

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0916-4688

H&H\Biltmore A&B

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

Pages or sheets covered by this seal: E9831662 thru E9831687

My license renewal date for the state of North Carolina is December 31, 2016.

North Carolina COA: C-0844

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



September 9, 2016

Lassiter, Frank

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

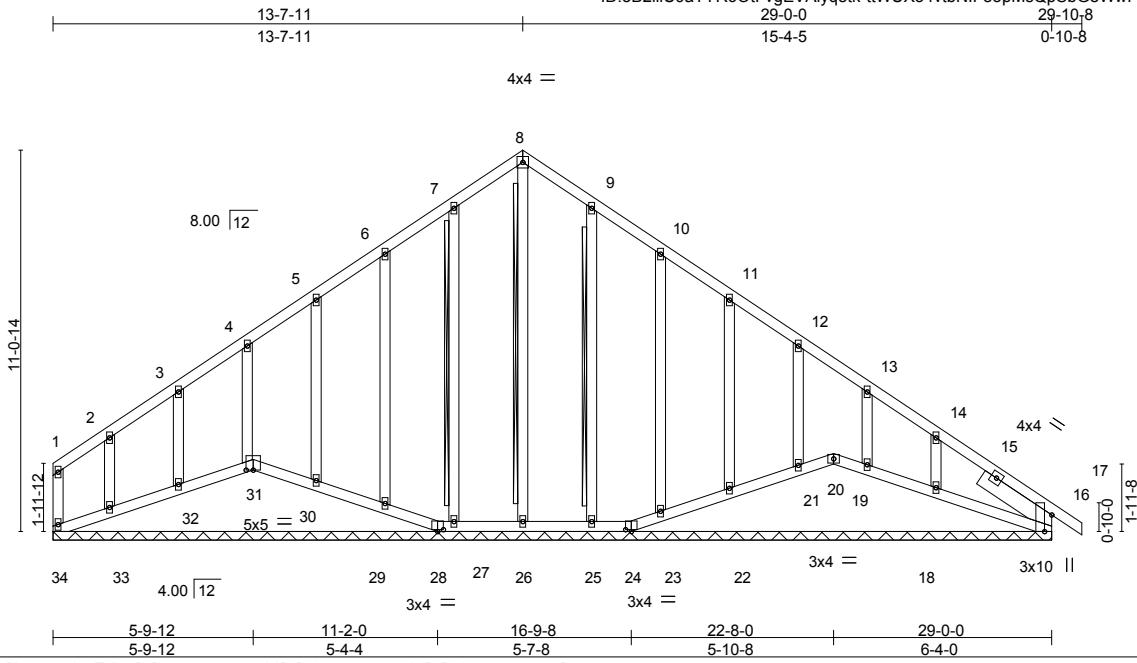
Job J0916-4688	Truss A1	Truss Type GABLE	Qty 1	Ply 1	H&H/Biltmore A&B	E9831662
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:49 2016 Page 1

ID:3B2liiU9aTYR6OfFvgEVAlyq8tk-ttWUXo4vtbNIF8opMsQpSbGeWwPDNHXUfDI4eYyfMYy

29-0-0
15-4-5
29-10-8
0-10-8



Scale = 1:66.9

Plate Offsets (X,Y)--	[16:0-5-13,Edge], [24:0-2-0,0-0-11], [28:0-2-0,0-0-11], [31:0-2-8,0-0-0]				
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) 0.00 16 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(TL) 0.00 17 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(TL) 0.02 16 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S		Weight: 213 lb	FT = 20%

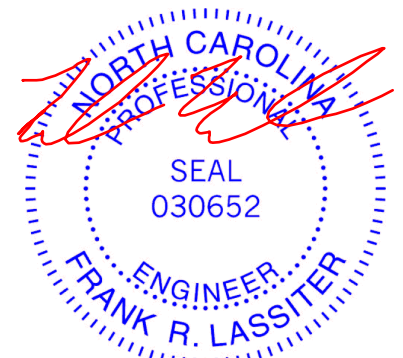
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Right 2x6 SP No.1 2-6-0

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, Except: 6-0-0 oc bracing: 30-31,21-22,20-21,19-20,18-19.
T-Brace: 2x4 SPF Stud - 8-26, 7-27, 9-25
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.

REACTIONS. All bearings 29-0-0.
(lb) - Max Horz 34=370(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 27, 30, 32, 25, 23, 22, 21, 19 except 34=174(LC 5), 31=232(LC 6), 28=105(LC 5), 24=106(LC 5), 20=164(LC 6), 16=118(LC 6), 29=100(LC 7), 33=146(LC 7), 18=185(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 34, 28, 24, 20, 16, 27, 29, 30, 32, 33, 25, 23, 22, 21, 19, 18 except 31=285(LC 5), 26=405(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=37/273, 6-7=36/351, 7-8=40/413, 8-9=42/422, 9-10=77/384, 10-11=127/328, 11-12=175/296, 12-13=228/306, 13-14=259/297, 14-16=395/359
BOT CHORD 33-34=299/364, 32-33=285/354, 31-32=289/355, 30-31=285/352, 29-30=285/353, 28-29=283/353, 27-28=266/331, 26-27=266/331, 25-26=266/331, 24-25=266/331, 23-24=282/352, 22-23=284/353, 21-22=285/353, 20-21=283/349, 19-20=281/349, 18-19=287/353, 16-18=283/353
WEBS 8-26=380/10

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) 27, 30, 32, 25, 23, 22, 21, 19 except (jt=lb) 34=174, 31=232, 28=105, 24=106, 20=164, 16=118, 29=100, 33=146, 18=185.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 31, 20, 29, 30, 32, 33, 23, 22, 21, 19, 18.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



September 9,2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job J0916-4688	Truss A2	Truss Type ROOF SPECIAL	Qty 5	Ply 1	H&H/Biltmore A&B	E9831663
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:50 2016 Page 1
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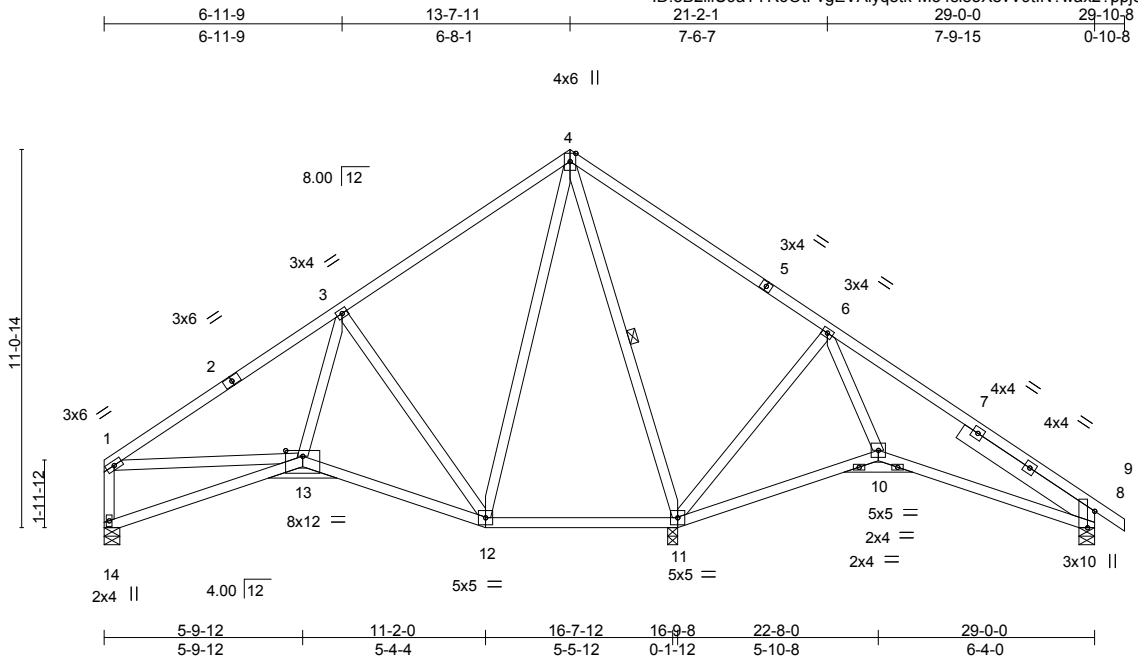


Plate Offsets (X,Y)--	[8:0-5-13,Edge], [13:0-6-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.08 11-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.68	Vert(TL) -0.13 11-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.04 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.02 13 >999 240	Weight: 192 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-11
SLIDER Right 2x6 SP No.1 4-9-0	

REACTIONS. (lb/size) 14=653/0-5-8, 11=1456/0-3-8, 8=475/0-5-8
 Max Horz 14=-299(LC 5)
 Max Uplift 14=-67(LC 8), 8=-157(LC 8)
 Max Grav 14=653(LC 1), 11=1456(LC 1), 8=486(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-898/221, 3-4=-425/317, 4-6=-24/311, 6-8=-623/279, 1-14=-618/179
 BOT CHORD 13-14=-290/346, 12-13=-227/628, 10-11=-116/314, 8-10=-118/466
 WEBS 3-13=-91/360, 3-12=-606/238, 4-12=-97/557, 4-11=-853/31, 6-11=-626/281, 6-10=-0/379, 1-13=-63/591

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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) 14, 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) 14 except (jt=lb) 8=157.



