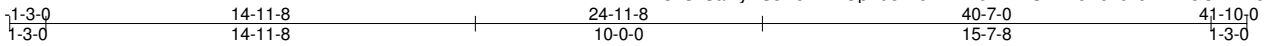


Job J0818-3696	Truss A1-GE	Truss Type GABLE	Qty 1	Ply 1	Rice Residence / Harnett
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Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:24 2019 Page 1  
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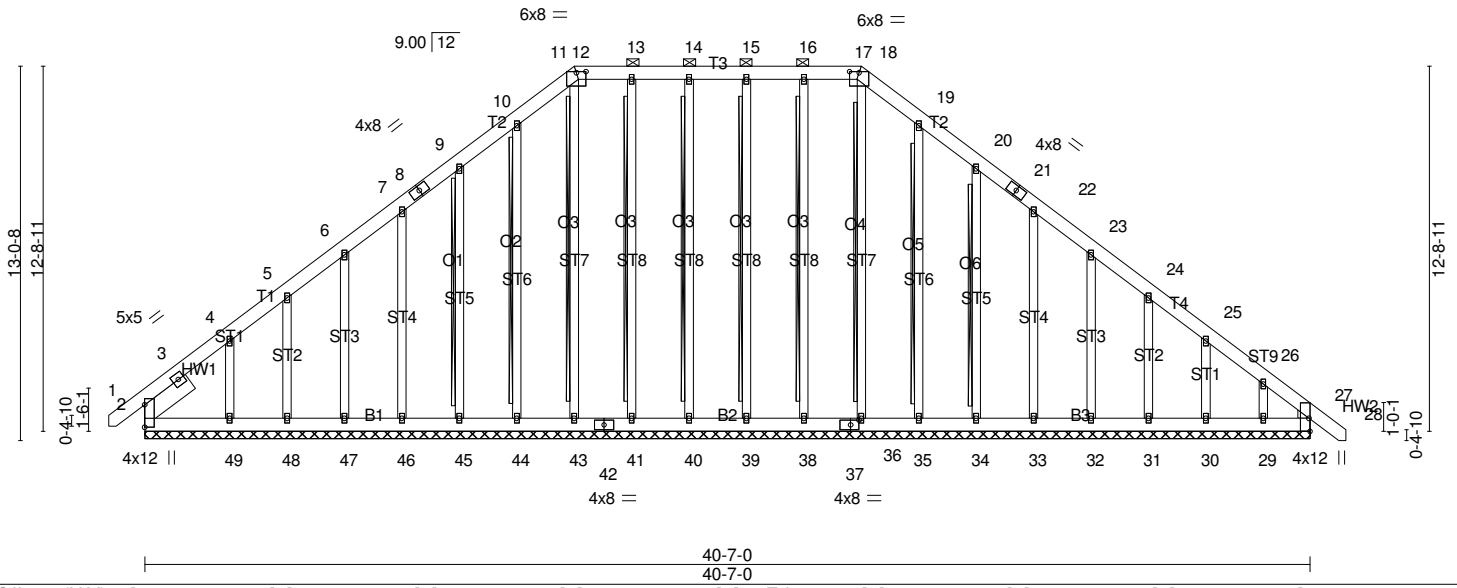


Plate Offsets (X,Y)-- [11:0-1-12,0-1-5], [12:0-4-0,0-0-7], [17:0-4-0,0-0-7], [18:0-1-12,0-1-5], [27:Edge,0-0-7], [27:0-0-5,0-3-9], [27:0-0-3,0-0-4], [37:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL) -0.00	27	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT) -0.00	27	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT) 0.01	27	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							
							Weight: 447 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.3 \*Except\*  
WEDGE Right: 2x4 SP No.3  
SLIDER Left 2x8 SP No.1 2-0-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 12-17.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 18-36, 16-38, 15-39, 14-40, 13-41, 11-43, 10-44, 9-45, 19-35, 20-34  
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 40-7-0.  
(lb) - Max Horz 2=-376(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 27, 38, 39, 40, 41, 43, 44, 46, 48, 35, 33, 32, 31 except 2=-161(LC 8), 45=-107(LC 12), 47=-103(LC 12), 49=-284(LC 12), 34=-108(LC 13), 30=-103(LC 13), 29=-156(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 27, 36, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 35, 34, 33, 32, 31, 30, 29 except 2=321(LC 20), 49=319(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-357/288, 3-4=-341/307, 7-8=-213/254, 8-9=-201/267, 9-10=-288/321, 10-11=-337/381, 11-12=-279/319, 12-13=-301/346, 13-14=-301/346, 14-15=-301/346, 15-16=-301/346, 16-17=-301/346, 17-18=-279/319, 18-19=-337/381, 19-20=-288/317, 26-27=-326/202  
BOT CHORD 2-49=-160/280, 48-49=-160/280, 47-48=-160/280, 46-47=-160/280, 45-46=-160/280, 44-45=-160/280, 43-44=-160/280, 42-43=-160/280, 41-42=-160/280, 40-41=-160/280, 39-40=-160/280, 38-39=-160/280, 37-38=-160/280, 36-37=-160/280, 35-36=-160/280, 34-35=-160/280, 33-34=-160/280, 32-33=-160/280, 31-32=-160/280, 30-31=-160/280, 29-30=-160/280, 27-29=-160/280  
WEBS 4-49=-272/283

- 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) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	A1-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:25 2019 Page 2  
ID:sLcKSalhyHS8R5NWL0pYuoZ4oz2-eUIUDd\_1DNQ1jODJgh7aOwd5?uT9ad2clOqwstzIGsu

**NOTES-**

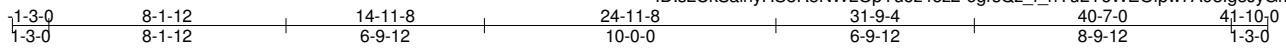
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 38, 39, 40, 41, 43, 44, 46, 48, 35, 33, 32, 31 except (jt=lb) 2=161, 45=107, 47=103, 49=284, 34=108, 30=103, 29=156.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J0818-3696	Truss A2	Truss Type PIGGYBACK BASE	Qty 8	Ply 1	Rice Residence / Harnett
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Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:26 2019 Page 1  
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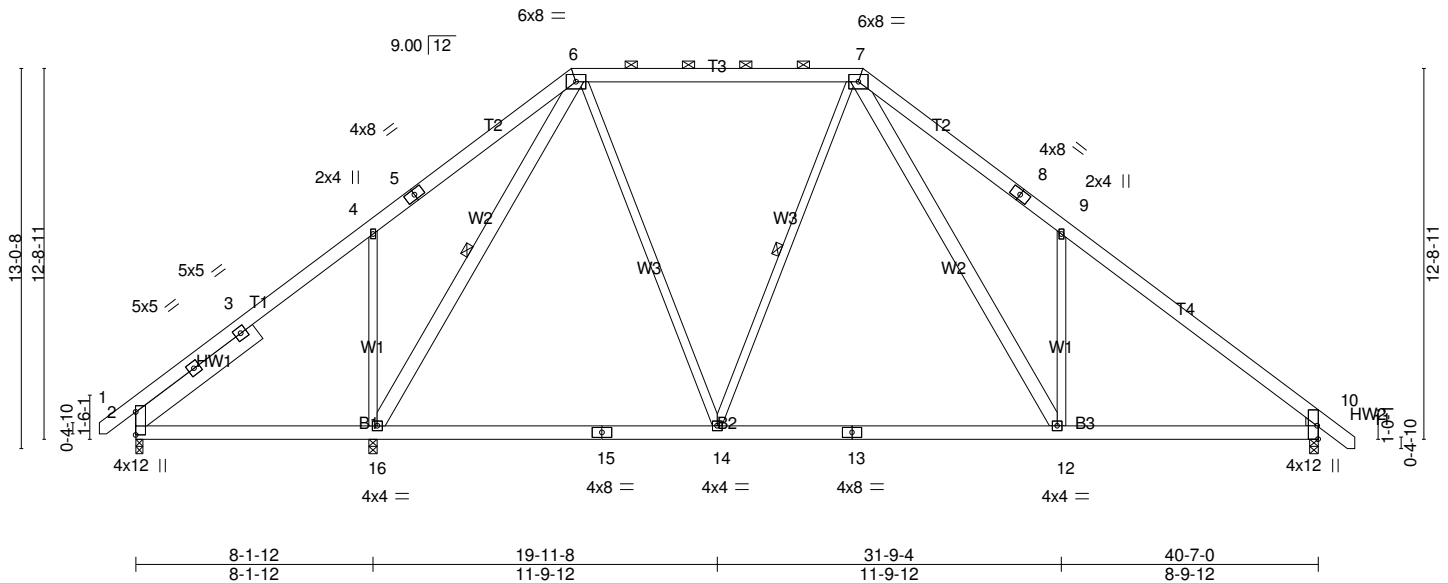


Plate Offsets (X,Y)-- [10:0-0-3,0-0-4], [10:0-0-5,0-3-9], [10:Edge,0-0-7]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.15 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.24 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05 2-16	>999	240		
								Weight: 355 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W1: 2x4 SP No.3, W3: 2x4 SP No.2  
 WEDGE  
 Right: 2x4 SP No.3  
 SLIDER Left 2x8 SP No.1 5-3-7

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-9 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.  
 WEBS 1 Row at midpt 7-14, 6-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=534/0-3-0 (min. 0-1-8), 16=1441/0-3-8 (min. 0-2-4), 10=1404/0-3-8 (min. 0-2-1)  
 Max Horz 2=-302(LC 8)  
 Max Uplift 2=-108(LC 9), 10=-96(LC 13)  
 Max Grav 2=552(LC 23), 16=1903(LC 2), 10=1731(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-481/250, 3-17=-342/255, 3-4=-311/296, 4-18=-648/530, 5-18=-640/535,  
 5-6=-600/580, 6-19=-1031/446, 19-20=-1031/446, 7-20=-1031/446, 7-8=-2044/734,  
 8-21=-2144/690, 9-21=-2164/685, 9-22=-2020/429, 10-22=-2143/387  
 BOT CHORD 2-23=-240/346, 16-23=-240/346, 16-24=-116/806, 15-24=-116/806, 14-15=-116/806,  
 13-14=-3/1077, 13-25=-3/1077, 12-25=-3/1077, 10-12=-174/1563  
 WEBS 4-16=-646/429, 6-14=0/848, 7-14=-264/153, 9-12=-619/414, 7-12=-350/1200,  
 6-16=-1164/18

- 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) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 15-0-6, Exterior(2) 15-0-6 to 31-1-4, Interior(1) 31-1-4 to 41-8-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=108.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

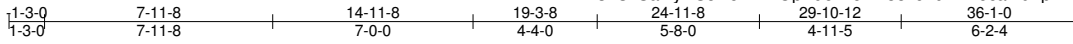
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	A4	PIGGYBACK BASE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:28 2019 Page 1  
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Scale = 1:80.4

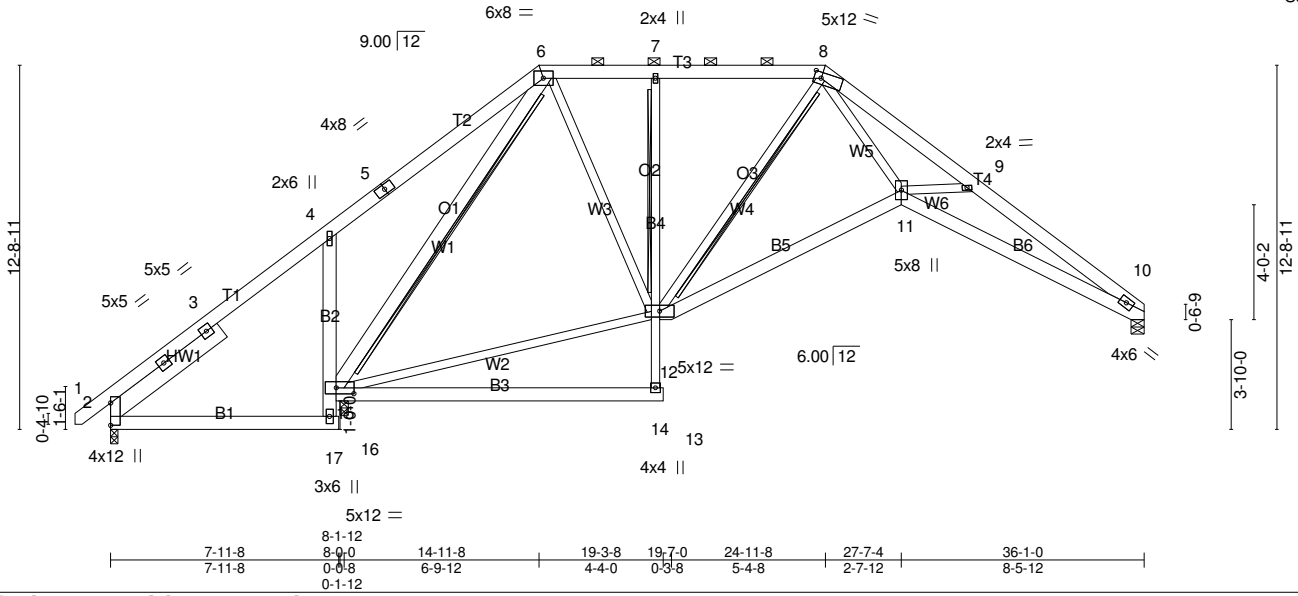


Plate Offsets (X,Y)-- [8:0-3-0,0-2-8], [15:0-7-6,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	Vert(LL)	-0.14	14-15	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(CT)	-0.30	11-12	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Horz(CT)	0.26	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.09	11	>999		
	Code IRC2015/TPI2014						Weight: 326 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.1 *Except* B4: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: T-Brace: 2x4 SPF No.2 - 7-12 10-0-0 oc bracing: 15-17, 12-14
WEBS 2x4 SP No.3 *Except* W1: 2x6 SP No.1, W2: 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 8-12 2x6 SPF No.2 - 6-15
SLIDER Left 2x8 SP No.1 4-11-1	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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=996/0-5-8 (min. 0-1-8), 2=-121/0-3-0 (min. 0-1-8), 15=2074/0-3-8 (min. 0-2-7)  
 Max Horz 2=310(LC 9)  
 Max Uplift 10=-52(LC 13), 2=-321(LC 24), 15=-65(LC 12)  
 Max Grav 10=996(LC 1), 2=142(LC 25), 15=2074(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-44/728, 3-4=-10/829, 4-18=0/684, 5-18=0/689, 5-6=0/790, 6-19=-668/390,  
 7-19=-668/390, 7-20=-673/389, 8-20=-673/389, 8-9=-2909/631, 9-21=-3109/815,  
 21-22=-3123/806, 10-22=-3267/792  
 BOT CHORD 2-23=-527/8, 23-24=-527/8, 17-24=-527/8, 4-15=-743/445, 7-12=-338/165,  
 11-12=-100/1206, 10-11=-628/2808  
 WEBS 6-15=-1618/33, 12-15=-147/347, 8-11=-290/2312, 9-11=-393/321, 8-12=-724/55,  
 6-12=-72/767

- 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) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 15-0-6, Exterior(2) 15-0-6 to 31-1-4, Interior(1) 31-1-4 to 35-10-6 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 15 except (jt=lb) 2=321.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	A4	PIGGYBACK BASE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:28 2019 Page 2  
ID:sLcKSalhyHS8R5NWLOpYuoZ4oz2-33zcrf0wWlocarxuLphH?YFW16NCnoS2RM3bTCzIGsr

**NOTES-**

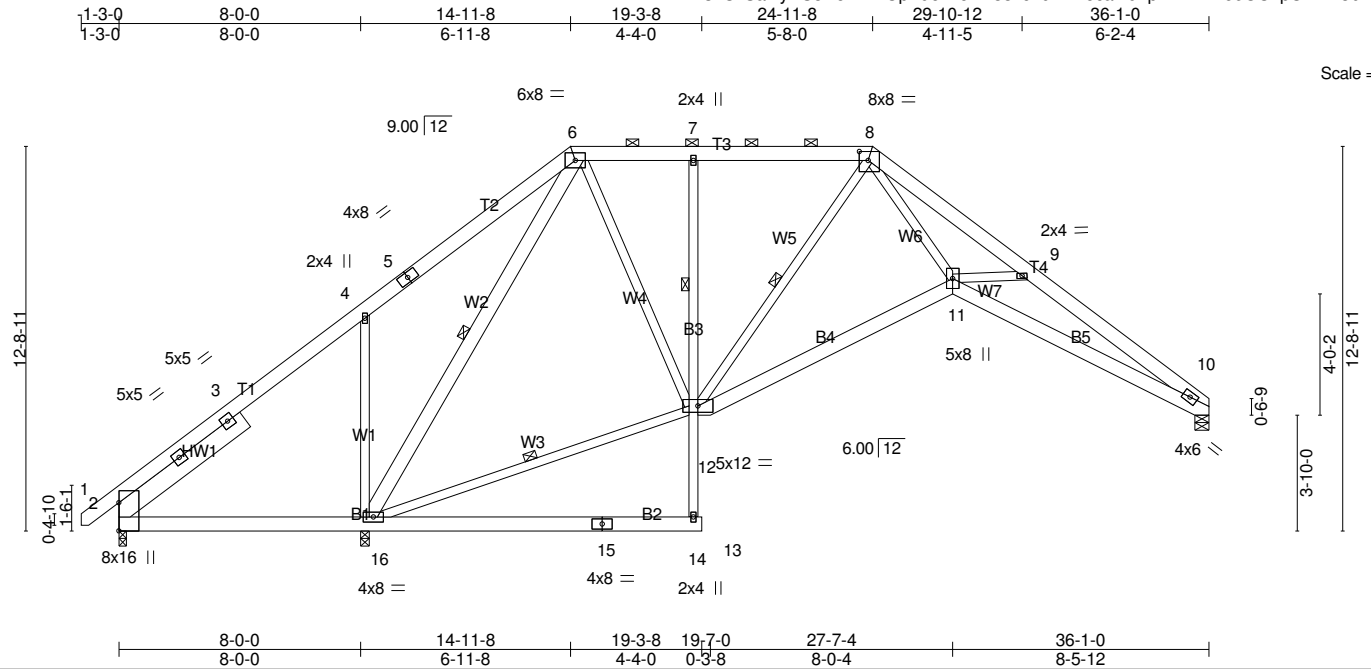
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	A5	PIGGYBACK BASE	7	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:28 2019 Page 1  
 ID:sLCKsAlhyHS8R5NWLOpYuoZ4oz2-33zcrf0wWlocarxuLphH?YFTe6OCnpU2RM3bTCzIGsr



