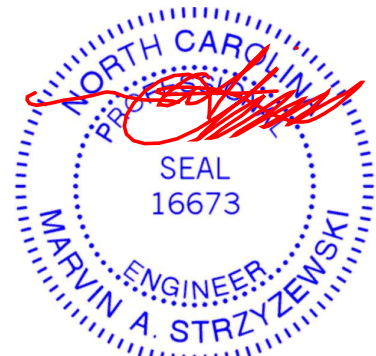
(size) 10=Mechanical, 2=0-5-8, 13=0-5-8
Max Horz 2=263(LC 9)
Max Uplift 10=-125(LC 13), 2=-190(LC 13)
Max Grav 10=650(LC 21), 2=399(LC 21), 13=2281(LC 20)

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

TOP CHORD 2-4=-375/377, 4-5=-237/415, 5-6=-143/1494, 6-7=0/1149, 7-8=0/1580, 8-9=-154/429, 9-10=-288/232
BOT CHORD 5-16=-143/318, 13-14=-1831/26
WEBS 5-15=-1045/406, 14-15=-1100/410, 12-14=-1106/408, 8-12=-1052/414, 6-15=-1192/264, 4-17=-182/297, 9-11=-94/407, 7-12=-1248/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-8-4 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.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 8-9, 5-15, 14-15, 12-14, 8-12; Wall dead load (5.0psf) on member(s).13-14, 9-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 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) except (jt=lb) 10=125, 2=190.
- 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.



April 21, 2021

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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



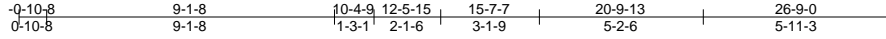
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641137
J0421-2468	C7	PIGGYBACK BASE	1	1		Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:09 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjplzcvn-ZXcDooUzSUbA TBT2?AtBuqHn1qFDobCd?2h3izOX8K



8x16 M18SHS =

Scale = 1:73.0

MEMBERS SHOWN DOTTED SHALL BE REMOVED AFTER TRUSS IS ERECTED AND BRACED.

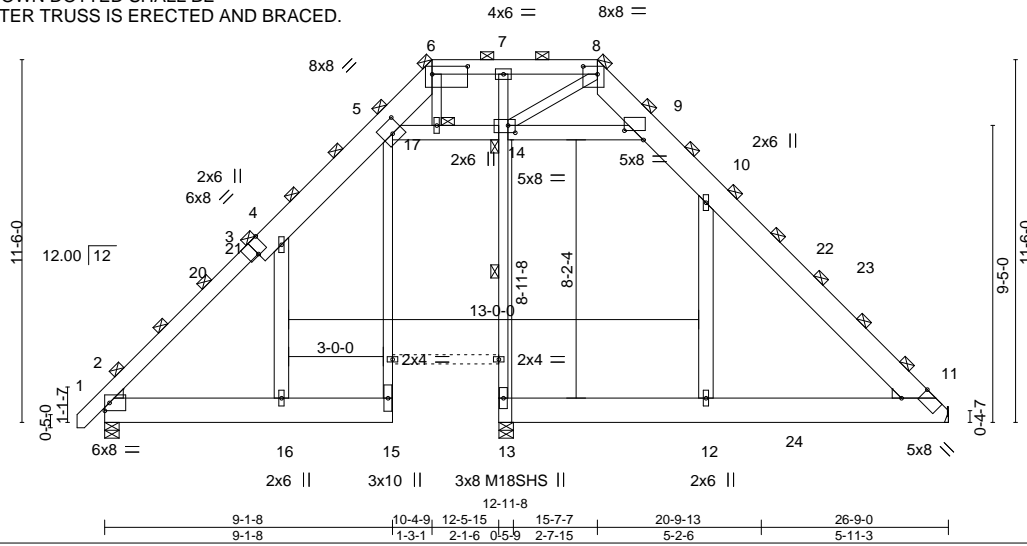


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [5:0-4-0,0-4-12], [6:1-1-8,0-3-0], [8:0-5-8,0-3-0], [9:0-7-3,0-3-9], [11:0-4-10,Edge], [14:0-2-12,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	3-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.18 12 >957 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.25 11-12 >662 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.18 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 15-16 >999 240		
				Weight: 300 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
8-11,3-6: 2x10 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
5-15: 2x4 SP No.1, 9-14: 2x6 SP No.1, 7-13: 2x4 SP 2400F 2.0E
WEBS 2x6 SP No.1 *Except*
6-17,8-14: 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
4-8-0 oc bracing: 13-14
JOINTS 1 Brace at Jt(s): 6, 8, 14, 17

REACTIONS.

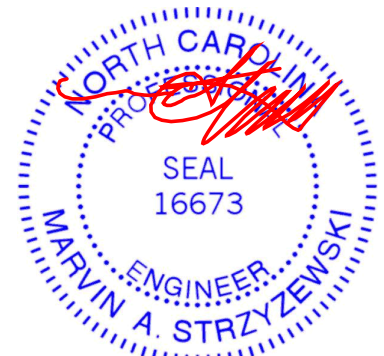
(size) 11=Mechanical, 2=0-5-8, 13=0-5-8
Max Horz 2=394(LC 11)
Max Uplift 11=-258(LC 13), 2=-275(LC 13), 13=-83(LC 9)
Max Grav 11=863(LC 21), 2=580(LC 24), 13=3128(LC 20)

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

TOP CHORD 2-4=-559/560, 4-5=-345/587, 5-6=-234/2395, 6-7=-60/2217, 7-8=-68/2249,
8-9=-47/1536, 9-10=-235/567, 10-11=-436/367
BOT CHORD 5-15=-182/424, 9-14=-1306/779, 13-14=-2737/227, 7-14=-1492/287
WEBS 6-17=-471/192, 4-16=-261/392, 10-12=-24/507, 8-14=-1294/0, 5-17=-1963/711,
14-17=-2039/698

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-8-4 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.
- 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) 13 except (jt=lb) 11=258, 2=275.
- 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.



April 21, 2021

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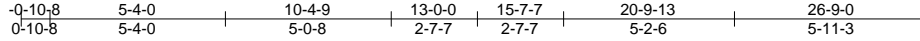
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite115 Greening way	E15641138
J0421-2468	C8	PIGGYBACK BASE	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:11 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjzlcvm-VwkzDUvc5UkJpnLsAQDLGJwIFrYhmsV5JXo8bzOX8l



Scale = 1:70.1

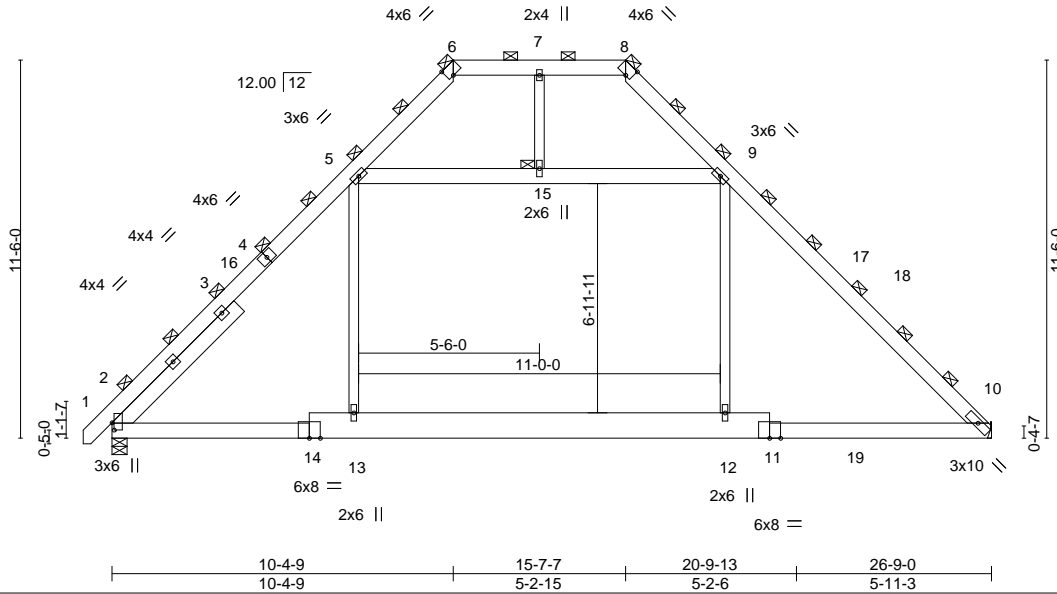


Plate Offsets (X,Y)-- [2:0-2-11,0-0-12], [6:0-2-2,Edge], [8:0-2-2,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.19	10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.24	10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.13	Horz(CT) 0.02	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17	10-12	>999	240		
							Weight: 470 lb	FT = 20%

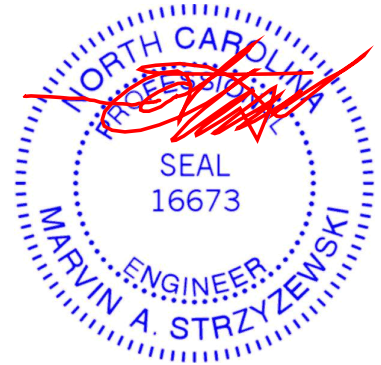
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 11-14: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-9: 2x6 SP No.1
 SLIDER Left 2x6 SP No.1 -x 5-3-0

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
 (Switched from sheeted: Spacing > 2-8-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 6, 8, 15

REACTIONS. (size) 10=Mechanical, 2=0-5-8
 Max Horz 2=402(LC 9)
 Max Uplift 10=-49(LC 13), 2=-57(LC 12)
 Max Grav 10=1979(LC 20), 2=1910(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-2602/513, 5-6=-583/232, 6-7=-299/171, 7-8=-299/171, 8-9=-587/233,
 9-10=-2492/483
 BOT CHORD 2-13=-74/1690, 12-13=-73/1675, 10-12=-74/1712
 WEBS 5-13=-37/1134, 5-15=-1349/563, 9-15=-1349/563, 9-12=-19/1026

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-8-4 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.
 - Refer to girder(s) for truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

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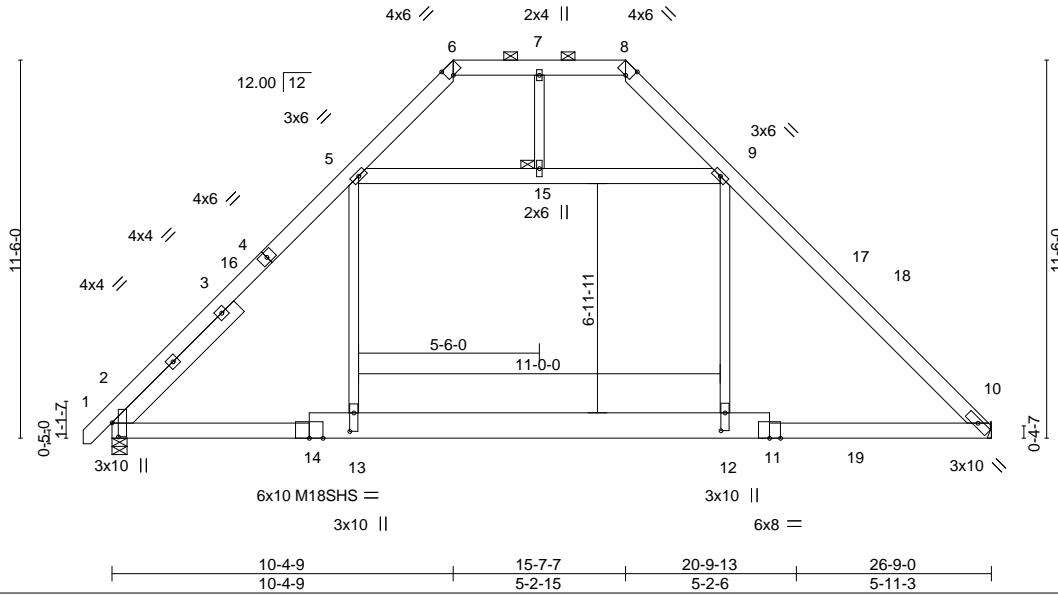
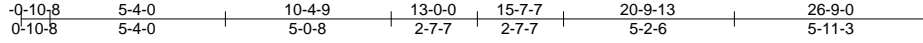
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641139
J0421-2468	C9	PIGGYBACK BASE	5	1	115 Greening way	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:14 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjzpIcvm-vVP6rWxVNP7ugE4RrYm2uxYF42Wnu6RxnGIsIwzOX8F



Scale = 1:70.1

Plate Offsets (X,Y)-- [2:0-5-3,0-2-5], [6:0-2-2,Edge], [8:0-2-2,Edge], [12:0-6-8,0-1-8], [13:0-6-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.82	Vert(LL) -0.30 10-12 >999 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.35 10-12 >902 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.22 10-12 >999 240		
				Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 11-14: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-9: 2x6 SP No.1
 SLIDER Left 2x6 SP No.1 -x 5-3-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 15

REACTIONS.

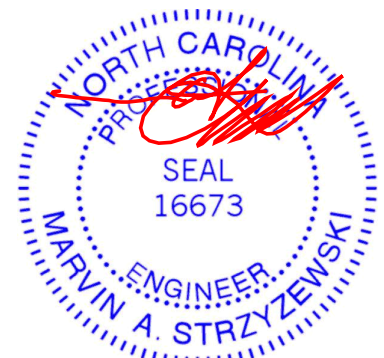
(size) 10=Mechanical, 2=0-5-8
 Max Horz 2=268(LC 9)
 Max Uplift 10=-32(LC 13), 2=-38(LC 12)
 Max Grav 10=1447(LC 20), 2=1374(LC 19)

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

TOP CHORD 2-5=-1906/342, 5-6=-388/154, 8-9=-391/155, 9-10=-1826/322
 BOT CHORD 2-13=-49/1244, 12-13=-49/1232, 10-12=-49/1261
 WEBS 5-13=-25/896, 5-15=-1007/375, 9-15=-1007/375, 9-12=-13/845

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-8-4 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.
- 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 40.0psf 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) 10, 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

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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



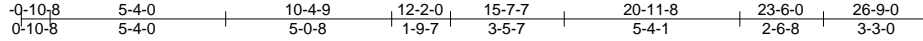
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641140
J0421-2468	C10	Piggyback Base	2	1			

Comtech, Inc. Fayetteville, NC - 28314,

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ID:GdeVuy8L0dFyisWa1fGtjzlcvm-8hPfyepGjzRAOgdtopANG?wOz?hXk8F1tBeMszOX8e



Scale = 1:70.0

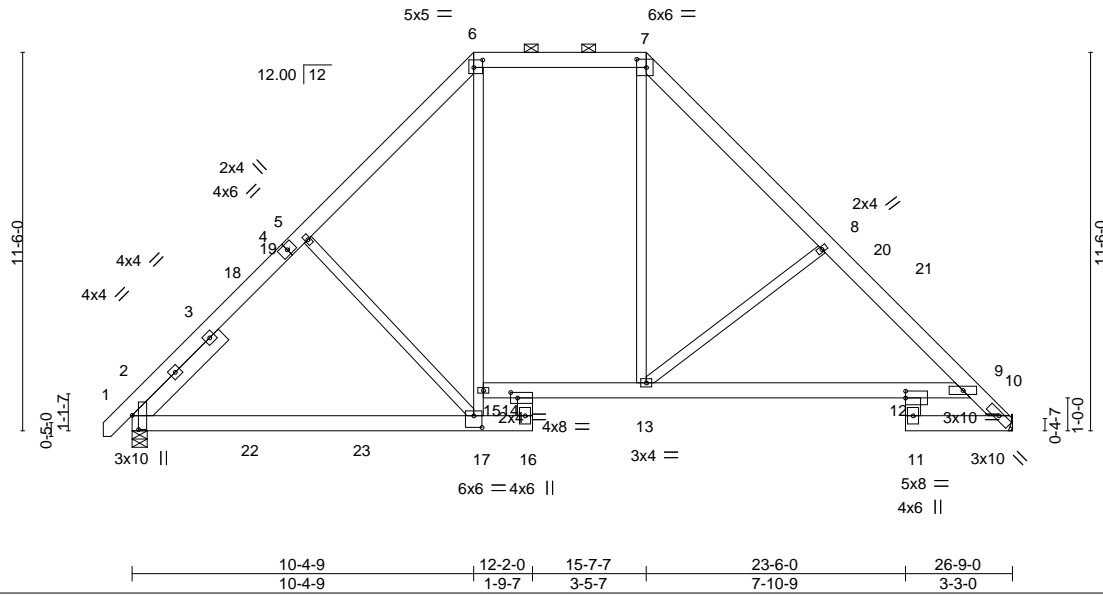


Plate Offsets (X,Y)-- [2:0-5-3,0-2-5], [6:0-3-4,0-2-12], [7:0-3-8,0-3-0], [12:0-0-0,0-2-8], [14:0-2-8,0-2-0], [17:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.23	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.48	12-13	>666	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.20	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15	12-13	>999	240		
							Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 -x 3-8-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 14-16.
 10-0-0 oc bracing: 12-13

REACTIONS.