September 9, 2016

Job J0916-4688	Truss A4	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H/Biltmore A&B	E9831665
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:51 2016 Page 1
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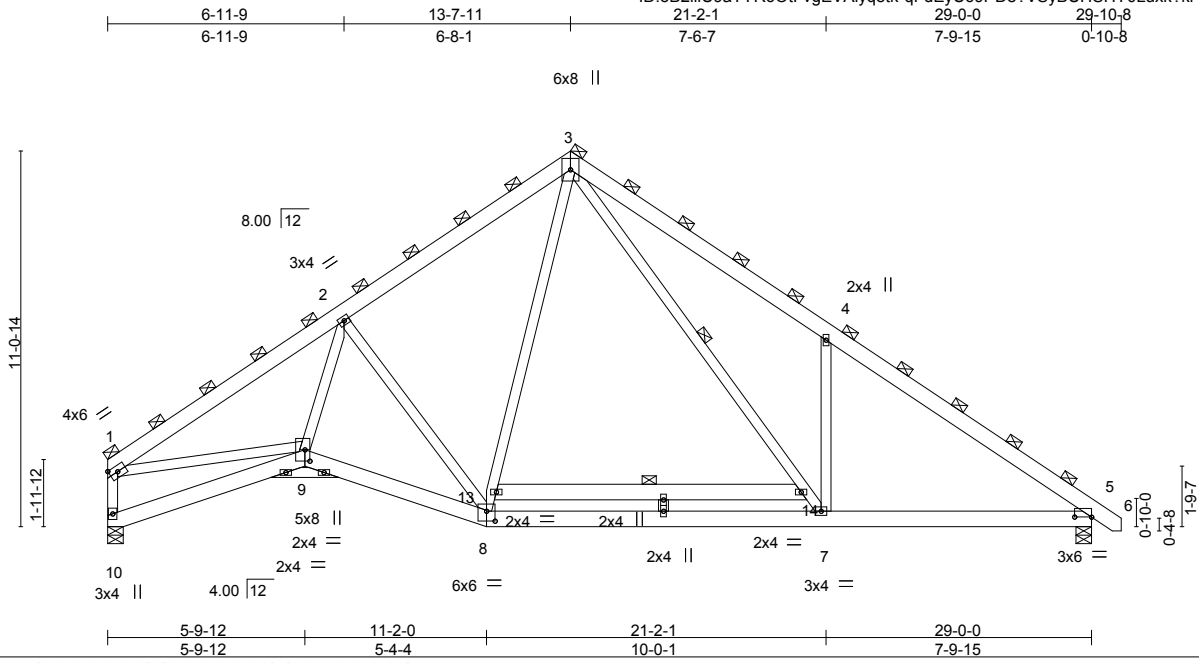


Plate Offsets (X,Y)--	[5:0-6-0,0-0-1], [8:0-3-0,0-3-8], [9:0-4-0,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-1-8	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.09 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Vert(TL) -0.27 7-8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.09 5 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.05 7 >999 240	Weight: 248 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (4-9-3 max.), except end verticals
BOT CHORD 2x6 SP No.1	(Switched from sheeted: Spacing > 2-0-0).
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
13-14: 2x6 SP No.1	WEBS 1 Row at midpt 13-14, 3-7

REACTIONS. (lb/size) 10=1466/0-5-8, 5=1588/0-5-8
 Max Horz 10=-313(LC 5)
 Max Uplift 10=-76(LC 7), 5=-130(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2447/345, 2-3=-1599/415, 3-4=-2225/611, 4-5=-2269/355, 1-10=-1420/243
 BOT CHORD 9-10=-296/360, 8-9=-152/1843, 7-8=0/1217, 5-7=-161/1731
 WEBS 2-9=-59/791, 2-8=-907/249, 8-13=-66/401, 3-13=-112/684, 4-7=-443/353,
 1-9=-163/1851, 3-14=-337/1161, 7-14=-288/852

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) 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) 10 except (jt=lb) 5=130.
 - 7) 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
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-64, 3-6=-64, 9-10=-21, 8-9=-21, 5-8=-21, 13-14=-60

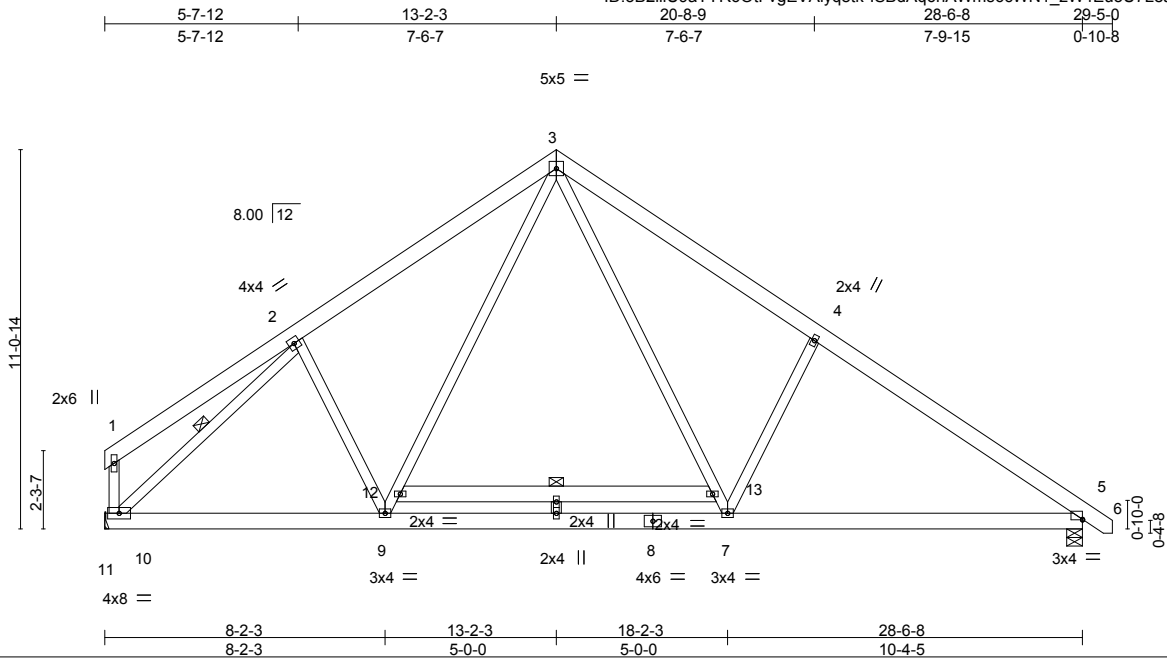


September 9, 2016

Job J0916-4688	Truss A5	Truss Type COMMON	Qty 1	Ply 1	H&H/Biltmore A&B	E9831666
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:52 2016 Page 1
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Scale = 1:67.3

Plate Offsets (X,Y)--	[5:0-0-0,0-0-3]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL) -0.07	5-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(TL) -0.20	5-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Horz(TL) 0.04	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL) 0.04	5-7	>999	240		
	Code IRC2009/TPI2007						Weight: 236 lb	FT = 20%

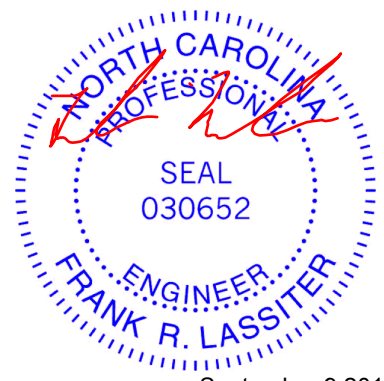
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 12-13: 2x6 SP No.1	WEBS 1 Row at midpt 2-10, 12-13

REACTIONS. (lb/size) 10=1432/Mechanical, 5=1442/0-5-8
Max Horz 10=-295(LC 5)
Max Uplift 10=-72(LC 7), 5=-119(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1579/403, 3-4=-1794/442, 4-5=-1977/347
BOT CHORD 9-10=-114/1206, 7-9=0/1152, 5-7=-163/1529
WEBS 9-12=-91/251, 3-12=-118/573, 3-13=-187/936, 7-13=-134/608, 4-7=-368/275,
2-10=-1635/251

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) 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) 10 except (jt=lb) 5=119.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-60, 5-11=-20, 12-13=-60



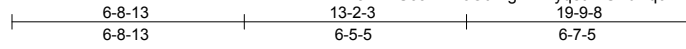
September 9, 2016

Job J0916-4688	Truss A6	Truss Type COMMON	Qty 3	Ply 1	H&H/Biltmore A&B	E9831667
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Comtech, Inc., Fayetteville, NC 28309

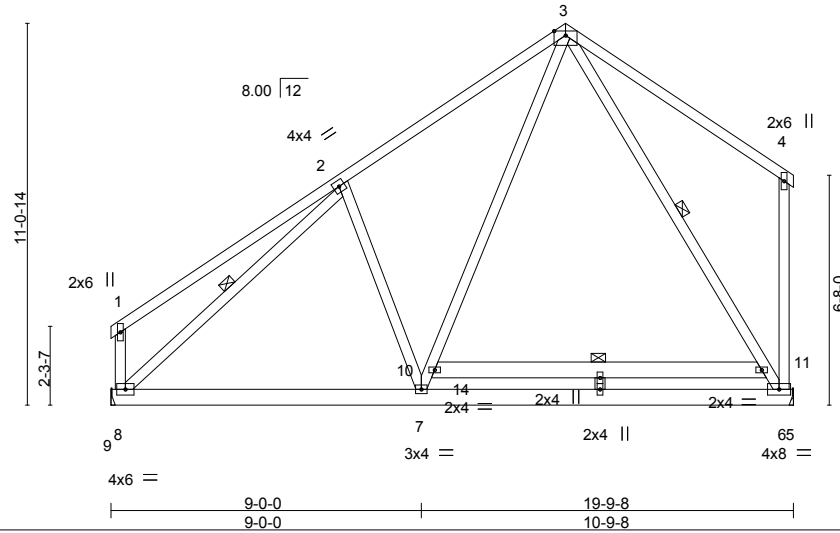
8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:52 2016 Page 1