Scale = 1:76.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL) -0.12	11	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(CT) -0.25	11-12	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Horz(CT) 0.23	10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.08	11	>999	240		
	Code IRC2015/TPI2014						Weight: 325 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.1 *Except* B3: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 7-12 10-0-0 oc bracing: 12-14
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2, W2: 2x6 SP No.1	WEBS 1 Row at midpt 12-16, 8-12, 6-16
SLIDER Left 2x8 SP No.1 5-3-7	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=852/0-5-8 (min. 0-1-8), 2=-373/0-3-0 (min. 0-1-8), 16=2463/0-3-8 (min. 0-2-14)  
 Max Horz 2=287(LC 9)  
 Max Uplift 10=-58(LC 13), 2=-624(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-112/1141, 3-17=-90/1149, 3-4=-79/1204, 4-18=0/1023, 5-18=0/1032, 5-6=0/1098,  
 6-19=-472/346, 7-19=-472/346, 7-20=-476/344, 8-20=-476/344, 8-9=-2321/531,  
 9-21=-2530/720, 21-22=-2544/711, 10-22=-2688/697  
 BOT CHORD 2-23=-857/96, 23-24=-857/96, 16-24=-857/96, 7-12=-347/173, 11-12=-108/903,  
 10-11=-546/2307  
 WEBS 4-16=-768/466, 6-12=-84/835, 8-12=-734/55, 8-11=-222/1899, 9-11=-423/328,  
 6-16=-1785/66

- 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) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 15-0-6, Exterior(2) 15-0-6 to 31-1-4, Interior(1) 31-1-4 to 35-10-6 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Bearing at joint(s) 10 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) 10 except (it=lb) 2=624.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	A6-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:30 2019 Page 1  
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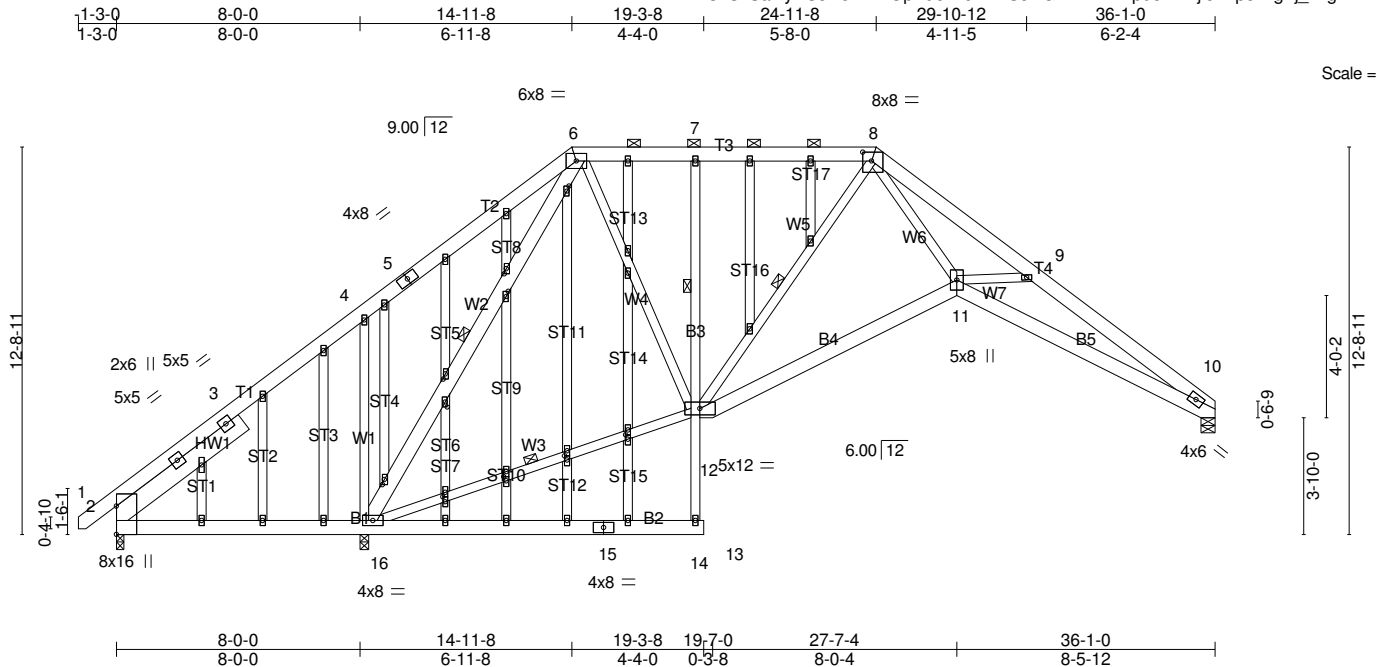


Plate Offsets (X,Y)-- [8:0-3-8,0-3-8], [23:0-1-11,0-1-0], [25:0-1-11,0-1-0], [26:0-2-0,0-0-12], [28:0-2-0,0-0-12], [30:0-1-11,0-1-0], [31:0-2-0,0-0-12], [33:0-2-0,0-0-12], [35:0-1-11,0-1-0], [36:0-2-0,0-0-12], [39:0-2-0,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.12	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.25	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.23	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09	11	>999	240		
								Weight: 424 lb	FT = 20%	

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
B3: 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
W3: 2x4 SP No.2, W2: 2x6 SP No.1  
OTHERS 2x4 SP No.3  
SLIDER Left 2x8 SP No.1 5-3-7

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
1 Row at midpt 7-12  
10-0-0 oc bracing: 12-14  
WEBS 1 Row at midpt 12-16, 8-12, 6-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=852/0-5-8 (min. 0-1-8), 2=-373/0-3-0 (min. 0-1-8), 16=2463/0-3-8 (min. 0-2-14)  
Max Horz 2=352(LC 9)  
Max Uplift 10=-178(LC 13), 2=-624(LC 24), 16=-220(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-112/1149, 3-4=-80/1204, 4-5=0/1032, 5-6=0/1098, 6-7=-472/388, 7-8=-476/387,  
8-9=-2321/634, 9-10=-2688/840  
BOT CHORD 2-47=-857/210, 47-48=-857/210, 16-48=-857/210, 7-12=-347/207, 11-12=-227/903,  
10-11=-633/2307  
WEBS 4-16=-768/531, 12-16=-272/185, 6-12=-116/835, 8-12=-734/65, 8-11=-284/1899,  
9-11=-423/418, 6-16=-1785/94

- 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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=178, 2=624, 16=220.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	A6-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

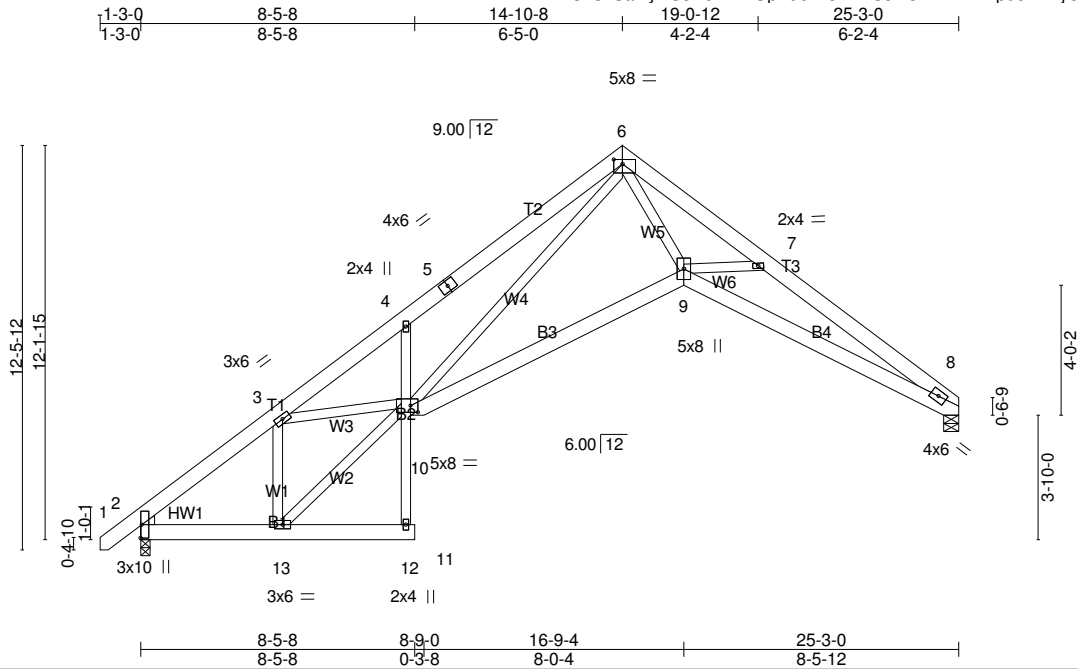
Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:30 2019 Page 2  
ID:sLcKSalhyHS8R5NWLOpYuoZ4oz2-?S5NGL1A2w2Kp95HTEj5zKp8v4gFj\_LvgYhX4zIGsp

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	B1	ROOF SPECIAL	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:30 2019 Page 1  
ID:sLcKSalhyHS8R5NWLOpYuoZ4oz2-?S5NGL1A2w2Kp95HTEj15zKwDv3oFhOLvgYhX4zIGsp



Scale = 1:71.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	Vert(LL) -0.14	9-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(CT) -0.31	9-10	>953	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.99	Horz(CT) 0.31	8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.11	9-10	>999	240		
	Code IRC2015/TPI2014						Weight: 195 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B2: 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 12-13.  
 10-0-0 oc bracing: 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=995/0-5-8 (min. 0-1-8), 2=1077/0-3-8 (min. 0-1-8)  
 Max Horz 2=281(LC 9)  
 Max Uplift 8=-47(LC 12), 2=-60(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-1340/221, 3-14=-1215/237, 3-4=-2332/508, 4-5=-2526/686, 5-15=-2498/693,  
 6-15=-2486/724, 6-7=-2939/448, 7-16=-3108/601, 8-16=-3252/579  
 BOT CHORD 2-13=-222/1019, 4-10=-439/284, 9-10=-49/1518, 8-9=-423/2793  
 WEBS 6-10=-509/1210, 6-9=-148/2315, 7-9=-286/280, 3-13=-834/245, 3-10=-131/921,  
 10-13=-285/1363

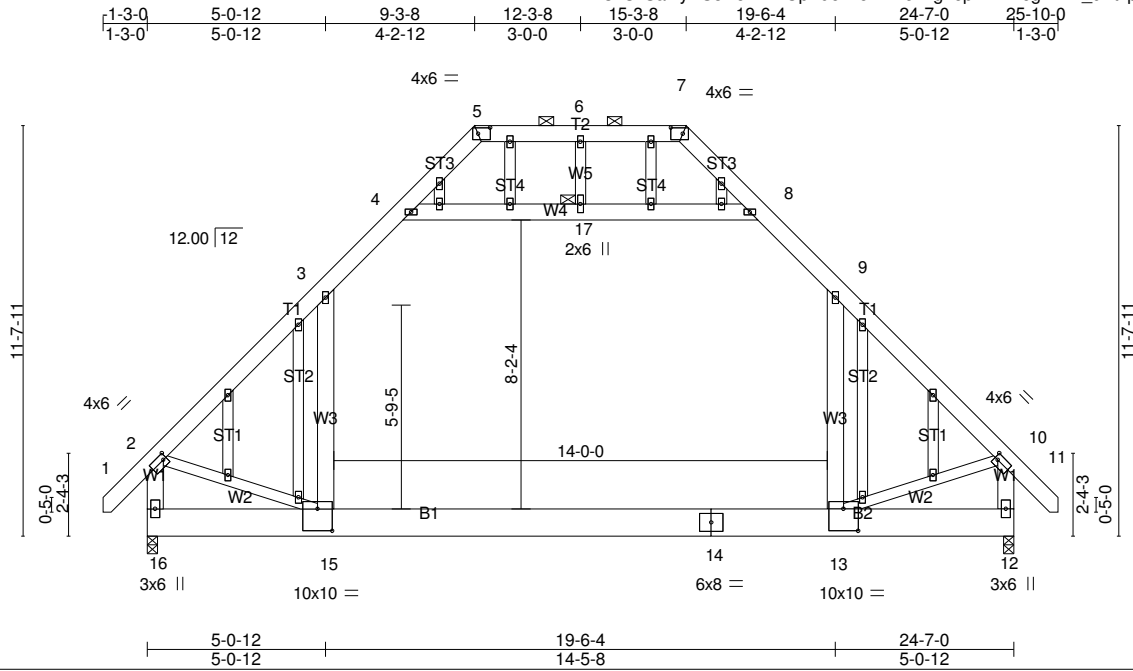
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 14-10-8, Exterior(2) 14-10-8 to 19-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0818-3696	Truss C1-GE	Truss Type GABLE	Qty 1	Ply 1	Rice Residence / Harnett
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Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:31 2019 Page 1  
ID:sLcKSalhyHS8R5NWL0pYuo4oz2-TefITg2opDAARJgT1xE\_dBtxpJls\_G6V8KHF3WzIGso



Scale = 1:65.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	Vert(LL)	-0.31	13-15	>945	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(CT)	-0.49	13-15	>594		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.10	13-15	>999		
	Code IRC2015/TPI2014						Weight: 287 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W5: 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 16=1403/0-3-8 (min. 0-2-0), 12=1403/0-3-8 (min. 0-2-0)  
 Max Horz 16=-397(LC 10)  
 Max Grav 16=1702(LC 2), 12=1702(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1862/0, 3-4=-1151/203, 4-5=-356/191, 7-8=-356/191, 8-9=-1151/203, 9-10=-1861/0,  
 5-6=-150/265, 6-7=-150/265, 2-16=-1912/49, 10-12=-1913/49  
 BOT CHORD 15-16=-365/508, 14-15=0/1211, 13-14=0/1211, 12-13=-87/254  
 WEBS 3-15=0/869, 9-13=0/869, 4-17=-1307/134, 8-17=-1307/134, 2-15=-7/1129, 10-13=-12/1133

**NOTES-**

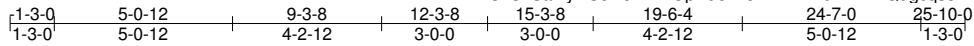
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s).3-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	C2	ROOF TRUSS	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:33 2019 Page 1  
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Scale = 1:65.3