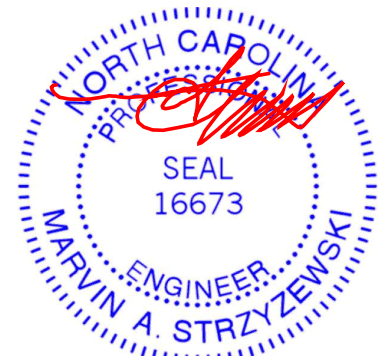
(size) 10=Mechanical, 2=0-5-8
 Max Horz 2=267(LC 9)
 Max Uplift 10=-33(LC 13), 2=-38(LC 12)
 Max Grav 10=1103(LC 20), 2=1248(LC 19)

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

TOP CHORD 2-5=-1382/352, 5-6=-1197/406, 6-7=-807/365, 7-8=-1279/407, 8-9=-1477/390,
 9-10=-1193/353
 BOT CHORD 2-17=-138/1021, 16-17=-57/802, 14-16=-300/52, 13-14=-18/871, 12-13=-154/1095,
 9-12=0/500, 10-11=-202/599
 WEBS 5-17=-326/285, 15-17=-88/660, 6-15=-115/481, 7-13=-116/677, 8-13=-551/309

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-8-4 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.
- 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) 10, 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

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



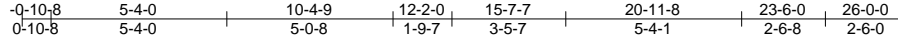
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641141
J0421-2468	C11	Piggyback Base	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GdeVuy8L0dFyisWa1fGtjplcvm-54WP0eg3oKD8Qip0?DseS55KinlO?fhYUBgkRlzOX8c



Scale = 1:69.9

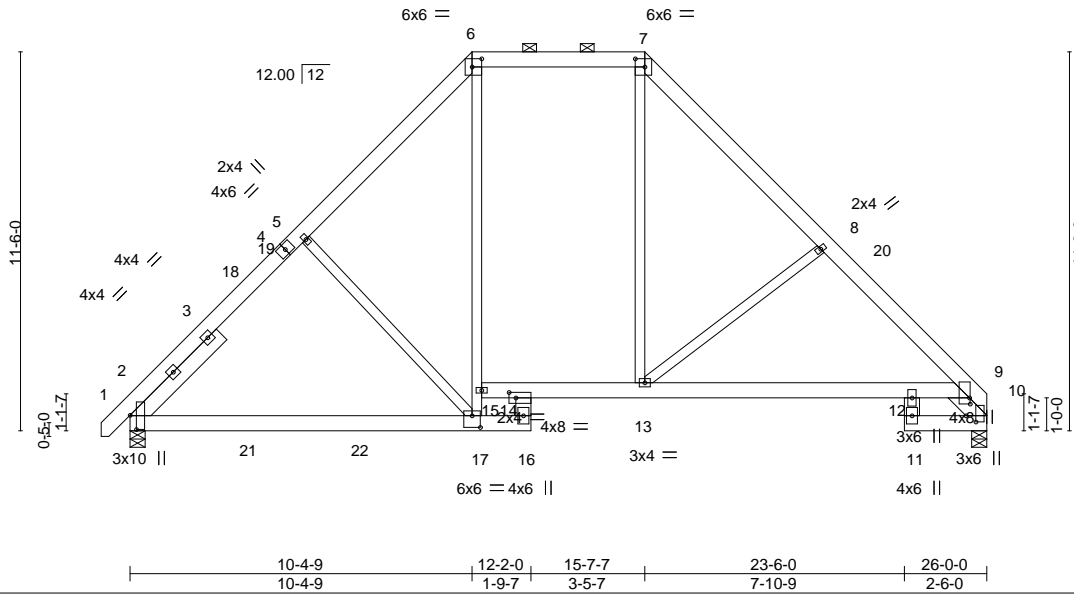


Plate Offsets (X,Y)-- [2:0-5-3,0-2-5], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [9:0-2-4,0-0-4], [10:0-2-4,0-3-10], [14:0-2-8,0-2-0], [17:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.15	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.30	12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.14	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	12-13	>999	240		
							Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 -x 3-8-8, Right 2x6 SP No.1 -x 1-2-9

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-7, 9-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-16. 10-0-0 oc bracing: 12-13

REACTIONS.

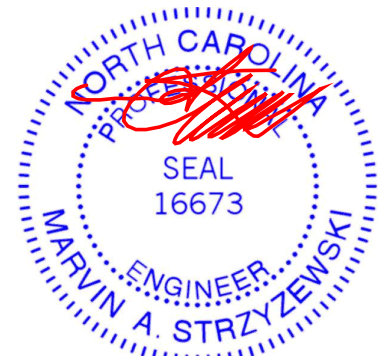
(size) 10=0-5-8, 2=0-5-8
 Max Horz 2=267(LC 11)
 Max Uplift 10=-28(LC 13), 2=-38(LC 12)
 Max Grav 10=1079(LC 2), 2=1220(LC 19)

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

TOP CHORD 2-5=-1336/343, 5-6=-1152/397, 6-7=-767/357, 7-8=-1203/392, 8-9=-1390/373, 9-10=-1053/322
 BOT CHORD 2-17=-141/995, 16-17=-59/784, 14-16=-254/56, 13-14=-23/831, 12-13=-131/985, 9-12=-42/781
 WEBS 5-17=-342/289, 15-17=-80/618, 6-15=-115/480, 7-13=-97/588, 8-13=-473/290

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

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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



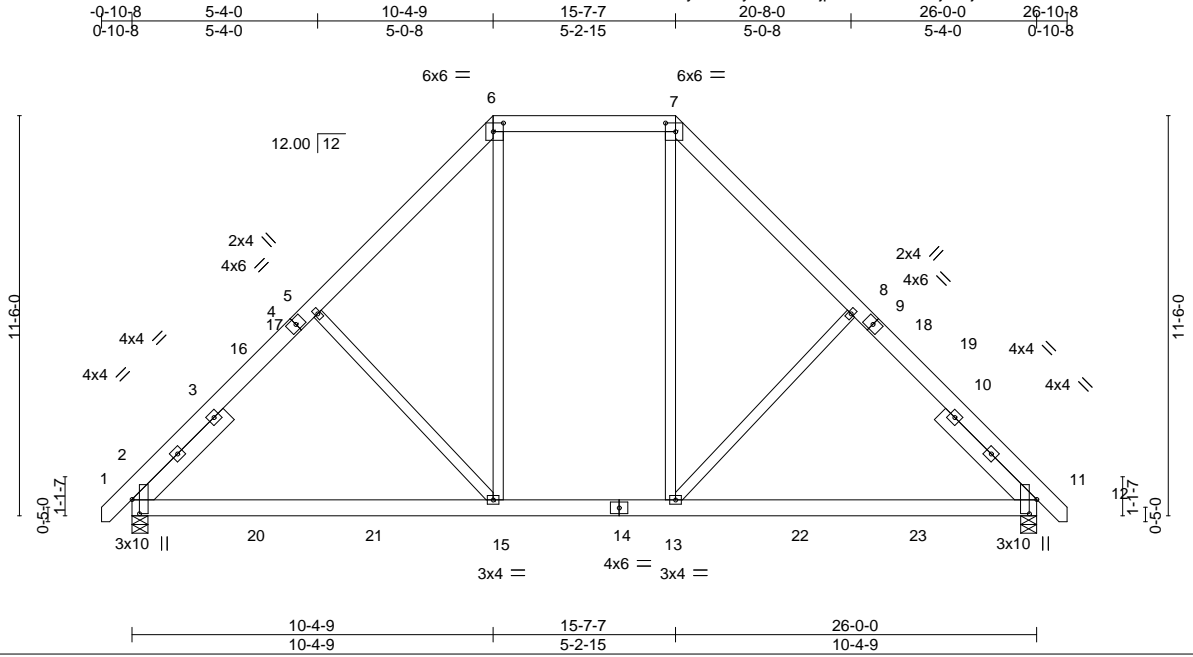
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641143
J0421-2468	C13	PIGGYBACK BASE	1	1			

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GdeVuy8L0dFyisWa1fGtjplcvcm-zrmws0jasZjavJ7nE3wacx4UO77xUA8PpeyaWzOX8Y



Scale = 1:66.2

Plate Offsets (X,Y)-- [2:0-4-15,0-2-9], [6:0-3-8,0-3-0], [7:0-3-8,0-3-0], [11:0-4-15,0-2-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.14	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.22	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	2-15	>999	240		
							Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 -x 3-8-8, Right 2x6 SP No.1 -x 3-8-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

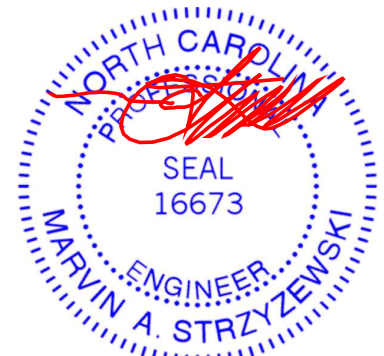
(size) 2=0-5-8, 11=0-5-8
 Max Horz 2=-268(LC 10)
 Max Uplift 2=-38(LC 12), 11=-38(LC 13)
 Max Grav 2=1214(LC 19), 11=1214(LC 20)

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

TOP CHORD 2-5=-1302/347, 5-6=-1120/401, 6-7=-733/358, 7-8=-1120/401, 8-11=-1302/347
 BOT CHORD 2-15=-138/982, 13-15=-20/793, 11-13=-97/842
 WEBS 5-15=-363/288, 6-15=-110/491, 7-13=-110/492, 8-13=-363/288

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-4-9, Exterior(2) 10-4-9 to 21-10-2, Interior(1) 21-10-2 to 26-9-2 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

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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



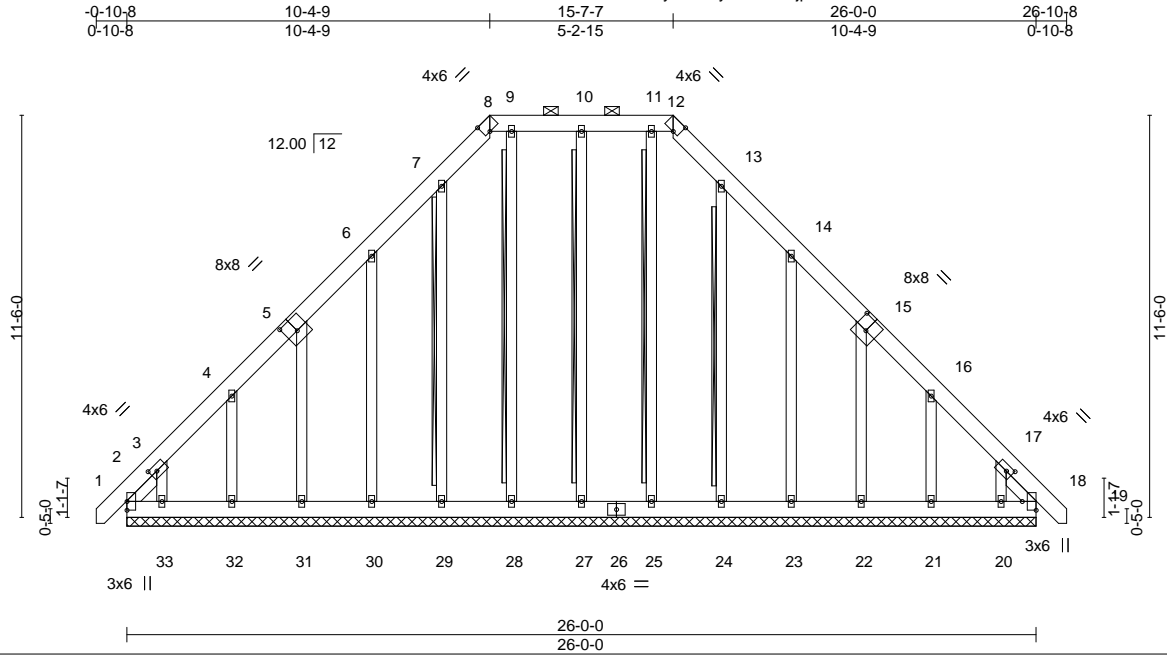
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641144
J0421-2468	C14	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:GdeVuy8L0dFyisWa1fGtjplcvnm-NQR3U1IS9U69mnsMvBUHEZtcmBFF8tWa5ntcArzOX8V



Scale = 1:65.9

Plate Offsets (X,Y)-- [3:0-2-4,0-2-0], [5:0-4-0,0-4-8], [8:0-2-2,Edge], [12:0-2-2,Edge], [15:0-4-0,0-4-8], [17:0-2-4,0-2-0], [18:Edge,0-4-12]

LOADING (psf)	SPACING-	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	18	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00	18	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01	18	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 276 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except 2'-0-0 oc purlins (6'-0-0 max.): 8-12.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 10-27, 9-28, 7-29, 11-25, 13-24
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

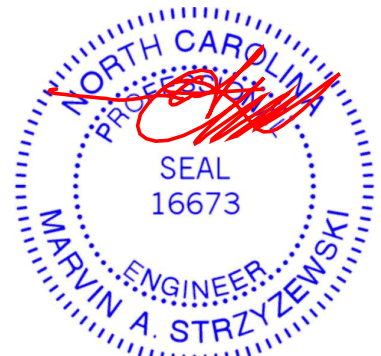
All bearings 26-0-0.
 (lb) - Max Horz 2=337(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 29, 24 except 2=-246(LC 10), 30=-166(LC 12), 31=-137(LC 12), 32=-125(LC 12), 33=-285(LC 12), 23=-169(LC 13), 22=-138(LC 13), 18=-150(LC 11), 21=-124(LC 13), 20=-263(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except 2=438(LC 12), 18=373(LC 13)

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

TOP CHORD 2-3=-535/337, 3-4=-319/238, 7-8=-237/262, 12-13=-237/262, 16-17=-259/150, 17-18=-461/300
 BOT CHORD 2-33=-189/305, 32-33=-191/306, 31-32=-192/307, 30-31=-202/311, 29-30=-203/311, 28-29=-203/311, 27-28=-203/311, 25-27=-203/311, 24-25=-203/311, 23-24=-203/311, 22-23=-202/311, 21-22=-192/302, 20-21=-191/301, 18-20=-189/299
 WEBS 3-33=-232/268

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 10-4-9, Corner(3) 10-4-9 to 15-0-0, Exterior(2) 15-0-0 to 15-7-7, Corner(3) 15-7-7 to 20-0-4, Exterior(2) 20-0-4 to 26-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2'-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 24



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Continued on page 2-246, 30=166, 31=137, 32=125, 33=285, 23=169, 22=138, 18=150, 21=124, 20=263.

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	Onsite\115 Greening way	E15641144
J0421-2468	C14	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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 ID:GdeVuy8L0dFyisWa1fGtjplcvn-NQR3U1IS9U69mnsMvBUHEZtcmfFF8tWa5ntcArzOX8V

NOTES-

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

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	Onsite	E15641145
J0421-2468	D1	GABLE	1	1	115 Greening way	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:17 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjzlcvm-K45ETX_NgkVsxip0WgJlWaAr5Gks5UZnTE_6LEzOX8C

-0-10-8 16-0-0 32-0-0 32-10-8
0-10-8 16-0-0 16-0-0 0-10-8

Scale = 1:70.8

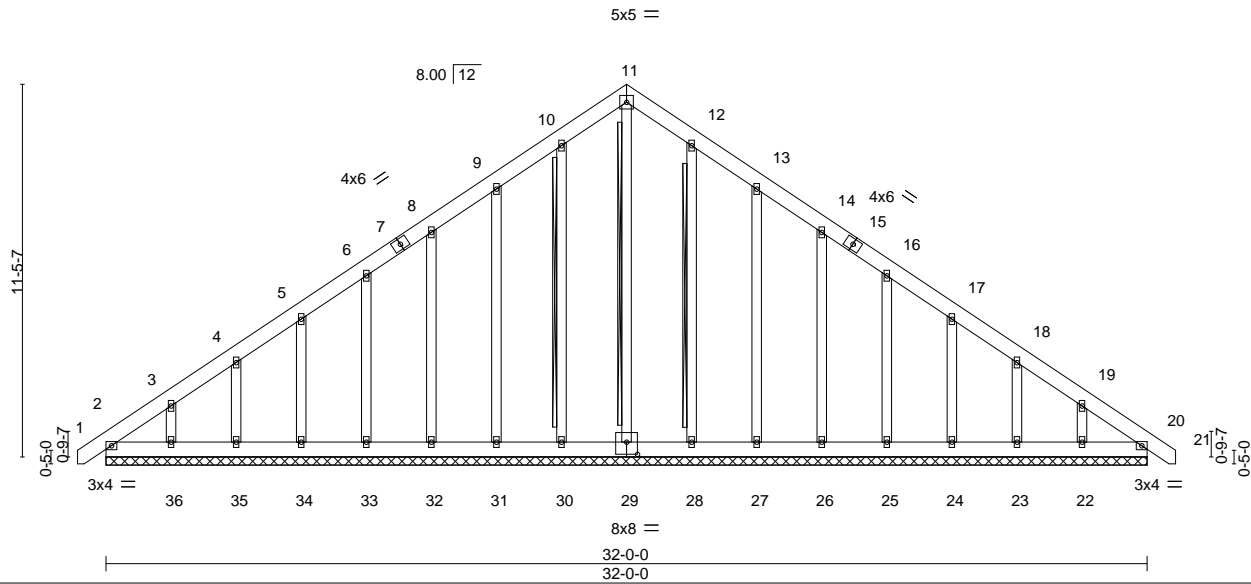


Plate Offsets (X,Y)-- [29:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) 0.00	20	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00	20	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01	20	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 295 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.
WEBS T-Brace: 2x4 SPF No.2 - 11-29, 10-30, 12-28
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

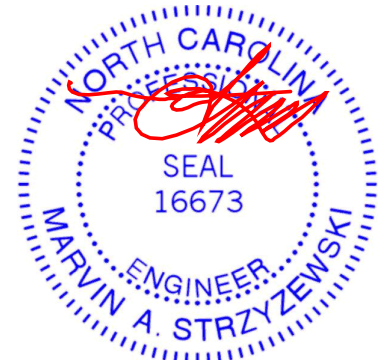
All bearings 32-0-0.
(lb) - Max Horz 2=335(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 30, 31, 32, 33, 34, 35, 28, 26, 25, 24, 23 except
36=135(LC 12), 27=103(LC 13), 22=126(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 29, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22