ID:3B2IiU9aTYR6OtFvgEVAlyq8tk-ISBdAq6nAWms6cWN1_zW4Eu3A7MQaWTwLBzkFtyfMYv



5x8 =

Scale = 1:66.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.08	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(TL)	-0.22	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.78	Horz(TL)	0.01	6	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.02	7	>999		
								Weight: 173 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 10-11: 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.
 WEBS 1 Row at midpt 2-8, 3-6, 10-11

REACTIONS. (lb/size) 8=914/Mechanical, 6=1175/Mechanical
 Max Horz 8=234(LC 6)
 Max Uplift 8=-24(LC 7), 6=-106(LC 7)

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

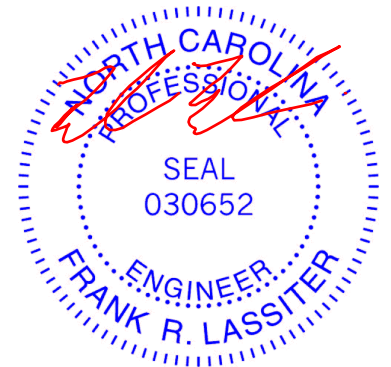
TOP CHORD 2-3=-878/253
 BOT CHORD 7-8=-196/700, 6-7=-88/530
 WEBS 7-10=-90/470, 3-10=-134/723, 2-8=-876/23, 3-11=-686/109, 6-11=-1018/161

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- 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) 8 except (jt=lb) 6=106.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 5-9=-20, 11-14=-60



September 9, 2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

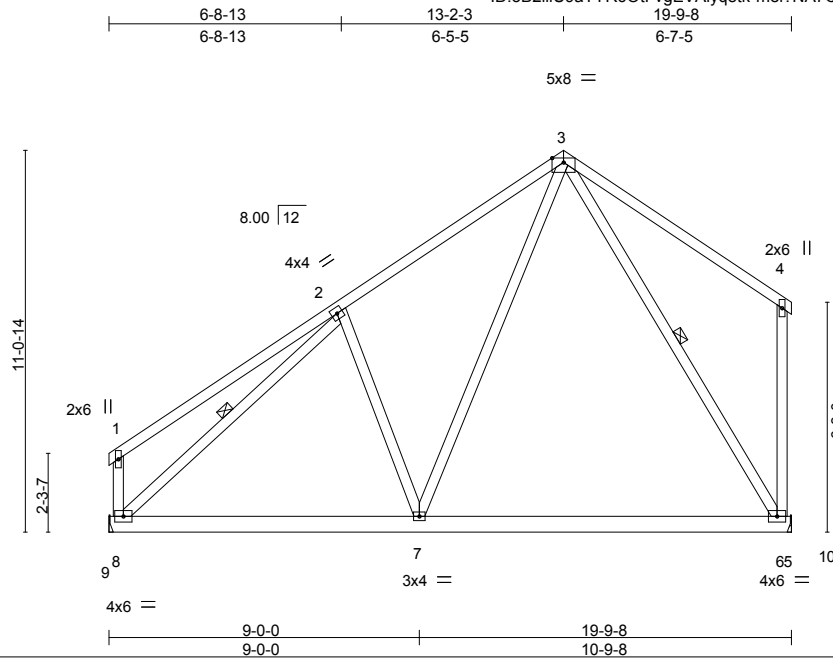


818 Soundside Road
 Edenton, NC 27932

Job J0916-4688	Truss A7	Truss Type COMMON	Qty 5	Ply 1	H&H/Biltmore A&B E9831668
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:53 2016 Page 1
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Scale = 1:66.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.22 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(TL)	-0.35 6-7	>663	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(TL)	0.01 6	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.01 7	>999	240		
								Weight: 150 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

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.
WEBS 1 Row at midpt 2-8, 3-6

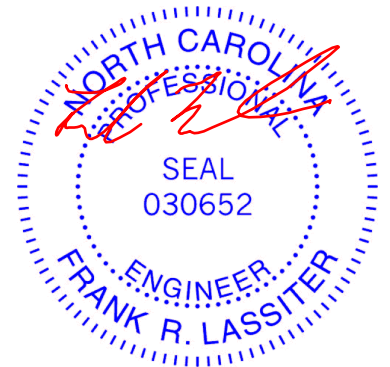
REACTIONS. (lb/size) 8=890/Mechanical, 6=1069/Mechanical
Max Horz 8=234(LC 6)
Max Uplift 8=-9(LC 7), 6=-66(LC 7)

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

TOP CHORD 2-3=-891/225
BOT CHORD 7-8=-175/708, 6-7=-52/382
WEBS 2-7=-210/252, 3-7=-99/739, 2-8=-922/0, 3-6=-685/90

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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) 8, 6.



September 9, 2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

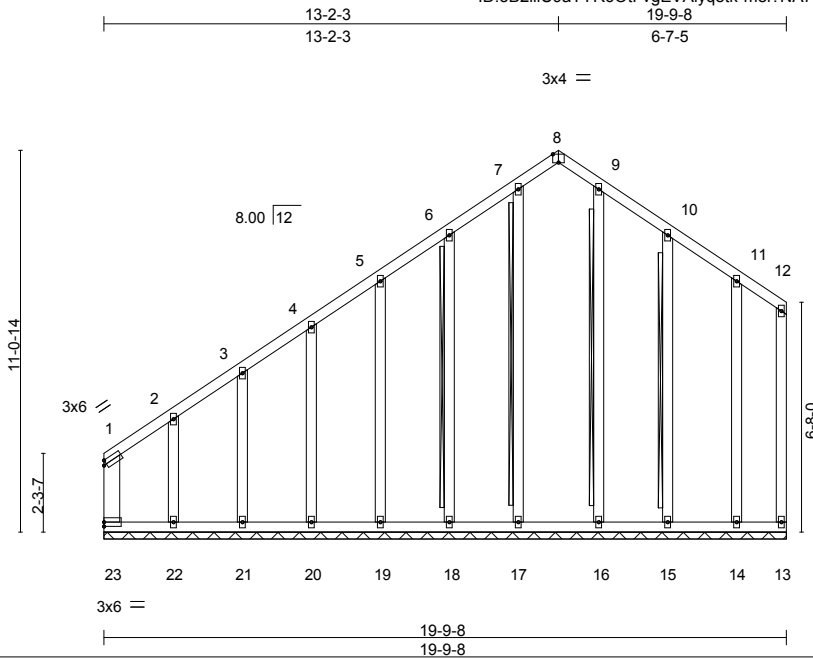


818 Soundside Road
Edenton, NC 27932

Job J0916-4688	Truss A8	Truss Type GABLE	Qty 1	Ply 1	H&H/Biltmore A&B	E9831669
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:53 2016 Page 1
ID:3B2lliU9aTYR6OtFvgEVALyq8tk-mel?NA7Qxqujkm5abiUldRRHtXiUJ8y4arjHnJyfMYu



Scale = 1:66.8

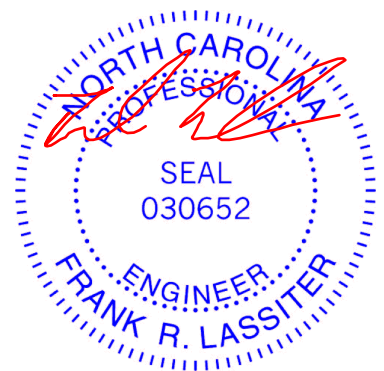
Plate Offsets (X,Y)--	[8:0-2-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(TL) -0.00 13 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S		Weight: 174 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 12-13: 2x4 SP No.3	WEBS T-Brace: 2x4 SPF Stud - 7-17, 6-18, 9-16, 10-15 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.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-9-8.
(lb) - Max Horz 23=283(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 13, 17, 19, 21, 14 except
23=-322(LC 5), 18=-115(LC 7), 20=-110(LC 7), 22=-539(LC 7), 15=-128(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 13, 18, 19, 20, 21, 15, 14
except 23=570(LC 6), 17=267(LC 1), 22=348(LC 5), 16=265(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-341/201, 1-2=-417/257
WEBS 2-22=-165/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 ANSITPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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) 13, 17, 19, 21, 14 except (jt=lb) 23=322, 18=115, 20=110, 22=539, 15=128.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

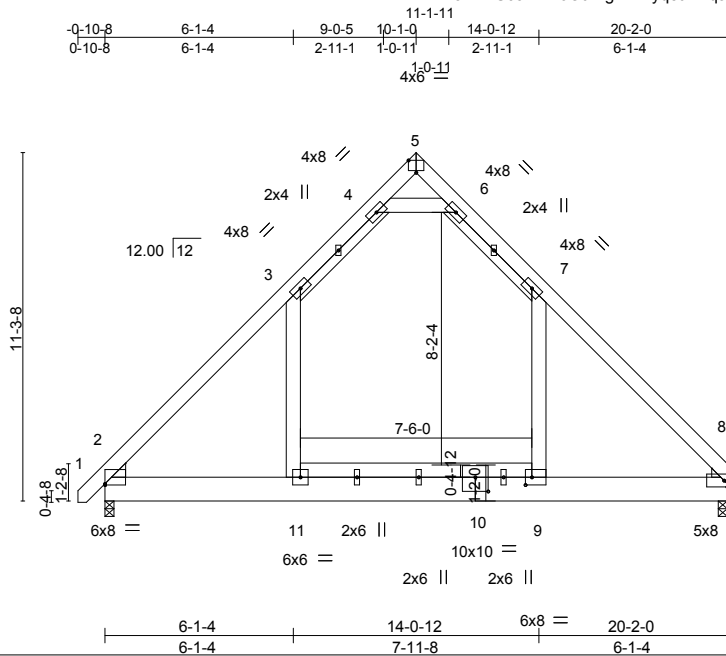


September 9, 2016

Job J0916-4688	Truss B1	Truss Type ATTIC	Qty 1	Ply 1	H&H/Biltmore A&B E9831670
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:54 2016 Page 1
ID:3B2lliU9aTYR6OtFvgEVAlyq8tk-EqJNbW82i80aMvgm9P?_9fzJAx0b2bpDpVSRJmyfMYt