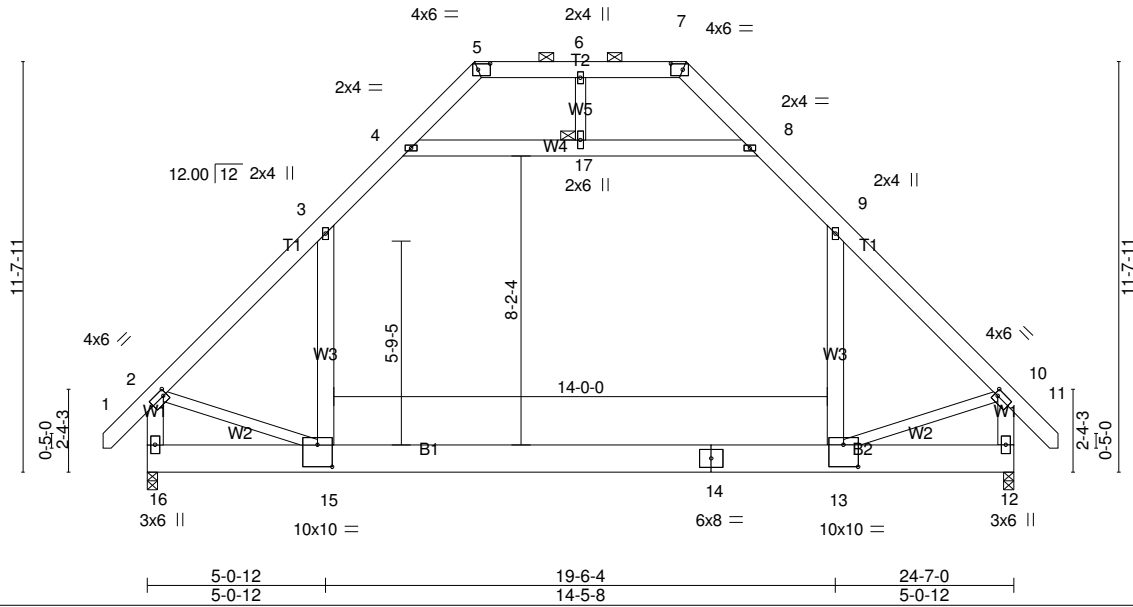


Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [5:0-4-2,0-2-0], [7:0-4-2,0-2-0], [10:0-1-4,0-2-0], [13:0-5-0,0-7-8], [15:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	Vert(LL)	-0.31 13-15	>945	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(CT)	-0.49 13-15	>594	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.08 13-15	>999	240		
	Code IRC2015/TPI2014						Weight: 257 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W5: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 16=1403/0-3-8 (min. 0-2-0), 12=1403/0-3-8 (min. 0-2-0)  
 Max Horz 16=-317(LC 10)  
 Max Grav 16=1702(LC 2), 12=1702(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-1878/0, 3-18=-1724/0, 3-4=-1151/178, 4-5=-356/151, 7-8=-356/151, 8-9=-1151/178,  
 9-19=-1723/0, 10-19=-1877/0, 5-6=-150/265, 6-7=-150/265, 2-16=-1931/49,  
 10-12=-1931/49  
 BOT CHORD 15-16=-278/429, 14-15=0/1205, 13-14=0/1205, 12-13=-42/254  
 WEBS 3-15=0/869, 9-13=0/869, 4-17=-1307/87, 8-17=-1307/87, 2-15=0/1118, 10-13=0/1121

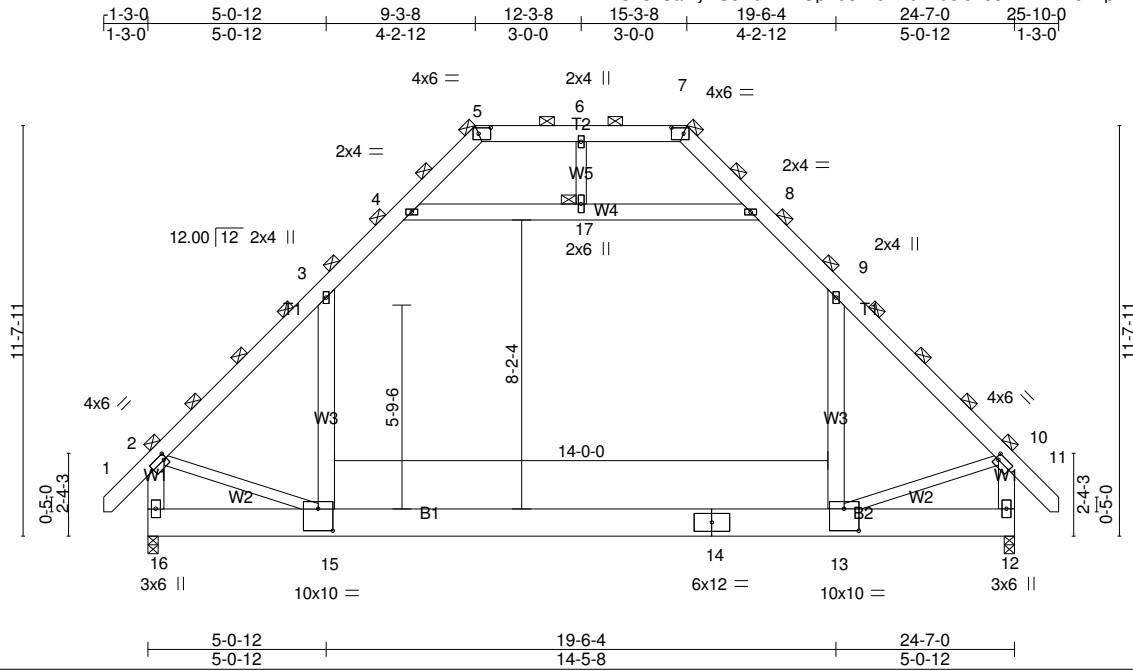
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 9-4-11, Exterior(2) 9-4-11 to 15-2-5, Interior(1) 21-5-0 to 25-8-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 6) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s). 3-15, 9-13
  - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job J0818-3696	Truss C3	Truss Type PIGGYBACK ATTIC	Qty 2	Ply 3	Rice Residence / Harnett
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Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:34 2019 Page 1  
ID:sLcKSalhyHS8R5NWL0pYuoZ4oz2-IDKu5i5h58YllmP2i4ohFpVRRWINBdFxlWvgrzIGsl



Scale = 1:65.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	6-6-0	TC 0.88	Vert(LL)	-0.33	13-15	>873	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.99	Vert(CT)	-0.53	13-15	>549		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.09	13-15	>999		
	Code IRC2015/TPI2014						Weight: 771 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W5: 2x4 SP No.3

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 2-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 5, 7, 2, 10, 17

**REACTIONS.** (lb/size) 16=4560/0-3-8 (min. 0-2-3), 12=4560/0-3-8 (min. 0-2-3)  
 Max Horz 16=-1031(LC 10)  
 Max Grav 16=5533(LC 2), 12=5533(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-6102/0, 3-18=-5602/0, 3-4=-3741/580, 4-5=-1159/490, 7-8=-1159/491,  
 8-9=-3741/578, 9-19=-5600/0, 10-19=-6100/0, 5-6=-490/859, 6-7=-490/859,  
 2-16=-6276/160, 10-12=-6277/158  
 BOT CHORD 15-16=-905/1393, 14-15=0/3917, 13-14=0/3917, 12-13=-137/825  
 WEBS 3-15=0/2822, 9-13=0/2822, 4-17=-4245/282, 8-17=-4245/282, 2-15=0/3634, 10-13=0/3644,  
 6-17=0/365

**NOTES-**

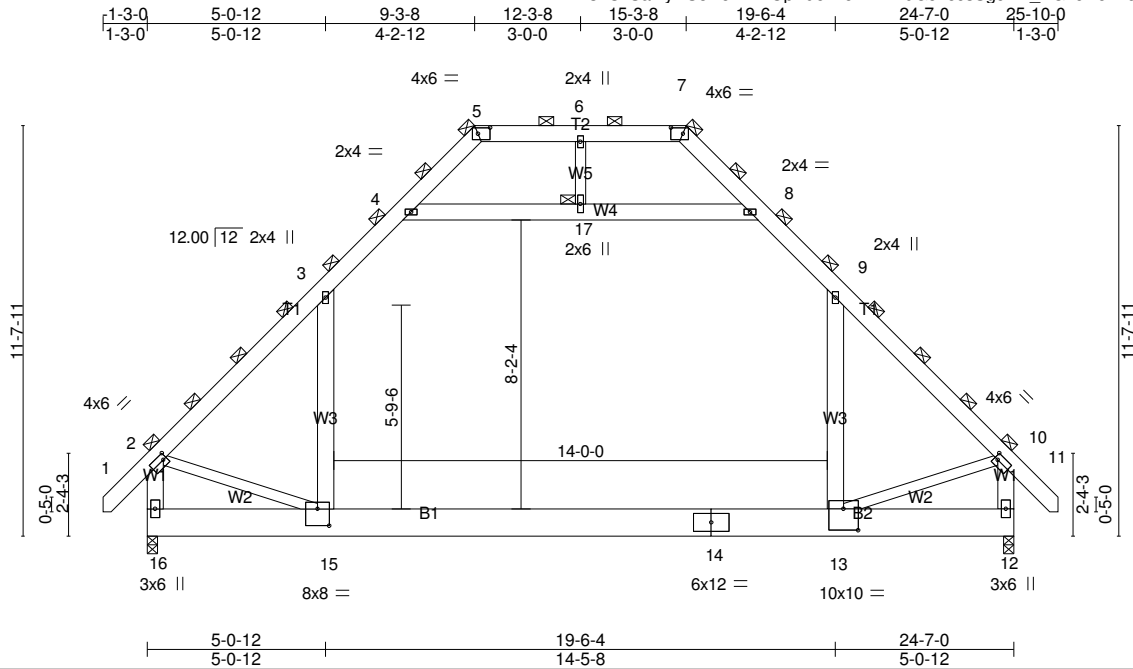
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 9-4-10, Exterior(2) 9-4-10 to 15-2-6, Interior(1) 21-5-1 to 25-8-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s). 3-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	C4	PIGGYBACK ATTIC	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:35 2019 Page 1  
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Scale = 1:65.3

Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [5:0-4-2,0-2-0], [7:0-4-2,0-2-0], [10:0-1-4,0-2-0], [13:0-5-0,0-7-4], [15:0-4-0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	4-0-0	TC 0.89	Vert(LL)	-0.28 13-15	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT)	-0.44 13-15	>656	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.07 13-15	>999	240		
	Code IRC2015/TPI2014						Weight: 514 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP 2400F 2.0E \*Except\*  
 B2: 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W5: 2x4 SP No.3

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 5, 7, 2, 10, 17

**REACTIONS.** (lb/size) 16=2806/0-3-8 (min. 0-1-8), 12=2806/0-3-8 (min. 0-2-0)  
 Max Horz 16=-635(LC 10)  
 Max Grav 16=3405(LC 2), 12=3405(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-3732/0, 3-18=-3424/0, 3-4=-2285/360, 4-5=-717/300, 7-8=-718/301, 8-9=-2287/355,  
 9-19=-3400/0, 10-19=-3707/0, 5-6=-308/514, 6-7=-308/514, 2-16=-3825/106,  
 10-12=-3813/101  
 BOT CHORD 15-16=-541/882, 14-15=0/2382, 13-14=0/2382, 12-13=-86/510  
 WEBS 3-15=0/1710, 9-13=0/1696, 4-17=-2572/180, 8-17=-2572/180, 2-15=0/2176, 10-13=0/2206

**NOTES-**

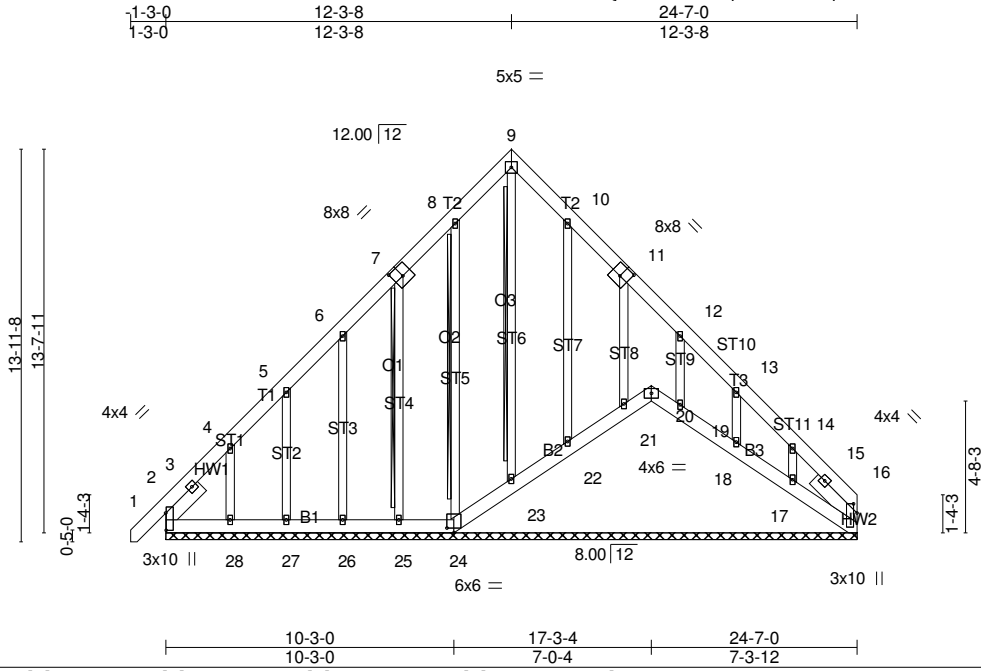
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
- 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; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 9-4-10, Exterior(2) 9-4-10 to 15-2-6, Interior(1) 21-5-1 to 25-8-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s). 3-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D1-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:36 2019 Page 1  
ID:sLcKsAlhyHS8R5NWL0pYuoZ4oz2-qcSeWO6xdmoTX4ZRpVq9KEazLKDRfbaEHc?0lkzIGsj



Scale = 1:81.9

Plate Offsets (X,Y)-- [2:0-7-6,0-0-3], [7:0-4-0,0-4-8], [11:0-4-0,0-4-8], [16:0-3-15,0-1-8], [24:0-3-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Horz(CT) 0.01	16	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 256 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.3 \*Except\*  
ST6,ST5: 2x4 SP No.2  
SLIDER Left 2x6 SP No.1 1-9-1, Right 2x6 SP No.1 2-2-4

**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 - 9-23, 8-24, 7-25  
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 24-7-0.  
(lb) - Max Horz 2=399(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 23, 22 except 2=-199(LC 10),  
20=-196(LC 11), 24=-221(LC 13), 25=-157(LC 12), 26=-145(LC 12), 27=-102(LC 12),  
28=-335(LC 12), 21=-160(LC 13), 19=-140(LC 13), 18=-101(LC 13), 17=-366(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 16, 24, 27, 22, 21, 19, 18 except  
2=399(LC 12), 20=447(LC 13), 23=351(LC 13), 25=256(LC 19), 26=255(LC 19),  
28=276(LC 19), 17=274(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-523/332, 3-4=-513/352, 4-5=-285/240, 7-8=-242/287, 8-9=-300/328, 9-10=-299/327,  
10-11=-245/254, 14-15=-459/289, 15-16=-482/283  
BOT CHORD 2-28=-217/342, 27-28=-219/342, 26-27=-219/343, 25-26=-220/343, 24-25=-221/343,  
23-24=-276/421, 22-23=-276/419, 21-22=-276/419, 20-21=-269/408, 19-20=-269/409,  
18-19=-273/415, 17-18=-275/420, 16-17=-254/395  
WEBS 9-23=-337/252, 4-28=-291/314, 14-17=-310/350

- 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.
  - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 23, 22 except (jt=lb) 2=199, 20=196, 24=221, 25=157, 26=145, 27=102, 28=335, 21=160, 19=140, 18=101, 17=366.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 20, 23, 22, 21, 19, 18, 17.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D1-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:36 2019 Page 2  
ID:sLcKSalhyHS8R5NWLOpYuoZ4oz2-qcSeWO6xdmoTX4ZRpVq9KEazLKDRfbaEHc?0lkzIGsj

**NOTES-**

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

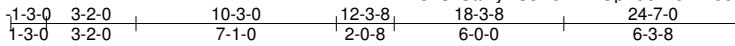
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D2	ROOF SPECIAL	8	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:37 2019 Page 1  
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5x8 ||

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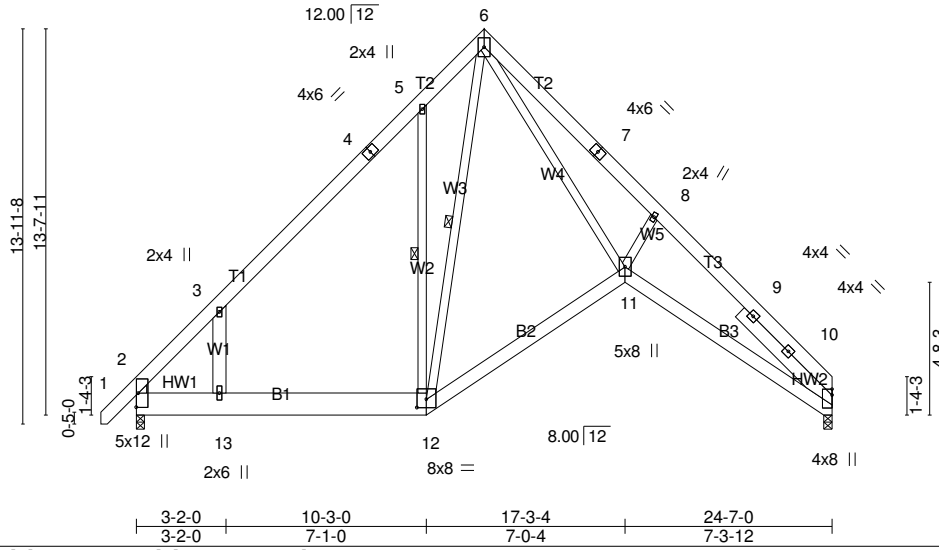


Plate Offsets (X,Y)-- [2:0-0-7,0-0-7], [2:0-0-14,0-3-3], [12:0-4-0,0-3-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.08 11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.17 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.18 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07 12-13	>999	240		
								Weight: 238 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* B1: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W4,W5: 2x4 SP No.3, W1: 2x6 SP No.1	WEBS 1 Row at midpt 5-12, 6-12
WEDGE Left: 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
SLIDER Right 2x6 SP No.1 4-7-6	