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

TOP CHORD 2-3=-364/265, 3-4=-258/218, 9-10=-221/260, 10-11=-255/286, 11-12=-255/286,
19-20=-284/190
BOT CHORD 2-36=-167/263, 35-36=-167/263, 34-35=-167/263, 33-34=-167/263, 32-33=-167/263,
31-32=-167/263, 30-31=-167/263, 29-30=-167/263, 28-29=-167/263, 27-28=-167/263,
26-27=-167/263, 25-26=-167/263, 24-25=-167/263, 23-24=-167/263, 22-23=-167/263,
20-22=-167/263

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-9-5 to 3-7-8, Exterior(2) 3-7-8 to 16-0-0, Corner(3) 16-0-0 to 20-4-13, Exterior(2) 20-4-13 to 32-9-5 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, 20, 30, 31, 32, 33, 34, 35, 28, 26, 25, 24, 23 except (it=lb) 36=135, 27=103, 22=126.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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

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



818 Soundside Road
Edenton, NC 27932

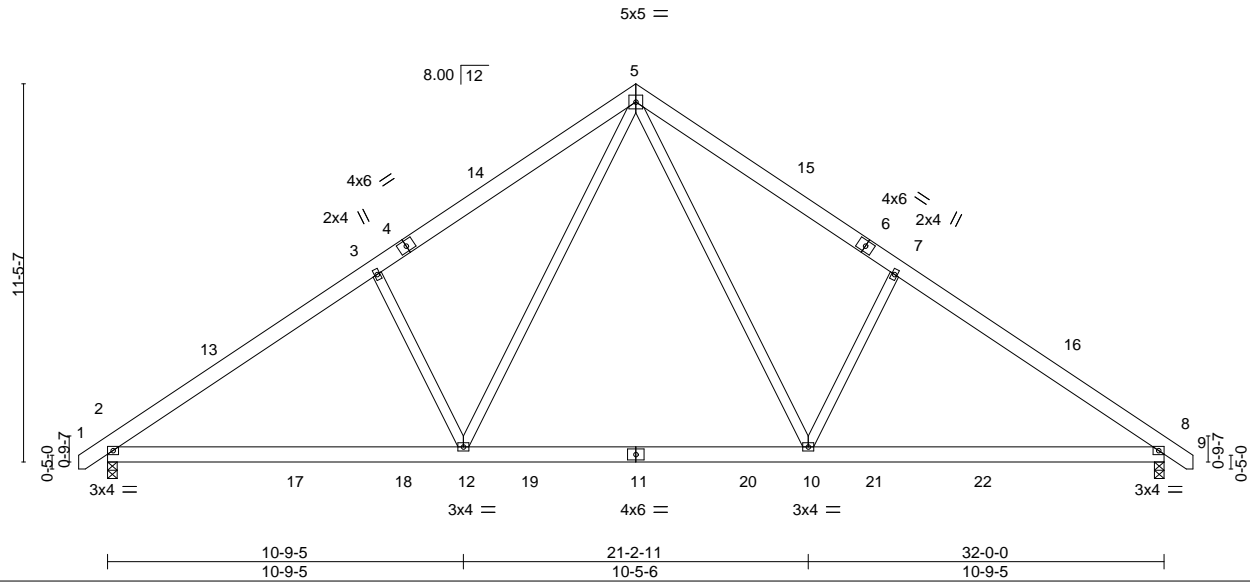
Job	Truss	Truss Type	Qty	Ply	Onsite	E15641146
J0421-2468	D2	Common	3	1	115 Greening way	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:18 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjzlcvm-oGfcht??RddJ9rNC4Or_2niy9fy4qtsXiujuhzOX8B



Scale = 1:69.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.16 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.22 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 2-12 >999 240	Weight: 223 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 5-2-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

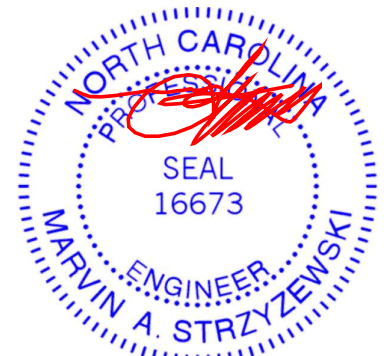
(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-268(LC 10)
 Max Uplift 2=-79(LC 12), 8=-79(LC 13)
 Max Grav 2=1527(LC 19), 8=1527(LC 20)

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

TOP CHORD 2-3=-2089/378, 3-5=-1952/478, 5-7=-1952/478, 7-8=-2089/378
 BOT CHORD 2-12=-166/1818, 10-12=0/1190, 8-10=-172/1635
 WEBS 5-10=-170/1009, 7-10=-513/312, 5-12=-170/1009, 3-12=-513/312

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-9-5 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.



April 21, 2021

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

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

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite/115 Greening way	E15641147
J0421-2468	H01	Flat Girder	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:20 2021 Page 1
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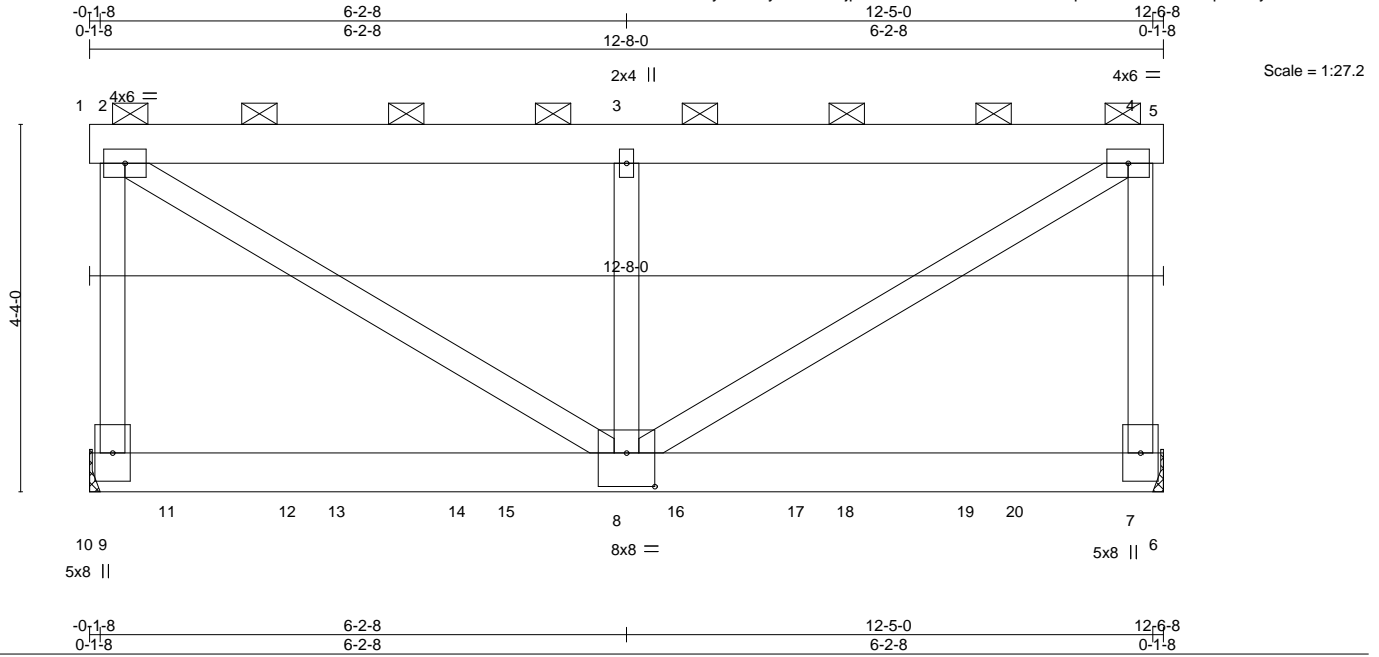


Plate Offsets (X,Y)--	[8:0-4-0-0-4-12]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.07	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.13	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.46	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	8-9	>999	240		
							Weight: 189 lb	FT = 20%

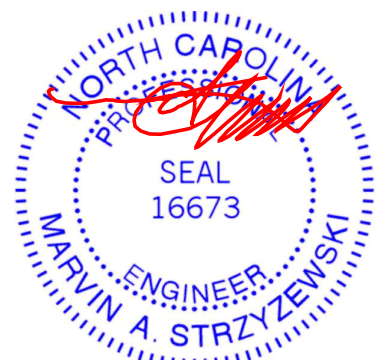
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 9=Mechanical, 7=Mechanical
 Max Uplift 9=-1444(LC 4), 7=-1339(LC 5)
 Max Grav 9=3842(LC 1), 7=3686(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-2238/800, 2-3=-3288/1177, 3-4=-3288/1177, 4-7=-2239/801
 WEBS 2-8=-1351/3777, 3-8=-331/215, 4-8=-1351/3778

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
 - 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) except (jt=lb) 9=1444, 7=1339.
 - 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) 488 lb down and 197 lb up at 0-4-11, 541 lb down and 313 lb up at 0-10-4, 502 lb down and 102 lb up at 2-3-4, 541 lb down and 313 lb up at 2-10-4, 502 lb down and 102 lb up at 4-3-4, 541 lb down and 313 lb up at 4-10-4, 502 lb down and 102 lb up at 6-3-4, 541 lb down and 313 lb up at 6-10-4, 502 lb down and 102 lb up at 8-3-4, 541 lb down and 313 lb up at 8-10-4, 502 lb down and 102 lb up at 10-3-4, and 541 lb down and 313 lb up at 10-10-4, and 490 lb down and 194 lb up at 12-6-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641147
J0421-2468	H01	Flat Girder	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:20 2021 Page 2
 ID:GdeVuy8L0dFyisWa1fGtjzlcvm-kfmN6Z0GzFt1P9XbCptS7CnGbTZilmwq9CCnyZzOX89

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-60, 4-5=-20, 6-10=-20

Concentrated Loads (lb)

Vert: 9=-488(B) 7=-490(B) 8=-502(B) 11=-508(F) 12=-502(B) 13=-508(F) 14=-502(B) 15=-508(F) 16=-508(F) 17=-502(B) 18=-508(F) 19=-502(B) 20=-508(F)

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



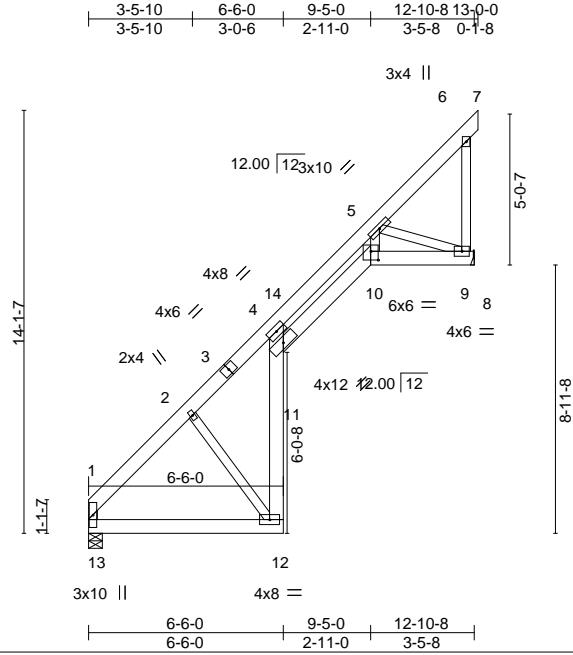
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641148
J0421-2468	J1	JACK-CLOSED	6	1			

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:22 2021 Page 1

ID:GdeVuy8L0dFyisWa1fGtjplzcv-m-g1u7WF2WVs7leThzJEvvCdtZXHLxmiC6dWht1SzOX87



Scale = 1:76.9

Plate Offsets (X,Y)-- [10:0-3-0,0-3-8]

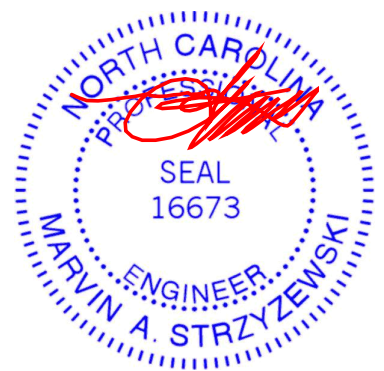
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.13	12	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.26	12	>580	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.24	9	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.22	12	>679	240			
								Weight: 111 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-3 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-3-6 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 13=0-5-8, 9=Mechanical
 Max Horz 13=417(LC 12)
 Max Uplift 9=293(LC 12)
 Max Grav 13=499(LC 1), 9=611(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=430/0, 1-2=555/0, 2-4=465/0, 4-5=2310/1129
 BOT CHORD 12-13=380/590, 11-12=334/567, 4-11=1302/787, 10-11=1534/2679, 9-10=947/1638
 WEBS 5-10=1050/1980, 5-9=1744/1009, 2-12=600/430

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-9 to 4-6-6, Interior(1) 4-6-6 to 13-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=293.



April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641149
J0421-2468	M1	GABLE	2	1	115 Greening way	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:24 2021 Page 1
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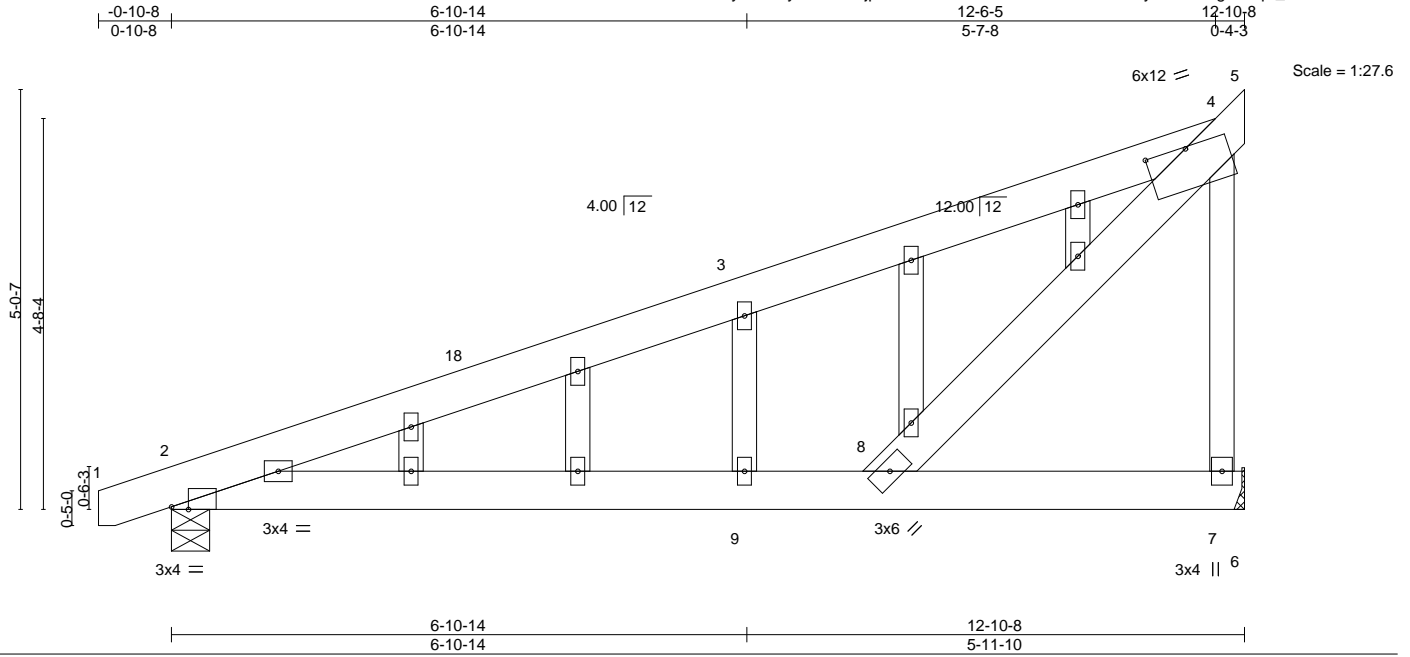


Plate Offsets (X,Y)-- [2:0-2-7,Edge], [4:0-6-0,0-0-4]

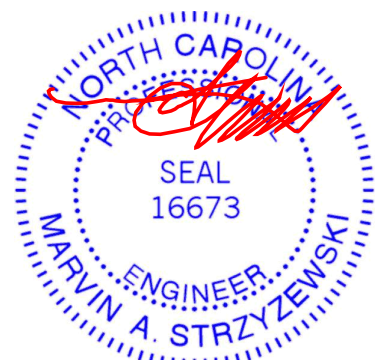
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.05	2-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.10	2-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	2-9	>999	240	Weight: 94 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.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 7=Mechanical, 2=0-5-8
 Max Horz 2=217(LC 12)
 Max Uplift 7=-182(LC 12), 2=-162(LC 8)
 Max Grav 7=503(LC 1), 2=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-701/93, 3-4=-705/200, 4-8=-290/828, 4-7=-524/233
 BOT CHORD 2-9=-219/617, 8-9=-219/617
 WEBS 3-9=-383/267