Scale = 1:74.7

Plate Offsets (X,Y)--	[2:0-0,0-0-8], [5:0-3-0,Edge], [9:0-2-8,0-3-0], [10:0-5-0,0-5-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.17 9-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(TL) -0.36 9-11 >670 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.01 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.13 9-11 >999 240	Weight: 216 lb	FT = 20%

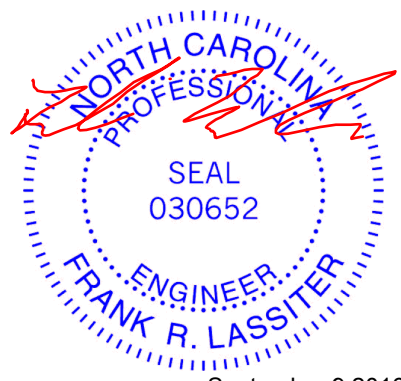
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 3-4,6-7: 2x4 SP No.3	
WEDGE Left: 2x6 SP No.2, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1393/0-3-8, 8=1337/0-3-8
Max Horz 2=373(LC 6)
Max Uplift 2=32(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1596/17, 3-4=-848/162, 4-5=-145/690, 5-6=-139/681, 6-7=-858/169, 7-8=-1565/0
BOT CHORD 2-11=0/888, 9-11=0/888, 8-9=0/888
WEBS 4-6=-1857/451, 3-11=-54/705, 7-9=-60/663

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- Attic room checked for L/360 deflection.

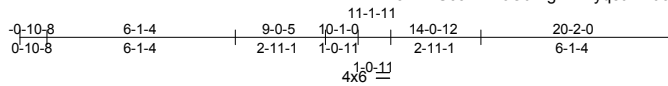


September 9,2016

Job J0916-4688	Truss B2	Truss Type ATTIC	Qty 2	Ply 1	H&H/Biltmore A&B E9831671
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:55 2016 Page 1
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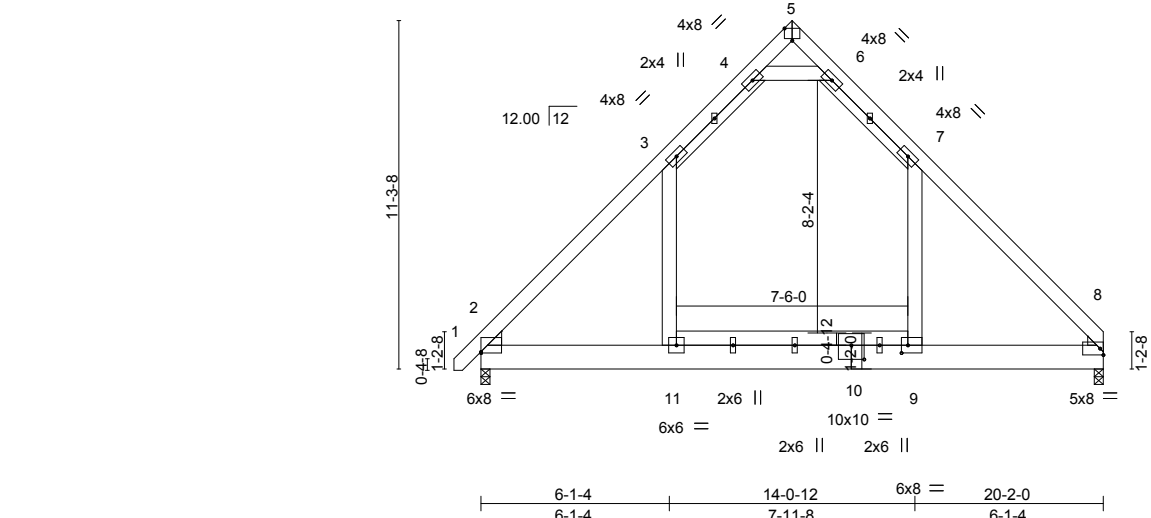


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [5:0-3-0,Edge], [9:0-2-8,0-3-0], [10:0-5-0,0-5-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.17	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(TL)	-0.36	9-11	>670		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.01	8	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.09	9-11	>999		
								Weight: 216 lb	FT = 20%

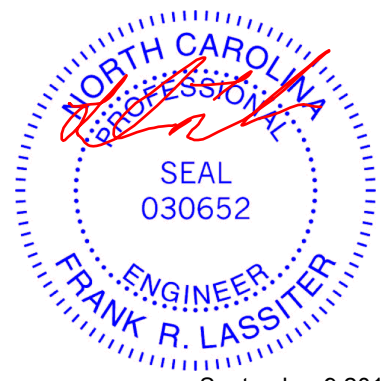
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
3-4,6-7: 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1393/0-3-8, 8=1337/0-3-8
Max Horz 2=299(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1596/0, 3-4=-848/99, 4-5=-89/690, 5-6=-84/681, 6-7=-858/105, 7-8=-1565/0
BOT CHORD 2-11=0/888, 9-11=0/888, 8-9=0/888
WEBS 4-6=-1857/283, 3-11=-16/705, 7-9=-21/663

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
 - Attic room checked for L/360 deflection.



September 9,2016

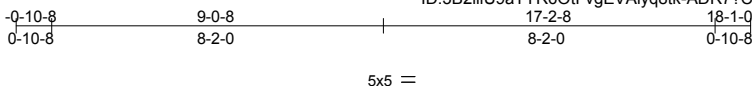
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

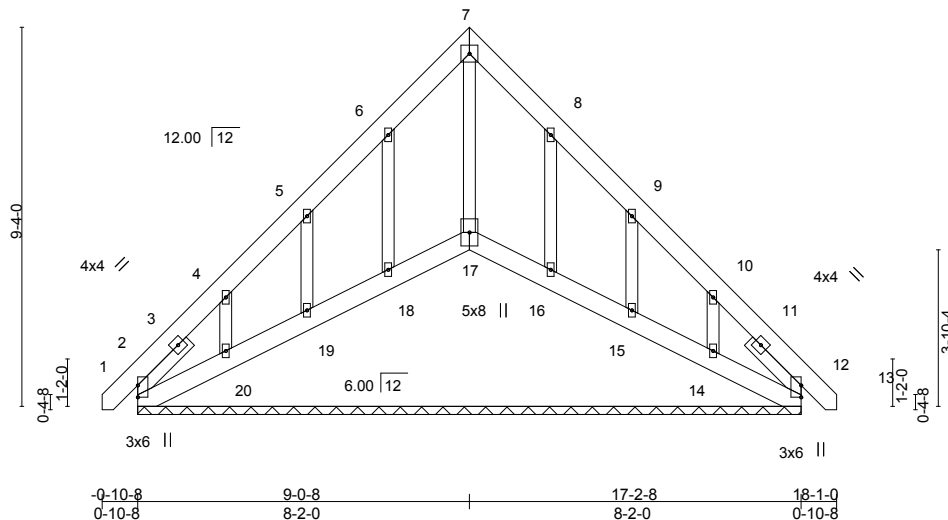
Job J0916-4688	Truss C1	Truss Type GABLE	Qty 1	Ply 1	H&H/Biltmore A&B	E9831673
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:56 2016 Page 1
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Scale = 1:56.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	0.00	12	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S						
								Weight: 139 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-10-3, Right 2x4 SP No.3 1-10-3

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.

REACTIONS.

All bearings 16-4-0.
 (lb) - Max Horz 2=309(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 12 except 2=-267(LC 5), 18=-116(LC 7), 19=-128(LC 7), 20=-254(LC 7), 16=-109(LC 8), 15=-132(LC 8), 14=-240(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 12, 18, 19, 20, 16, 15, 14 except 2=319(LC 6), 17=476(LC 8)

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

TOP CHORD 2-4=-328/222, 6-7=-73/258, 7-8=-74/257
 WEBS 7-17=-269/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12 except (jt=lb) 2=267, 18=116, 19=128, 20=254, 16=109, 15=132, 14=240.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job J0916-4688	Truss C3	Truss Type SCISSORS	Qty 4	Ply 1	H&H/Biltmore A&B Job Reference (optional)	E9831675
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:58 2016 Page 1
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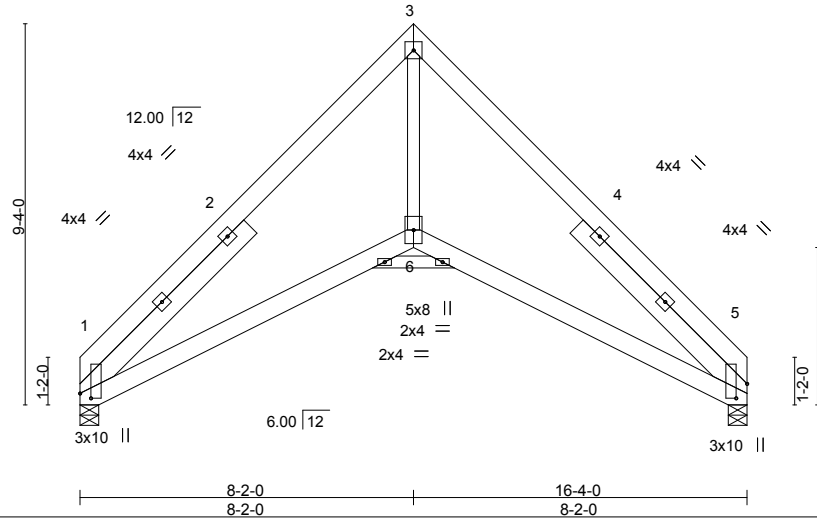