**REACTIONS.** (lb/size) 2=1046/0-3-8 (min. 0-1-8), 10=965/0-3-8 (min. 0-1-8)  
 Max Horz2=320(LC 11)  
 Max Uplift2=-45(LC 12), 10=-36(LC 12)  
 Max Grav2=1178(LC 19), 10=965(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1143/0, 3-14=-1025/244, 14-15=-999/273, 4-15=-849/286, 4-5=-825/305,  
 5-6=-1172/583, 6-7=-2047/441, 7-16=-2061/407, 8-16=-2100/394, 8-17=-2171/287,  
 9-17=-2263/260, 9-10=-2374/250  
 BOT CHORD 2-13=-48/750, 12-13=-48/751, 11-12=-34/814, 10-11=-58/1801  
 WEBS 5-12=-534/410, 6-11=-117/1673, 8-11=-283/328, 6-12=-544/709, 3-13=-414/387

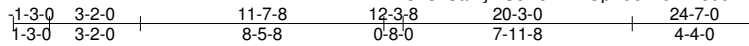
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 12-3-8, Exterior(2) 12-3-8 to 16-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D3	ROOF SPECIAL	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:37 2019 Page 1  
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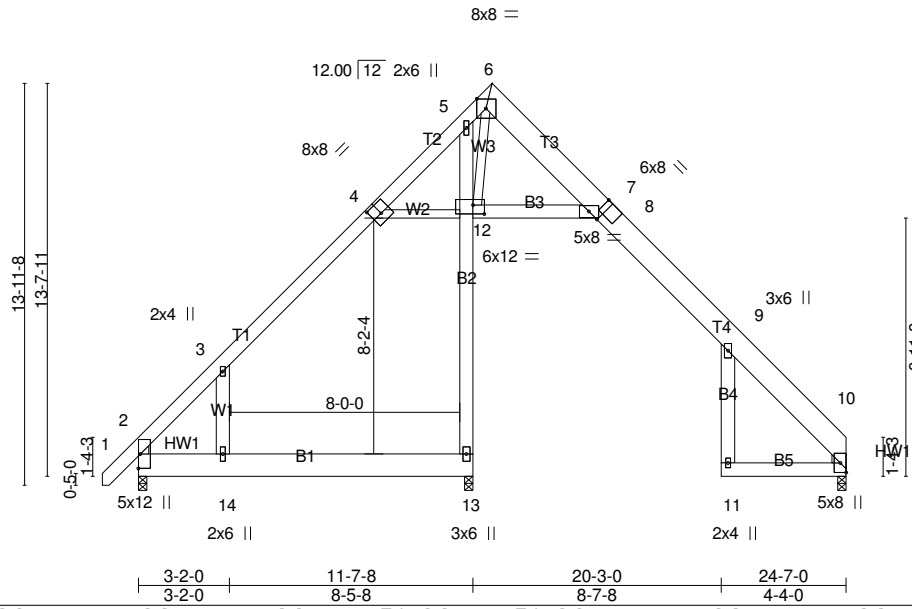


Plate Offsets (X,Y)-- [2:0-0-7,0-0-7], [2:0-0-14,0-3-3], [4:0-4-0,0-4-8], [6:0-3-12,Edge], [8:0-2-5,Edge], [10:0-2-7,0-4-12], [10:0-1-3,0-1-3], [12:0-4-12,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL)	-0.11	11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(CT)	-0.18	11	>888		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Horz(CT)	0.12	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.11	11	>999		
	Code IRC2015/TPI2014						Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T3,T4: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* B1: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W1: 2x6 SP No.1	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

REACTIONS. (lb/size) 2=377/0-3-8 (min. 0-1-8), 13=1211/0-3-8 (min. 0-1-13), 10=341/0-3-8 (min. 0-1-8)  
 Max Horz 2=318(LC 11)  
 Max Uplift 2=-212(LC 13), 13=-61(LC 9), 10=-206(LC 13)  
 Max Grav 2=601(LC 20), 13=1548(LC 19), 10=412(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-503/462, 3-15=-283/361, 15-16=-279/399, 4-16=-208/400, 4-5=-192/835, 5-6=0/601,  
 6-7=-17/575, 7-8=-328/368, 8-17=-190/319, 17-18=-239/287, 9-18=-245/283,  
 9-10=-378/287  
 BOT CHORD 12-13=-1152/52, 5-12=-329/221, 7-12=-600/428  
 WEBS 6-12=-825/34, 3-14=-194/284, 4-12=-691/400

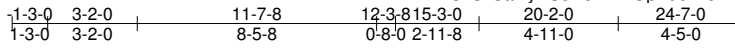
- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 12-2-3, Exterior(2) 12-2-3 to 16-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=212, 10=206.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D4	ROOF SPECIAL	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:38 2019 Page 1  
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4x6 =

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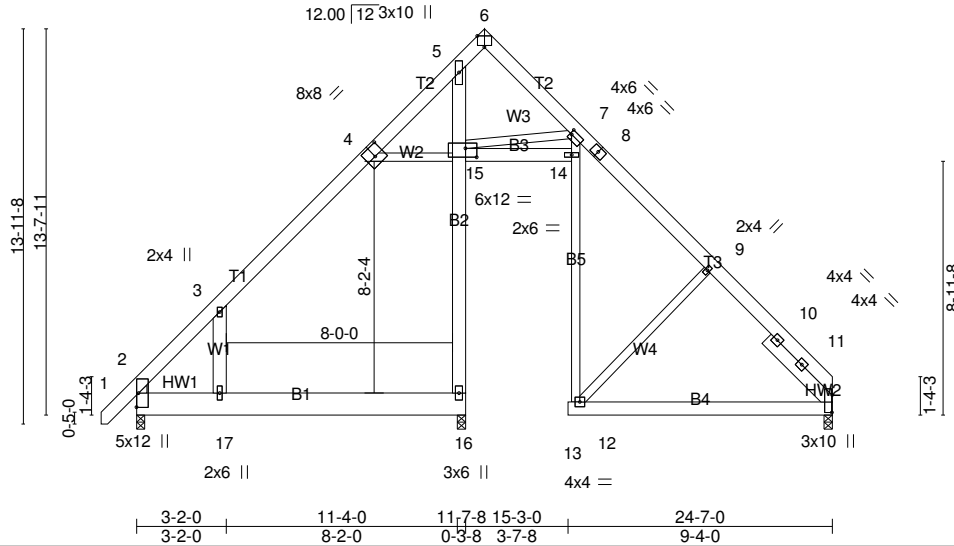


Plate Offsets (X,Y)-- [2:0-0-7,0-0-7], [2:0-0-14,0-3-3], [4:0-4-0,0-4-8], [6:0-3-0,Edge], [7:0-0-12,0-2-0], [11:0-7-6,0-0-3], [15:0-4-12,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL) -0.14	13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.89	Vert(CT) -0.23	13	>684	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Horz(CT) 0.18	11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.08	13	>999	240		
	Code IRC2015/TPI2014						Weight: 239 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B1: 2x10 SP No.1, B5: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 W1: 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.3  
 SLIDER Right 2x6 SP No.1 3-2-10

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
 10-0-0 oc bracing: 12-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=378/0-3-8 (min. 0-1-8), 16=1261/0-3-8 (min. 0-1-14), 11=398/0-3-8 (min. 0-1-8)  
 Max Horz 2=320(LC 11)  
 Max Uplift 2=-240(LC 13), 16=-3(LC 9), 11=-198(LC 13)  
 Max Grav 2=603(LC 20), 16=1592(LC 19), 11=468(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-504/469, 3-18=-282/381, 18-19=-279/419, 4-19=-211/420, 4-5=-156/781, 6-7=0/512,  
 7-8=-411/425, 8-20=-416/419, 9-20=-468/415, 9-10=-466/380, 10-11=-510/355  
 BOT CHORD 15-16=-1194/0, 5-15=-1010/86, 14-15=0/314, 12-14=-75/340, 7-14=-64/341  
 WEBS 7-15=-647/219, 3-17=-192/314, 9-12=-344/176, 4-15=-601/337

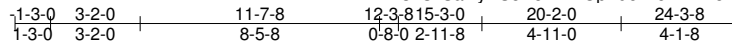
**NOTES-**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 12-3-8, Exterior(2) 12-3-8 to 16-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.  
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=240, 11=198.  
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D5	ROOF SPECIAL	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:39 2019 Page 1  
 ID:sLcKSalhyHS8R5NWLOpYuoaz4oz2-EB8n9Q8pwhA2OXH0VdOsysCQUX0osxVgzaDgM3ziGsg



4x6 =

Scale = 1:81.4

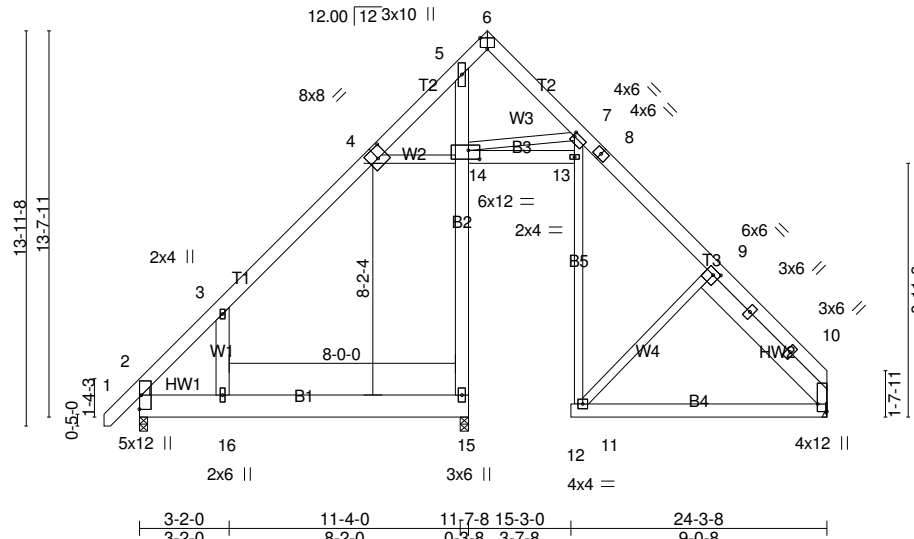


Plate Offsets (X,Y)-- [2:0-0-7,0-0-7], [2:0-0-14,0-3-3], [4:0-4-0,0-4-8], [6:0-3-0,Edge], [7:0-0-12,0-1-12], [9:0-2-8,0-2-4], [10:Edge,0-3-14], [14:0-4-12,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL) -0.13	12	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(CT) -0.22	12	>704	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Horz(CT) 0.18	10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.07	12	>999	240		
	Code IRC2015/TPI2014						Weight: 249 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B1: 2x10 SP No.1, B5: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 W1: 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.3  
 SLIDER Right 2x8 SP No.1 6-0-12

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
 10-0-0 oc bracing: 11-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=383/0-3-8 (min. 0-1-8), 15=1243/0-3-8 (min. 0-1-14), 10=388/Mechanical  
 Max Horz 2=320(LC 11)  
 Max Uplift 2=-242(LC 13), 15=-12(LC 9), 10=-202(LC 13)  
 Max Grav 2=609(LC 20), 15=1582(LC 19), 10=460(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-505/469, 3-17=-290/383, 17-18=-287/421, 4-18=-219/423, 4-5=-164/775, 6-7=0/503,  
 7-8=-416/426, 8-19=-421/419, 19-20=-467/416, 9-20=-473/385, 9-10=-501/369  
 BOT CHORD 14-15=-1182/0, 5-14=-1002/93, 13-14=0/317, 11-13=-66/331, 7-13=-55/336  
 WEBS 7-14=-630/212, 3-16=-192/309, 9-11=-337/161, 4-14=-593/336

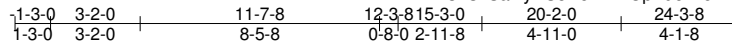
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 12-3-8, Exterior(2) 12-3-8 to 16-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 2=242, 10=202.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D6	ROOF SPECIAL	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:40 2019 Page 1  
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4x6 =

Scale = 1:81.4

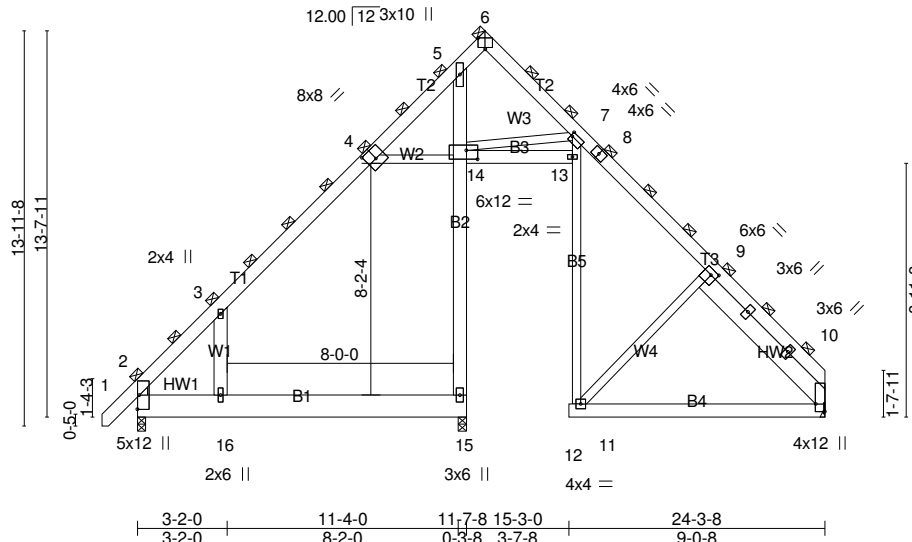


Plate Offsets (X,Y)-- [2:0-0-7,0-0-7], [2:0-0-13,0-3-3], [4:0-4-0,0-4-8], [6:0-3-0,Edge], [7:0-0-12,0-1-12], [9:0-2-8,0-2-4], [10:Edge,0-3-13], [14:0-4-12,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	4-0-0	TC 0.39	Vert(LL)	-0.13	12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(CT)	-0.22	12	>704		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Horz(CT)	0.18	10	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.07	12	>999		
	Code IRC2015/TPI2014						Weight: 497 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B1: 2x10 SP No.1, B5: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 W1: 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.3  
 SLIDER Right 2x8 SP No.1 6-0-12

**BRACING-**  
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.)  
 (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
 10-0-0 oc bracing: 11-13

**REACTIONS.** (lb/size) 2=766/0-3-8 (min. 0-1-8), 15=2485/0-3-8 (min. 0-1-14), 10=777/Mechanical  
 Max Horz 2=641(LC 11)  
 Max Uplift 2=-484(LC 13), 15=-24(LC 9), 10=-403(LC 13)  
 Max Grav 2=1219(LC 20), 15=3164(LC 19), 10=919(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1010/939, 3-17=-580/767, 17-18=-574/843, 4-18=-439/845, 4-5=-328/1549,  
 6-7=0/1007, 7-8=-832/852, 8-19=-843/839, 19-20=-933/833, 9-20=-946/771,  
 9-10=-1001/738  
 BOT CHORD 14-15=-2364/0, 5-14=-2003/186, 13-14=0/632, 11-13=-131/662, 7-13=-111/672,  
 10-11=-207/484  
 WEBS 7-14=-1259/424, 3-16=-385/619, 9-11=-674/322, 4-14=-1185/672

- 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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 12-3-8, Exterior(2) 12-3-8 to 16-8-5 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 with a clearance greater than 6-0-0 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) 15 except (jt=lb) 2=484, 10=403.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	D6	ROOF SPECIAL	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

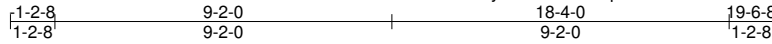
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**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	E1-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:41 2019 Page 1  
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5x8 =

Scale = 1:62.6

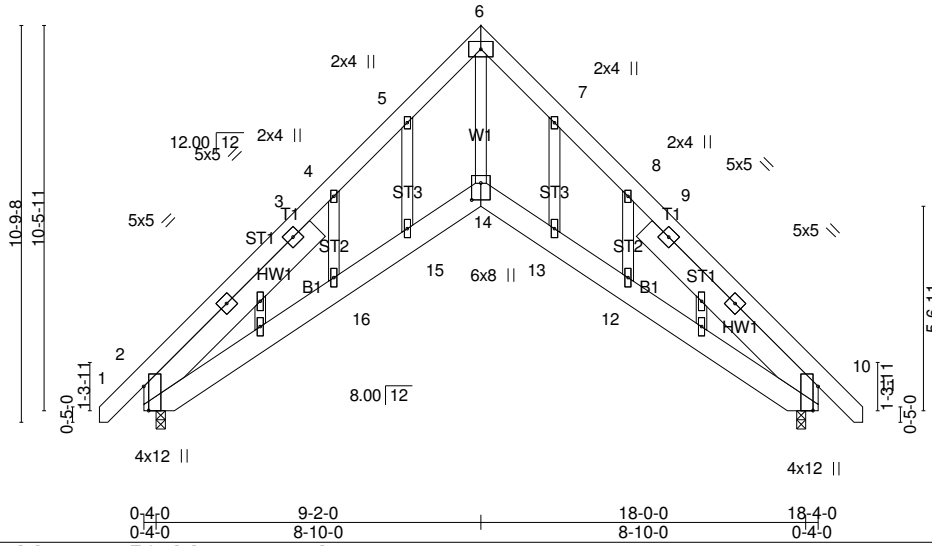


Plate Offsets (X,Y)-- [2:0-7-14,Edge], [10:0-7-14,Edge], [14:0-5-8,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	0.08	16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.07	12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.09	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 204 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x8 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
 SLIDER Left 2x8 SP No.1 6-8-11, Right 2x8 SP No.1 6-8-11