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 12-7-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable studs spaced at 2'-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=182, 2=162.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641150
J0421-2468	M2	JACK-CLOSED	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:26 2021 Page 1
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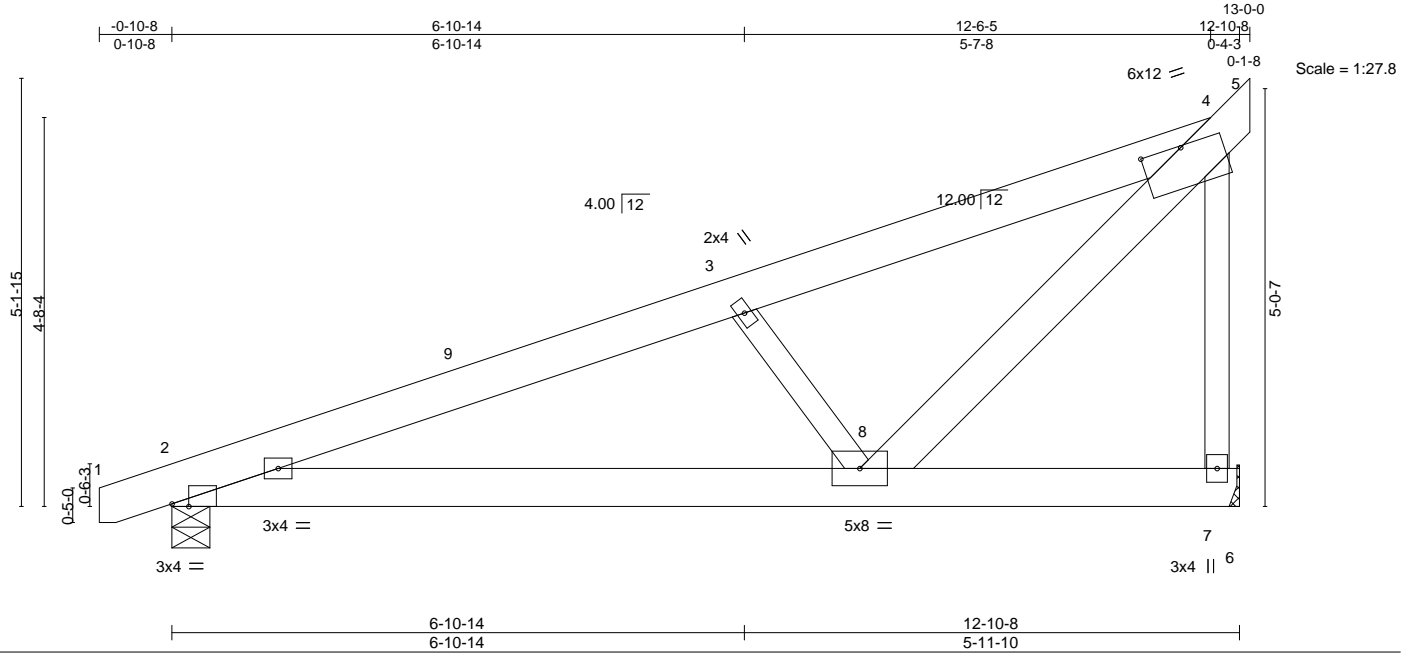


Plate Offsets (X,Y)-- [2:0-2-7,Edge], [4:0-6-0,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.03	2-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.07	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	2-8	>999	240	Weight: 88 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 end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

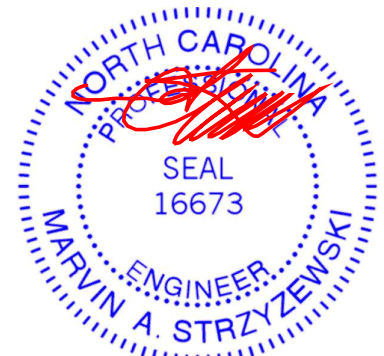
(size) 7=Mechanical, 2=0-5-8
Max Horz 2=153(LC 12)
Max Uplift 7=-82(LC 12), 2=-69(LC 8)
Max Grav 7=522(LC 1), 2=557(LC 1)

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

TOP CHORD 2-3=-834/93, 3-4=-600/51, 4-8=-134/701, 4-7=-490/164
BOT CHORD 2-8=-226/746
WEBS 3-8=-407/222

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 13-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) 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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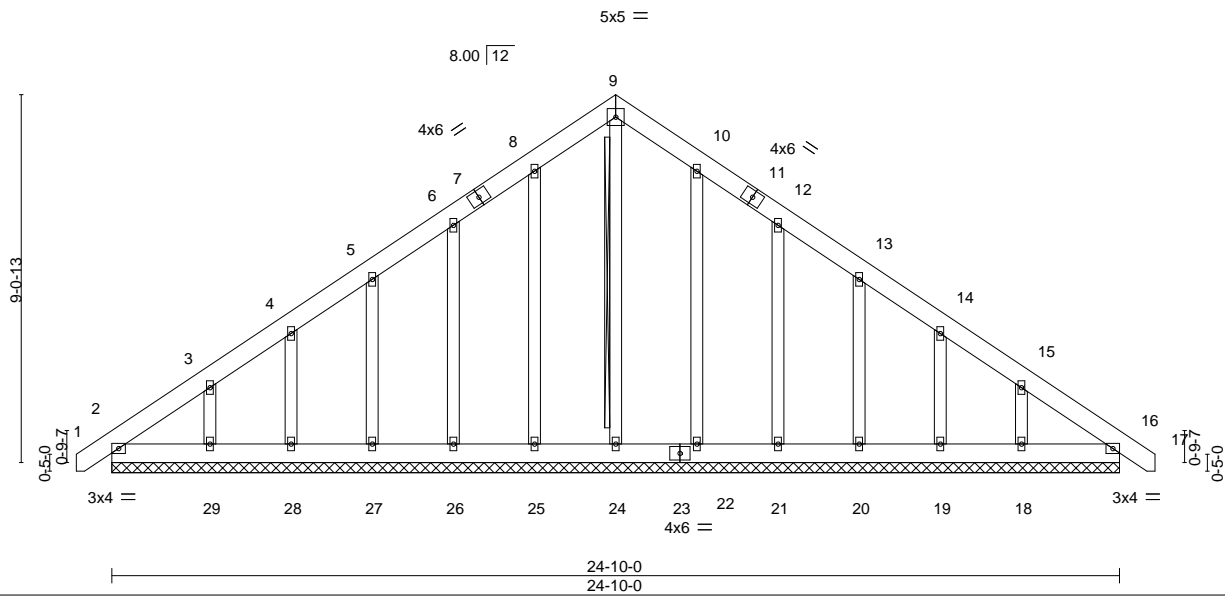
Job	Truss	Truss Type	Qty	Ply	Onsite	E15641151
J0421-2468	P1	GABLE	1	1	115 Greening way	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:29 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjplcvm-zNpn_e7vr??l_YjJDCXZ?5fvE5qhuwV8E6ulnYzOX80

-0-10-8 12-5-0 24-10-0 25-8-8
 0-10-8 12-5-0 24-10-0 0-10-8

Scale = 1:56.8



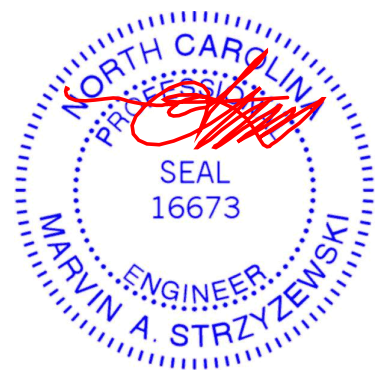
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 16 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) 0.00 16 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 16 n/a n/a		
	Code IRC2015/TPI2014			Weight: 207 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.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 9-24
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 24-10-0.
 (lb) - Max Horz 2=264(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 25, 26, 27, 28, 22, 21, 20, 19 except 29=134(LC 12), 18=129(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=263/202

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-5 to 3-7-8, Exterior(2) 3-7-8 to 12-5-0, Corner(3) 12-5-0 to 16-9-13, Exterior(2) 16-9-13 to 25-7-5 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, 16, 25, 26, 27, 28, 22, 21, 20, 19 except (jt=lb) 29=134, 18=129.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

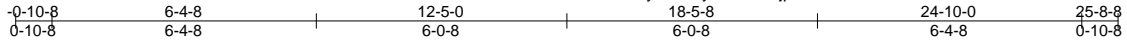


April 21, 2021

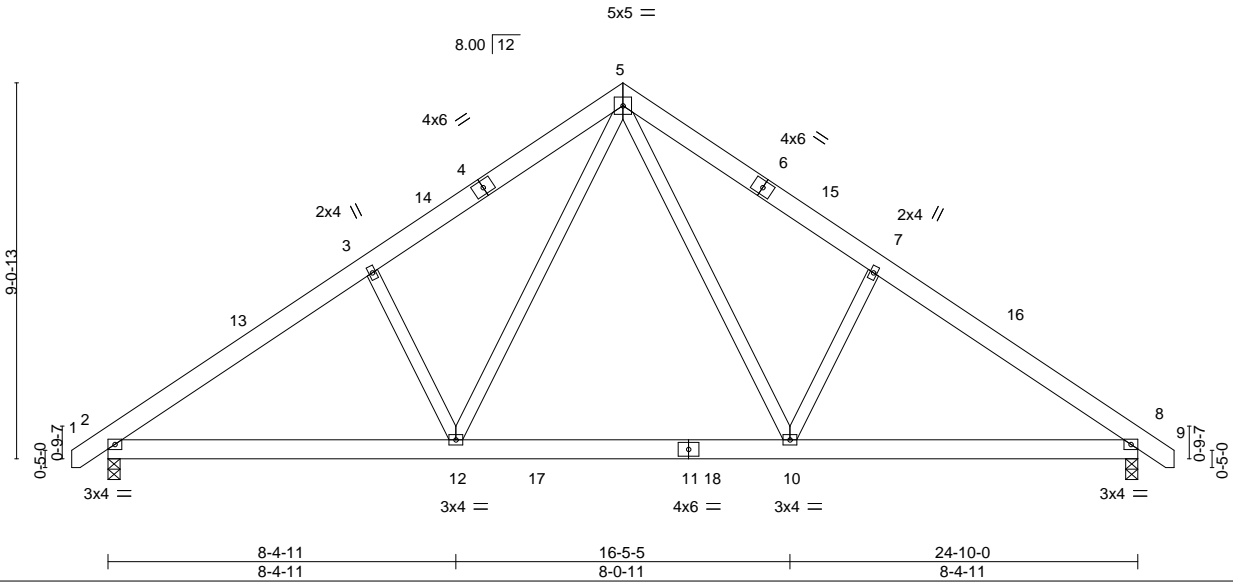
Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641152
J0421-2468	P2	Common	2	1			

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:31 2021 Page 1
 ID:GdeVuy8L0dFyisWa1Gtjzlcvm-wmxXPK99NdGTDrtiLdZ14WICovSAMoeRhQNsRzQzOX8_



Scale = 1:55.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.08 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.11 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 2-12 >999 240	Weight: 174 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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

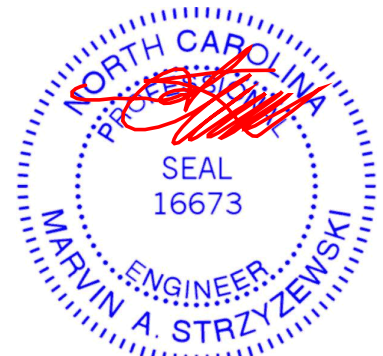
(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-211(LC 10)
 Max Uplift 2=-64(LC 12), 8=-64(LC 13)
 Max Grav 2=1058(LC 19), 8=1058(LC 20)

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

TOP CHORD 2-3=-1429/297, 3-5=-1303/377, 5-7=-1303/377, 7-8=-1429/297
 BOT CHORD 2-12=-126/1228, 10-12=0/812, 8-10=-132/1089
 WEBS 5-10=-136/648, 7-10=-383/246, 5-12=-136/647, 3-12=-383/246

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 12-5-0, Exterior(2) 12-5-0 to 16-9-13, Interior(1) 16-9-13 to 25-7-5 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.



April 21, 2021

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

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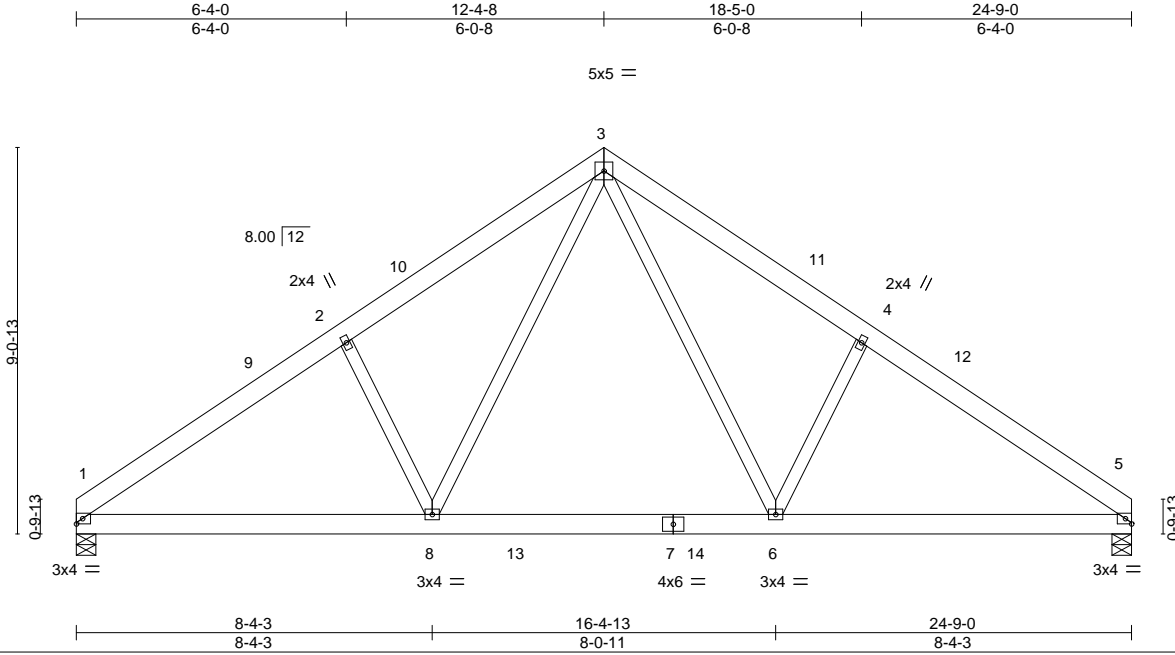


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Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641153
J0421-2468	P3	Common	4	1			

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8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:32 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjplcvm-OyVvdf9n8wOKr?SuvK5GckHNXJoP5Fubw46PmtzOX7z



Scale = 1:54.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.08	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.11	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	8	>999	240		
									Weight: 169 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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

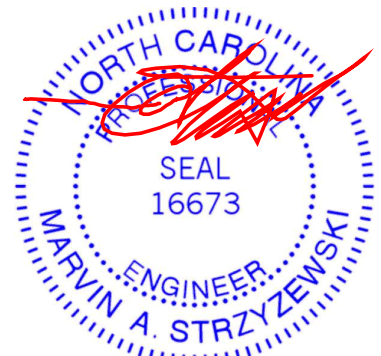
(size) 1=0-5-8, 5=0-5-8
 Max Horz 1=205(LC 11)
 Max Uplift 1=-50(LC 12), 5=-50(LC 13)
 Max Grav 1=997(LC 19), 5=997(LC 20)

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

TOP CHORD 1-2=-1389/302, 2-3=-1282/385, 3-4=-1282/385, 4-5=-1389/302
 BOT CHORD 1-8=-139/1203, 6-8=0/797, 5-6=-140/1063
 WEBS 3-6=-136/635, 4-6=-369/246, 3-8=-136/635, 2-8=-369/246

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 12-4-8, Exterior(2) 12-4-8 to 16-9-5, Interior(1) 16-9-5 to 24-6-4 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) 1, 5.



April 21, 2021

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

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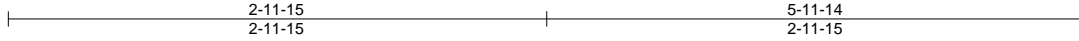


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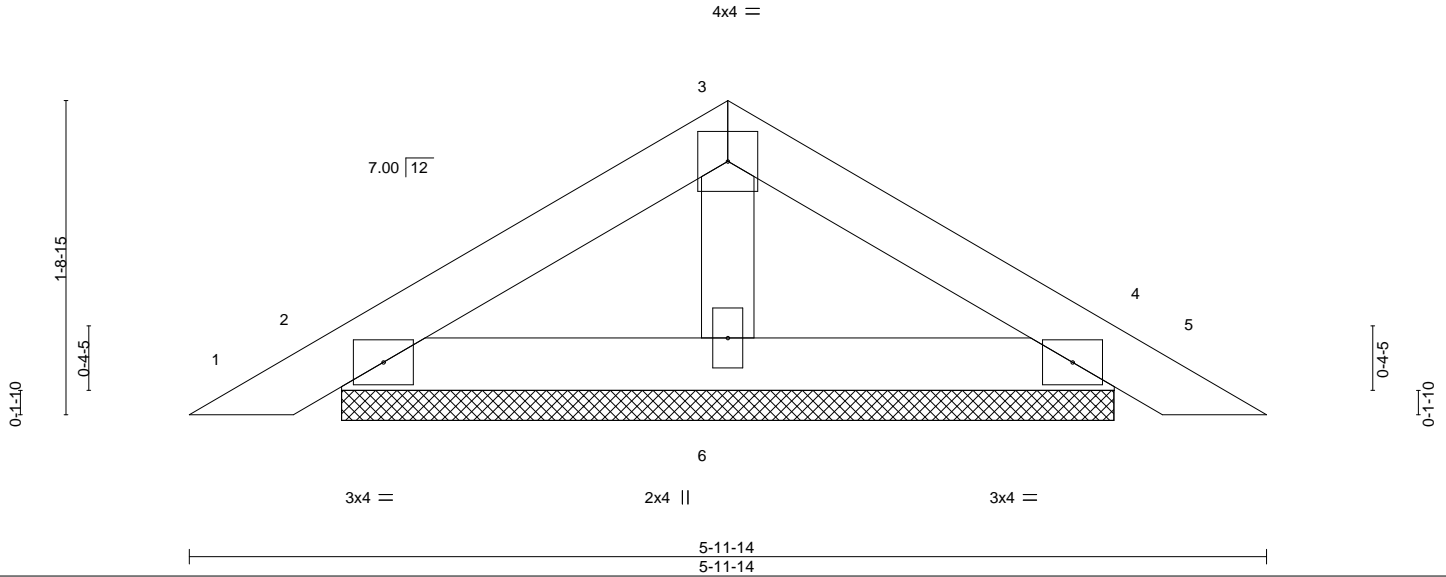
Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641154
J0421-2468	PBA1	PIGGYBACK	2	1	Job Reference (optional)	

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8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:35 2021 Page 1
ID:GdeVuy8L0dFyisWa1Gtjzlcvm-oXA2FhCgRrmviTBTaSezEMvswWtxlfh1c1L3zCzOX7w



Scale = 1:12.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) 0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) 0.00 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014				

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 5-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

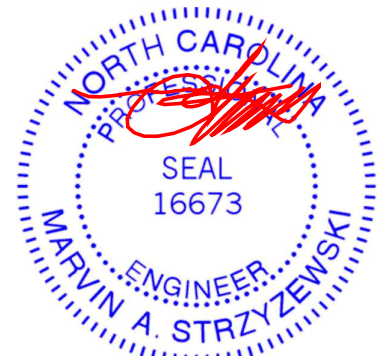
REACTIONS.