Plate Offsets (X,Y)-- [1:0-1-7,0-3-3], [5:0-4-4,0-3-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.04 5-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(TL) -0.10 5-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.05 5 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) -0.03 6 >999 240	Weight: 136 lb	FT = 20%

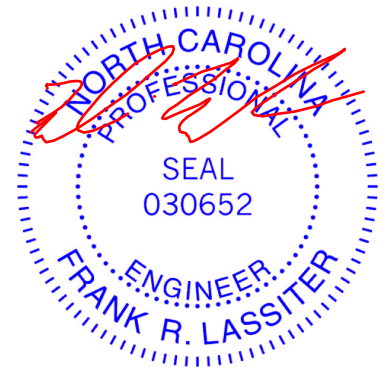
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 5-10-1, Right 2x6 SP No.1 5-10-1

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

REACTIONS. (lb/size) 1=637/0-5-8, 5=637/0-5-8
Max Horz 1=-247(LC 5)
Max Uplift 1=-23(LC 8), 5=-23(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-978/38, 3-5=-973/90
BOT CHORD 1-6=-86/667, 5-6=-73/664
WEBS 3-6=0/743

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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) 1, 5 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) 1, 5.



September 9, 2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

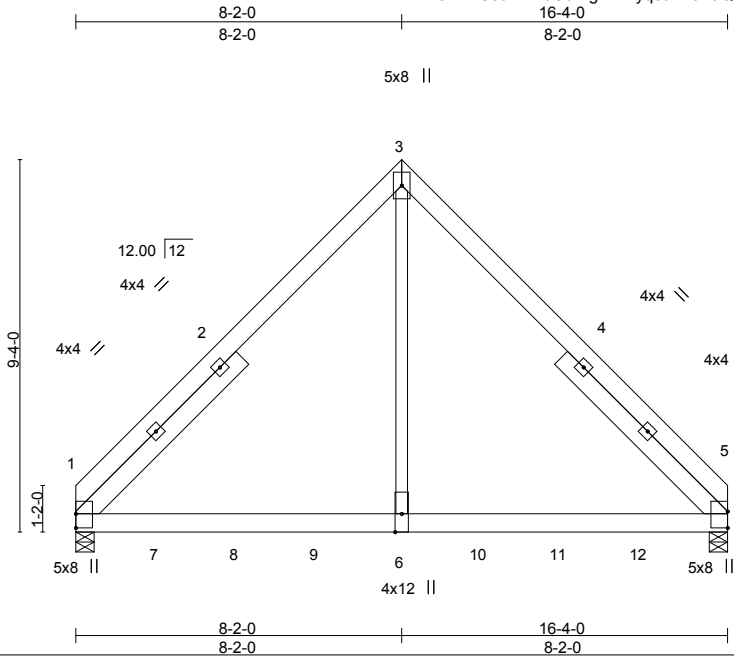


818 Soundside Road
Edenton, NC 27932

Job J0916-4688	Truss C4	Truss Type Common Girder	Qty 1	Ply 2	H&H/Biltmore A&B E9831676
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8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:58 2016 Page 1
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Scale = 1:57.7

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 0.24	Vert(LL)	-0.17	1-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(TL)	-0.37	5-6	>534		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(TL)	0.02	5	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.11	5-6	>999		
								Weight: 266 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 5-8-9, Right 2x6 SP No.1 5-8-9

BRACING-

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

REACTIONS. (lb/size) 1=4610/0-5-8, 5=5872/0-5-8
 Max Horz 1=244(LC 4)
 Max Uplift 1=-314(LC 6), 5=-469(LC 5)

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

TOP CHORD 1-3=-4292/385, 3-5=-4279/381
 BOT CHORD 1-6=-217/2875, 5-6=-217/2875
 WEBS 3-6=-322/5379

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=314, 5=469.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1009 lb down and 78 lb up at 2-0-12, 1009 lb down and 78 lb up at 4-0-12, 1009 lb down and 78 lb up at 6-0-12, 1015 lb down and 78 lb up at 8-0-12, 1009 lb down and 78 lb up at 10-0-12, 1155 lb down and 118 lb up at 12-0-12, and 1155 lb down and 118 lb up at 14-0-12, and 1164 lb down and 113 lb up at 16-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-60
 Concentrated Loads (lb)
 Vert: 5=-1164(B) 6=-1015(B) 7=-1009(B) 8=-1009(B) 9=-1009(B) 10=-1009(B) 11=-1155(B) 12=-1155(B)



September 9, 2016

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818 Soundside Road
 Edenton, NC 27932

Job J0916-4688	Truss G1	Truss Type GABLE	Qty 1	Ply 1	H&HBiltmore A&B E9831677
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:32:59 2016 Page 1
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Scale = 1:35.1

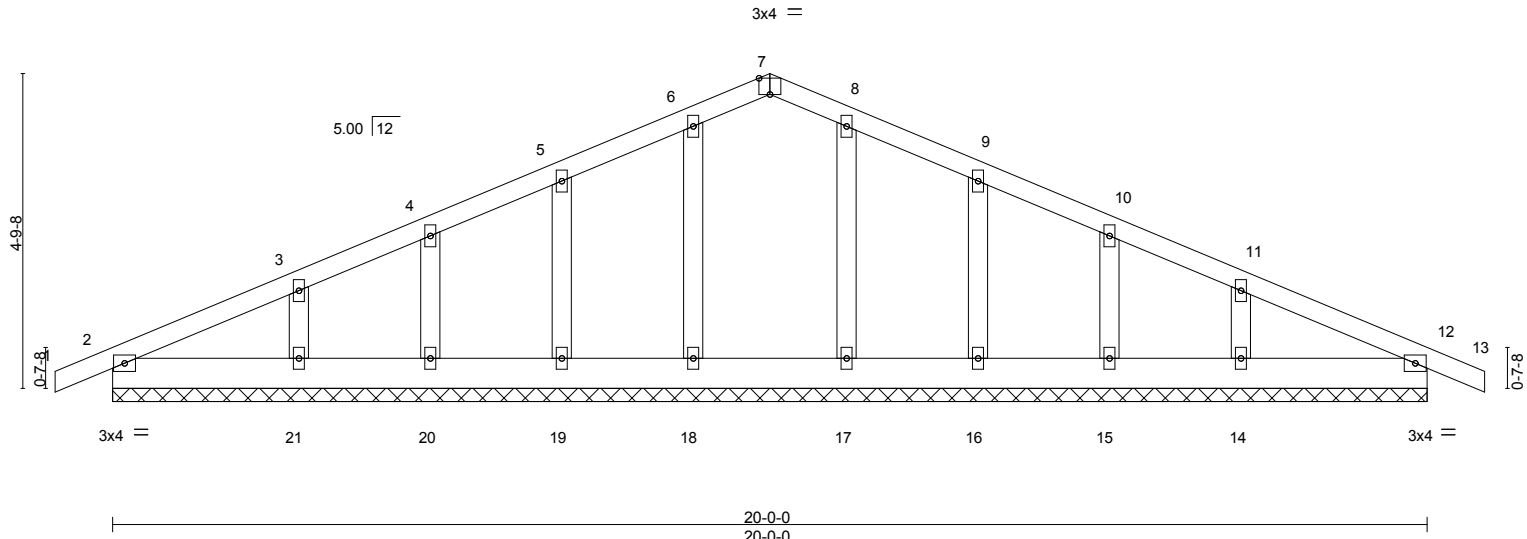


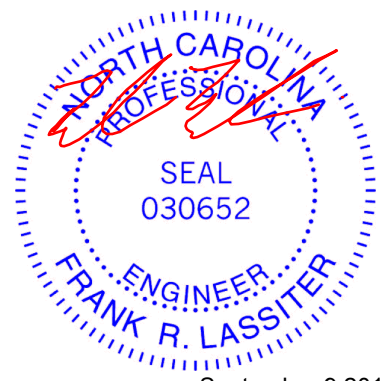
Plate Offsets (X,Y)--	[7:0-2-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.06	Vert(LL) 0.00	12	n/r	120		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.02	Vert(TL) 0.00	12	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.04	Horz(TL) 0.00	12	n/a	n/a			
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S							
									Weight: 110 lb	FT = 20%

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

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=67(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 17, 16, 15, 14

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 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 21, 17, 16, 15, 14.