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=792/0-3-0 (min. 0-1-8), 10=792/0-3-0 (min. 0-1-8)  
 Max Horz 2=307(LC 11)  
 Max Uplift 2=140(LC 12), 10=140(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1353/668, 3-4=-1183/693, 4-5=-1128/733, 5-6=-1070/811, 6-7=-1059/801,  
 7-8=-1119/727, 8-9=-1183/682, 9-10=-1348/657  
 BOT CHORD 2-16=-245/1028, 15-16=-254/1078, 14-15=-276/1133, 13-14=-165/1046, 12-13=-211/1039,  
 10-12=-302/1056  
 WEBS 6-14=-874/1228, 8-12=-228/286

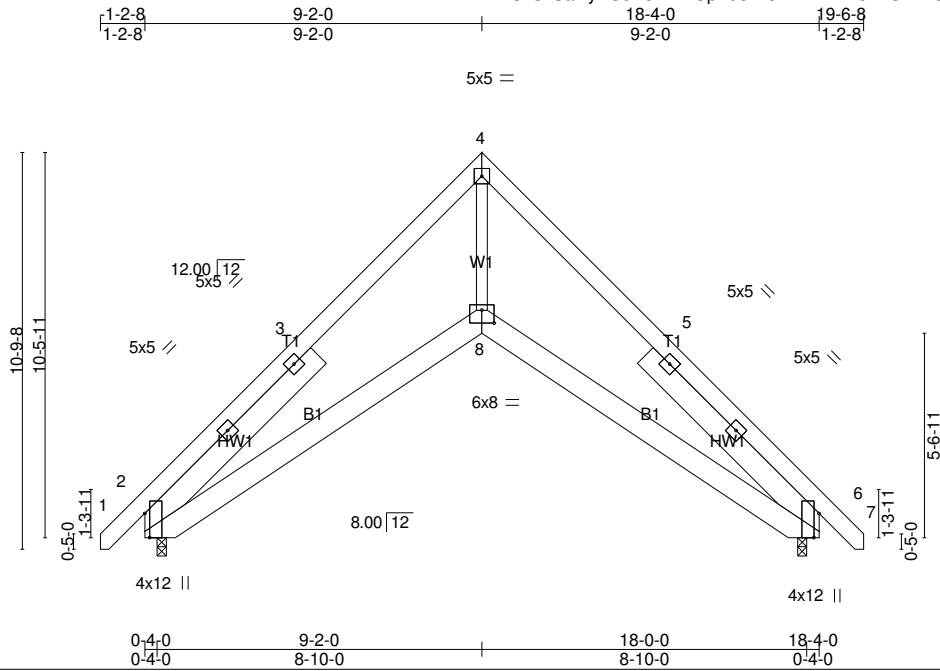
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x6 MT20 unless otherwise indicated.
  - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=140, 10=140.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	E2	SCISSORS	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:41 2019 Page 1  
 ID:sLcKsAlhyHS8R5NWLOpYuoZ4oz2-AZFZX5A4SIRmerROc2QK1HHmMLtuKnyzRtinQxzIGse



Scale = 1:62.6

Plate Offsets (X,Y)-- [2:0-7-14,Edge], [6:0-7-14,Edge], [8:0-4-0-0-4-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	0.08	2-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.08	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.13	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 185 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x8 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x8 SP No.1 6-8-11, Right 2x8 SP No.1 6-8-11

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=792/0-3-0 (min. 0-1-8), 6=792/0-3-0 (min. 0-1-8)  
 Max Horz 2=246(LC 11)  
 Max Uplift 2=101(LC 8), 6=101(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-1318/573, 3-9=-1215/575, 3-10=-1146/591, 4-10=-1073/630, 4-11=-1087/622,  
 5-11=-1136/583, 5-12=-1205/567, 6-12=-1308/565  
 BOT CHORD 2-8=-174/1036, 6-8=-158/1013  
 WEBS 4-8=-562/1188

- 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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 9-2-0, Exterior(2) 9-2-0 to 13-6-13 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 6=101.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

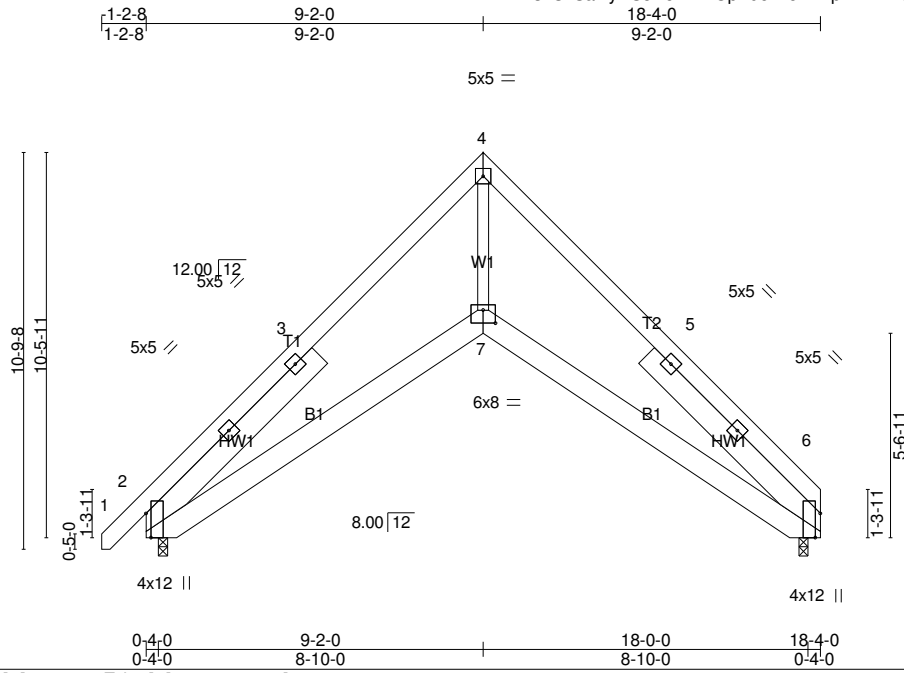
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	E3	SCISSORS	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:42 2019 Page 1  
ID:sLcKSalhyHS8R5NWL0pYuoZ4oz2-flpvnrBIDcZdF?0aAlxZaVqxtlD53E66gXSKyOziGsd



Scale = 1:62.6

Plate Offsets (X,Y)-- [2:0-7-14,Edge], [6:0-7-14,Edge], [7:0-4-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL)	0.08	2-7	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	-0.08	2-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Horz(CT)	0.13	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code IRC2015/TPI2014							Weight: 181 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x8 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x8 SP No.1 6-8-11, Right 2x8 SP No.1 6-8-11

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=703/0-3-0 (min. 0-1-8), 2=796/0-3-0 (min. 0-1-8)  
 Max Horz 2=245(LC 9)  
 Max Uplift 6=97(LC 9), 2=101(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-8=-1330/584, 3-8=-1227/587, 3-9=-1158/603, 4-9=-1085/641, 4-10=-1090/637,  
 5-10=-1145/597, 5-6=-1316/580  
 BOT CHORD 2-7=-180/1038, 6-7=-166/1016  
 WEBS 4-7=-580/1201

- 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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 9-2-0, Exterior(2) 9-2-0 to 13-6-13 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=101.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	E4	SCISSORS	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:43 2019 Page 1  
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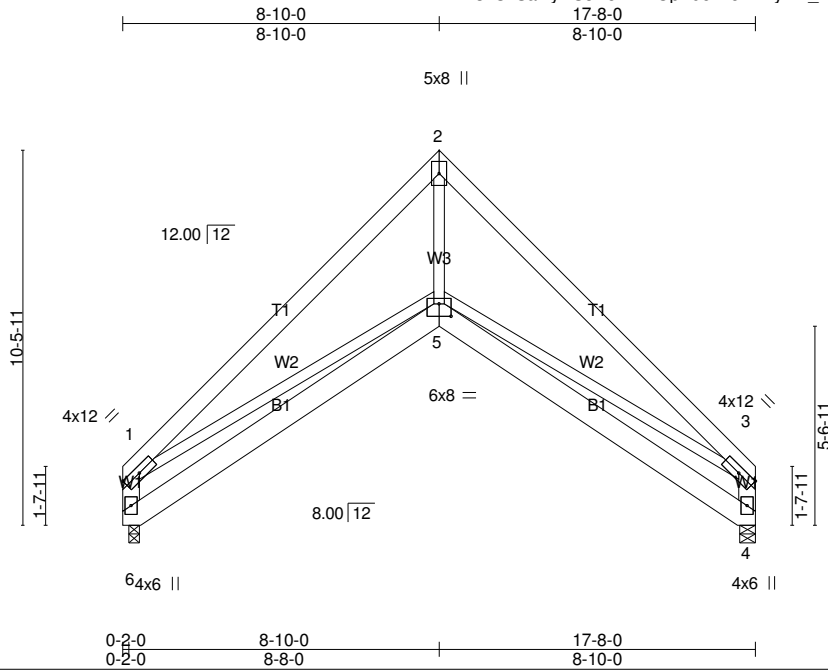


Plate Offsets (X,Y)-- [1:0-5-12,Edge], [3:0-5-12,Edge], [5:0-4-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL) 0.09	4-5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT) -0.08	4-5	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Horz(CT) 0.10	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							
							Weight: 166 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
W1: 2x6 SP No.1

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=688/0-3-8 (min. 0-1-8), 4=688/0-5-4 (min. 0-1-8)  
Max Horz 6=-206(LC 8)  
Max Uplift 6=-95(LC 8), 4=-95(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-7=-1254/637, 2-7=-1067/676, 2-8=-1063/669, 3-8=-1246/631, 1-6=-767/637, 3-4=-765/634  
BOT CHORD 5-6=-365/569, 4-5=-262/396  
WEBS 2-5=-634/994, 1-5=0/550, 3-5=-184/669

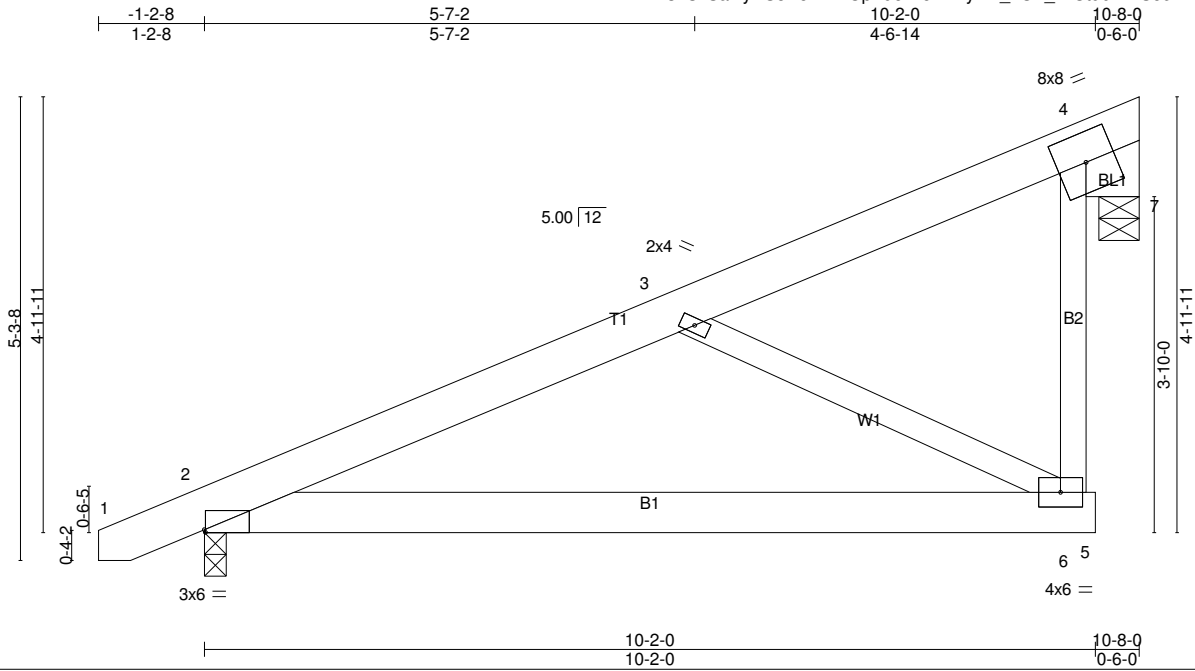
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-10-0, Exterior(2) 8-10-0 to 13-2-13 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 5) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	F1	MONOPITCH	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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ID:sLcKSalhyHS8R5NWL0pYuoZ4oz2-7yNH\_nCK\_vhUf9bnkTSo6iNAu9UZolzGuBBtVqziGsc



Scale = 1:26.3

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.08	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.16	2-6	>721	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.17	2-6	>693	240		
									Weight: 69 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
B2: 2x4 SP No.3  
WEBS 2x4 SP No.3  
OTHERS 2x8 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-1-3 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=465/0-3-0 (min. 0-1-8), 7=393/0-5-8 (min. 0-1-8)  
Max Horz 2=208(LC 8)  
Max Uplift 2=101(LC 8), 7=-144(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-474/62, 3-8=-408/85  
BOT CHORD 2-9=-544/401, 6-9=-544/401, 6-7=-415/288  
WEBS 3-6=-420/404

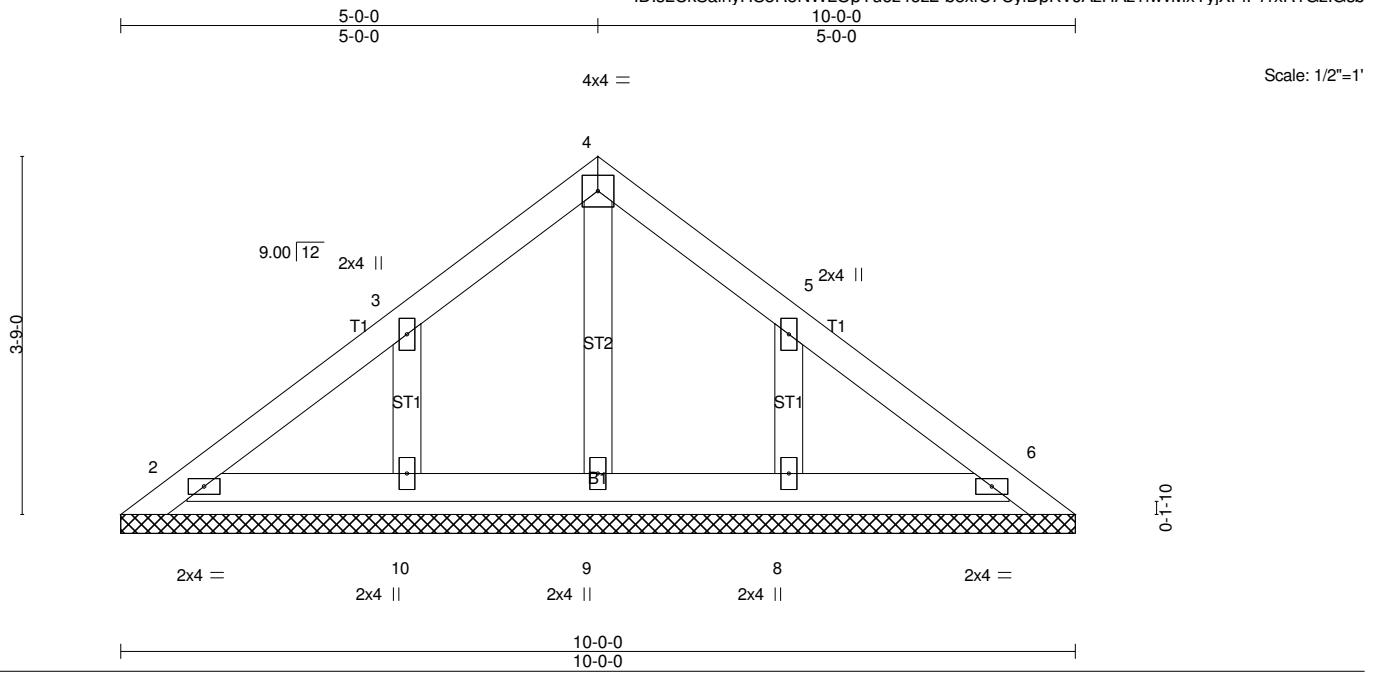
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 9-11-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 7=144.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	PB1-GE	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 40 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 10-0-0.  
(lb) - Max Horz 1=107(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except 10=-119(LC 12), 8=-119(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