(size) 2=4-3-8, 4=4-3-8, 6=4-3-8
Max Horz 2=47(LC 11)
Max Uplift 2=49(LC 12), 4=55(LC 13), 6=3(LC 12)
Max Grav 2=127(LC 1), 4=128(LC 1), 6=156(LC 1)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 6.
- Non Standard bearing condition. Review required.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 21, 2021

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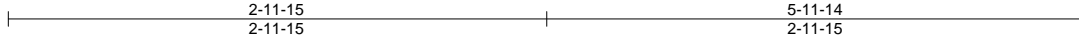


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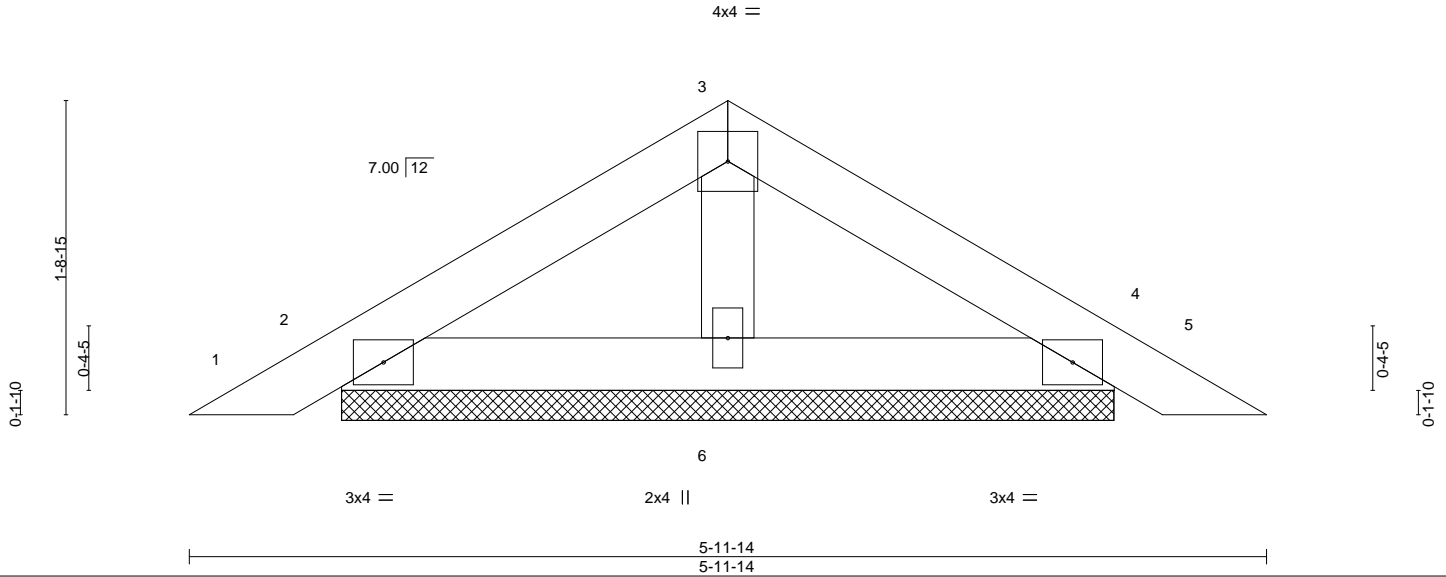
Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641155
J0421-2468	PBA2	PIGGYBACK	15	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:37 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjzlcvm-kwlogNDwzT0dxmKshtgRjn?GxKZPmZAK3LqA24zOX7u



Scale = 1:12.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014							

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 5-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

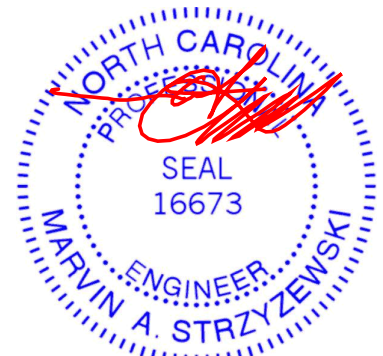
REACTIONS.

(size) 2=4-3-8, 4=4-3-8, 6=4-3-8
Max Horz 2=38(LC 11)
Max Uplift 2=-24(LC 12), 4=-28(LC 13)
Max Grav 2=127(LC 1), 4=128(LC 1), 6=156(LC 1)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Non Standard bearing condition. Review required.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 21, 2021

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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

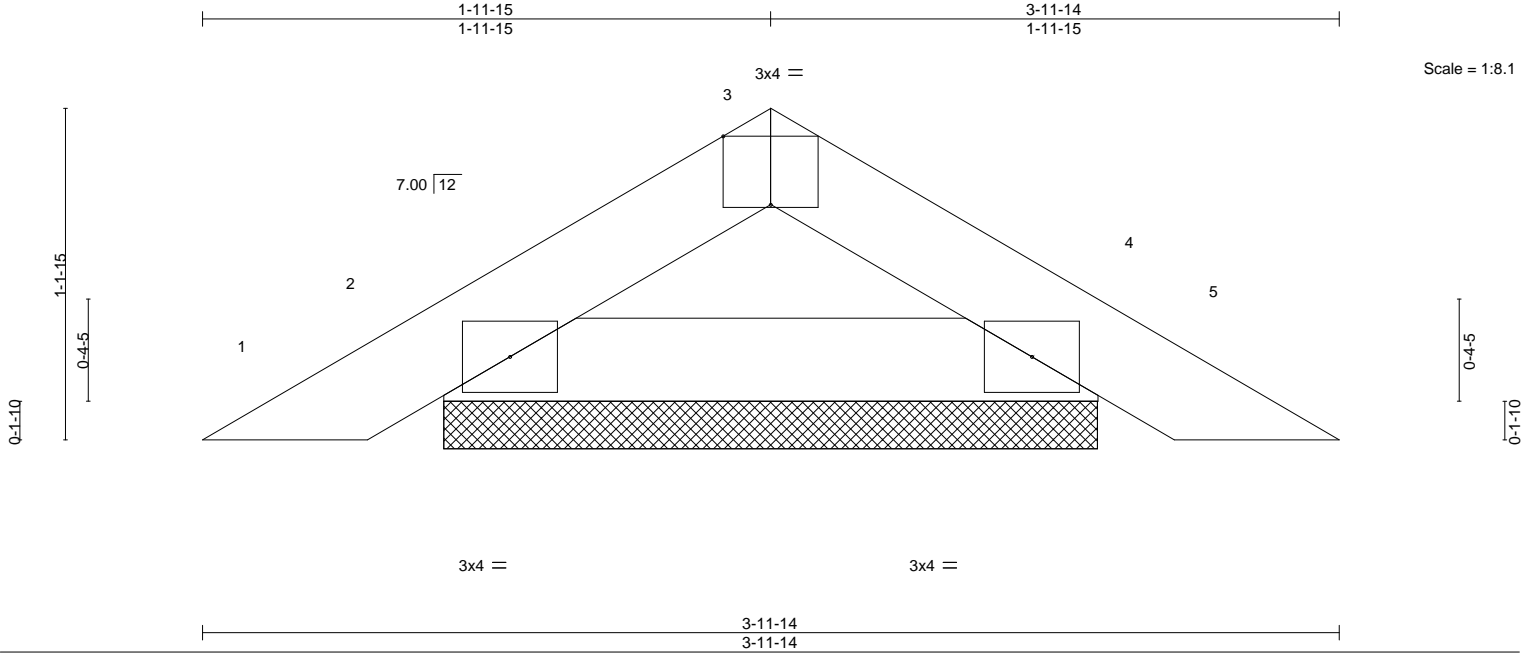


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Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641156
J0421-2468	PBB1	PIGGYBACK	1	1	Job Reference (optional)	

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8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:39 2021 Page 1
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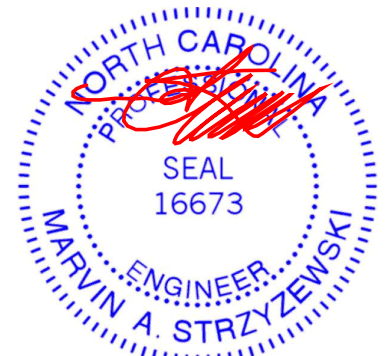
LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 4 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) 0.00 4 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 10 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-3-8, 4=2-3-8
 Max Horz 2=30(LC 11)
 Max Uplift 2=-36(LC 12), 4=-36(LC 13)
 Max Grav 2=125(LC 1), 4=125(LC 1)

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 (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Non Standard bearing condition. Review required.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 21, 2021

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



Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641157
J0421-2468	PBB2	PIGGYBACK	10	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:40 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjzlcvm-9V_xIOGpGOOCoeE3RN0E8xQcnmXayzw6mmJ2qePzOX7r

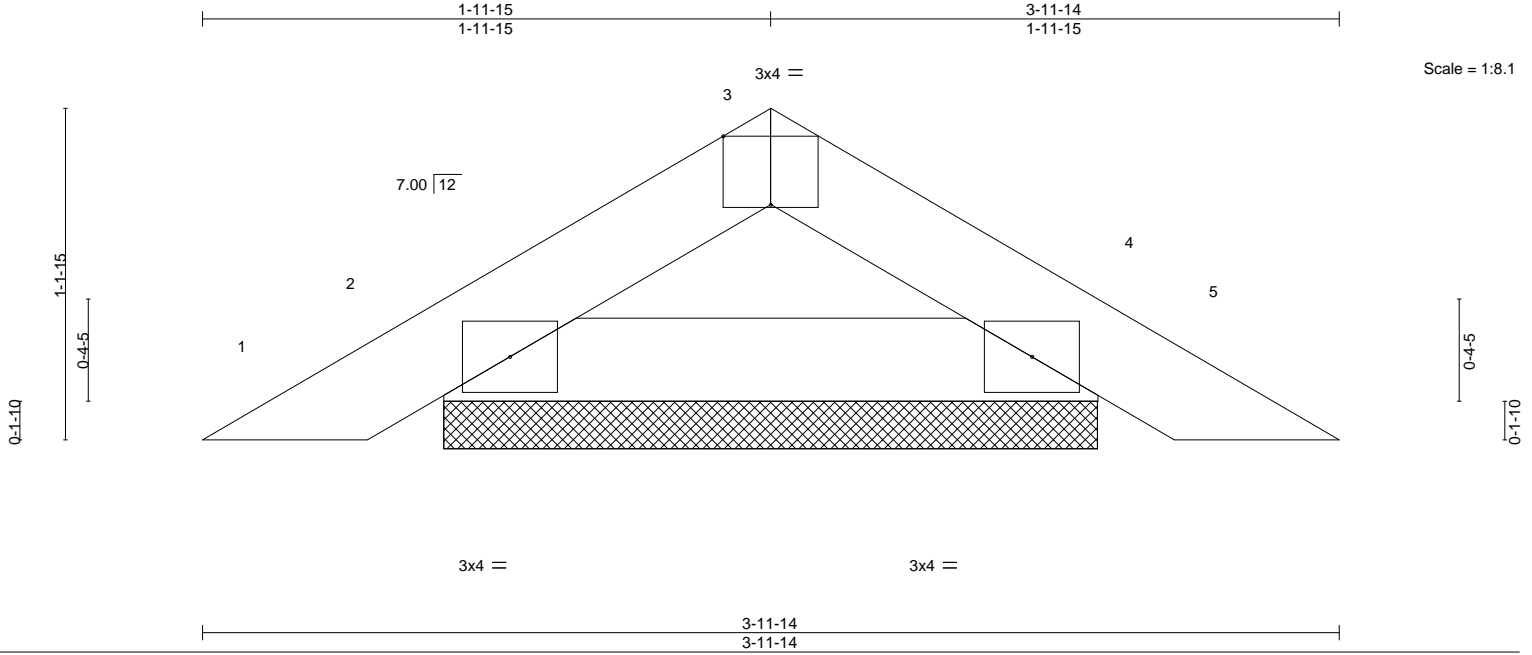


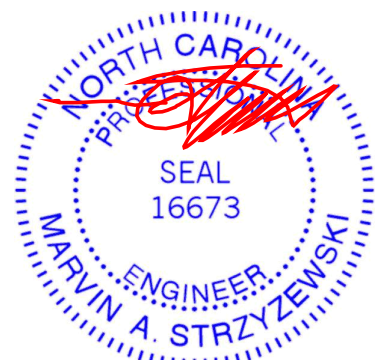
Plate Offsets (X,Y)-- [3:0-2:0,Edge]								PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	-0.00	4	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	4	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P						Weight: 10 lb
									FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-3-8, 4=2-3-8
 Max Horz 2=-24(LC 10)
 Max Uplift 2=-14(LC 12), 4=-14(LC 13)
 Max Grav 2=125(LC 1), 4=125(LC 1)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Non Standard bearing condition. Review required.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641158
J0421-2468	PBC1	Piggyback	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:42 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjzlcvm-5t6hj4H3n?ev1XDpUQGc0ri6RLGbRpc3DdXxjzOX7p

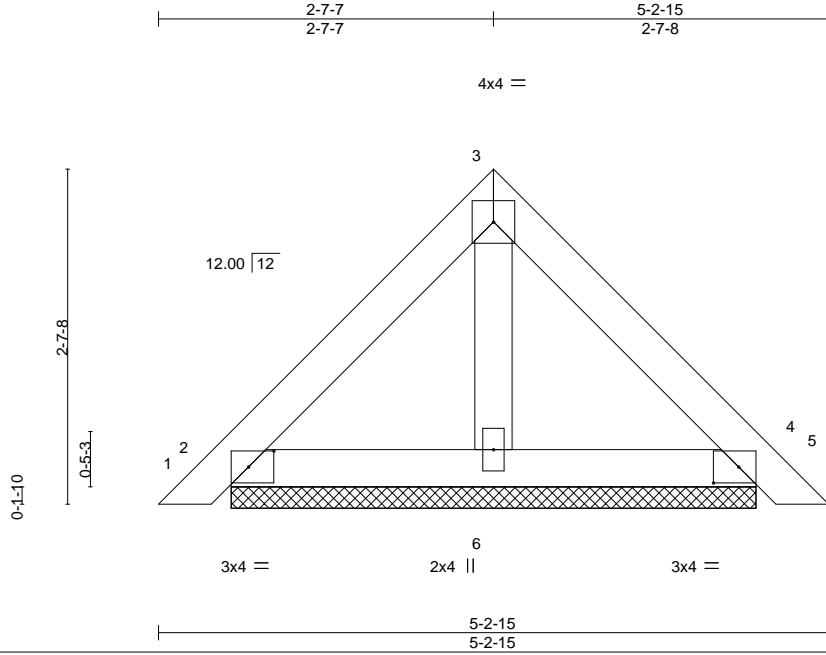


Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]
-----------------------	----------------------------------

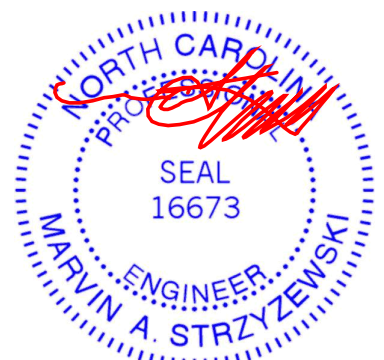
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 20 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=4-1-5, 4=4-1-5, 6=4-1-5
 Max Horz 2=-72(LC 10)
 Max Uplift 2=-51(LC 12), 4=-51(LC 13)
 Max Grav 2=160(LC 1), 4=160(LC 1), 6=103(LC 3)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

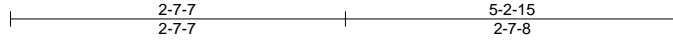


April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641159
J0421-2468	PBC2	PIGGYBACK	25	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:44 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjzlcvm-1GDS8mJJcudHrNCr146GnSw8y5vjyMgx02oAzOX7n