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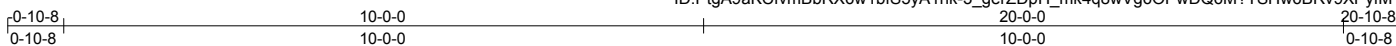
Job	Truss	Truss Type	Qty	Ply	H&H/Biltmore A&B	E9831678
J0916-4688	G2	COMMON	5	1		

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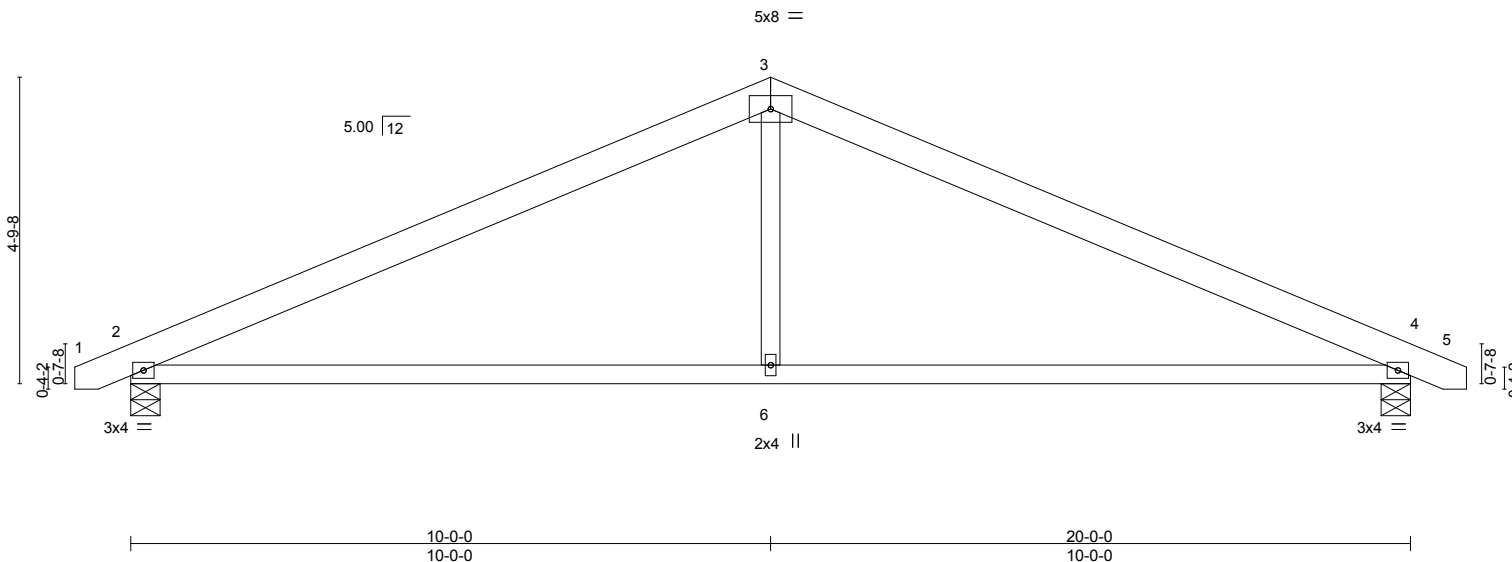
8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:33:00 2016 Page 1

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Job Reference (optional)



Scale = 1:36.0



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 0.57	Vert(LL)	-0.16	4-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(TL)	-0.45	4-6	>525		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(TL)	0.04	4	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.05	2-6	>999	Weight: 91 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=837/0-5-8, 4=837/0-5-8
 Max Horz 2=-54(LC 8)
 Max Uplift 2=-81(LC 7), 4=-81(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1182/182, 3-4=-1182/182
 BOT CHORD 2-6=-66/1003, 4-6=-66/1003
 WEBS 3-6=0/453

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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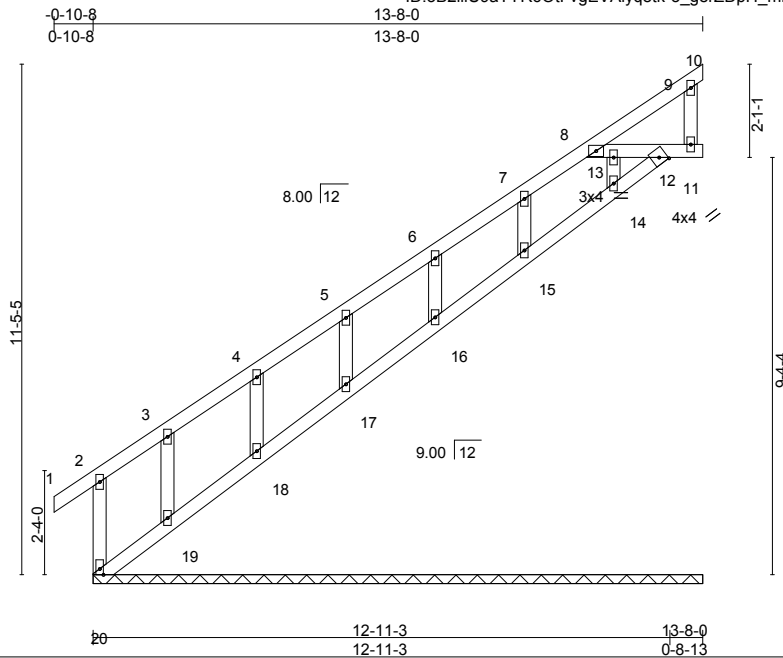
Job J0916-4688	Truss J1	Truss Type GABLE	Qty 1	Ply 1	H&HBiltmore A&B	E9831679
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Job Reference (optional)



Scale = 1:51.7

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)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(TL)	-0.02	10	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S						
								Weight: 73 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 11-12.

REACTIONS. All bearings 13-8-0.
(lb) - Max Horz 20=460(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 20, 10, 11, 15, 17, 18 except 12=-349(LC 7), 16=-103(LC 7), 19=-101(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 11, 12, 14, 15, 16, 17, 18, 19 except 20=251(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-31/267, 6-7=-30/349, 7-8=-31/375
BOT CHORD 19-20=-558/37, 18-19=-546/37, 17-18=-550/37, 16-17=-549/37, 15-16=-549/37, 14-15=-550/37, 12-14=-544/33, 8-13=-22/418, 12-13=-22/418

NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 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.
- 8) Bearing at joint(s) 20, 12, 14, 15, 16, 17, 18, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 10, 11, 15, 17, 18 except (jt=lb) 12=349, 16=103, 19=101.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 12, 14, 15, 16, 17, 18, 19.



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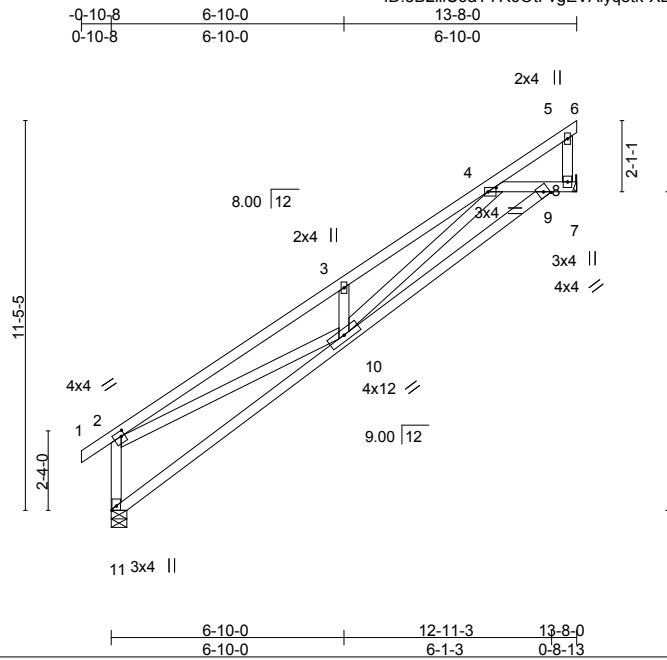
818 Soundside Road
Edenton, NC 27932

Job J0916-4688	Truss J2	Truss Type Monopitch	Qty 9	Ply 1	H&H/Biltmore A&B E9831680
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ID:3B2lliU9aTYR6OtFvgEVAlyq8tk-XBE03vDR2Hubi_i63Nddy7mZ0mRGBFTFQ5fi3syfMYm



Scale = 1:67.6

Plate Offsets (X,Y)--	[2:0-1-4,0-1-12], [4:0-2-14,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.07 10-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.21 10-11 >748 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(TL) 0.04 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.07 10 >999 240	Weight: 81 lb	FT = 20%

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

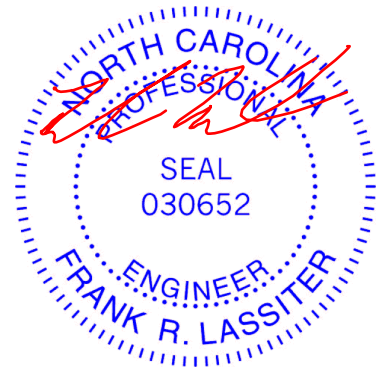
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-5-7 oc bracing.

REACTIONS. (lb/size) 11=593/0-5-8, 8=539/Mechanical
 Max Horz 11=323(LC 7)
 Max Uplift 8=206(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-11=-592/313, 2-3=-1489/522, 3-4=-1415/659
 BOT CHORD 10-11=-530/167, 9-10=-544/937, 4-9=-653/378
 WEBS 2-10=-288/1142, 3-10=-325/242, 4-10=-334/561

NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 11 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) 8=206.