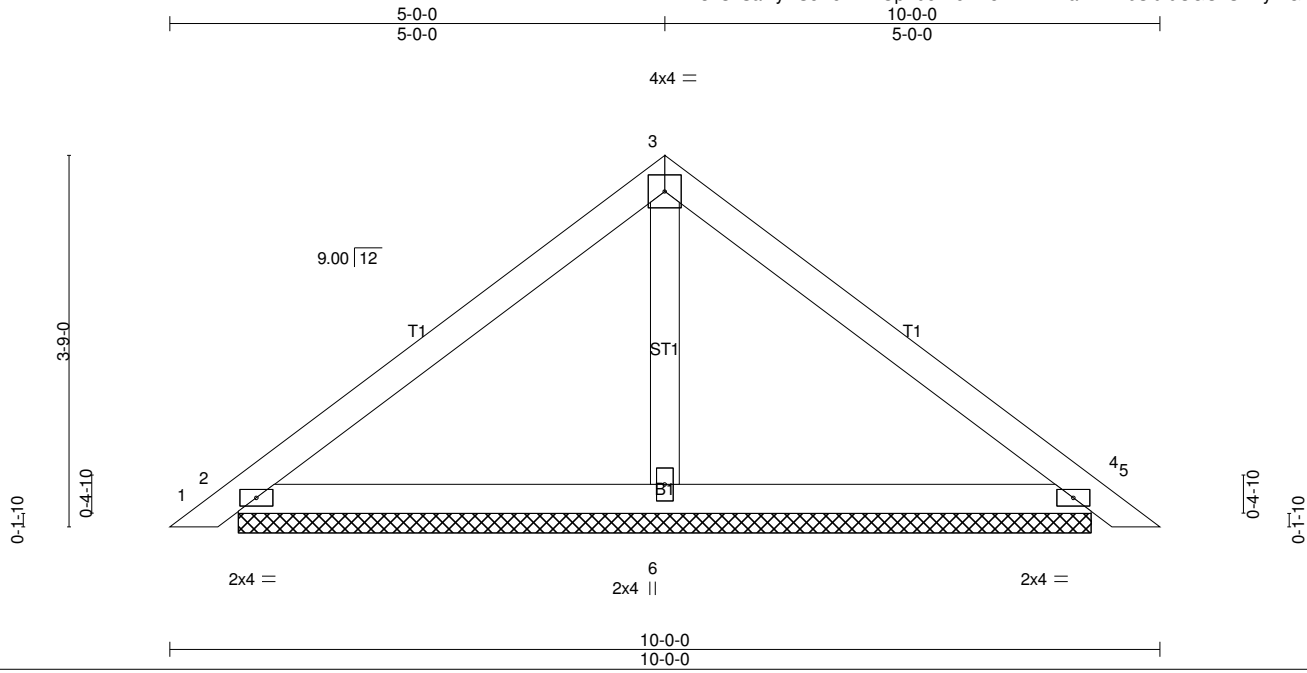
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions 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 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=119, 8=119.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	PB2	PIGGYBACK	18	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.01 5 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) 0.02 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 36 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=224/8-7-5 (min. 0-1-8), 4=224/8-7-5 (min. 0-1-8), 6=295/8-7-5 (min. 0-1-8)  
Max Horz 2=-86(LC 10)  
Max Uplift 2=-38(LC 12), 4=-46(LC 13)

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

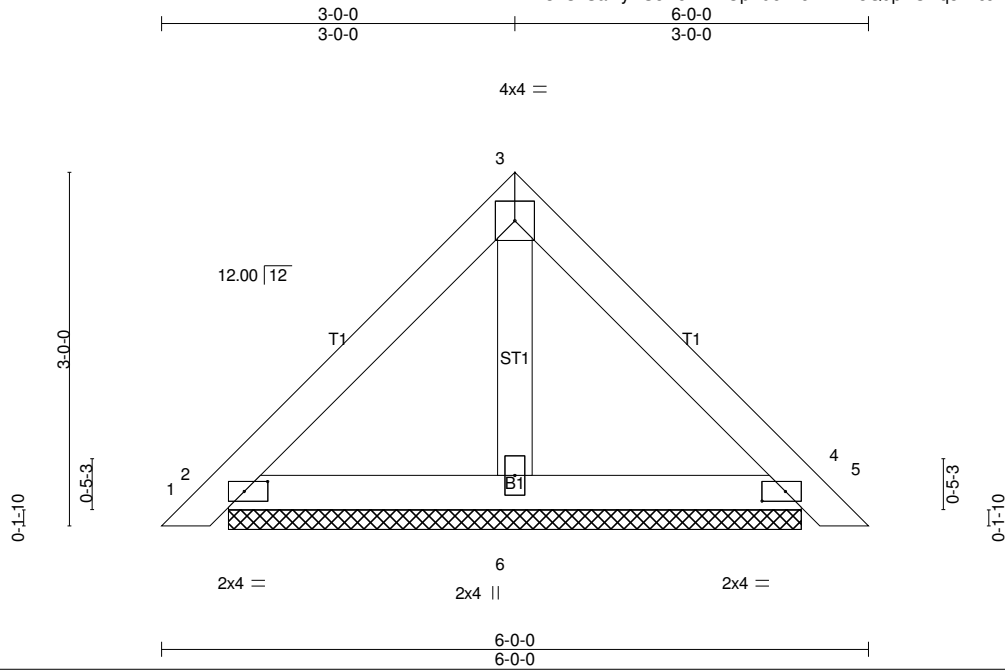
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-15 to 4-7-11, Interior(1) 4-7-11 to 5-0-0, Exterior(2) 5-0-0 to 9-3-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0-0 between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	PB3-GE	PIGGYBACK	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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Scale = 1:19.6

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

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 0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=143/4-10-6 (min. 0-1-8), 4=143/4-10-6 (min. 0-1-8), 6=146/4-10-6 (min. 0-1-8)  
 Max Horz 2=-84(LC 10)  
 Max Uplift 2=-48(LC 13), 4=-54(LC 13)  
 Max Grav 2=143(LC 1), 4=143(LC 1), 6=150(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
  - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	PB4	PIGGYBACK	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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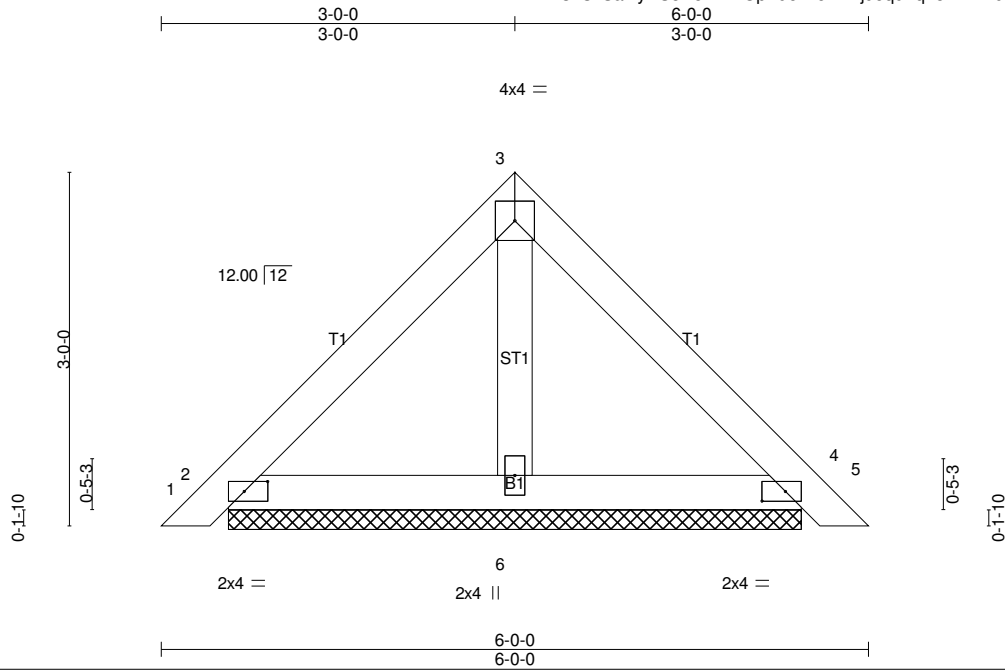


Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

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 0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=143/4-10-6 (min. 0-1-8), 4=143/4-10-6 (min. 0-1-8), 6=146/4-10-6 (min. 0-1-8)  
 Max Horz 2=67(LC 10)  
 Max Uplift 2=24(LC 13), 4=28(LC 13)  
 Max Grav 2=143(LC 1), 4=143(LC 1), 6=150(LC 3)

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

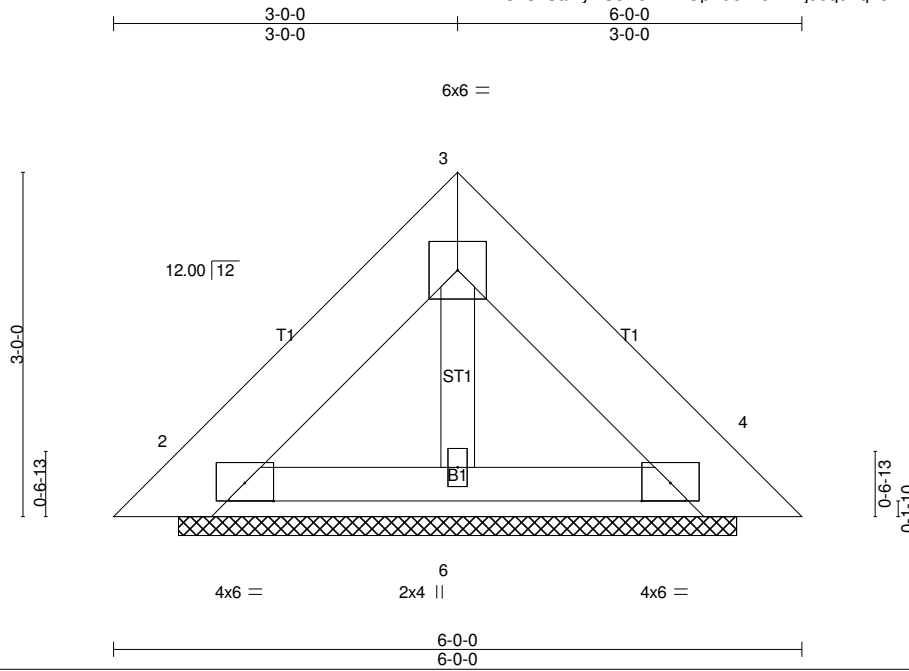
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber 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 20.0psf on the bottom chord in all areas with a clearance greater than 6'-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	PB5	PIGGYBACK	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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Scale = 1:20.1

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 35 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x8 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 4-10-6.  
(lb) - Max Horz 1=-62(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

**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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

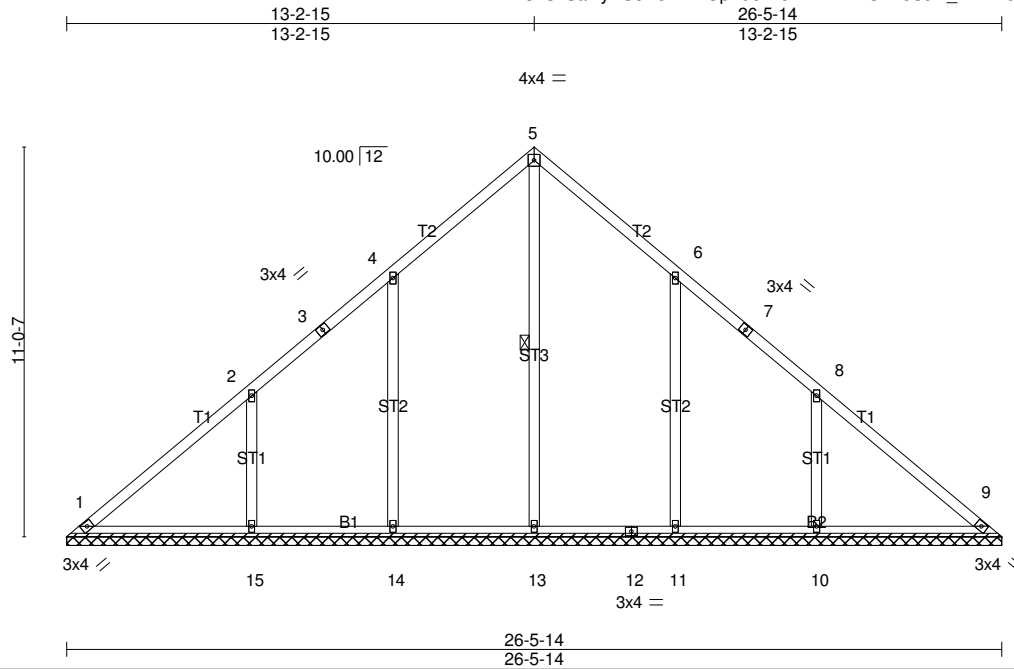
**LOAD CASE(S)** Standard



Job J0818-3696	Truss VA-2	Truss Type GABLE	Qty 1	Ply 1	Rice Residence / Harnett
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Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:48 2019 Page 1  
ID:sLcKsAlhyHS8R5NWLOpYuo4oz2-TvBA1UFToSJm\_wTkW02zpm4\_AAHzt\_C?2TveA1zIGsX



Scale = 1:65.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							
							Weight: 137 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3 \*Except\*  
ST3: 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 1 Row at midpt 5-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 26-5-14.  
(lb) - Max Horz 1=-257(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 14=-125(LC 12), 15=-159(LC 12), 11=-125(LC 13), 10=-159(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 13=387(LC 22), 14=472(LC 19), 15=510(LC 19), 11=471(LC 20), 10=510(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 4-5=-261/241, 5-6=-261/241  
WEBS 4-14=-320/231, 2-15=-407/278, 6-11=-320/231, 8-10=-407/278

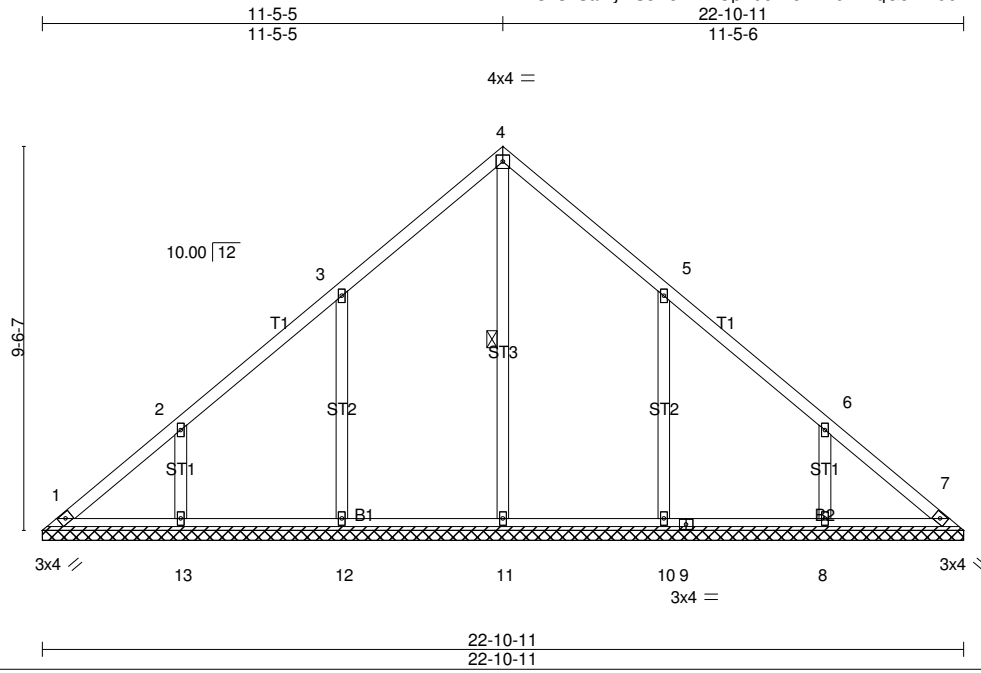
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 13-2-15, Exterior(2) 13-2-15 to 17-7-12 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 14=125, 15=159, 11=125, 10=159.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-3	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:49 2019 Page 1  
ID:sLcKSalhyHS8R5NWLOpYuoZ4oz2-x6kYFqG5ZIRdb42x4jZCMzdA?ZdBCt28H7eCiUzIGsW



Scale = 1:57.2

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 0.14	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 114 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 22-10-11.  
(lb) - Max Horz 1=221(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=138(LC 12), 13=119(LC 12), 10=137(LC 13), 8=119(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=381(LC 22), 12=436(LC 19), 13=333(LC 19), 10=435(LC 20), 8=333(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 3-12=-350/249, 2-13=-310/227, 5-10=-350/249, 6-8=-310/227