4x4 =

Scale = 1:18.0

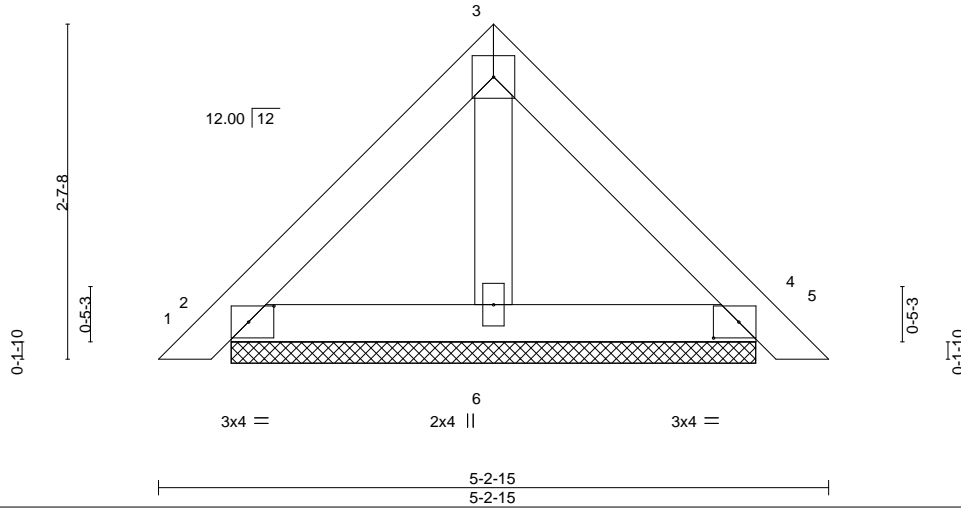


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

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)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 20 lb	FT = 20%

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

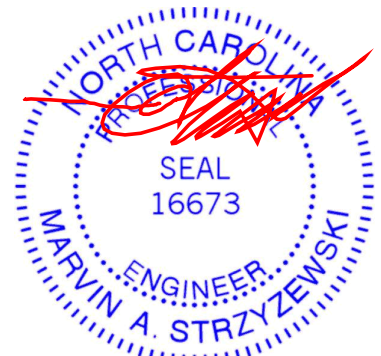
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-1-4, 4=4-1-4, 6=4-1-4
 Max Horz 2=-58(LC 10)
 Max Uplift 2=-20(LC 13), 4=-24(LC 13)
 Max Grav 2=124(LC 1), 4=124(LC 1), 6=127(LC 3)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Non Standard bearing condition. Review required.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 21, 2021

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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	Onsite\115 Greening way	E15641160
J0421-2468	PBC3	PIGGYBACK	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:45 2021 Page 1
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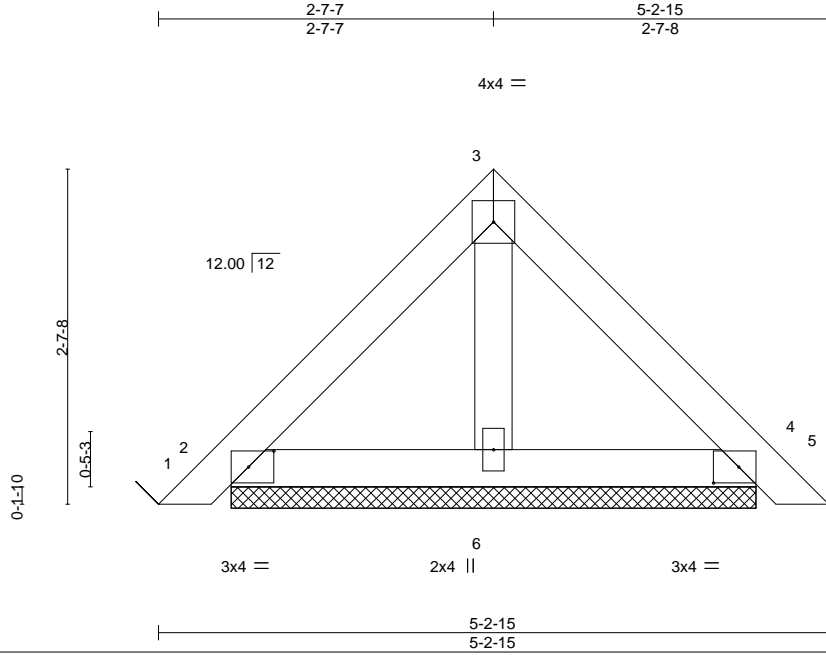


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

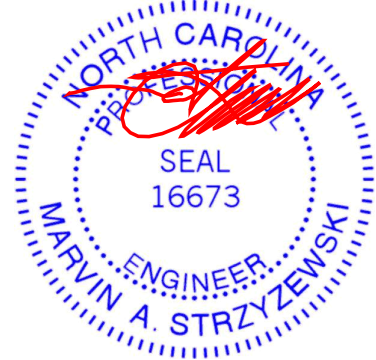
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	3-0-0	TC 0.12	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P					Weight: 20 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD 2-0-0 oc purlins
BOT CHORD 2x4 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
OTHERS 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-1-5, 4=4-1-5, 6=4-1-5
 Max Horz 2=-87(LC 10)
 Max Uplift 2=-31(LC 13), 4=-37(LC 13)
 Max Grav 2=185(LC 1), 4=185(LC 1), 6=191(LC 3)

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

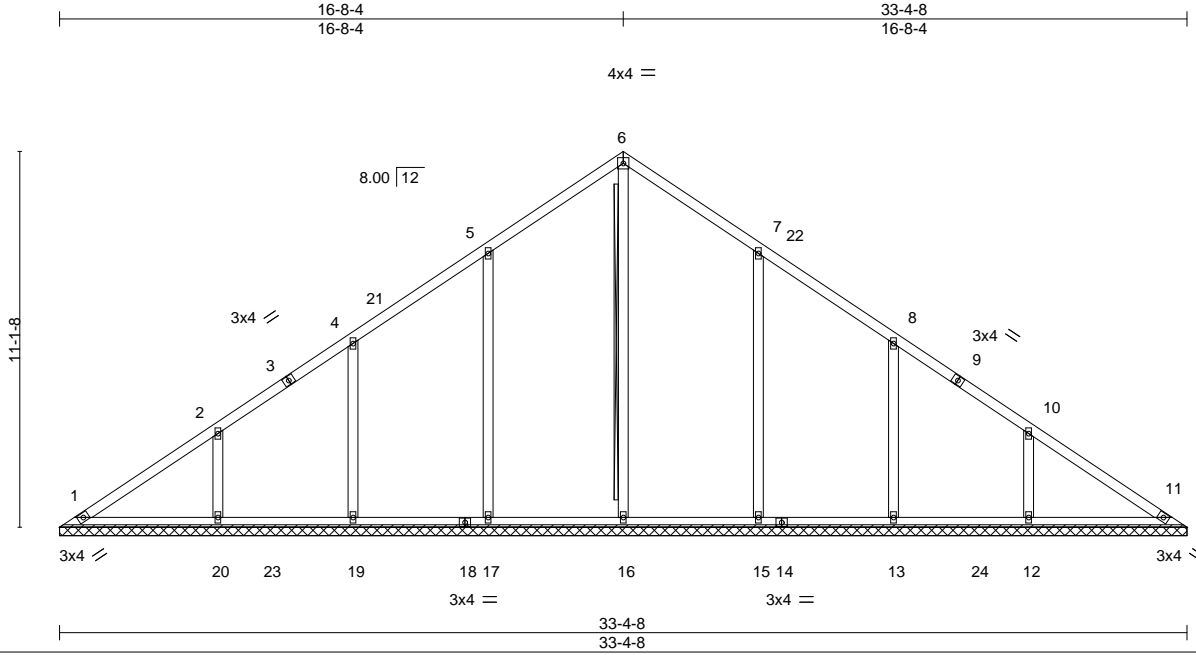


April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641161
J0421-2468	V1	Valley	1	1			

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:47 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjplcvm-SrvamoLCcXHC8J5nH_snjuPxoMxp6?GoNvFiOVzOX7k



Scale = 1:68.2

Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 170 lb	FT = 20%

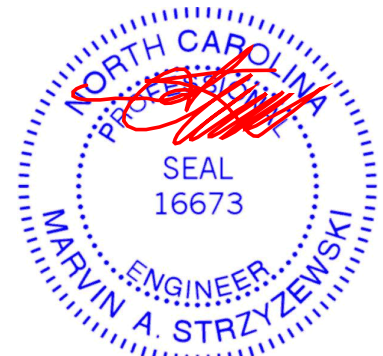
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.
WEBS T-Brace: 2x4 SPF No.2 - 6-16
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 33-4-8.
(lb) - Max Horz 1=-259(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 13 except 17=-103(LC 12), 20=-108(LC 12), 15=-102(LC 13), 12=-108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=458(LC 22), 17=547(LC 19), 19=501(LC 19), 20=429(LC 19), 15=547(LC 20), 13=501(LC 20), 12=429(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-280/264, 6-7=-280/263
WEBS 5-17=-310/203, 4-19=-278/154, 2-20=-333/211, 7-15=-310/203, 8-13=-278/154, 10-12=-333/211

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-8-4, Interior(1) 4-8-4 to 16-8-4, Exterior(2) 16-8-4 to 21-1-1, Interior(1) 21-1-1 to 32-10-12 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 13 except (jt=lb) 17=103, 20=108, 15=102, 12=108.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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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

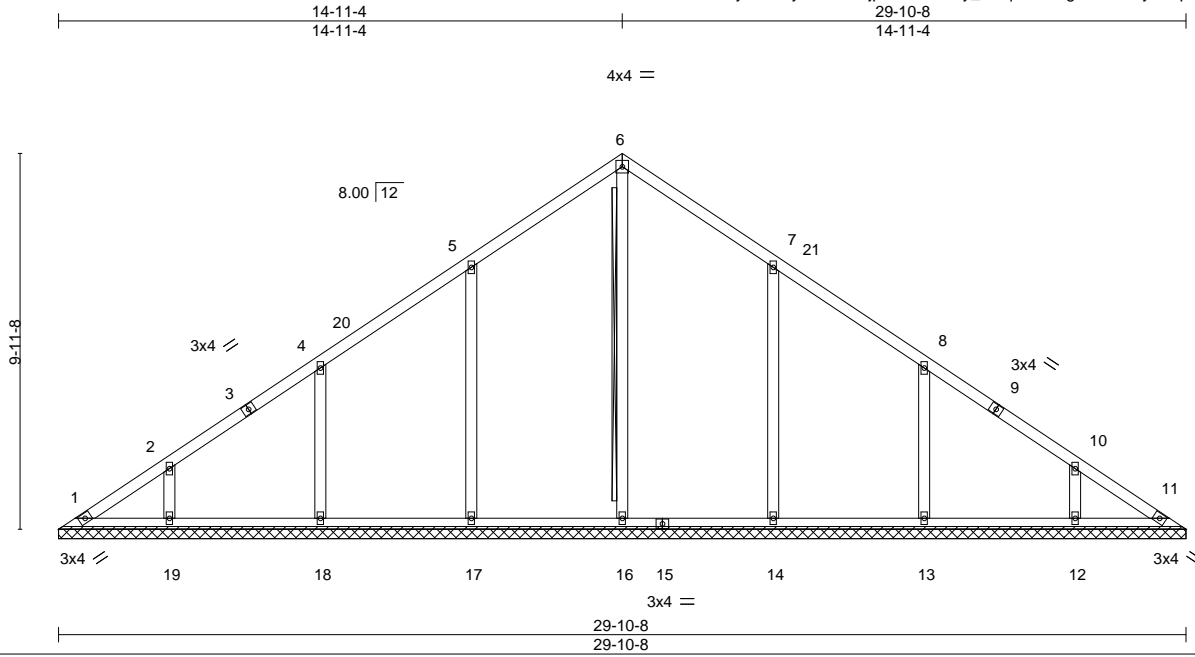
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641162
J0421-2468	V2	Valley	1	1	115 Greening way	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:48 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtpzlcvm-w1Ty_8MqNrP3iSgzhN0G6y6llHprT5xbZ_FxxzOX7j



Scale = 1:61.1

Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 146 lb	FT = 20%

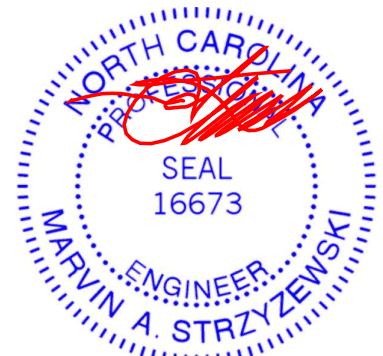
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.
WEBS T-Brace: 2x4 SPF No.2 - 6-16
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 29-10-8.
(lb) - Max Horz 1=231(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 19, 13, 12, 11 except 17=101(LC 12), 14=101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=443(LC 22), 17=553(LC 19), 18=437(LC 19), 19=297(LC 19), 14=553(LC 20), 13=437(LC 20), 12=297(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-252/236, 6-7=-252/236
WEBS 5-17=-306/201, 4-18=-296/172, 2-19=-261/181, 7-14=-306/201, 8-13=-296/172, 10-12=-261/181

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 14-11-4, Exterior(2) 14-11-4 to 19-4-1, Interior(1) 19-4-1 to 29-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 19, 13, 12, 11 except (jt=lb) 17=101, 14=101.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641163
J0421-2468	V3	Valley	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:51 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjzlcvm-Kc85c9OigmnedwPYWpwjukac4zJz2sEOHXDwXGzOX7g

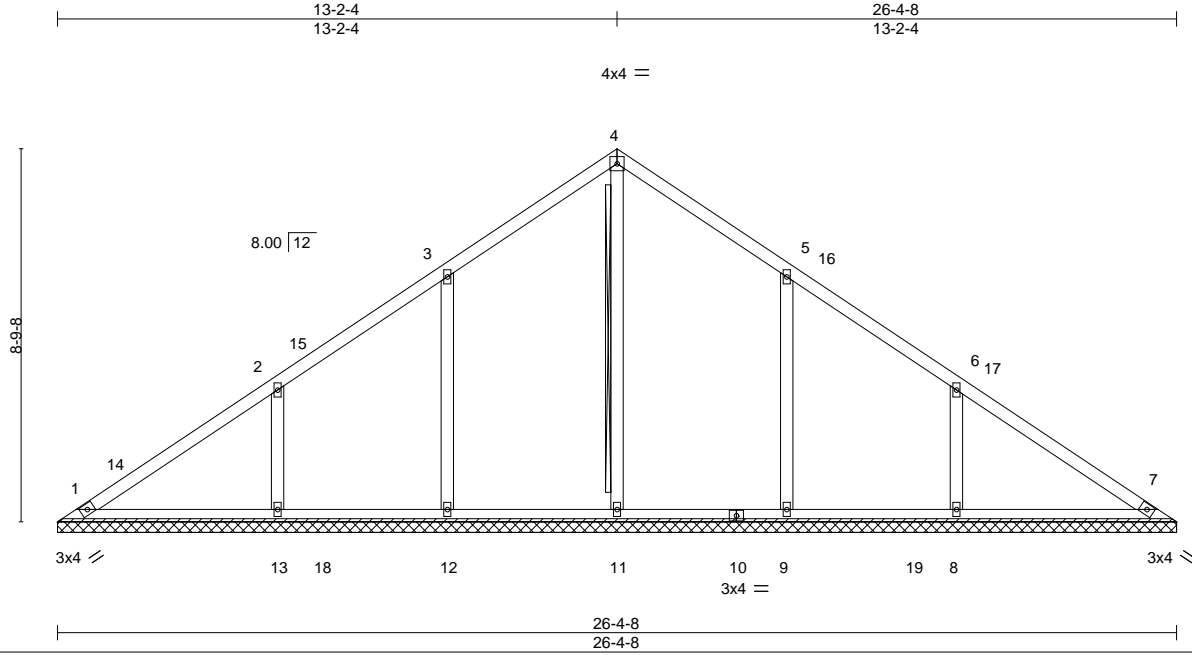


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 122 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.
WEBS T-Brace: 2x4 SPF No.2 - 4-11
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

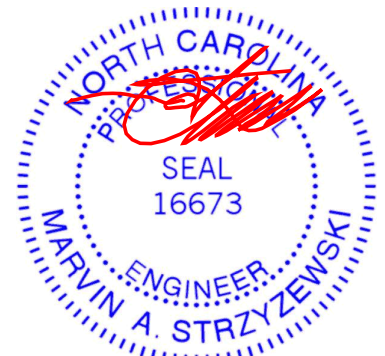
All bearings 26-4-8.
(lb) - Max Horz 1=203(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 9 except 13=115(LC 12), 8=115(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=442(LC 22), 12=522(LC 19), 13=473(LC 19), 9=522(LC 20), 8=473(LC 20)

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

WEBS 3-12=288/192, 2-13=355/224, 5-9=288/192, 6-8=355/224

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 13-2-4, Exterior(2) 13-2-4 to 17-7-1, Interior(1) 17-7-1 to 25-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 9 except (jt=lb) 13=115, 8=115.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641164
J0421-2468	V4	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:52 2021 Page 1
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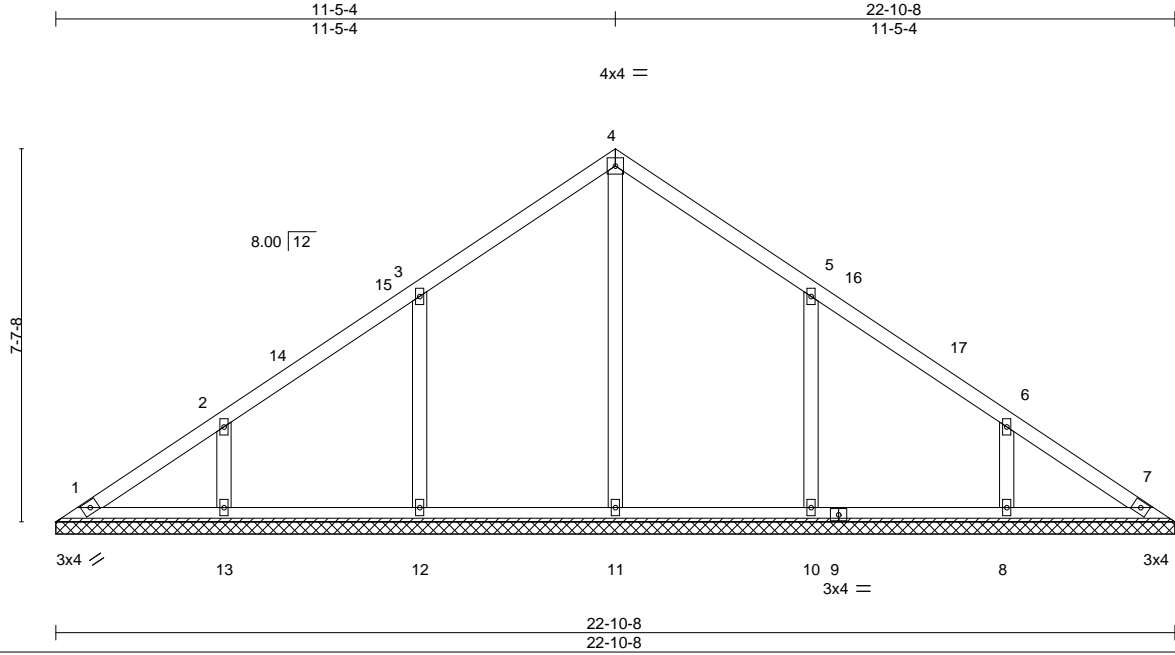


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 102 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 22-10-8.
(lb) - Max Horz 1=175(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=103(LC 12), 10=103(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=451(LC 22), 12=454(LC 19), 13=314(LC 19), 10=454(LC 20), 8=314(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=313/206, 2-13=272/185, 5-10=313/206, 6-8=273/185

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 11-5-4, Exterior(2) 11-5-4 to 15-10-1, Interior(1) 15-10-1 to 22-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 12=103, 10=103.