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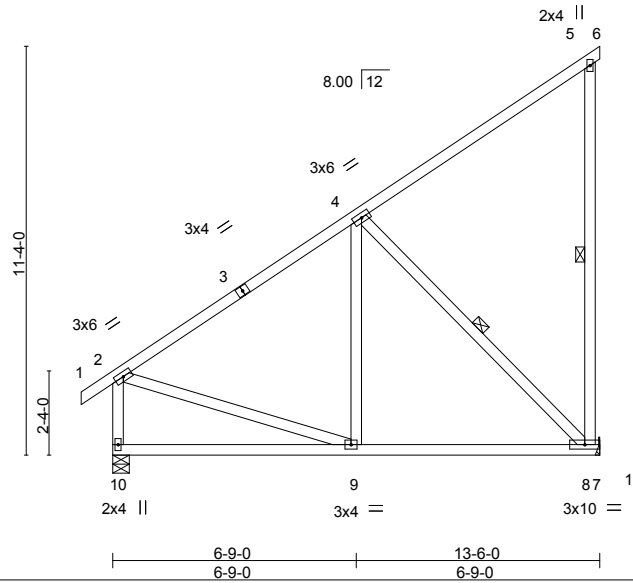
Job J0916-4688	Truss J3	Truss Type MONOPITCH	Qty 1	Ply 1	H&HBiltmore A&B	E9831681
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8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:33:01 2016 Page 1
ID:3B2lllU9aTYR6OtFvgEVALyq8tk-XBE03vDR2Hubi_i63Nddy7mclmP5Bj0FQ5fi3syfMYm



Scale: 3/16"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL) -0.12	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(TL) -0.17	8-9	>908		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(TL) -0.01	8	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL) 0.00	9	>999	Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-7 oc bracing.
WEBS 1 Row at midpt 5-8, 4-8

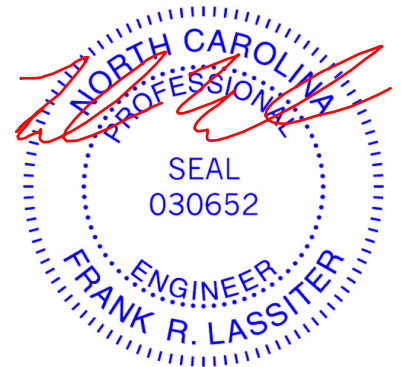
REACTIONS. (lb/size) 8=713/Mechanical, 10=651/0-5-8
Max Horz 10=319(LC 7)
Max Uplift 8=-199(LC 7)

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

TOP CHORD 2-4=-573/0, 2-10=-610/13
BOT CHORD 9-10=-395/58, 8-9=-178/395
WEBS 4-8=-544/248, 2-9=0/353

NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=199.



September 9, 2016

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job J0916-4688	Truss J4	Truss Type MONOPITCH	Qty 1	Ply 1	H&H/Biltmore A&B E9831682
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:33:02 2016 Page 1

ID:3B2liU9aTYR60tFvgEVAlyq8tk-?NoPGFE3pb0SJ8HlD58sULlor9lawBKoelOGblyfMYI



Scale = 1:69.4

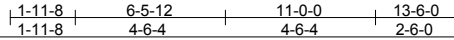
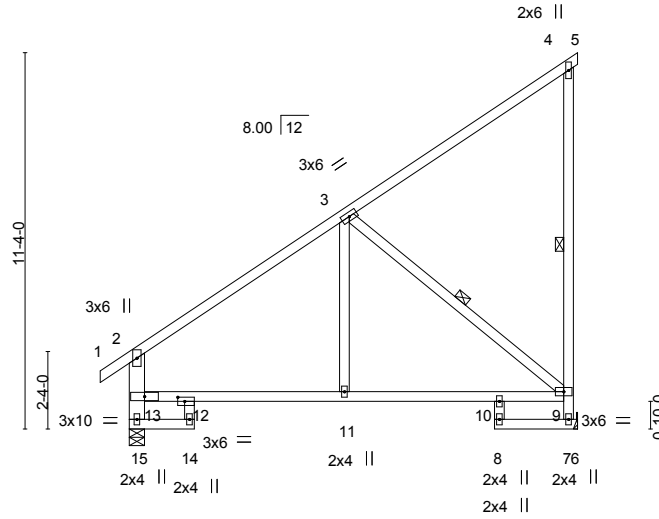


Plate Offsets (X, Y)-- [12:0-2-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.05	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(TL)	-0.15	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(TL)	0.03	7	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.07	11-12	>999		
								Weight: 94 lb	FT = 20%

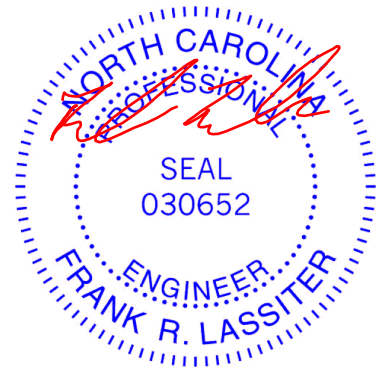
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except*
 12-14,8-10: 2x4 SP No.3
 WEBS 2x4 SP No.3 *Except*
 2-15: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-7, 3-9

REACTIONS. (lb/size) 7=528/Mechanical, 15=589/0-5-8
 Max Horz 15=320(LC 7)
 Max Uplift 7=-200(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-524/0, 7-9=-488/285, 13-15=-516/89, 2-13=-488/93
 BOT CHORD 14-15=-318/0, 12-13=0/529, 11-12=-242/348, 10-11=-242/348, 9-10=-257/350
 WEBS 3-9=-432/310, 3-11=-3/250

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=200.



September 9, 2016

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818 Soundside Road
 Edenton, NC 27932

Job J0916-4688	Truss J5	Truss Type ROOF SPECIAL	Qty 6	Ply 1	H&H/Biltmore A&B E9831683
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Comtech, Inc., Fayetteville, NC 28309

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ID:3B2liU9aTYR60TFvgEVAlyq8tk-TZMnTbFhav8JxIsVBog51YrwGZ4zfePYtP8p7kyfMYk



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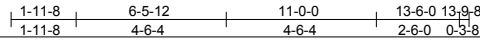
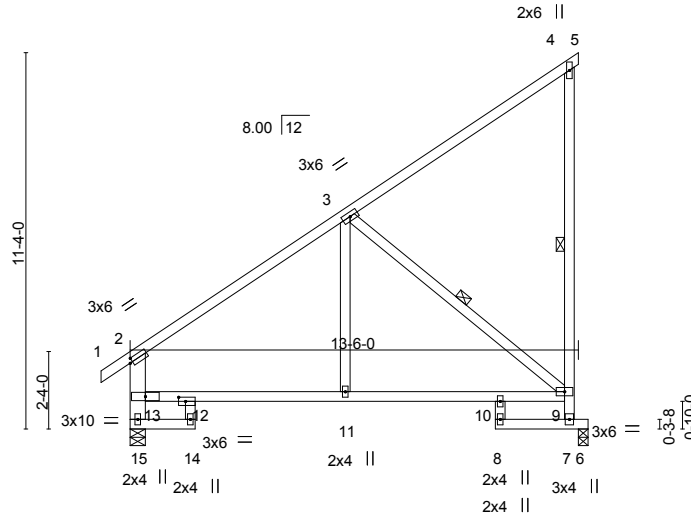


Plate Offsets (X, Y)-- [2:0-1-0,0-1-8], [12:0-2-8,0-1-8]

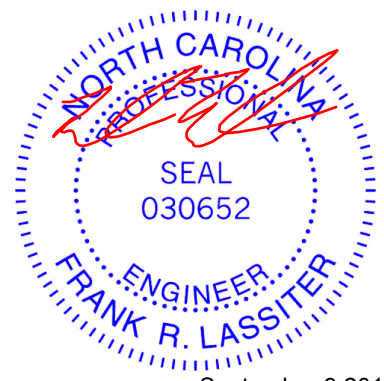
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.08 10-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Vert(TL) -0.25 10-11 >650 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.05 6 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.06 11-12 >999 240	Weight: 94 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 *Except* 12-14,8-10: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15,12-14.
WEBS 2x4 SP No.3 *Except* 2-15: 2x6 SP No.1	WEBS 1 Row at midpt 4-7, 3-9

REACTIONS. (lb/size) 15=605/0-5-8, 6=515/0-3-8
 Max Horz 15=320(LC 7)
 Max Uplift 6=-192(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-554/2, 7-9=-541/311, 13-15=-531/96, 2-13=-508/103
 BOT CHORD 14-15=-313/0, 12-13=0/563, 11-12=-253/372, 10-11=-253/372, 9-10=-216/262
 WEBS 3-9=-457/322, 3-11=-20/278

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=192.



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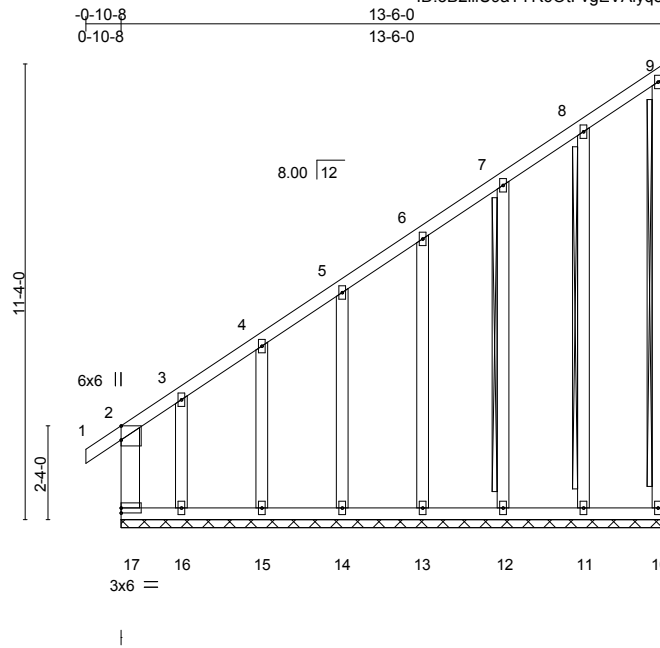
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TRENCO
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818 Soundside Road
 Edenton, NC 27932

Job J0916-4688	Truss J6	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	H&H/Biltmore A&B	E9831684
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Comtech, Inc., Fayetteville, NC 28309

8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:33:03 2016 Page 1
ID:3B2IliU9aTYR6OtFvgEVAlyq8tk-TZMnTbFhav8JxlsVBog51YrxcZ43feaYtP8p7kyfMYk



Scale = 1:57.3

Plate Offsets (X,Y)-- [2:0-4-3,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 0.55	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.49	Vert(TL) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.18	Horz(TL) -0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S					Weight: 121 lb	FT = 20%