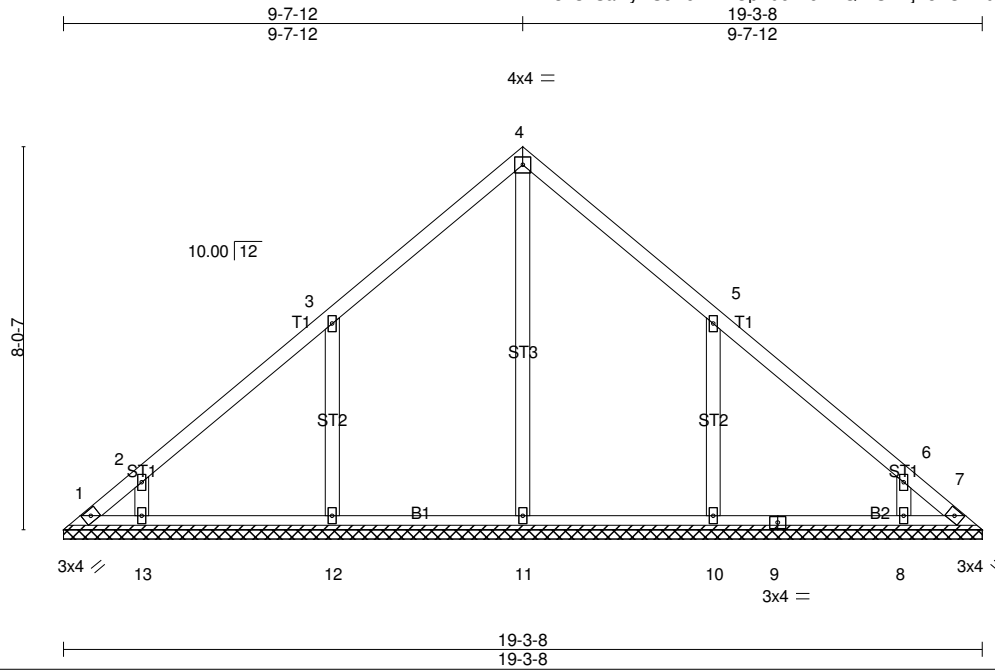
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 11-5-5, Exterior(2) 11-5-5 to 15-10-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCdL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=138, 13=119, 10=137, 8=119.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-4	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:50 2019 Page 1  
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Scale: 1/4"=1'

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
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 0.14	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: 90 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 19-3-8.  
(lb) - Max Horz 1=-185(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13 except 12=-141(LC 12), 10=-141(LC 13), 8=-100(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=365(LC 22), 12=445(LC 19), 13=276(LC 19), 10=445(LC 20), 8=276(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-12=-357/254, 2-13=-273/218, 5-10=-357/254, 6-8=-273/218

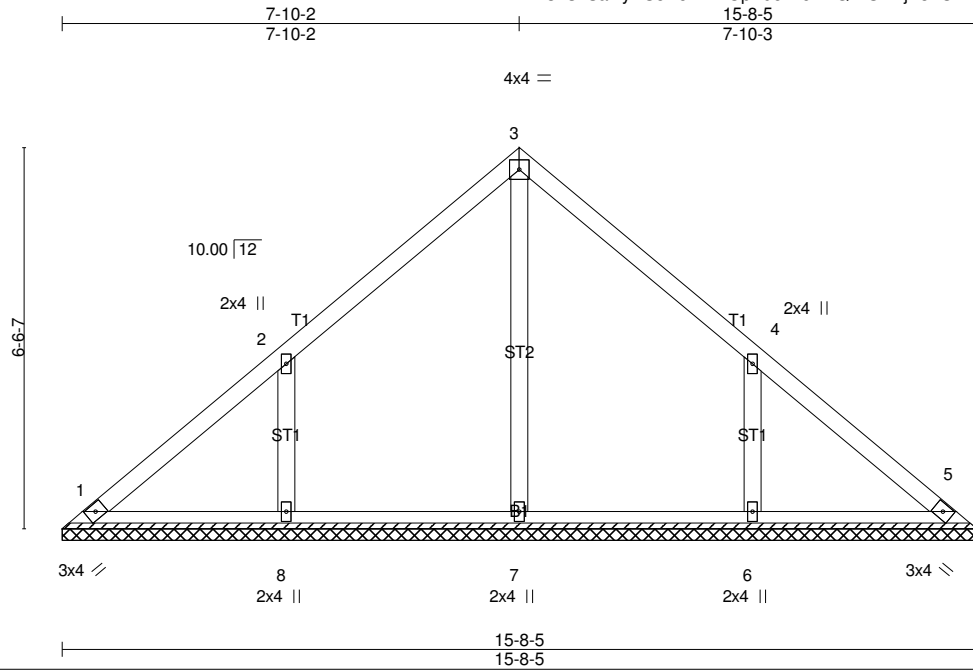
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-7-12, Exterior(2) 9-7-12 to 14-0-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13 except (jt=lb) 12=141, 10=141, 8=100.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-5	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:50 2019 Page 1  
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Scale = 1:39.5

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 69 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 15-8-5.  
(lb) - Max Horz 1=-149(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-142(LC 12), 6=-142(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=389(LC 19), 6=389(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-355/254, 4-6=-355/254

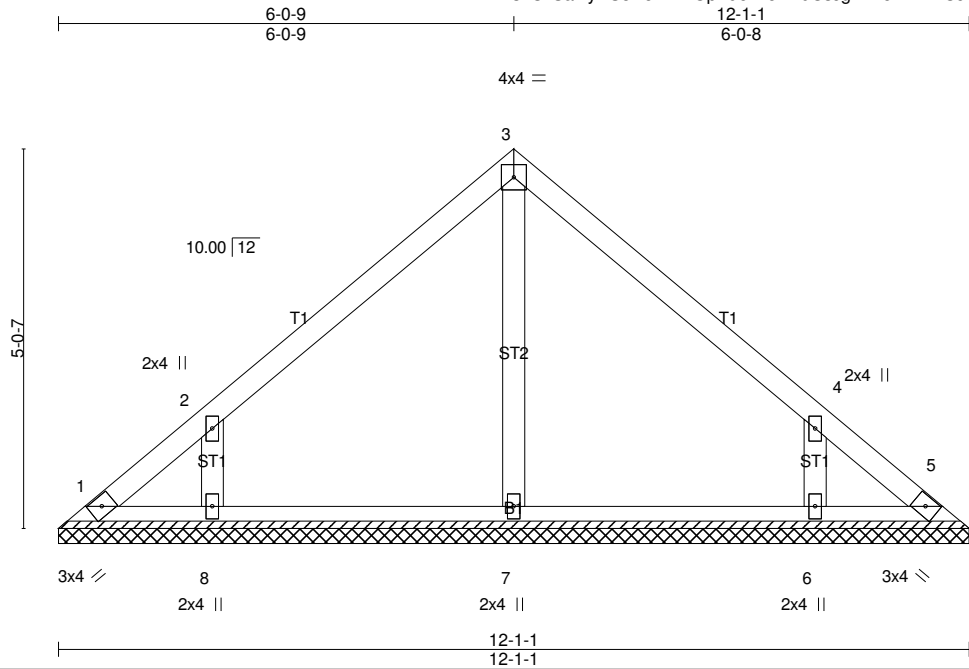
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-10-2, Exterior(2) 7-10-2 to 12-2-15 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=142, 6=142.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-6	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:51 2019 Page 1  
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Scale = 1:30.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 50 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 12-1-1.  
(lb) - Max Horz 1=-113(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-123(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 19), 6=324(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-313/244, 4-6=-313/244

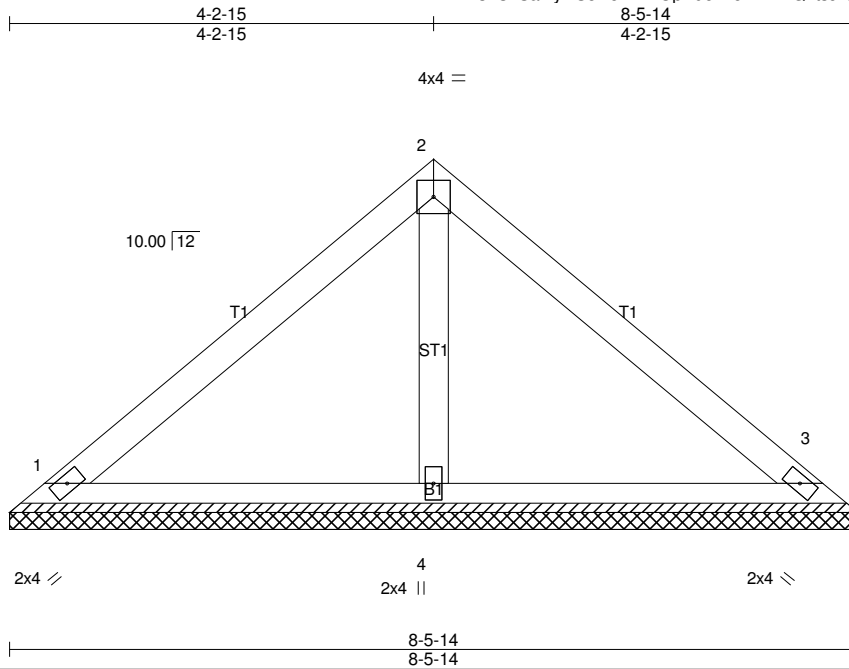
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-0-9, Exterior(2) 6-0-9 to 10-5-5 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=123, 6=123.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-7	VALLEY	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:52 2019 Page 1  
 ID:sLcKSalhyHS8R5NWL0pYuoZ4oz2-MhQhTsJzsgpCSXnVIs6w\_cEgBnfMPtiaz5tsJozIGsT



Scale = 1:23.1

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 32 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=180/8-5-14 (min. 0-1-8), 3=180/8-5-14 (min. 0-1-8), 4=256/8-5-14 (min. 0-1-8)  
 Max Horz 1=-77(LC 10)  
 Max Uplift 1=-27(LC 12), 3=-34(LC 13)

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

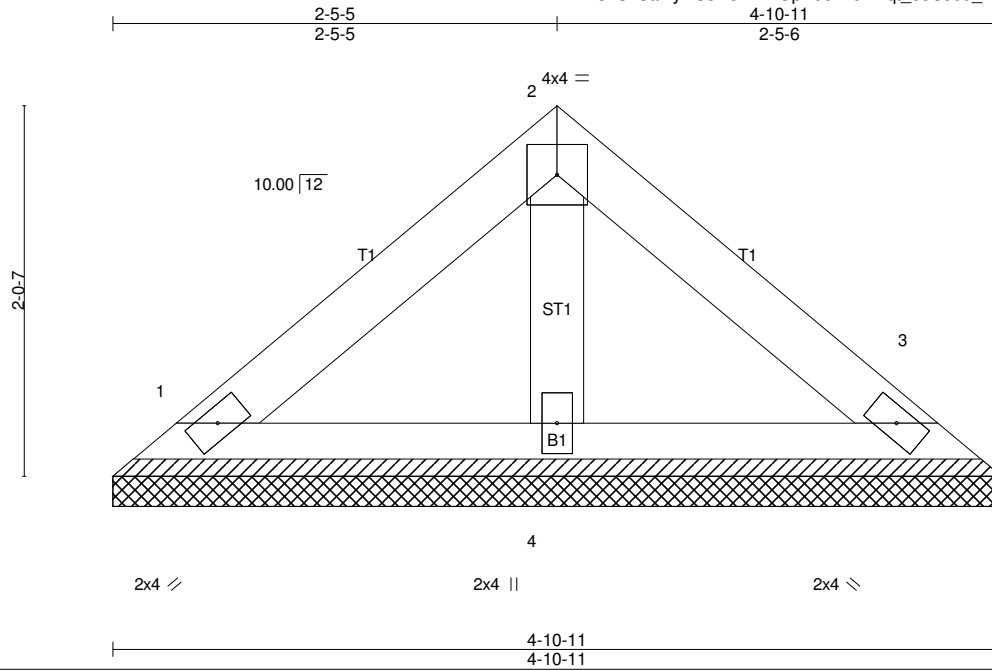
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-8	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:53 2019 Page 1  
ID:sLcKsAlhyHS8R5NWLOpYuoZ4oz2-qt\_35CJbd\_x34hMijZe9WpnuSB0p8KKkBlcPrFzIGsS



Scale = 1:12.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 17 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=95/4-10-11 (min. 0-1-8), 3=95/4-10-11 (min. 0-1-8), 4=136/4-10-11 (min. 0-1-8)  
Max Horz 1=-41(LC 8)  
Max Uplift 1=-14(LC 12), 3=-18(LC 13)

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

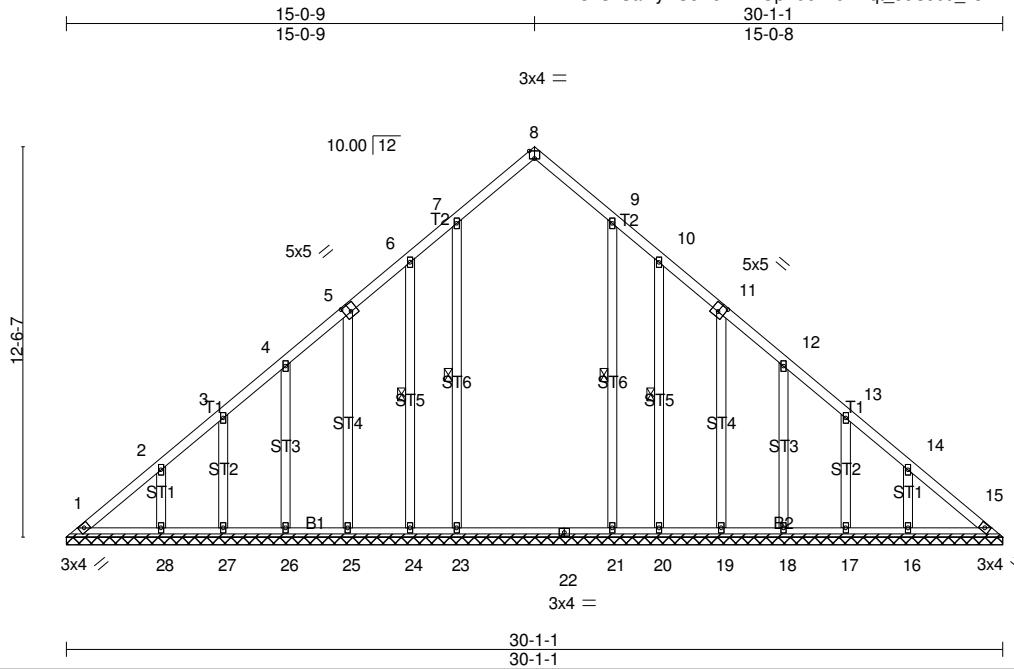
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VA-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:53 2019 Page 1  
ID:sLcKSalhyHS8R5NWL0pYuo24oz2-qt\_35CJbd\_x34hMiJZe9WpntsB\_k811kBlcPrFzIGsS



Scale = 1:74.0

Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [8:0-2-0,Edge], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-2-8,0-3-0], [12:0-0-0,0-0-0], [13:0-0-0,0-0-0], [14:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT)	0.02	15	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 210 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-23, 6-24, 9-21, 10-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 30-1-1.  
 (lb) - Max Horz 1=-366(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 23, 27, 21, 17, 15 except  
 24=-121(LC 12), 25=-108(LC 12), 26=-115(LC 12), 28=-153(LC 12), 20=-128(LC 13),  
 19=-108(LC 13), 18=-115(LC 13), 16=-153(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 24, 26, 27, 20, 18, 17 except  
 1=338(LC 12), 23=396(LC 19), 25=268(LC 19), 28=253(LC 19), 21=382(LC 20),  
 19=267(LC 20), 16=253(LC 20), 15=332(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-570/372, 2-3=-438/259, 3-4=-344/189, 12-13=-334/189, 13-14=-428/259,  
 14-15=-560/372  
 BOT CHORD 1-28=-307/470, 27-28=-307/470, 26-27=-307/470, 25-26=-307/470, 24-25=-306/470,  
 23-24=-306/470, 22-23=-306/470, 21-22=-306/470, 20-21=-306/470, 19-20=-306/470,  
 18-19=-307/470, 17-18=-307/470, 16-17=-307/470, 15-16=-307/470

- 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) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 23, 27, 21, 17, 15 except (jt=lb) 24=121, 25=108, 26=115, 28=153, 20=128, 19=108, 18=115, 16=153.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

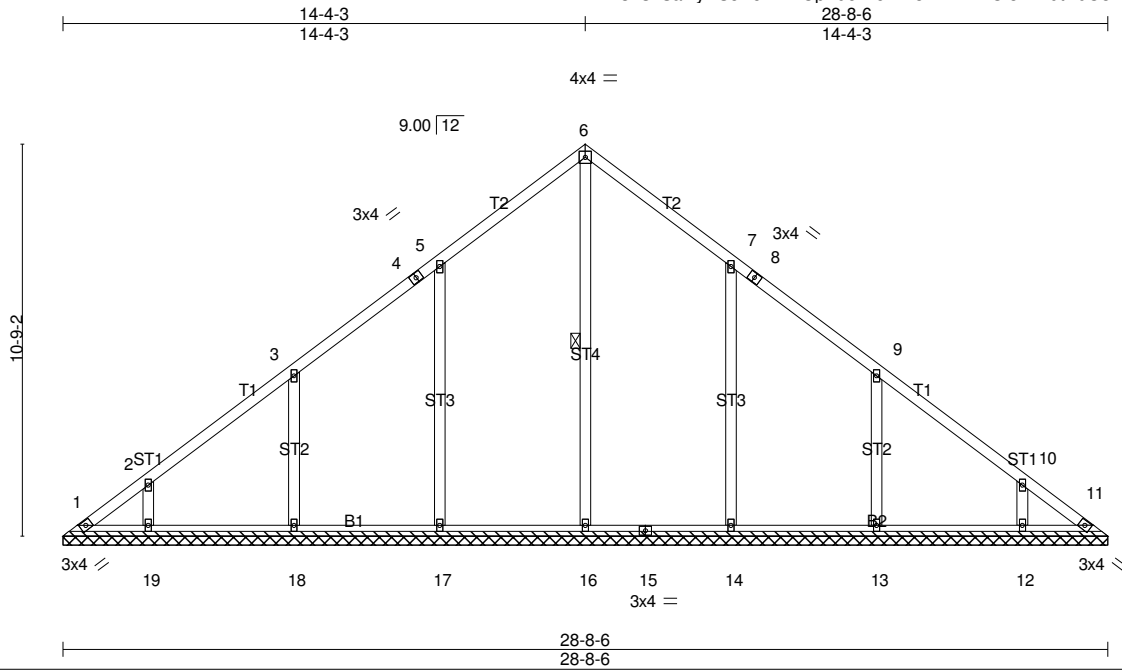
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VB-1	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:54 2019 Page 1  
ID:sLcKsAlhyHS8R5NWL0pYuo24oz2-I3YRIYKDOI3wirxutH9O31K1paKXtiYtQPMzNhziGsR