April 21, 2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641165
J0421-2468	V5	Valley	1	1			

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:54 2021 Page 1
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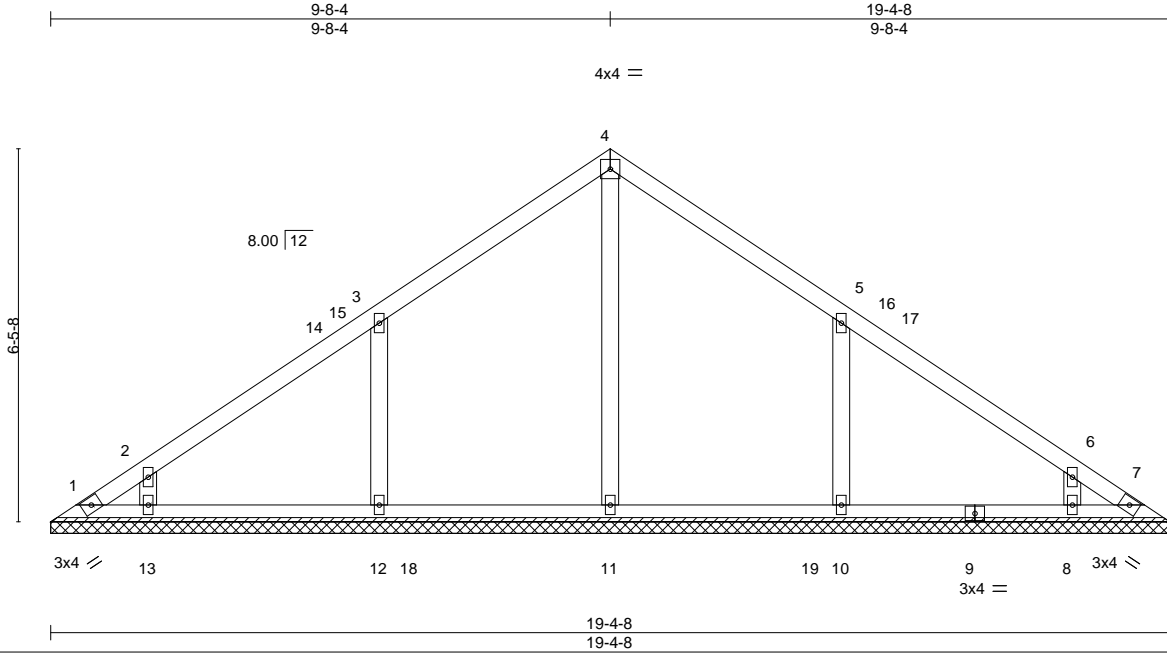


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 82 lb	FT = 20%

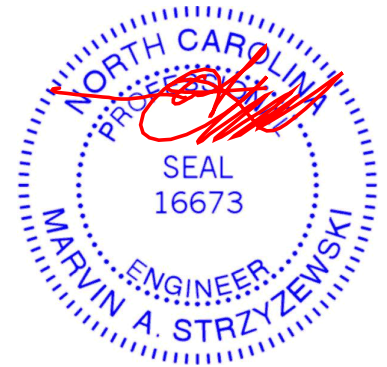
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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 19-4-8.
 (lb) - Max Horz 1=147(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=106(LC 12), 10=105(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=441(LC 19), 12=439(LC 19), 13=263(LC 1), 10=439(LC 20), 8=263(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-12=318/209, 5-10=318/209

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 9-8-4, Exterior(2) 9-8-4 to 14-1-1, Interior(1) 14-1-1 to 18-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=106, 10=105.



April 21, 2021

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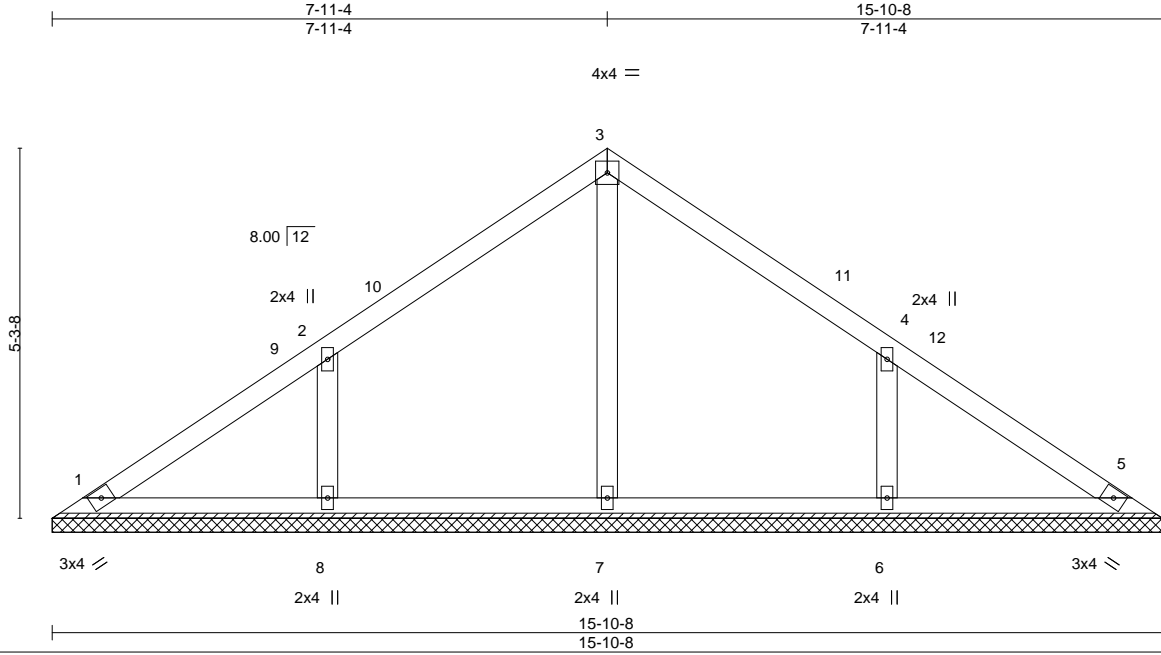


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641166
J0421-2468	V6	Valley	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:55 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjplcvm-DOOcSXRdJ?H35Xijf?2akJtaht_hhzC9B7g1zOX7c



Scale = 1:32.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 64 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.

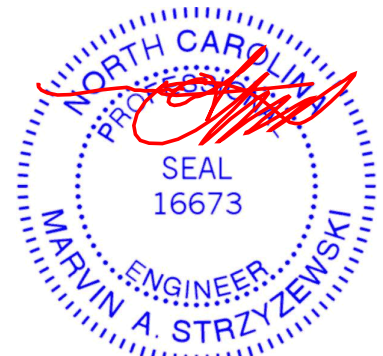
All bearings 15-10-8.
(lb) - Max Horz 1=119(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=107(LC 12), 6=106(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=377(LC 19), 6=377(LC 20)

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

WEBS 2-8=-317/209, 4-6=-317/209

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 7-11-4, Exterior(2) 7-11-4 to 12-4-1, Interior(1) 12-4-1 to 15-4-12 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) 1 except (jt=lb) 8=107, 6=106.



April 21, 2021

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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

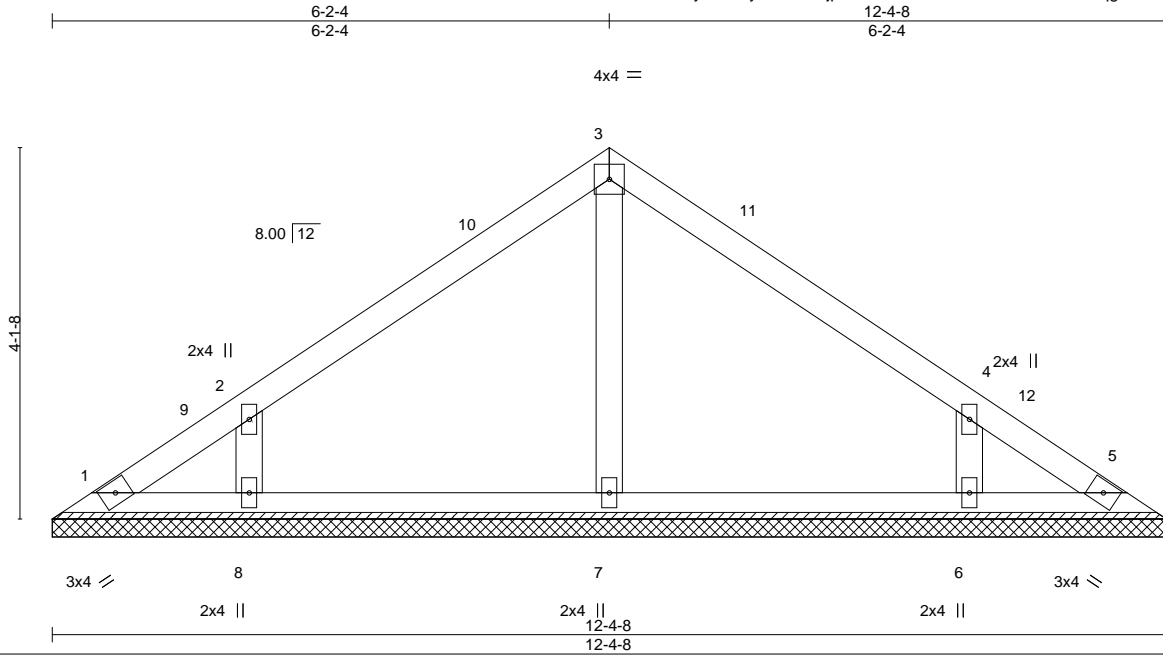
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641167
J0421-2468	V7	Valley	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:57 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjplcvm-9mWmtdTTFcXnLrsis4177?qqIONEScbGgTgElwzOX7a



Scale = 1:25.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					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.

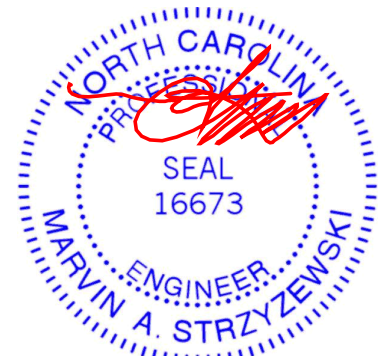
All bearings 12-4-8.
(lb) - Max Horz 1=-91(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=314(LC 19), 6=314(LC 20)

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

WEBS 2-8=-278/201, 4-6=-278/201

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 6-2-4, Exterior(2) 6-2-4 to 10-7-1, Interior(1) 10-7-1 to 11-10-12 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) 1, 5, 8, 6.



April 21, 2021

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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

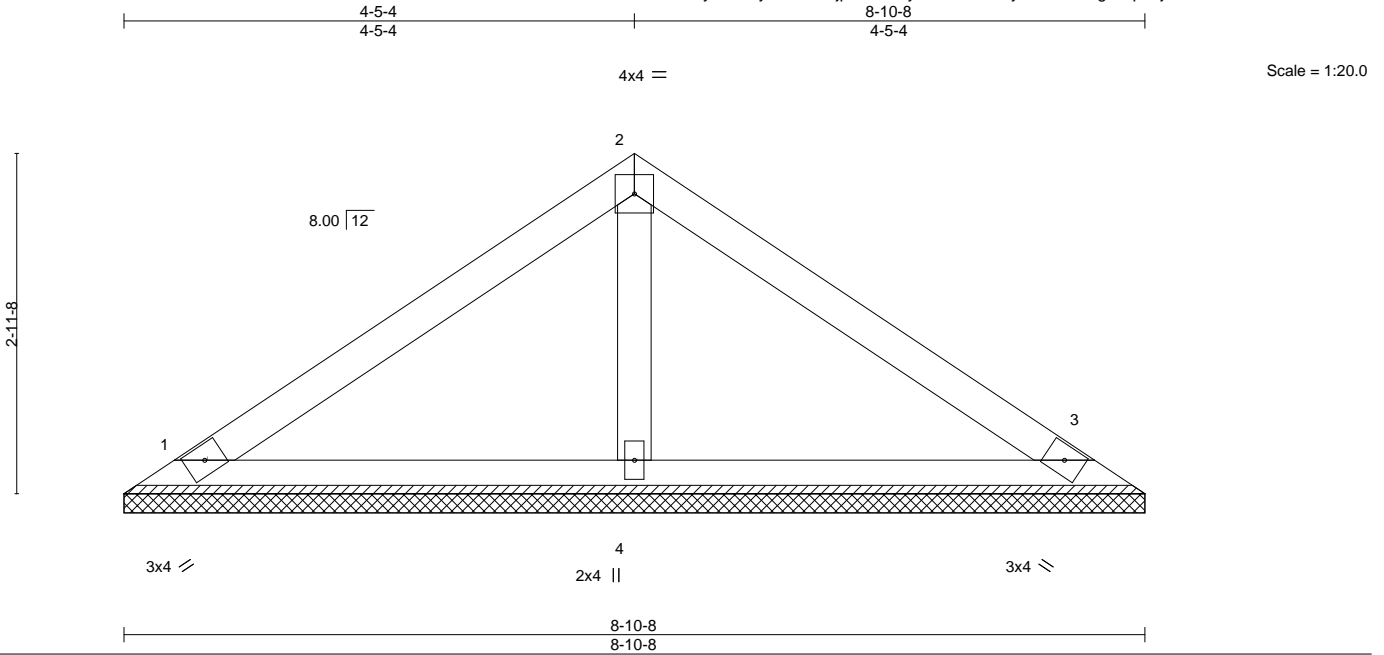


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641168
J0421-2468	V8	Valley	1	1	115 Greening way	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:04:58 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjplcvm-dy3k4YU50wfey?RuQoYMgDmp1nj3B36Pu7PnHMzOX7Z



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 31 lb	FT = 20%
	Code IRC2015/TPI2014								

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) 1=8-10-8, 3=8-10-8, 4=8-10-8
 Max Horz 1=63(LC 8)
 Max Uplift 1=27(LC 12), 3=33(LC 13)
 Max Grav 1=172(LC 1), 3=172(LC 1), 4=289(LC 1)

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



April 21, 2021

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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

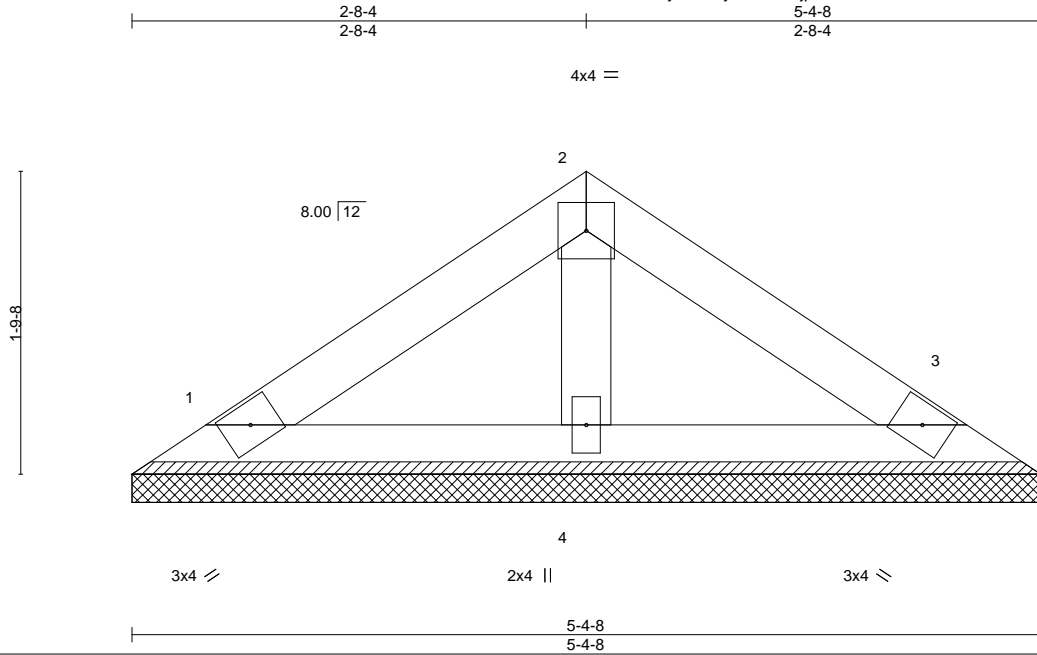


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641169
J0421-2468	V9	Valley	1	1			

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:05:00 2021 Page 1
ID:GdeVuy8L0dFyisWa1fGtjzlcvm-ZLBVVEVLYXvMCibHYCbqleRC0bPlytiMQuuMFzOX7X



Scale = 1:13.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 18 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 5-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

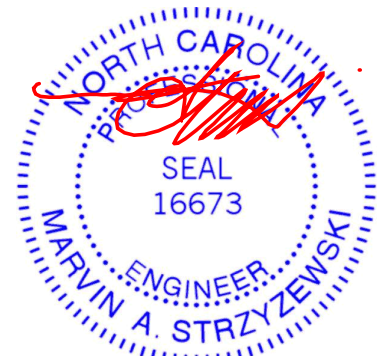
REACTIONS.

(size) 1=5-4-8, 3=5-4-8, 4=5-4-8
Max Horz 1=-35(LC 10)
Max Uplift 1=-15(LC 12), 3=-19(LC 13)
Max Grav 1=96(LC 1), 3=96(LC 1), 4=161(LC 1)

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



April 21, 2021

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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

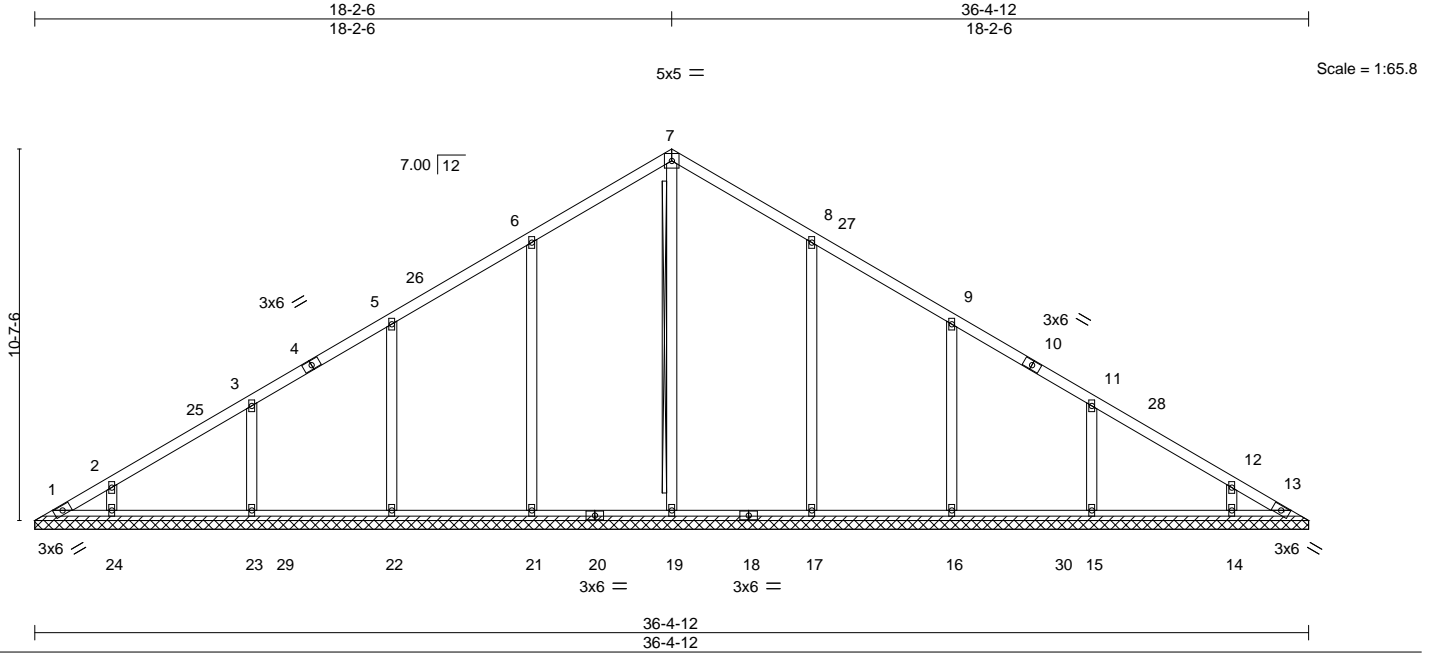


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641170
J0421-2468	VB-1	Valley	1	1	115 Greening way	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:05:02 2021 Page 1
ID:GdeVuy8LOdFyisWa1fGtjplcvm-VkJFwwXc48A4Rclffdlq3XWAO3B7nW?pkN?Q7zOX7V



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 0.15	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.01 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 180 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 7-19
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. All bearings 36-4-12.
 (lb) - Max Horz 1=-247(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 22, 23, 24, 17, 16, 15, 14, 13
 Max Grav All reactions 250 lb or less at joint(s) 1, 13 except 19=461(LC 22), 21=536(LC 19), 22=519(LC 19), 23=403(LC 19), 24=269(LC 19), 17=536(LC 20), 16=519(LC 20), 15=403(LC 20), 14=269(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-274/261, 7-8=-274/261
 WEBS 6-21=-292/184, 5-22=-271/145, 3-23=-286/163, 8-17=-292/184, 9-16=-271/145, 11-15=-286/163

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-8 to 4-11-4, Interior(1) 4-11-4 to 18-2-6, Exterior(2) 18-2-6 to 22-7-3, Interior(1) 22-7-3 to 35-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 22, 23, 24, 17, 16, 15, 14, 13.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

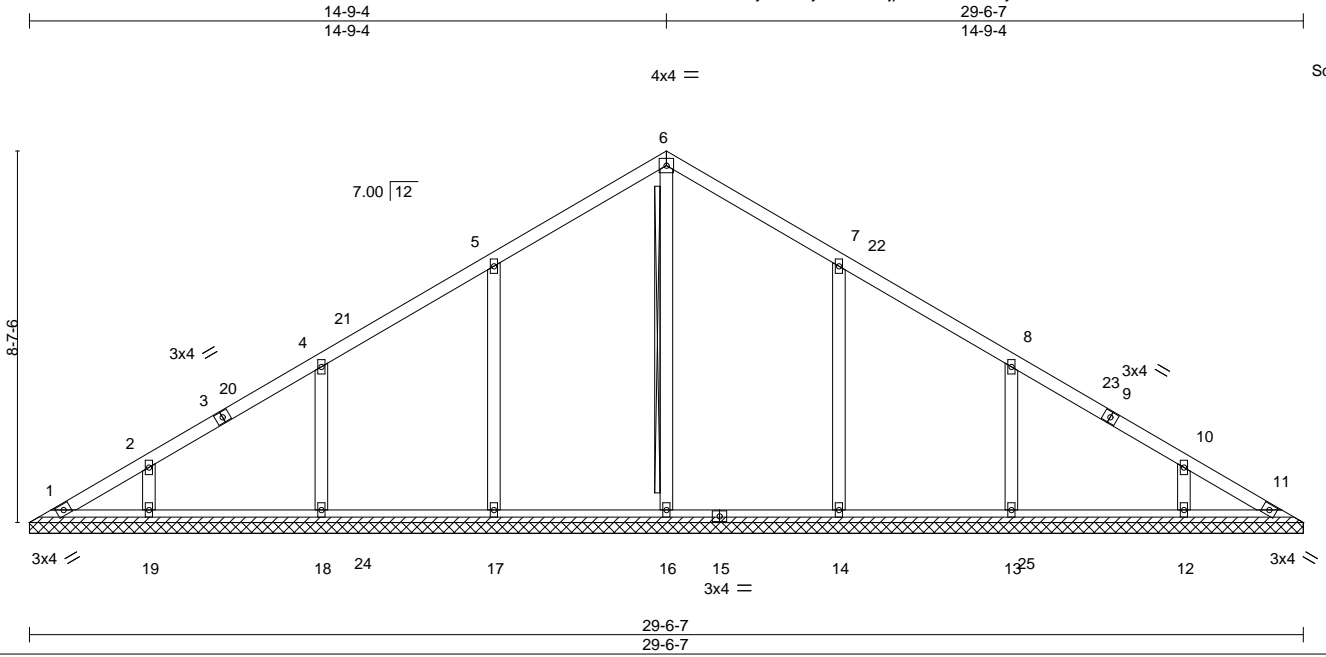


April 21, 2021

Job	Truss	Truss Type	Qty	Ply	Onsite	E15641171
J0421-2468	VB-2	Valley	1	1	115 Greening way	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:05:05 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjplzcvw-wJ?OYyZUN3Yfl4TEKmB?Sh90Sc4oKBXRvicf1SzOX7S



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 135 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.
 WEBS T-Brace: 2x4 SPF No.2 - 6-16
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

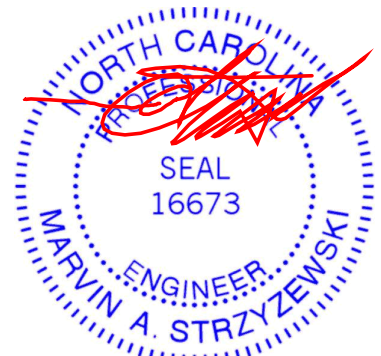
All bearings 29-6-7.
 (lb) - Max Horz 1=-199(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 17, 18, 19, 14, 13, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=437(LC 22), 17=548(LC 19), 18=420(LC 19), 19=284(LC 19), 14=547(LC 20), 13=420(LC 20), 12=284(LC 20)

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

WEBS 5-17=-290/183, 4-18=-281/157, 7-14=-290/183, 8-13=-281/157

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-8 to 4-11-4, Interior(1) 4-11-4 to 14-9-4, Exterior(2) 14-9-4 to 19-2-0, Interior(1) 19-2-0 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 18, 19, 14, 13, 12, 11.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 21, 2021

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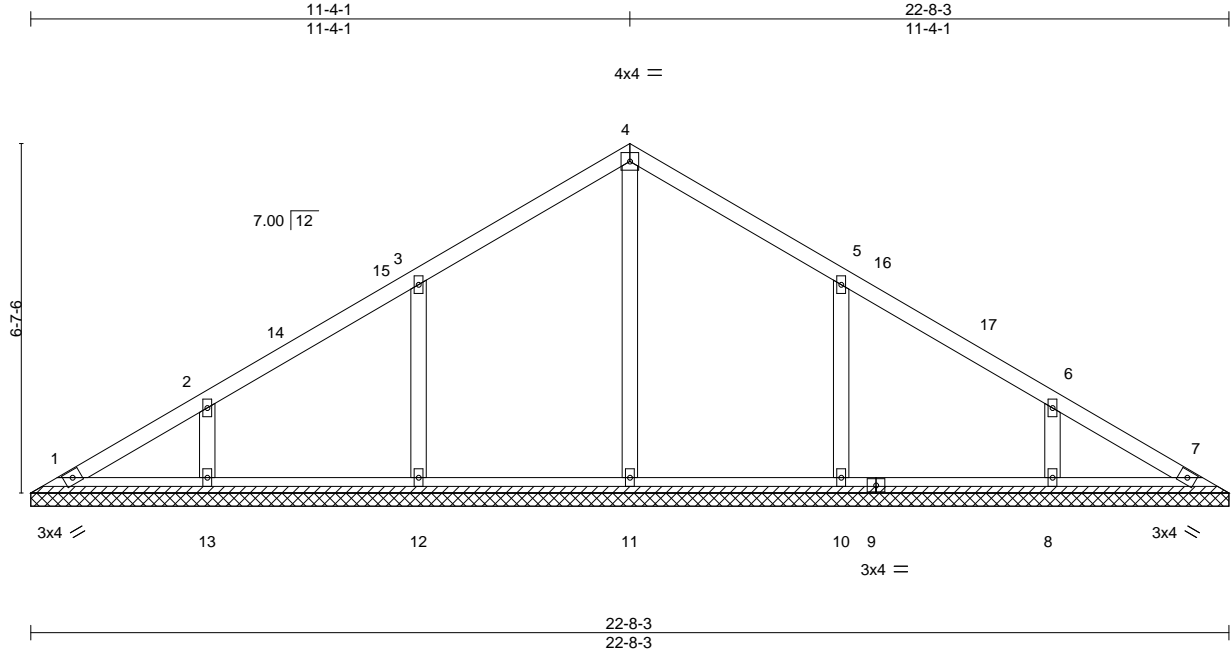


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite	115 Greening way	E15641172
J0421-2468	VB-3	Valley	1	1			

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:05:06 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjzlcvm-OVYmlHa68NgVwD2QuTIE?vhB50Qo3fbbkMLCZvzOX7R



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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 95 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.

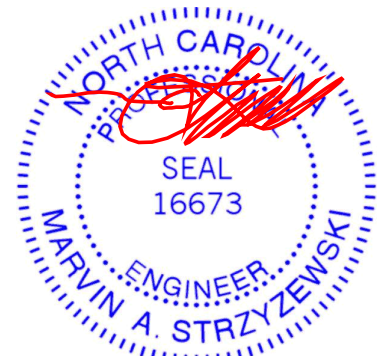
All bearings 22-8-3.
 (lb) - Max Horz 1=151(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=456(LC 19), 12=451(LC 19), 13=302(LC 19), 10=450(LC 20), 8=302(LC 20)

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

WEBS 3-12=298/188, 2-13=253/166, 5-10=298/188, 6-8=253/166

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-8 to 4-11-4, Interior(1) 4-11-4 to 11-4-1, Exterior(2) 11-4-1 to 15-8-14, Interior(1) 15-8-14 to 22-1-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 10, 8.



April 21, 2021

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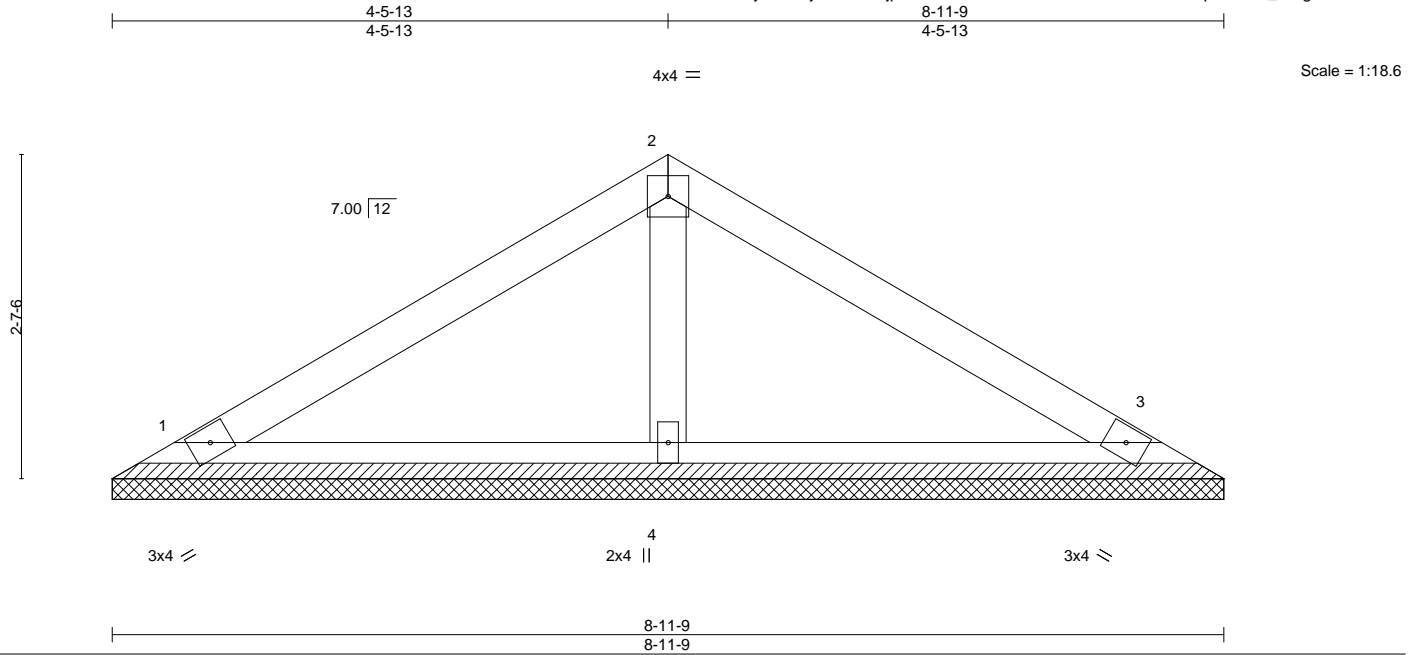


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Onsite\115 Greening way	E15641174
J0421-2468	VB-5	Valley	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Apr 21 10:05:10 2021 Page 1
 ID:GdeVuy8L0dFyisWa1fGtjplcvm-GGoHbdddBcAxOrMC7JmA9lss2dps?U5Bf_JQigzOX7N



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 30 lb	FT = 20%
	Code IRC2015/TPI2014							

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) 1=8-11-9, 3=8-11-9, 4=8-11-9
 Max Horz 1=55(LC 8)
 Max Uplift 1=26(LC 12), 3=32(LC 13)
 Max Grav 1=166(LC 1), 3=166(LC 1), 4=299(LC 1)

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



April 21, 2021

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



818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TFP 1: 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.