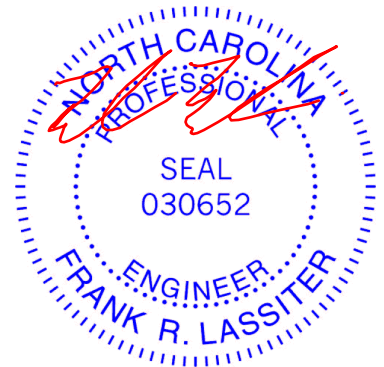
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x6 SP No.1 *Except*
9-10: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF Stud - 9-10, 8-11, 7-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 13-6-0.
(lb) - Max Horz 17=452(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 17, 10, 11, 12, 13 except
14=-116(LC 7), 16=-1045(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 10, 12, 13, 14, 15, 16 except
17=1054(LC 7), 11=254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-647/49, 2-3=-720/61, 3-4=-380/39, 4-5=-335/34, 5-6=-257/33
WEBS 3-16=-78/599

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10, 11, 12, 13 except (jt=lb) 14=116, 16=1045.
 - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Edenton, NC 27932

Job J0916-4688	Truss M2	Truss Type MONOPITCH	Qty 8	Ply 1	H&H/Biltmore A&B	E9831685
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8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:33:04 2016 Page 1
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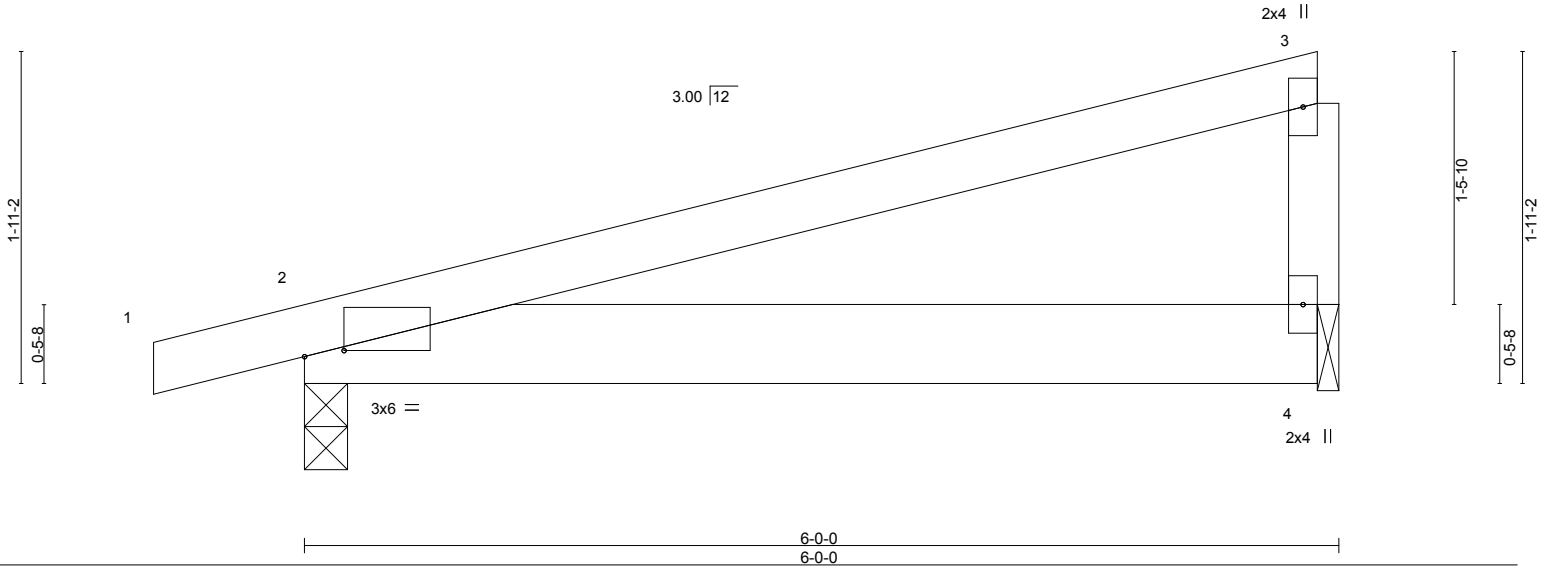


Plate Offsets (X,Y)--	[2:0-2-12,0-0-7]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.01	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	-0.04	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	4	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.00	2	****	Weight: 26 lb	FT = 20%

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

REACTIONS. (lb/size) 2=294/0-3-0, 4=223/0-1-8
Max Horz 2=57(LC 5)
Max Uplift 2=-59(LC 5), 4=-26(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



September 9, 2016

Job J0916-4688	Truss P1	Truss Type MONOPITCH SUPPORTED	Qty 2	Ply 1	H&H/Biltmore A&B Job Reference (optional)	E9831686
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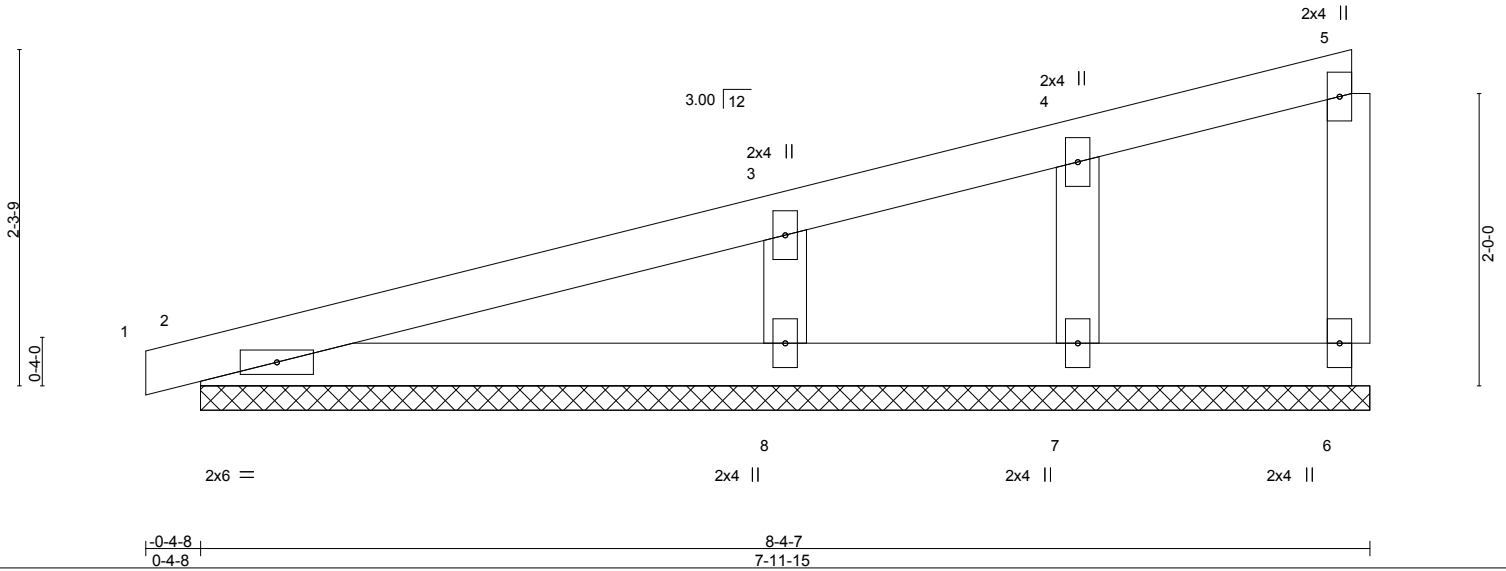
8.010 s Apr 20 2016 MiTek Industries, Inc. Fri Sep 09 12:33:04 2016 Page 1

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8-4-7
7-11-15

0-4-8
0-4-8

7-11-15

Scale = 1:15.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.00	6	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S					Weight: 30 lb	FT = 20%

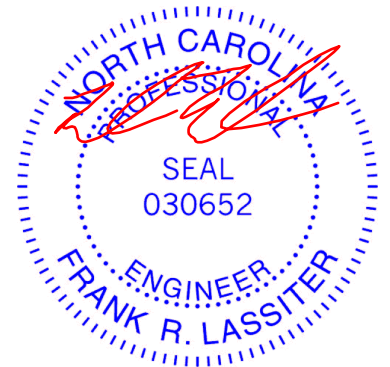
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-11-15.
(lb) - Max Horz 2=96(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=101(LC 5)
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=323(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=101.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

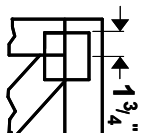
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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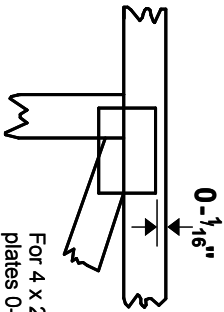
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

* Plate location details available in **MITek 2020 software** or upon request.

PLATE SIZE

4 X 4

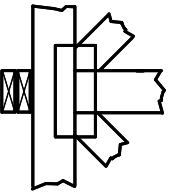
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



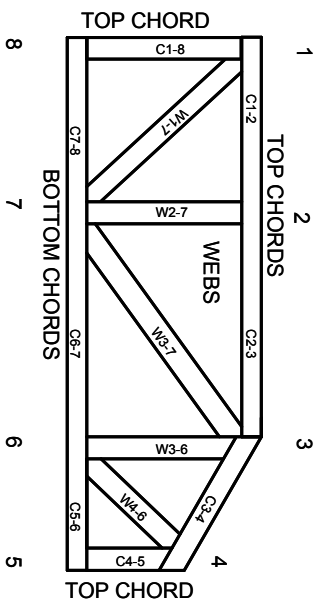
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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