Scale = 1:63.3

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

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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 147 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3 \*Except\*  
 ST4: 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 1 Row at midpt 6-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

All bearings 28-8-6.  
 (lb) - Max Horz 1=-250(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 12, 11 except 17=-117(LC 12), 18=-109(LC 12), 14=-117(LC 13), 13=-109(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=385(LC 22), 17=494(LC 19), 18=415(LC 19), 19=287(LC 19), 14=493(LC 20), 13=415(LC 20), 12=287(LC 20)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-255/207, 5-6=-264/247, 6-7=-264/246  
 WEBS 5-17=-323/224, 3-18=-315/195, 2-19=-264/193, 7-14=-323/224, 9-13=-315/195, 10-12=-264/193

**NOTES-**

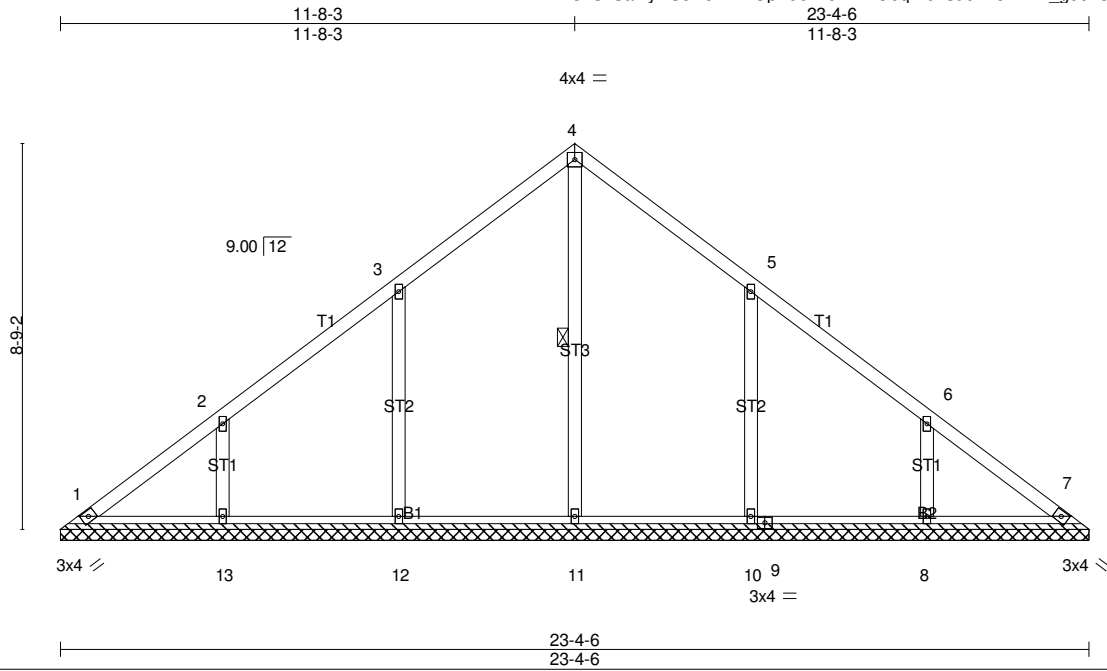
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 14-4-3, Exterior(2) 14-4-3 to 18-9-0 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BC DL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 12, 11 except (jt=lb) 17=117, 18=109, 14=117, 13=109.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VB-2	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:55 2019 Page 1  
 ID:sLcKSalhyHS8R5NWL0pYuo24oz2-mG6qWuLs9bBnJ?V4R\_gdcEsCW\_gbcCD1f35Ww7zIGsQ



Scale = 1:52.3

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 0.14	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 111 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 23-4-6.  
 (lb) - Max Horz 1=-202(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-119(LC 12), 13=-106(LC 12), 10=-118(LC 13), 8=-106(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=383(LC 22), 12=427(LC 19), 13=338(LC 19), 10=426(LC 20), 8=338(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-12=-328/225, 2-13=-301/210, 5-10=-328/225, 6-8=-301/210

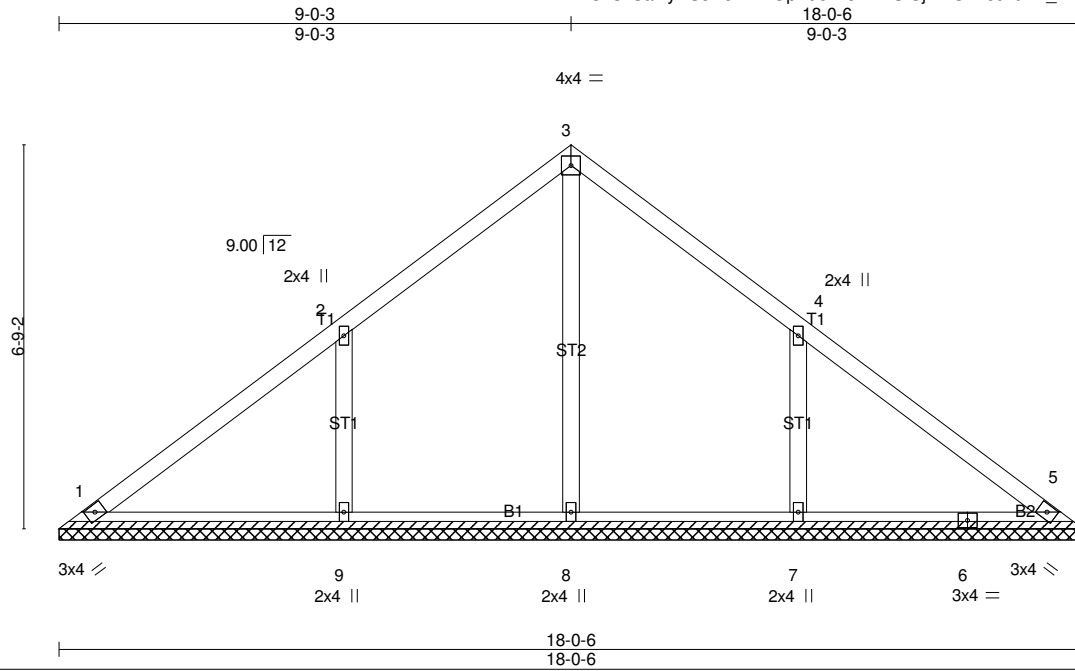
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 11-8-3, Exterior(2) 11-8-3 to 16-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=119, 13=106, 10=118, 8=106.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VB-3	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:56 2019 Page 1  
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Scale = 1:40.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 78 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 18-0-6.  
 (lb) - Max Horz 1=-154(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-143(LC 12), 7=-143(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8 except 9=452(LC 19), 7=452(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-9=-388/256, 4-7=-388/256

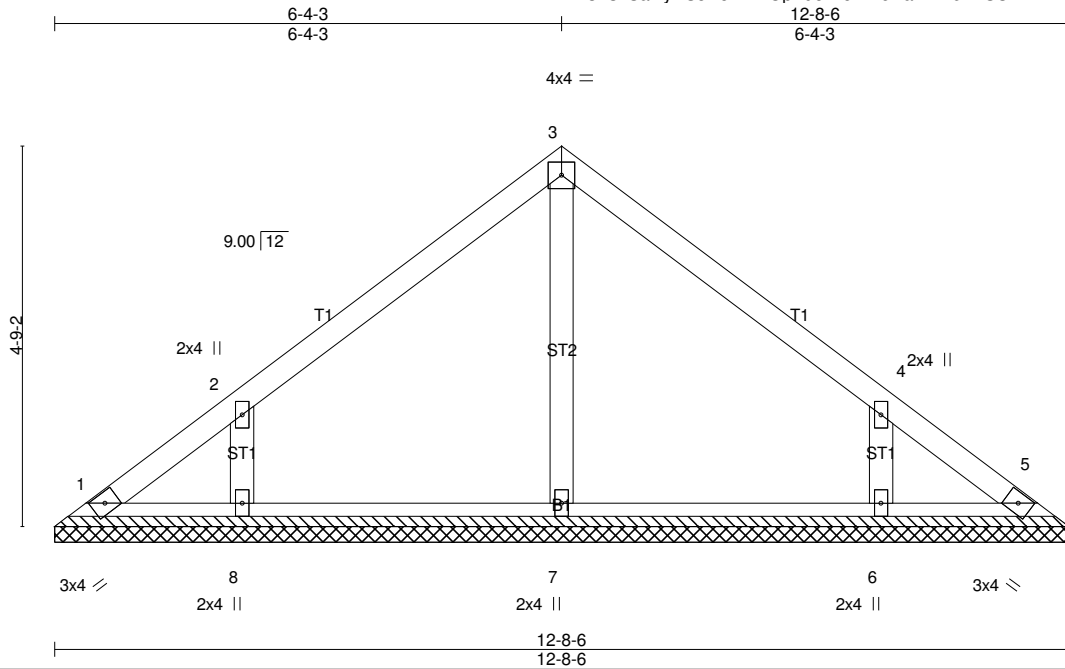
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 5-0-3, Interior(1) 5-0-3 to 9-0-3, Exterior(2) 9-0-3 to 13-5-0 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=143, 7=143.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VB-4	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:57 2019 Page 1  
ID:sLcKSalhyHS8R5NWL0pYuoZ4oz2-ieDawZM6hDSUZIfTYPi5hyYKoNr47ZK6Nad\_0zIGsO



Scale = 1:28.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 51 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 12-8-6.  
(lb) - Max Horz 1=106(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-107(LC 12), 6=-107(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=250(LC 1), 8=321(LC 19), 6=321(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-294/218, 4-6=-294/218

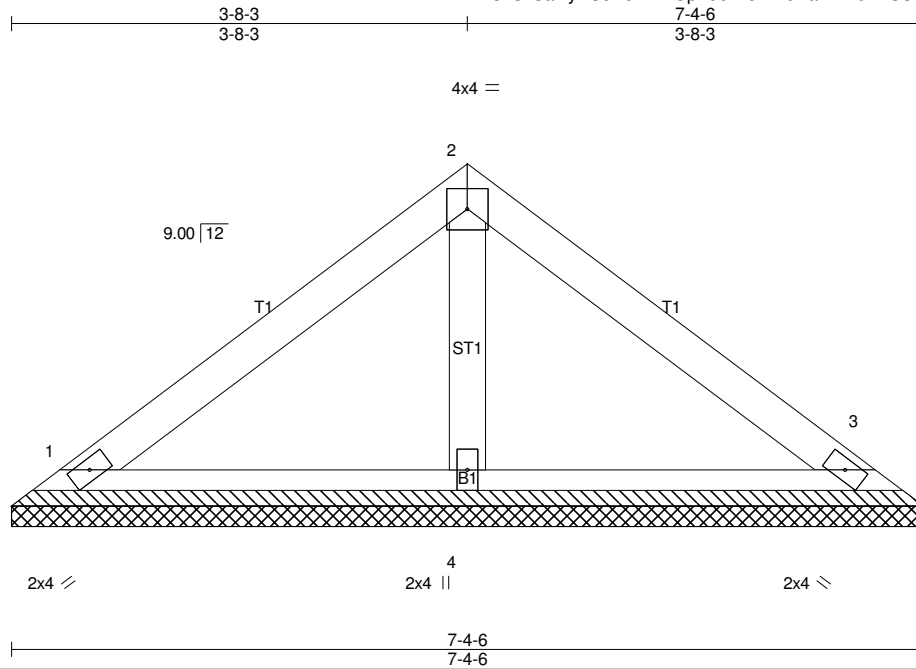
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 6-4-3, Exterior(2) 6-4-3 to 10-9-0 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=107, 6=107.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VB-5	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:57 2019 Page 1  
 ID:sLcKsAlhyHS8R5NWL0pYuoZ4oz2-ieDawZM6hDSUZIfTYPi5hyY3oN0486K6Nad\_0zIGsO



Scale = 1:18.6

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 0.08	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 26 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=147/7-4-6 (min. 0-1-8), 3=147/7-4-6 (min. 0-1-8), 4=225/7-4-6 (min. 0-1-8)  
 Max Horz 1=58(LC 9)  
 Max Uplift 1=-23(LC 12), 3=-28(LC 13)

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

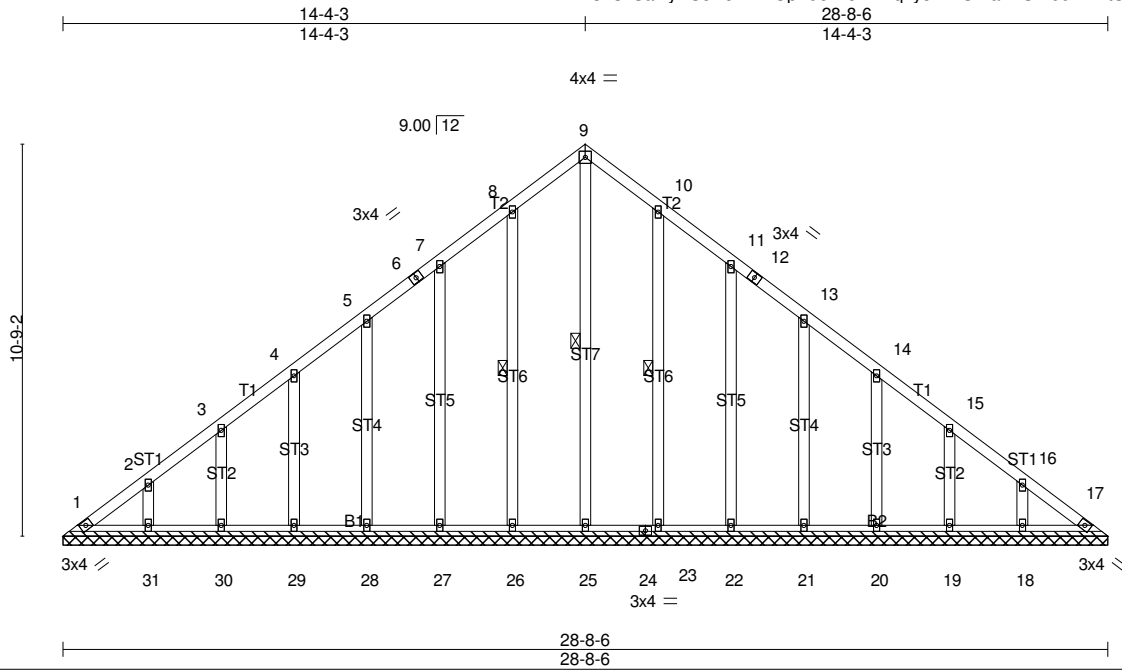
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rice Residence / Harnett
J0818-3696	VB-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Thu May 9 10:29:58 2019 Page 1  
 ID:sLcKsAlhyHS8R5NWLOpYuoZ4oz2-Bqny8vNkSWaLASEf66DKDtUjACjupYBTL1KAXSzIGsN



Scale = 1:63.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.01	17	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 198 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3 \*Except\*  
 ST7: 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 1 Row at midpt 9-25, 8-26, 10-23

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

All bearings 28-8-6.  
 (lb) - Max Horz 1=313(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 28, 29, 30, 17, 23, 21, 20, 19 except 27=-104(LC 12),  
 31=-108(LC 12), 22=-105(LC 13), 18=-108(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 26, 27, 28, 29, 30, 31, 17, 23, 22, 21, 20, 19, 18 except  
 25=292(LC 22)

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

TOP CHORD 1-2=-351/250, 2-3=-260/215, 8-9=-250/279, 9-10=-250/279, 16-17=-283/189  
 BOT CHORD 1-31=-162/250, 30-31=-162/250, 29-30=-162/250, 28-29=-162/250, 27-28=-162/250,  
 26-27=-162/250, 25-26=-162/250, 24-25=-162/250, 23-24=-162/250, 22-23=-162/250,  
 21-22=-162/250, 20-21=-162/250, 19-20=-162/250, 18-19=-162/250, 17-18=-162/250  
 WEBS 9-25=-251/166

**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) 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
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 28, 29, 30, 17, 23, 21, 20, 19 except (jt=lb) 27=104, 31=108, 22=105, 18=108.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard