

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: B0419-1852
Roosevelt A

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: E12919100 thru E12919130

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



April 16, 2019

Lassiter, Frank

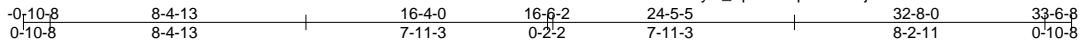
IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job B0419-1852	Truss A1	Truss Type COMMON	Qty 6	Ply 1	Roosevelt A	E12919100
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Comtech, Inc., Fayetteville, NC 28309

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ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-FTXWjvBTLd9G1n8tDQCa68GKSmX7F?5VRpvt0zQQoq



5x5 =

Scale = 1:75.7

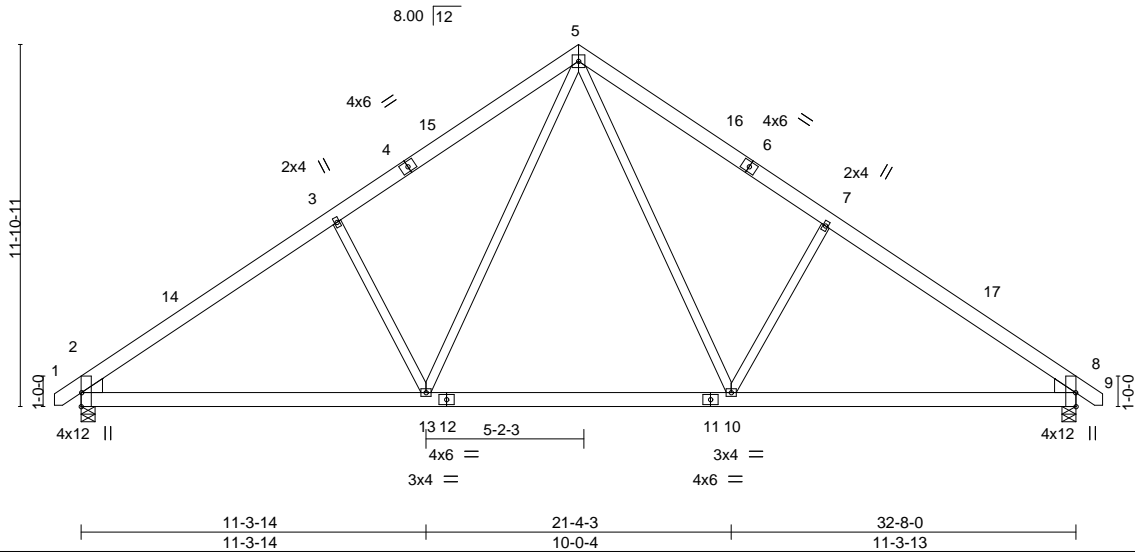


Plate Offsets (X,Y)-- [2:0-0-1,0-0-1], [2:0-0-2,0-5-11], [2:Edge,0-0-3], [8:0-0-1,0-0-1], [8:0-0-2,0-5-11], [8:Edge,0-0-3]

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 0.34	Vert(LL)	-0.25	10-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.29	10-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.04	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	2-13	>999		
								Weight: 232 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 5-13,5-10: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.1, Right: 2x6 SP No.1

REACTIONS.

(lb/size) 2=1347/0-5-8, 8=1347/0-5-8
 Max Horz 2=273(LC 9)
 Max Uplift 2=-112(LC 10), 8=-112(LC 11)
 Max Grav 2=1475(LC 17), 8=1475(LC 18)

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

TOP CHORD 2-3=-2021/441, 3-5=-1840/541, 5-7=-1837/535, 7-8=-2026/444
 BOT CHORD 2-13=-214/1715, 10-13=0/1158, 8-10=-219/1535
 WEBS 3-13=-492/313, 5-13=-193/926, 5-10=-186/915, 7-10=-490/312

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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 112 lb uplift at joint 2 and 112 lb uplift at joint 8.



April 16, 2019

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 B0419-1852	Truss A1-GE	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919101
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Comtech, Inc., Fayetteville, NC 28309

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ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-7En1ZHEzPsfhWOSseSGGWH_Q51N?YBv5MRt4?nzQQom

-0-10-8 16-4-0 16-6-2 32-8-0 33-6-8
 0-10-8 16-4-0 0-2-2 16-1-14 0-10-8

5x5 =

Scale = 1:72.1

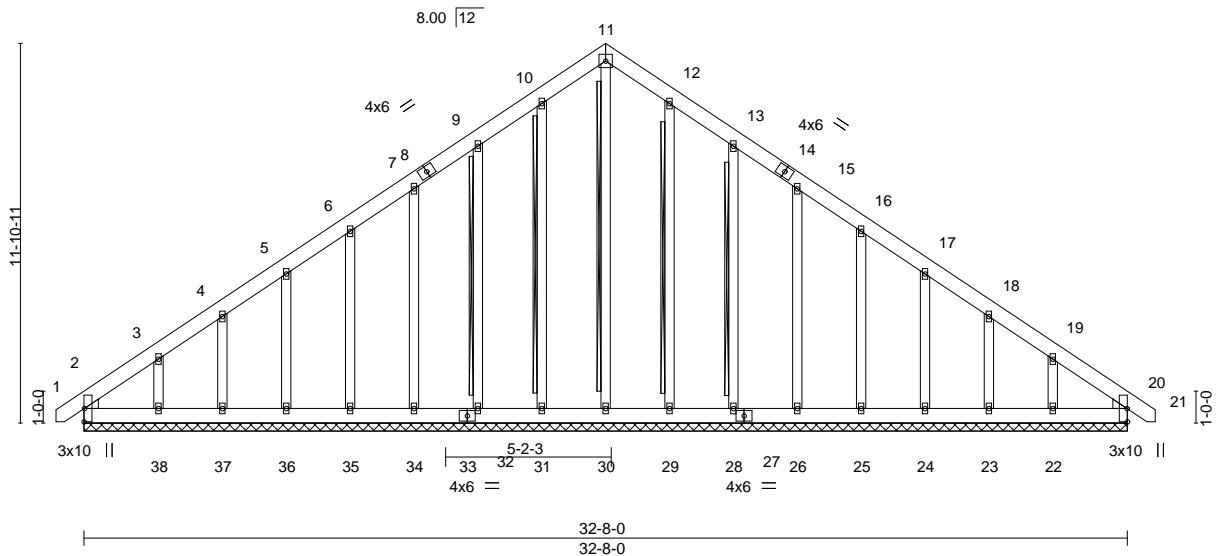


Plate Offsets (X,Y)-- [2:0-0-1,0-0-1], [2:0-0-2,0-3-11], [20:0-0-1,0-0-1], [20:0-0-2,0-3-11]

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	20	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	20	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 309 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.3 *Except*
 11-30: 2x4 SP No.2

WEDGE

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

REACTIONS.

All bearings 32-8-0.
 (lb) - Max Horz 2--273(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 31, 32, 34, 35, 36, 37, 29,
 28, 26, 25, 24, 23, 22 except 38--106(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 35, 36, 37, 38, 25, 24, 23,
 22 except 30=256(LC 20), 31=263(LC 17), 32=262(LC 17), 34=268(LC 17),
 29=253(LC 18), 28=265(LC 18), 26=268(LC 18)

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

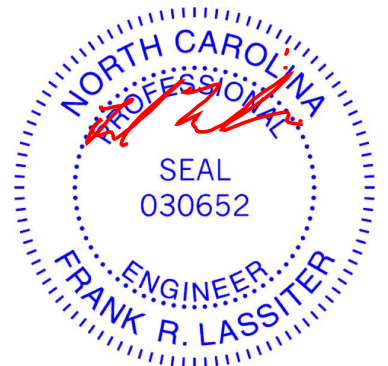
TOP CHORD 2-3=-285/231, 10-11=-264/293, 11-12=-264/293

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Corner(3) -0-8-15 to 3-7-14, Exterior(2) 3-7-14 to 11-11-3, Corner(3) 11-11-3 to 16-4-0, Exterior(2) 20-8-13 to 29-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 2, 20, 31, 32, 34, 35, 36, 37, 29, 28, 26, 25, 24, 23, 22 except (jt=lb) 38=106.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 11-30, 10-31, 9-32, 12-29, 13-28
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.



April 16, 2019

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

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818 Soundside Road
 Edenton, NC 27932

Job B0419-1852	Truss A1P	Truss Type COMMON	Qty 5	Ply 1	Roosevelt A	E12919102
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:38:39 2019 Page 1
ID:3vEs44?mxllmai1?_Tpv0z17qB-3duo_zGDwTvPmib1ahJ_MPWJpBatffNOqkMB4gzQQok

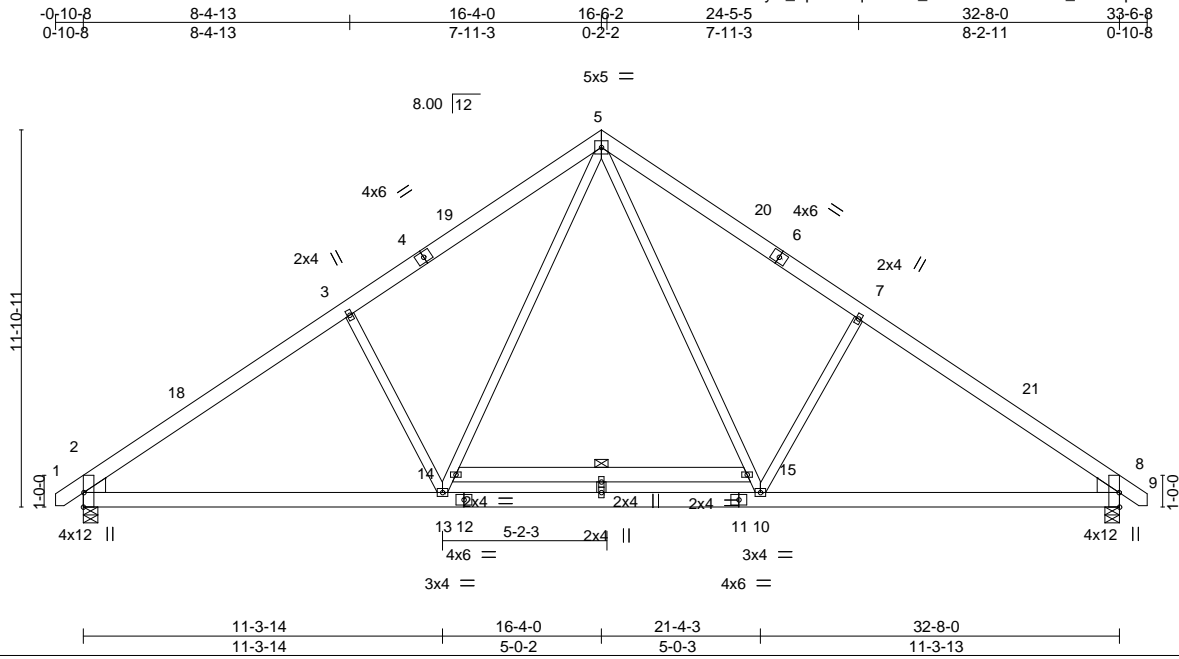


Plate Offsets (X,Y)--	[2:0-0-1,0-0-1], [2:0-0-2,0-5-11], [2:Edge,0-0-3], [8:0-0-1,0-0-1], [8:0-0-2,0-5-11], [8:Edge,0-0-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.11	2-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.24	2-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.05	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05	2-13	>999		
								Weight: 254 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
5-13,5-10: 2x4 SP No.2, 14-15: 2x6 SP No.1

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.
WEBS 1 Row at midpt 14-15

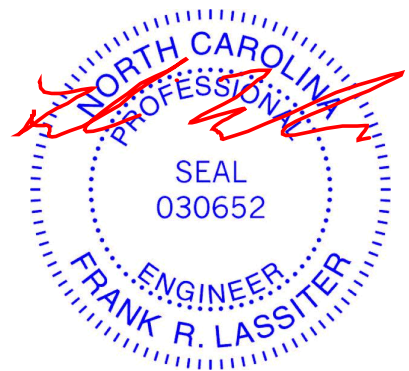
WEDGE
Left: 2x6 SP No.1, Right: 2x6 SP No.1

REACTIONS. (lb/size) 2=1632/0-5-8, 8=1632/0-5-8
Max Horz 2=-273(LC 6)
Max Uplift 2=-150(LC 10), 8=-150(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2236/572, 3-5=-2077/671, 5-7=-2069/666, 7-8=-2240/575
BOT CHORD 2-13=-319/1775, 10-13=-125/1372, 8-10=-324/1724
WEBS 3-13=-465/305, 13-14=-179/689, 5-14=-272/1014, 5-15=-265/1002, 10-15=-172/677,
7-10=-463/304

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) except (jt=lb) 2=150, 8=150.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-60, 2-8=-20, 14-15=-60



April 16, 2019

Job B0419-1852	Truss A2	Truss Type Roof Special	Qty 3	Ply 1	Roosevelt A	E12919103
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:38:42 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zi7qB-UCawc_I6DOH_d9KcFpsh_28sWocZs1fqWibrg?zQQoh

-0-10-8	2-5-8	4-7-8	6-8-12	11-0-0	16-4-0	16-6-2	24-5-5	32-8-0	33-6-8
0-10-8	2-5-8	2-2-0	2-1-4	4-3-4	5-4-0	0-2-2	7-11-3	8-2-11	0-10-8

5x5 =

Scale = 1:77.0

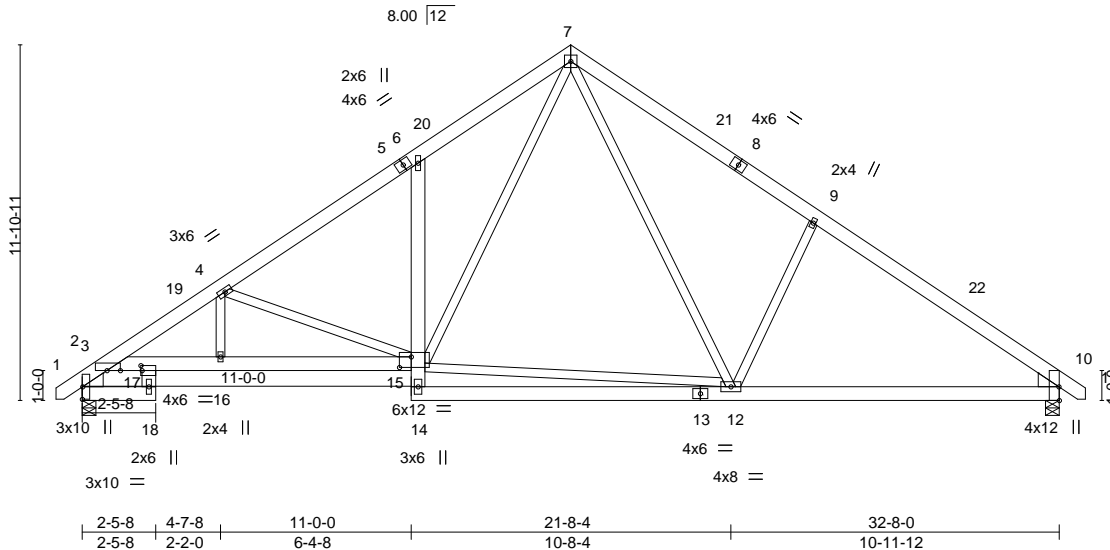


Plate Offsets (X,Y)-- [2:0-0-1,0-0-1], [2:0-0-2,0-5-11], [3:0-5-6,0-0-0], [10:0-0-2,0-5-11], [10:0-0-1,0-0-1], [10:Edge,0-0-3], [15:0-4-12,0-4-4], [17:0-0-8,0-2-0]

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 0.32	Vert(LL)	-0.08	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.18	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.08	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05	6	>999		
								Weight: 272 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-12,4-15,4-16: 2x4 SP No.3

WEDGE

Left: 2x6 SP No.1, Right: 2x6 SP No.1

REACTIONS.

(lb/size) 2=1347/0-5-8, 10=1347/0-5-8
Max Horz 2=-273(LC 6)
Max Uplift 2=-112(LC 10), 10=-112(LC 11)

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

TOP CHORD 2-3=-1404/326, 3-4=-2390/520, 4-6=-1738/457, 6-7=-1798/630, 7-9=-1664/551,
9-10=-1780/439
BOT CHORD 2-18=-108/531, 3-17=-253/1550, 16-17=-338/2081, 15-16=-338/2081, 6-15=-411/259,
12-14=0/278, 10-12=-216/1356
WEBS 7-15=-292/967, 7-12=-197/733, 9-12=-495/319, 4-15=-741/222, 4-16=0/375,
12-15=-2/674

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) except (jt=lb) 2=112, 10=112.



April 16, 2019

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 B0419-1852	Truss A2-GE	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919104
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:38:45 2019 Page 1

ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-unG3F0K_WJgZUd3BwyPObgmN1cdF3LeGCgpVHJzQQoe

-0-10-8	2-5-8	4-7-8	6-8-12	11-0-0	16-4-0	16-6-2	24-5-5	32-8-0	33-6-8
0-10-8	2-5-8	2-2-0	2-1-4	4-3-4	5-4-0	0-2-2	7-11-3	8-2-11	0-10-8

5x5 =

Scale = 1:77.0

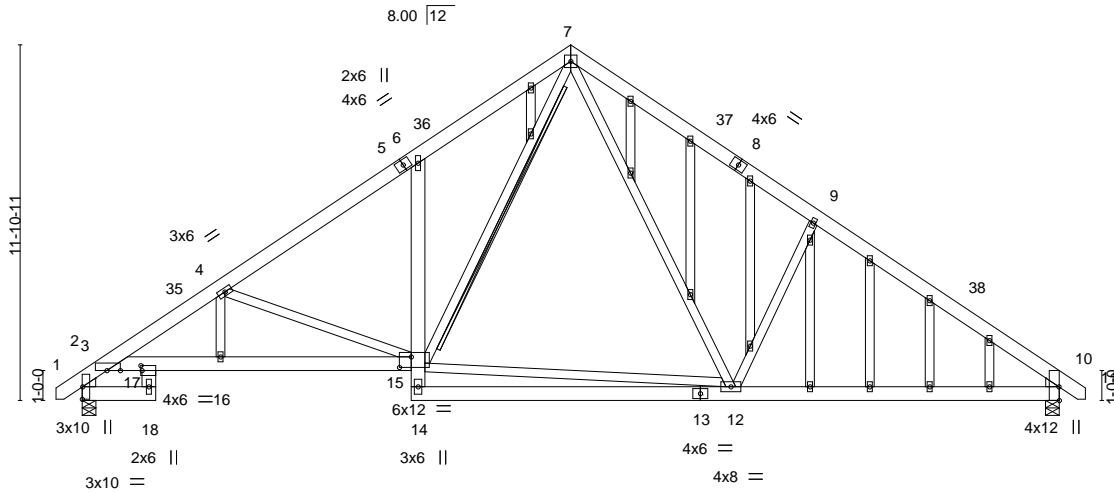


Plate Offsets (X,Y)--	[2:0-0-1,0-0-1], [2:0-0-2,0-3-11], [3:0-5-6,0-0-0], [10:0-0-2,0-3-11], [10:0-0-1,0-0-1], [10:Edge,0-0-3], [15:0-4-12,0-4-4], [17:0-0-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.08	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.18	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.08	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07	6	>999		
								Weight: 315 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-7-4 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 7-15
9-12,4-15,4-16: 2x4 SP No.3	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.
OTHERS 2x4 SP No.3	Brace must cover 90% of web length.
WEDGE	
Left: 2x4 SP 2400F 2.0E, Right: 2x4 SP 2400F 2.0E	

REACTIONS. (lb/size) 2=1347/0-5-8, 10=1347/0-5-8
 Max Horz 2=-341(LC 6)
 Max Uplift 2=-305(LC 10), 10=-305(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1404/326, 3-4=-2390/594, 4-6=-1738/457, 6-7=-1798/634, 7-9=-1664/551, 9-10=-1780/439
 BOT CHORD 2-18=-216/560, 3-17=-416/1585, 16-17=-633/2145, 15-16=-633/2145, 6-15=-411/338, 12-14=-26/284, 10-12=-216/1356
 WEBS 7-15=-442/984, 7-12=-314/733, 9-12=-495/422, 4-15=-770/365, 4-16=-18/375, 12-15=-63/681

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 10=305.
 - 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 16, 2019

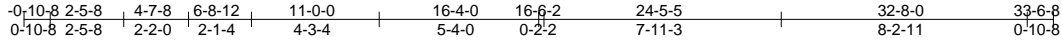
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0419-1852	Truss A3	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Roosevelt A	E12919105
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Comtech, Inc., Fayetteville, NC 28309

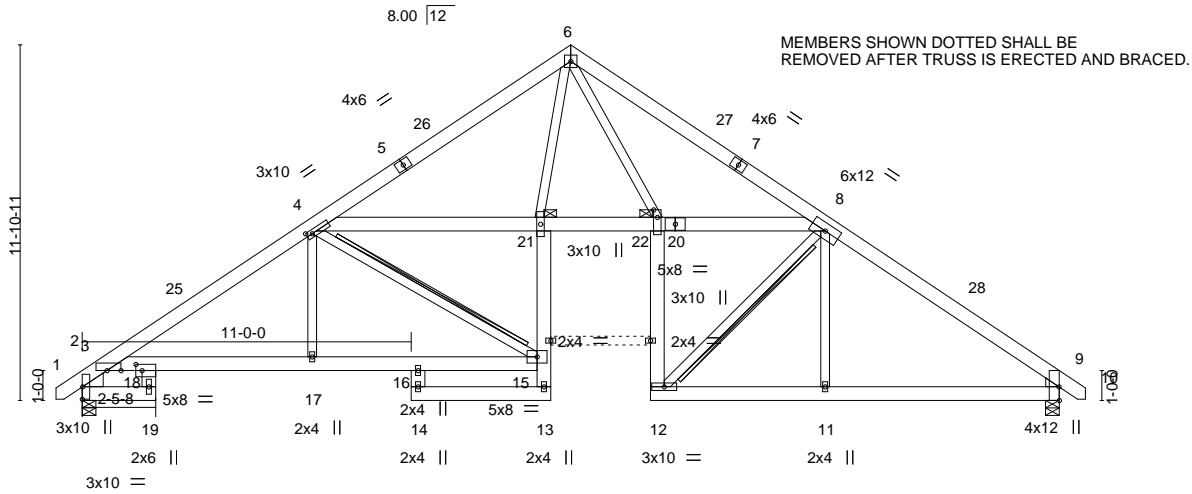
8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:38:49 2019 Page 1

ID:3vEs44?mxllmaiyl?_Tpv0z17qB-nYVa4ONVaYA_yEMy9nUKmWw2eDzJ?71s7InjQ5zQQoa



5x5 ||

Scale = 1:77.0



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

Plate Offsets (X,Y)--	[2:0-0-1,0-0-1], [2:0-0-2,0-5-11], [3:0-5-10,0-0-0], [4:0-2-4,0-1-8], [9:0-0-2,0-3-11], [9:0-0-1,0-0-1], [9:Edge,0-0-3], [18:0-2-8,0-2-8], [22:0-3-0,0-1-8]
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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 0.39	Vert(LL)	-0.16	12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.32	12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.36	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	15	>999		
								Weight: 308 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-14 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 8-12, 4-15
8-20,13-21,12-22,14-16,4-20: 2x6 SP No.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.
OTHERS 2x4 SP No.3	Brace must cover 90% of web length.
WEDGE	JOINTS 1 Brace at Jt(s): 21, 22
Left: 2x6 SP No.1, Right: 2x4 SP 2400F 2.0E	

REACTIONS. (lb/size) 2=1311/0-5-8, 9=1306/0-5-8
 Max Horz 2=273(LC 6)
 Max Uplift 2=-130(LC 10), 9=-132(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1385/373, 3-4=-2038/518, 4-6=-2450/519, 6-8=-3046/625, 8-9=-1773/463
 BOT CHORD 2-19=-148/567, 3-18=-145/1166, 17-18=-283/1717, 16-17=-286/1704, 15-16=-286/1704, 11-12=-239/1320, 9-11=-238/1323
 WEBS 4-21=-62/1922, 21-22=-37/1734, 8-22=-149/2409, 15-21=-147/1133, 12-22=-231/1434, 8-12=-1918/348, 8-11=0/316, 4-15=-2025/339, 6-21=-152/1142, 6-22=-247/1492, 4-17=0/420

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) except (jt=lb) 2=130, 9=132.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 16, 2019

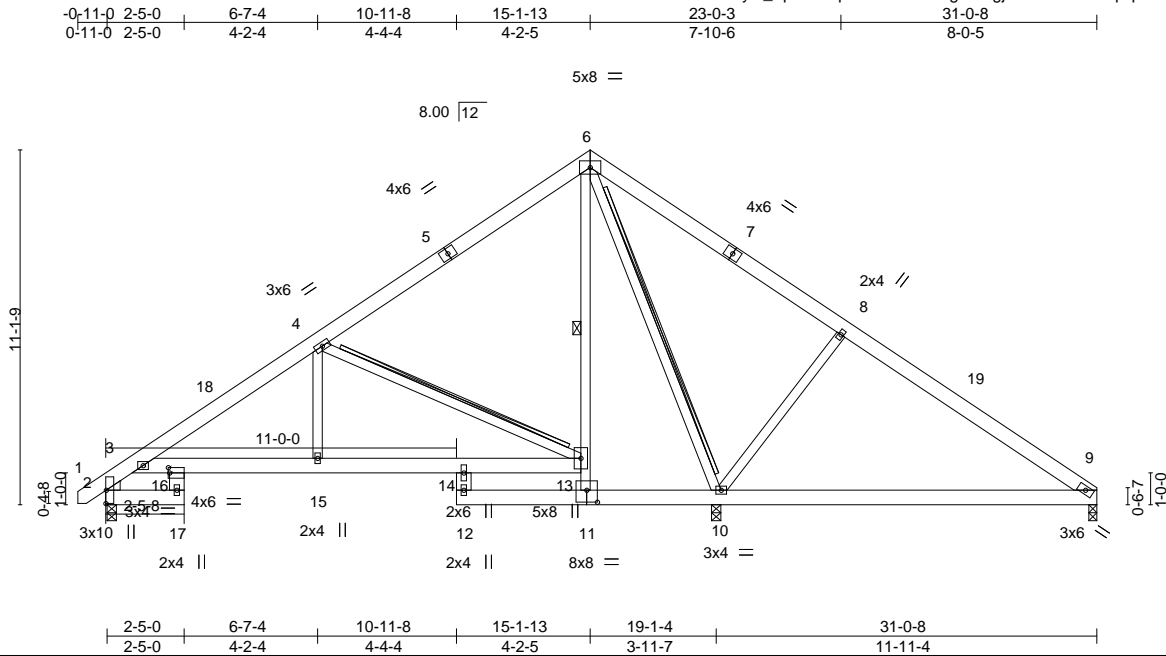
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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.



Job B0419-1852	Truss B1	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Roosevelt A	E12919106
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:38:53 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0z17qB-fJk4wIR?dmgQRsgjOdZGwM5m?qOpX?mS2wlvZszQQoW



Scale = 1:72.3

Plate Offsets (X,Y)--	[2:0-0-1,0-0-1], [2:0-0-2,0-3-11], [11:0-4-0,0-4-8], [16:0-0-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.12	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.24	9-10	>599		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	15-16	>999		
								Weight: 238 lb	FT = 20%

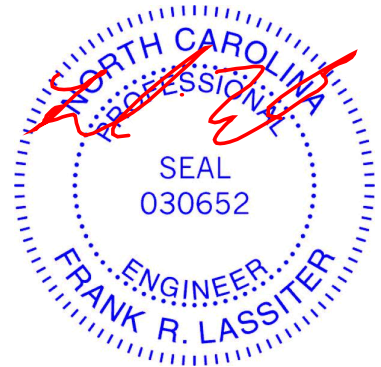
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
6-10,6-11: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 6-11
T-Brace: 2x4 SPF No.2 - 6-10, 4-13
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. (lb/size) 2=717/0-3-8, 10=1497/0-3-8, 9=304/0-3-0
Max Horz 2=-255(LC 6)
Max Uplift 2=-72(LC 10), 10=-88(LC 10), 9=-85(LC 11)
Max Grav 2=717(LC 1), 10=1569(LC 17), 9=357(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-724/206, 3-4=-1000/263, 4-6=-346/229, 6-8=-34/405
BOT CHORD 2-17=-121/365, 3-16=-45/598, 15-16=-162/963, 14-15=-162/963, 13-14=-236/800
WEBS 6-10=-1040/133, 8-10=-564/329, 6-13=-90/467, 4-13=-861/273, 4-15=0/402

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 19-7-2 to 26-6-11 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 9.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 16, 2019

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.

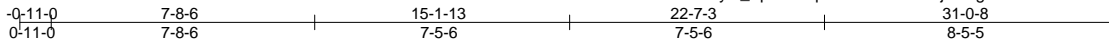


818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss B2	Truss Type COMMON	Qty 1	Ply 1	Roosevelt A	E12919107
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:38:58 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-0HYzzTU8SJlxYgBA8RdQoZFr3McKNNBCThF3zQQoR



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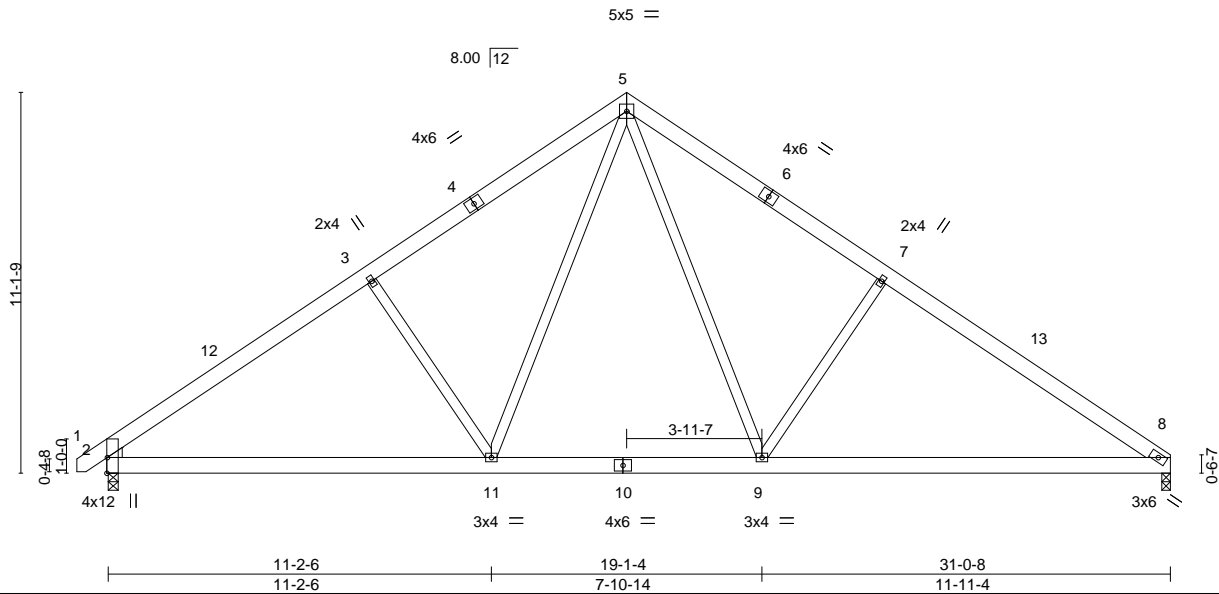


Plate Offsets (X,Y)-- [2:0-0-1,0-0-1], [2:0-0-2,0-3-11], [2:Edge,0-0-3]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.14	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.31	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.04	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	8-9	>999	240		
							Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 5-11,5-9: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(lb/size) 2=1287/0-3-8, 8=1232/0-3-0
 Max Horz 2=-255(LC 6)
 Max Uplift 2=-105(LC 10), 8=-97(LC 11)
 Max Grav 2=1374(LC 17), 8=1322(LC 18)

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

TOP CHORD 2-3=-1838/438, 3-5=-1651/500, 5-7=-1704/511, 7-8=-1903/455
 BOT CHORD 2-11=-220/1584, 9-11=-3/1105, 8-9=-245/1498
 WEBS 3-11=-461/292, 5-11=-166/768, 5-9=-186/877, 7-9=-548/327

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 19-7-2 to 26-6-11 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=105.



April 16, 2019

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.

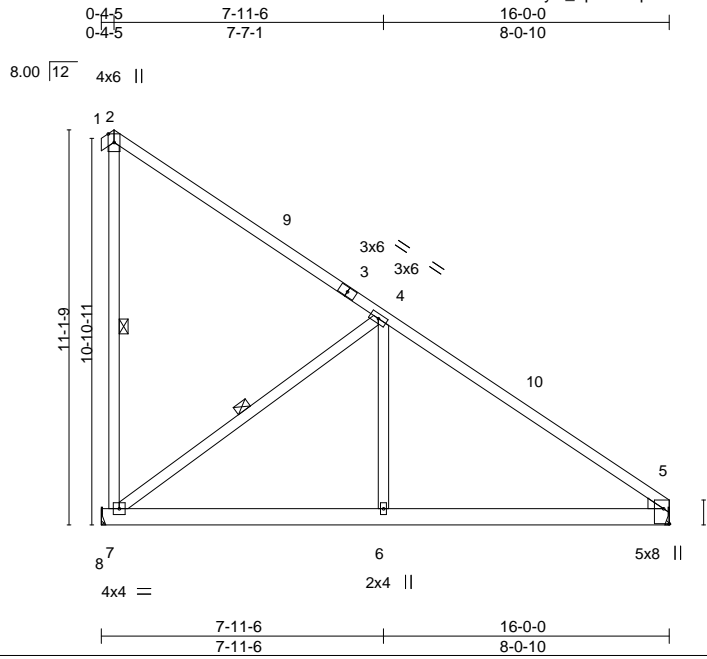


818 Soundside Road
 Edenton, NC 27932

Job B0419-1852	Truss B3	Truss Type COMMON	Qty 4	Ply 1	Roosevelt A	E12919108
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:03 2019 Page 1
ID:3vEs44?mxllmai!/?_Tpv0zI7qB-MELs0AYHHRx?eORe_jkckTVN7spbHcvwLTASwHzQQoM



Scale = 1:64.9

Plate Offsets (X,Y)-- [5:0-0-10,0-0-15], [5:0-1-5,0-5-7], [5:Edge,0-1-15]

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)	-0.03	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.07	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	5-6	>999		
								Weight: 104 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
2-7: 2x4 SP No.2

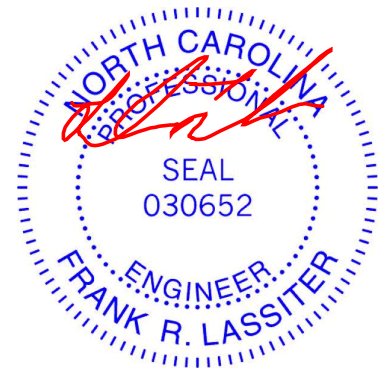
WEDGE
Right: 2x4 SP No.3

REACTIONS. (lb/size) 8=639/Mechanical, 5=635/Mechanical
Max Horz 8=-346(LC 11)
Max Uplift 8=-195(LC 11)
Max Grav 8=680(LC 18), 5=635(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-794/0
BOT CHORD 7-8=-404/428, 6-7=0/551, 5-6=0/551
WEBS 4-7=-807/319, 4-6=0/411

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-9-2, Interior(1) 4-9-2 to 11-6-7, Exterior(2) 11-6-7 to 15-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 8=195.

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 2-7



April 16, 2019

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

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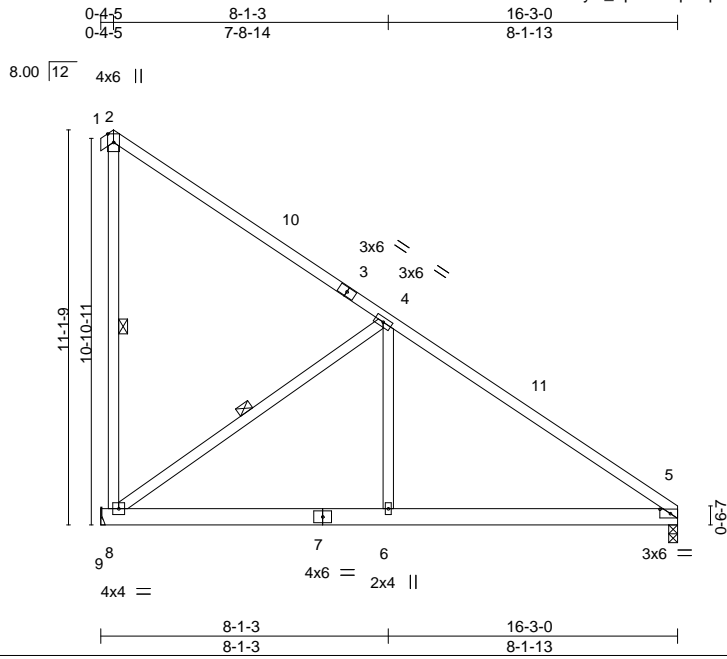


818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss B4	Truss Type COMMON	Qty 3	Ply 1	Roosevelt A	E12919109
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:06 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-np1?fCb9ZmJaVrADfsJy67uA3riUzUM1RP6XczQoQJ



Scale = 1:64.9

Plate Offsets (X,Y)-- [5:0-3-9,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	Vert(LL)	-0.03	6-8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.08	6-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	5-6	>999		
	Code IRC2015/TPI2014						Weight: 104 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
2-8: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-8, 2-8

REACTIONS.

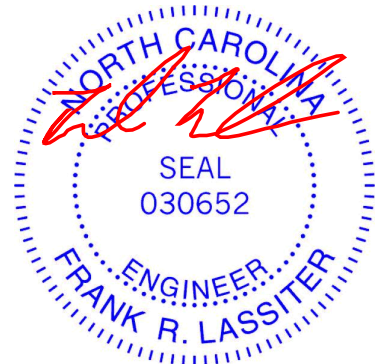
(lb/size) 9=646/Mechanical, 5=642/0-3-0
Max Horz 9=-346(LC 11)
Max Uplift 9=-194(LC 11)
Max Grav 9=687(LC 18), 5=642(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-815/0
BOT CHORD 8-9=-403/427, 6-8=0/574, 5-6=0/574
WEBS 4-8=-823/318, 4-6=0/415

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-9-2, Interior(1) 4-9-2 to 11-8-11, Exterior(2) 11-8-11 to 16-1-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 9=194.



April 16, 2019

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.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss B5-GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Roosevelt A	E12919110
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:08 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zI7qB-jC8I4tcQ5NZIk9JbmHKn1XDMitbtyvRfUuDbUzQQoH

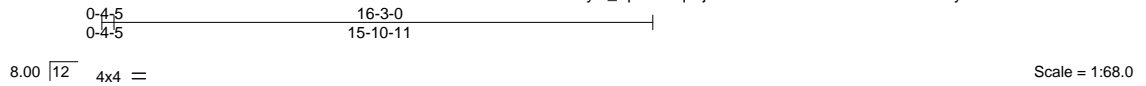


Plate Offsets (X,Y)-- [16:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.02	19	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 136 lb	FT = 20%

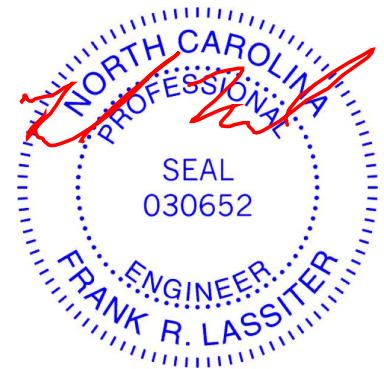
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3 *Except*
2-19: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-19, 3-18
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 16-5-8.
(lb) - Max Horz 1=496(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11, 19, 18, 16, 15, 14, 13, 20 except 1=114(LC 11),
17=110(LC 11), 12=101(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 15, 14, 13, 12 except 19=364(LC 11), 18=266(LC 18),
17=262(LC 18), 16=271(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-375/478, 2-3=-442/549, 3-4=-404/505, 4-5=-338/421, 5-7=-283/350, 7-8=-224/275
WEBS 2-19=-345/238

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-9-2, Exterior(2) 4-9-2 to 11-10-3, Corner(3) 11-10-3 to 16-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 11, 19, 18, 16, 15, 14, 13, 20 except (jt=lb) 1=114, 17=110, 12=101.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



April 16, 2019

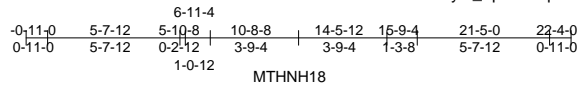
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss C1	Truss Type ATTIC	Qty 3	Ply 1	Roosevelt A	E12919111
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:10 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-faGWUZegd?p0_TT_uIMF6ylcTg7FQe_yy3NKgNzQQoF



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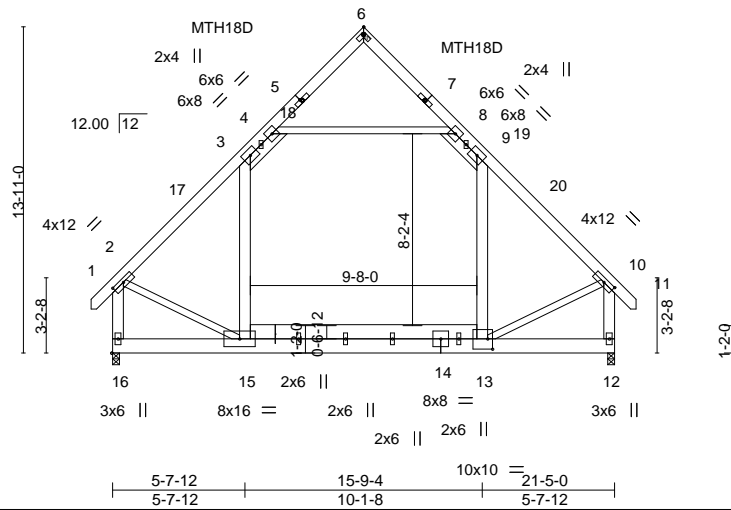


Plate Offsets (X,Y)-- [2:0-6-0,0-1-12], [5:0-0-11,0-1-2], [6:0-2-12,0-2-12], [7:1-9-15,17-0-15], [10:0-5-12,0-2-0], [13:0-2-8,0-5-4]

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)	-0.14	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.23	13-15	>999	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13	15	>999		
								Weight: 260 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x6 SP No.1 *Except*
4-8: 2x4 SP No.1, 2-15,10-13: 2x4 SP No.3, 13-15: 2x8 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.

REACTIONS.

(lb/size) 16=1185/0-3-8, 12=1185/0-3-8
Max Horz 16=276(LC 9)
Max Grav 16=1409(LC 19), 12=1409(LC 18)

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

TOP CHORD 2-3=-1389/55, 3-4=-833/177, 8-9=-833/177, 9-10=-1389/55, 2-16=-1562/62, 10-12=-1563/62
BOT CHORD 15-16=-277/352, 13-15=0/885
WEBS 4-8=-766/242, 3-15=-127/468, 9-13=-127/468, 2-15=0/935, 10-13=0/937

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 6-4-3, Exterior(2) 6-4-3 to 10-9-0, Interior(1) 15-1-13 to 17-10-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with USP NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (5 Nails per side 10 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-8; 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
- Attic room checked for L/360 deflection.



April 16, 2019

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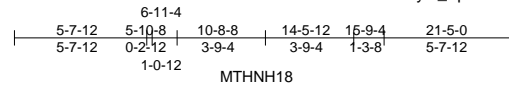


818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss C2	Truss Type ATTIC	Qty 3	Ply 1	Roosevelt A	E12919112
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:12 2019 Page 1
ID:3vEs44?mxllmai!/?_Tpv0z17qB-bzOGvFfw9c3kDndN?6OjBNNyyUpiuYTFPNsRkFzQQoD



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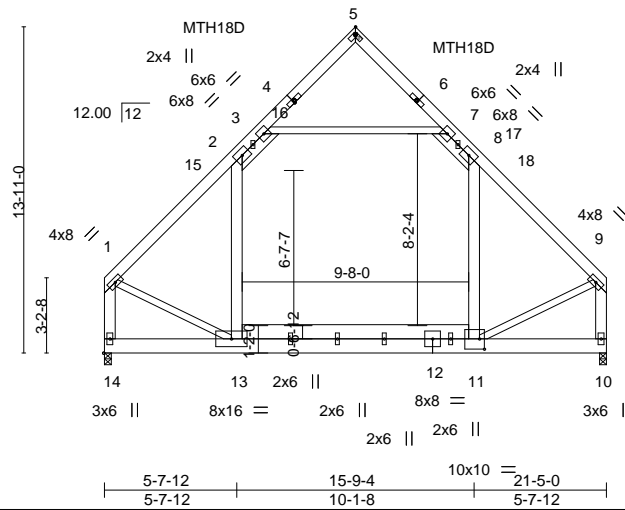


Plate Offsets (X,Y)-- [4:0-0-11,0-1-2], [5:0-2-12,0-2-12], [6:1-9-15,17-0-15], [11:0-2-8,0-5-4]

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)	-0.15 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.23 11-13	>999	240	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13 13	>999	240		Weight: 255 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x6 SP No.1 *Except*
3-7: 2x4 SP No.1, 1-13,9-11: 2x4 SP No.3, 11-13: 2x8 SP No.4

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.

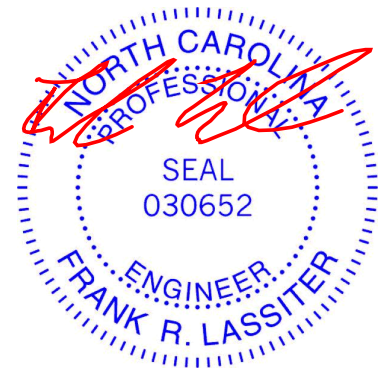
(lb/size) 14=1123/0-3-8, 10=1123/0-3-8
Max Horz 14=251(LC 7)
Max Grav 14=1368(LC 19), 10=1368(LC 18)

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

TOP CHORD 1-2=-1385/31, 2-3=-835/173, 7-8=-835/173, 8-9=-1385/31, 1-14=-1521/12, 9-10=-1521/12
BOT CHORD 13-14=-278/315, 11-13=0/876
WEBS 3-7=-773/236, 2-13=-124/458, 8-11=-124/458, 1-13=0/952, 9-11=0/953

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 6-4-3, Exterior(2) 6-4-3 to 10-9-0, Interior(1) 15-1-13 to 16-9-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with USP NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (5 Nails per side 10 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).2-13, 8-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



April 16, 2019

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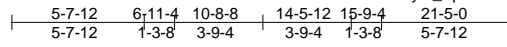


818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss C3	Truss Type ATTIC	Qty 1	Ply 1	Roosevelt A	E12919113
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:13 2019 Page 1
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MTHNH18

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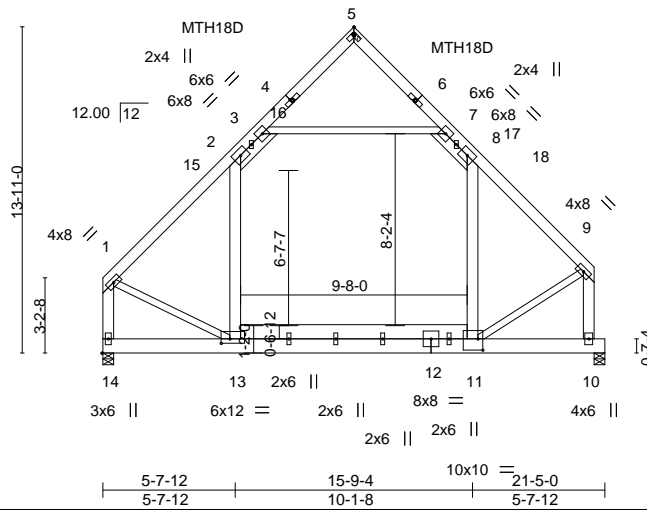


Plate Offsets (X,Y)-- [4:0-0-11,0-1-2], [5:0-2-12,0-2-12], [6:1-9-15,17-0-15], [11:0-2-8,0-5-12], [13:0-4-8,0-2-4]

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 0.42	Vert(LL)	-0.14	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.22	11-13	>999	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.14	13	>999		Weight: 254 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-7: 2x4 SP No.1, 1-13,9-11: 2x4 SP No.3, 11-13: 2x8 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.

REACTIONS.

(lb/size) 14=1098/0-5-8, 10=1111/0-5-8
 Max Horz 14=251(LC 7)
 Max Grav 14=1338(LC 19), 10=1369(LC 18)

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

TOP CHORD 1-2=-1333/29, 2-3=-812/173, 7-8=-812/173, 8-9=-1328/33, 1-14=-1462/9, 9-10=-1582/3
 BOT CHORD 13-14=-277/313, 11-13=0/840
 WEBS 3-7=-744/235, 2-13=-132/425, 8-11=-131/436, 1-13=0/910, 9-11=0/990

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 6-4-3, Exterior(2) 6-4-3 to 10-9-0, Interior(1) 15-1-13 to 16-4-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with USP NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (5 Nails per side 10 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s). 2-13, 8-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



April 16, 2019

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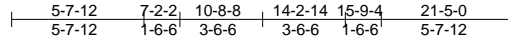
818 Soundside Road
 Edenton, NC 27932

Job B0419-1852	Truss C4	Truss Type ATTIC	Qty 1	Ply 2	Roosevelt A	E12919114
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:15 2019 Page 1

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MTHNH18

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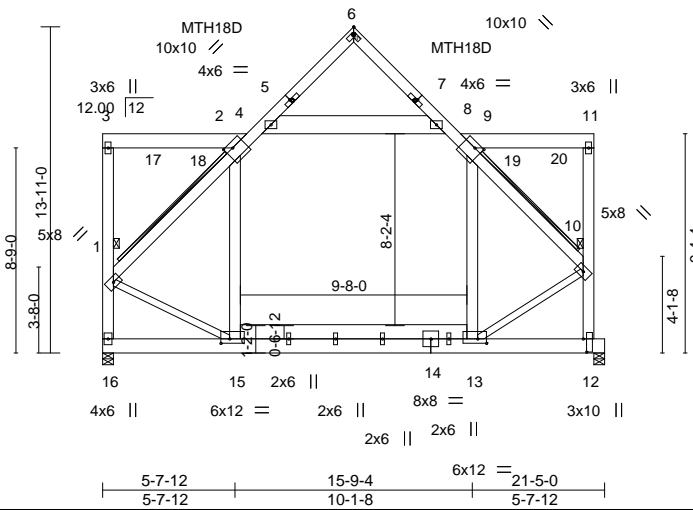


Plate Offsets (X,Y)-- [2:0-3-14,0-2-12], [5:0-0-11,0-1-2], [6:0-2-12,0-2-12], [7:0-0-11,0-1-2], [9:0-3-14,0-2-12], [12:0-6-12,0-1-12], [13:0-4-8,0-2-4], [15:0-4-8,0-2-4]

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)	-0.10	15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.12	13-15	>999	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.06	13-15	2182		
								Weight: 644 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
2-3,9-11: 2x8 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x6 SP No.1 *Except*
4-8: 2x10 SP 2400F 2.0E, 1-15,10-13: 2x4 SP No.3
13-15: 2x8 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
T-Brace: 2x4 SPF No.2 - 1-2, 9-10
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-16, 11-12

REACTIONS.

(lb/size) 16=4631/0-5-8, 12=4613/0-5-8
Max Horz 16=-115(LC 4)
Max Uplift 12=-232(LC 8)
Max Grav 16=5981(LC 35), 12=6105(LC 34)

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

TOP CHORD 1-2=-4982/65, 2-4=-5016/212, 8-9=-5013/217, 9-10=-4965/44, 1-16=-6034/0,
1-3=-782/0, 10-12=-6232/130, 10-11=-502/156
BOT CHORD 13-15=-52/3578
WEBS 4-8=-3469/89, 2-15=-1258/138, 9-13=-1621/558, 1-15=-105/3926, 10-13=-18/4172

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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x10 - 2 rows staggered at 0-6-0 oc, 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; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with USP NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (5 Nails per side 10 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 2-4, 8-9, 4-8; Wall dead load (5.0psf) on member(s).2-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=232.



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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	Truss	Truss Type	Qty	Ply	Roosevelt A	E12919114
B0419-1852	C4	ATTIC	1	2	Job Reference (optional)	

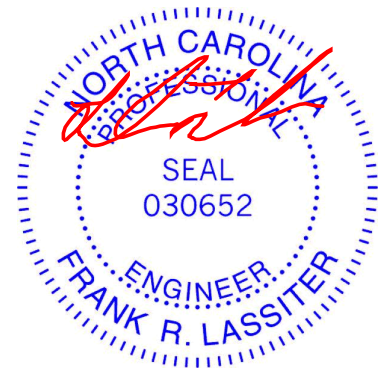
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:15 2019 Page 2
 ID:3vEs44?mxllmaiyl?_Tpv0zI7qB-0Y4PYHipSXRI4EMyhFyQp??T8hsZ5wqh5L45LazQQoA

- NOTES-**
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 51 lb up at 0-3-4, 1212 lb down and 135 lb up at 15-5-7, and 317 lb down and 118 lb up at 17-5-12, and 317 lb down and 118 lb up at 19-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 17) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 15-16=-20, 13-15=-40, 12-13=-20, 2-4=-80, 4-6=-60, 6-8=-60, 8-9=-80, 4-8=-490(F=-470), 2-3=-60, 9-11=-60
 - Drag: 2-15=-10, 9-13=-10
 - Concentrated Loads (lb)
 - Vert: 1=-27 2=-562 9=-1152 17=-562 18=-562 19=-277(B) 20=-277(B)



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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.



Job B0419-1852	Truss D1	Truss Type SCISSORS	Qty 3	Ply 1	Roosevelt A	E12919115
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:16 2019 Page 1
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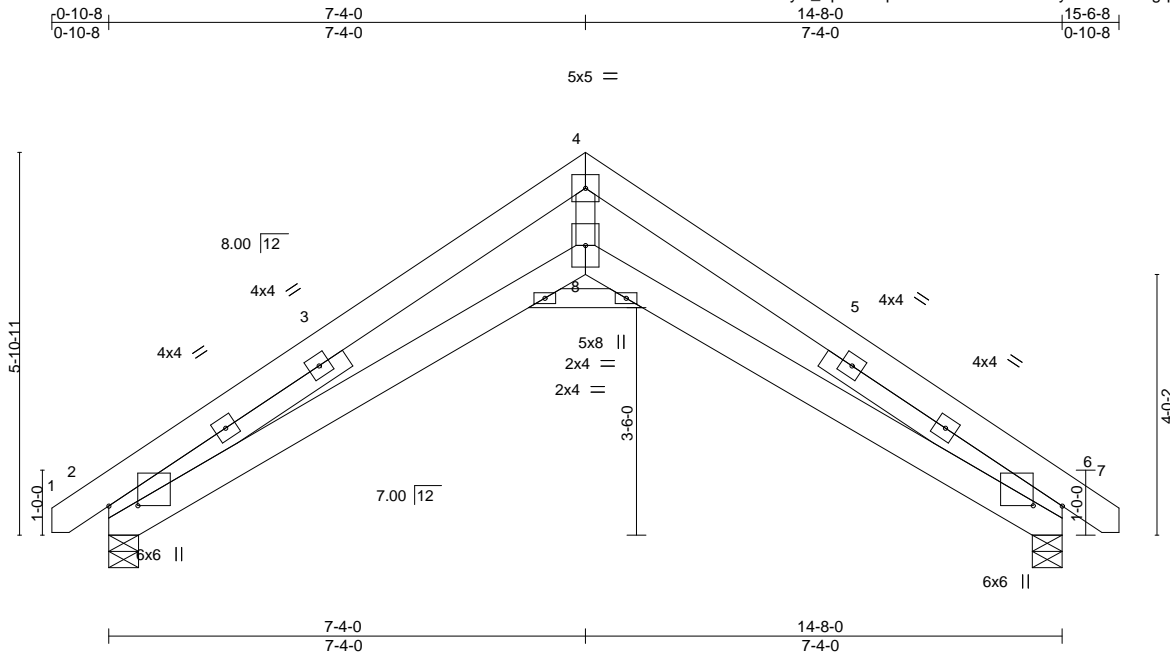


Plate Offsets (X,Y)--	[2:0-0-1,0-5-6], [6:0-0-1,0-5-6]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.07 8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.16 8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.22 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 8 >999 240	Weight: 104 lb	FT = 20%

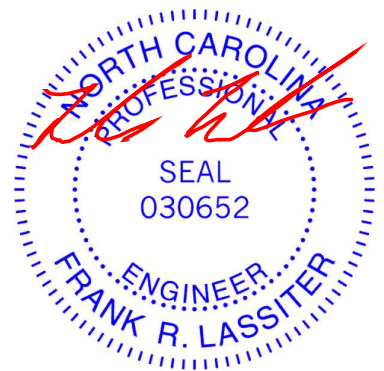
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 4-5-1, Right 2x4 SP No.3 4-5-1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=627/0-5-8, 6=627/0-5-8
Max Horz 2=-131(LC 6)
Max Uplift 2=-55(LC 10), 6=-55(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1871/256, 4-6=-1842/255
BOT CHORD 2-8=-92/1647, 6-8=-91/1614
WEBS 4-8=-25/1724

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



April 16, 2019

Job B0419-1852	Truss D2	Truss Type SCISSORS	Qty 7	Ply 1	Roosevelt A	E12919116
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8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:17 2019 Page 1
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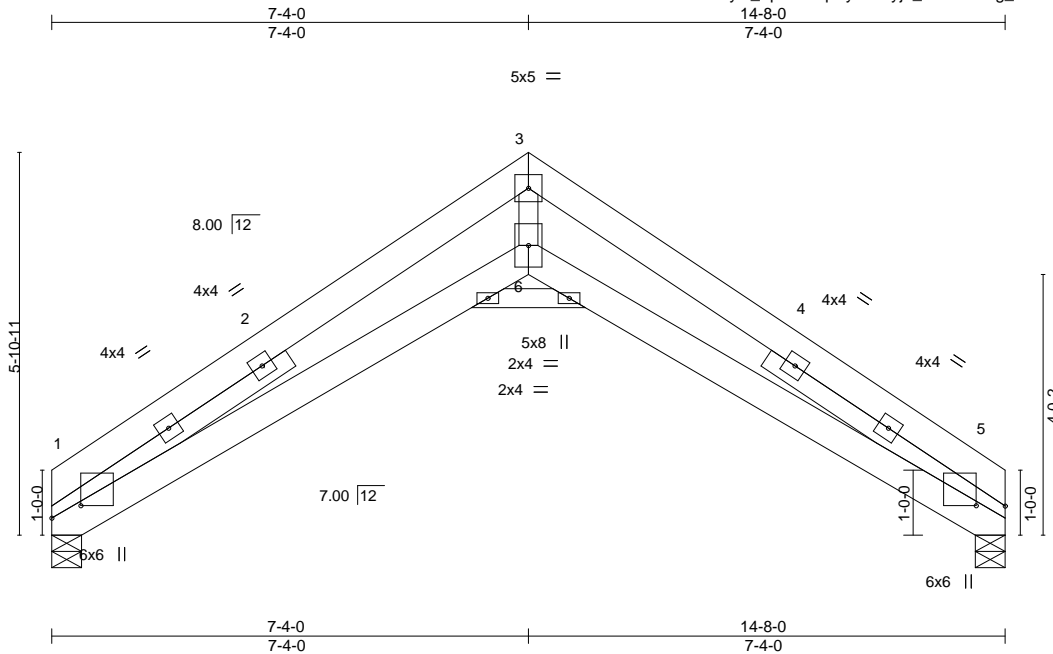


Plate Offsets (X,Y)--	[1:0-2-5,0-5-6], [5:0-0-1,0-5-6]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.07 6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.17 6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.22 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 6 >999 240	Weight: 100 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 4-5-1, Right 2x4 SP No.3 4-5-1	

REACTIONS. (lb/size) 1=568/0-5-8, 5=568/0-5-8
Max Horz 1=131(LC 7)
Max Uplift 1=-41(LC 10), 5=-41(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1900/260, 3-5=-1869/260
BOT CHORD 1-6=-91/1673, 5-6=-90/1640
WEBS 3-6=-22/1754

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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.

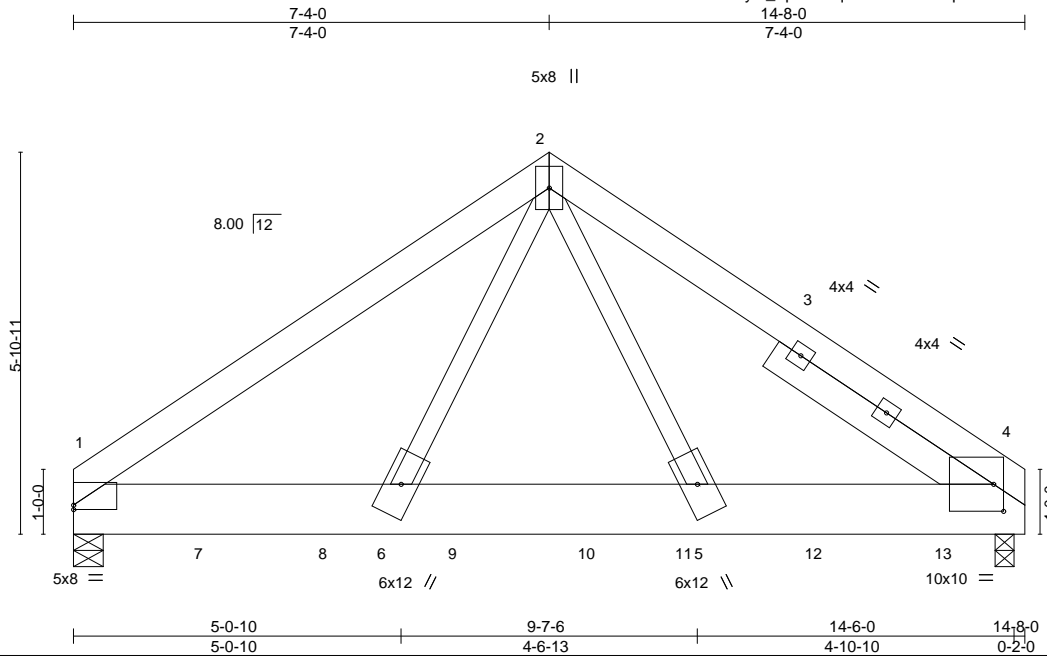


April 16, 2019

Job B0419-1852	Truss D3-G	Truss Type COMMON GIRDER	Qty 1	Ply 1	Roosevelt A	E12919117
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:18 2019 Page 1
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Scale = 1:35.5

Plate Offsets (X,Y)--	[1:0-0-0,0-0-13], [4:0-3-2,0-0-0], [4:0-9-3,0-1-15], [4:0-1-14,0-5-0]				
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 0.54	Vert(LL) -0.04 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.09 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 5-6 >999 240		
				Weight: 125 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.1 3-11-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 1=2632/0-5-8, 4=2865/0-3-8
Max Horz 1=-125(LC 25)
Max Uplift 1=-717(LC 8), 4=-799(LC 9)

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

TOP CHORD 1-2=-3460/969, 2-4=-3445/971
BOT CHORD 1-6=-719/2683, 5-6=-487/1880, 4-5=-717/2702
WEBS 2-5=-586/1962, 2-6=-556/1920

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=717, 4=799.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 626 lb down and 214 lb up at 2-0-12, 626 lb down and 214 lb up at 3-11-12, 626 lb down and 214 lb up at 5-11-12, 619 lb down and 215 lb up at 7-11-12, 619 lb down and 215 lb up at 9-5-12, and 619 lb down and 215 lb up at 11-5-12, and 619 lb down and 215 lb up at 13-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 1-4=-20
Concentrated Loads (lb)
Vert: 7=-626(F) 8=-626(F) 9=-626(F) 10=-619(F) 11=-619(F) 12=-619(F) 13=-619(F)



April 16, 2019

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

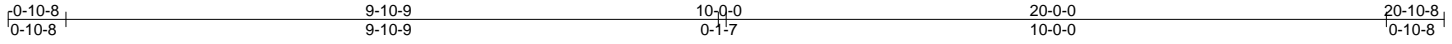
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 B0419-1852	Truss G01	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919118
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)	

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:20 2019 Page 1
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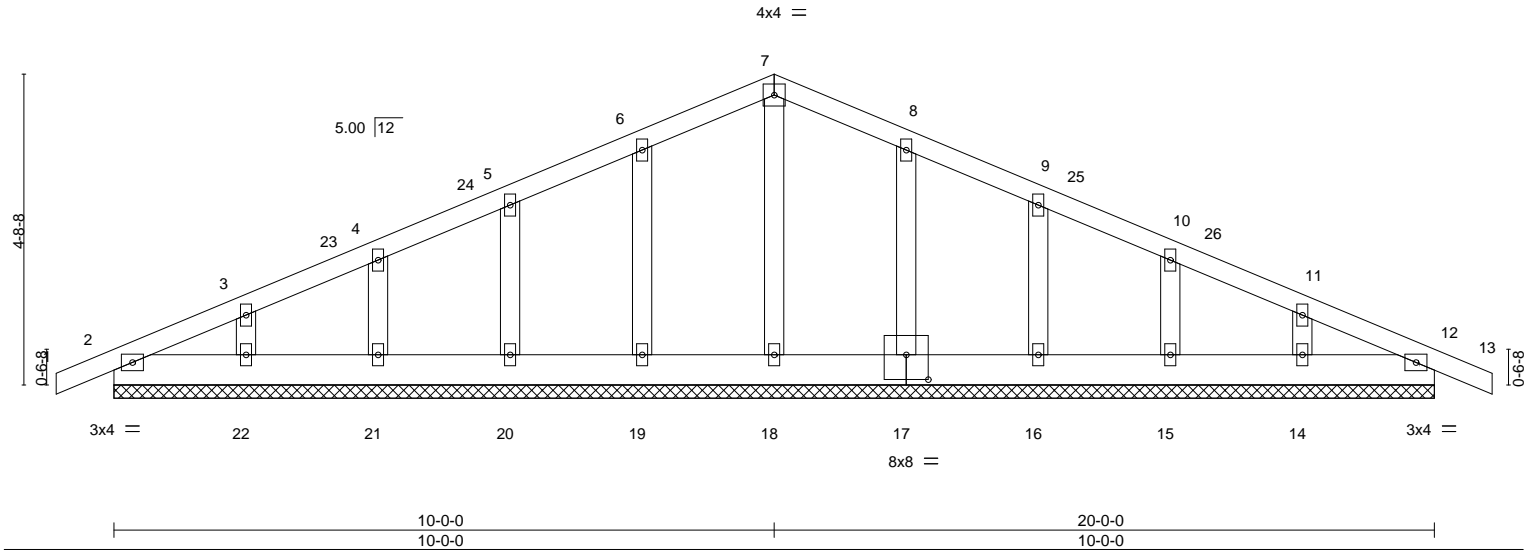


Plate Offsets (X,Y)--	[17:0-4-0,0-4-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.05	Vert(LL) -0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.01	Vert(CT) -0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.05	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 111 lb	FT = 20%

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

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=-92(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 22, 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-7-3, Corner(3) 5-7-3 to 10-0-0, Exterior(2) 14-4-13 to 16-5-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 12, 2, 19, 20, 21, 22, 17, 16, 15, 14.



April 16, 2019

Job B0419-1852	Truss G02	Truss Type COMMON	Qty 5	Ply 1	Roosevelt A	E12919119
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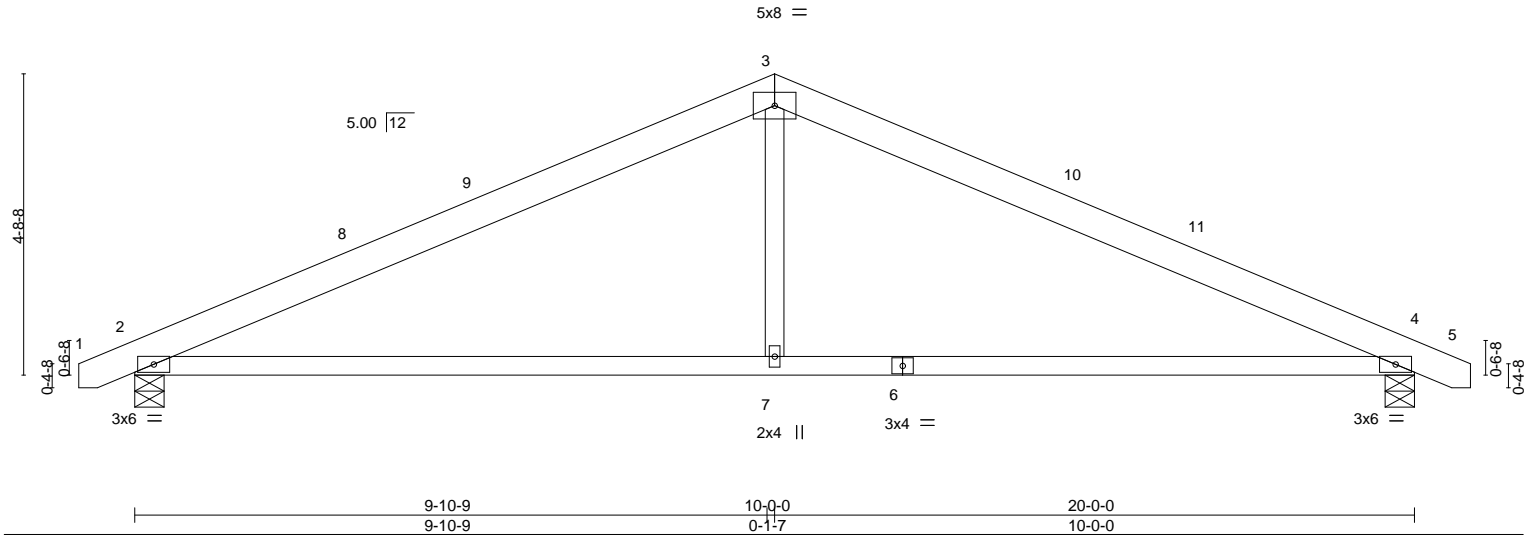
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:21 2019 Page 1

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0-10-8 0-10-8	5-0-10 5-0-10	9-10-9 4-9-15	10-0-0 0-1-7	20-0-0 10-0-0	20-10-8 0-10-8
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Scale = 1:36.0



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.16 2-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) -0.35 2-7 >664 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 4 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 2-7 >999 240	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 5-7-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=839/0-5-8, 2=839/0-5-8
 Max Horz 2=54(LC 14)
 Max Uplift 4=-82(LC 11), 2=-82(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1197/384, 3-4=-1197/384
 BOT CHORD 2-7=-218/1021, 4-7=-218/1021
 WEBS 3-7=0/452

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-4-13 to 16-3-15 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

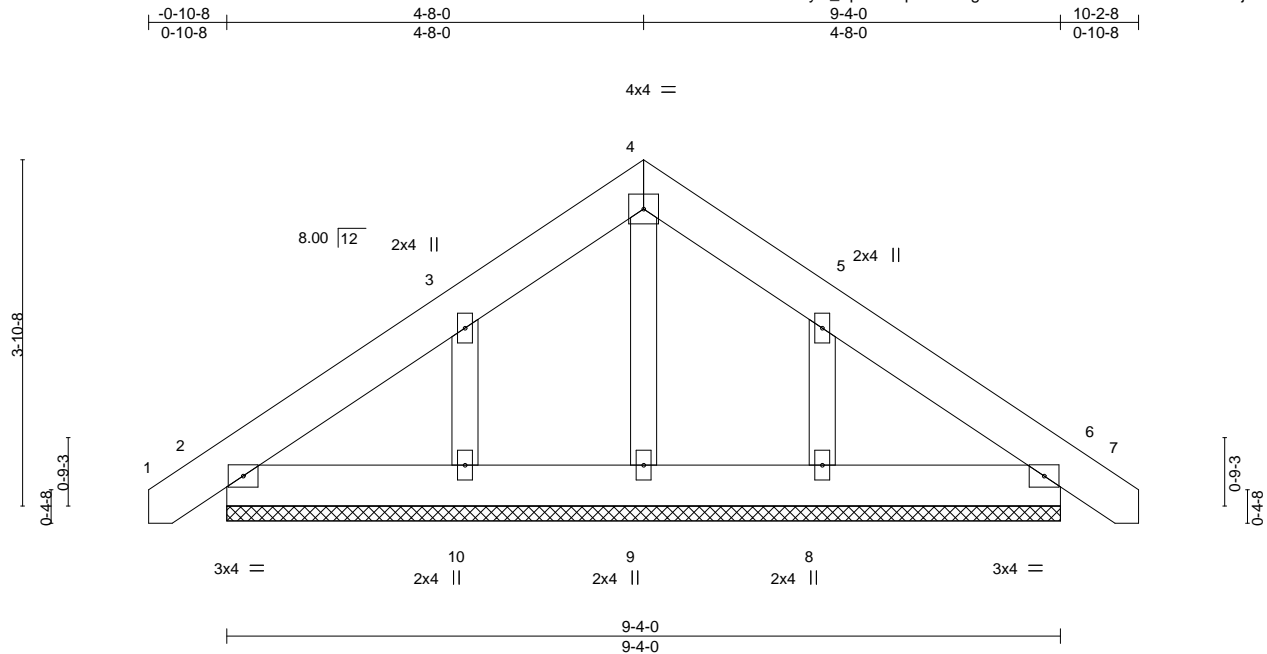


April 16, 2019

Job B0419-1852	Truss H1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Roosevelt A Job Reference (optional)	E12919120
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8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:22 2019 Page 1
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Scale = 1:25.8

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	Vert(LL) 0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT) 0.00	6	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 63 lb	FT = 20%
	Code IRC2015/TPI2014							

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

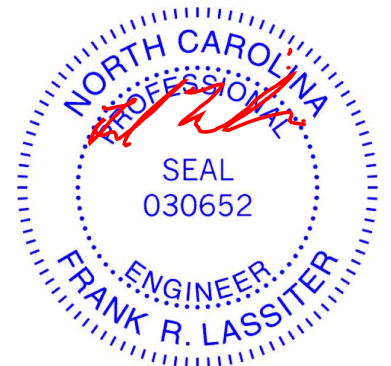
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-4-0.
(lb) - Max Horz 2=-108(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-132(LC 10), 8=-129(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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, 6 except (jt=lb) 10=132, 8=129.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



April 16, 2019

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

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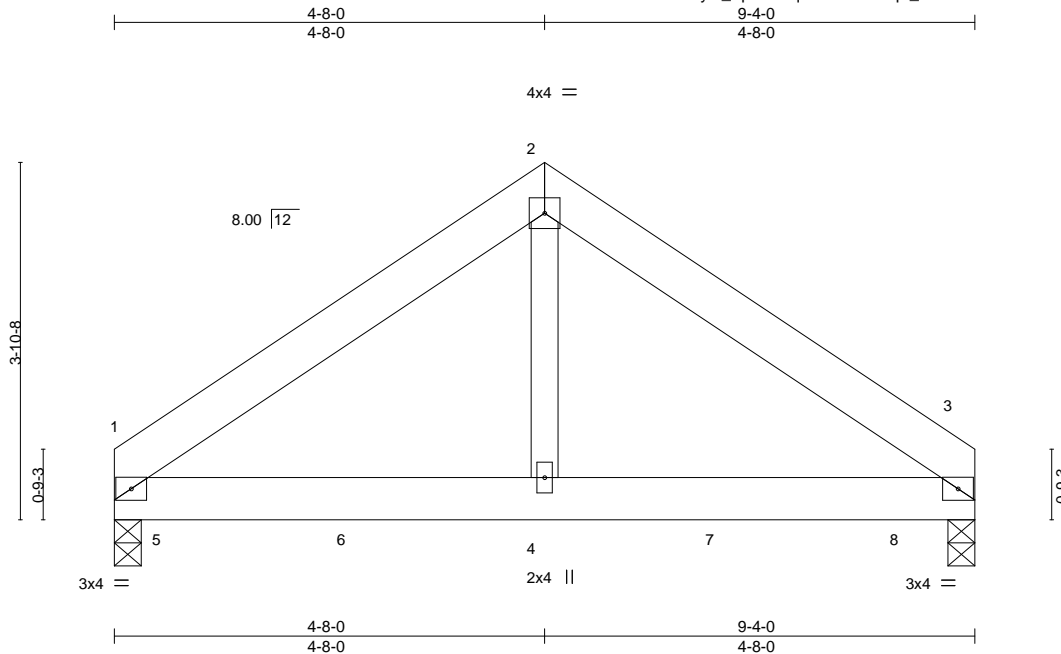


818 Soundside Road
Edenton, NC 27932

Job B0419-1852	Truss H2	Truss Type COMMON GIRDER	Qty 1	Ply 1	Roosevelt A	E12919121
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:23 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-n4YQD0oqZ_SA1TzU9w5I8hKw8weUzg7sxb0Wd6zQQo2



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL) -0.01	3-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT) -0.02	3-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL) 0.02	3-4	>999	240	Weight: 54 lb	FT = 20%
	Code IRC2015/TPI2014							

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

REACTIONS. (lb/size) 1=902/0-3-8, 3=889/0-3-8
Max Horz 1=-81(LC 4)
Max Uplift 1=-267(LC 8), 3=-262(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-889/270, 2-3=-889/269
BOT CHORD 1-4=-203/671, 3-4=-203/671
WEBS 2-4=-263/685

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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); porch left and right exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=267, 3=262.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down and 101 lb up at 0-7-4, 212 lb down and 106 lb up at 2-7-4, 212 lb down and 106 lb up at 4-7-4, and 212 lb down and 106 lb up at 6-7-4, and 216 lb down and 102 lb up at 8-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 4=-212(B) 5=-217(B) 6=-212(B) 7=-212(B) 8=-216(B)



April 16, 2019

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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 B0419-1852	Truss M2	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919122
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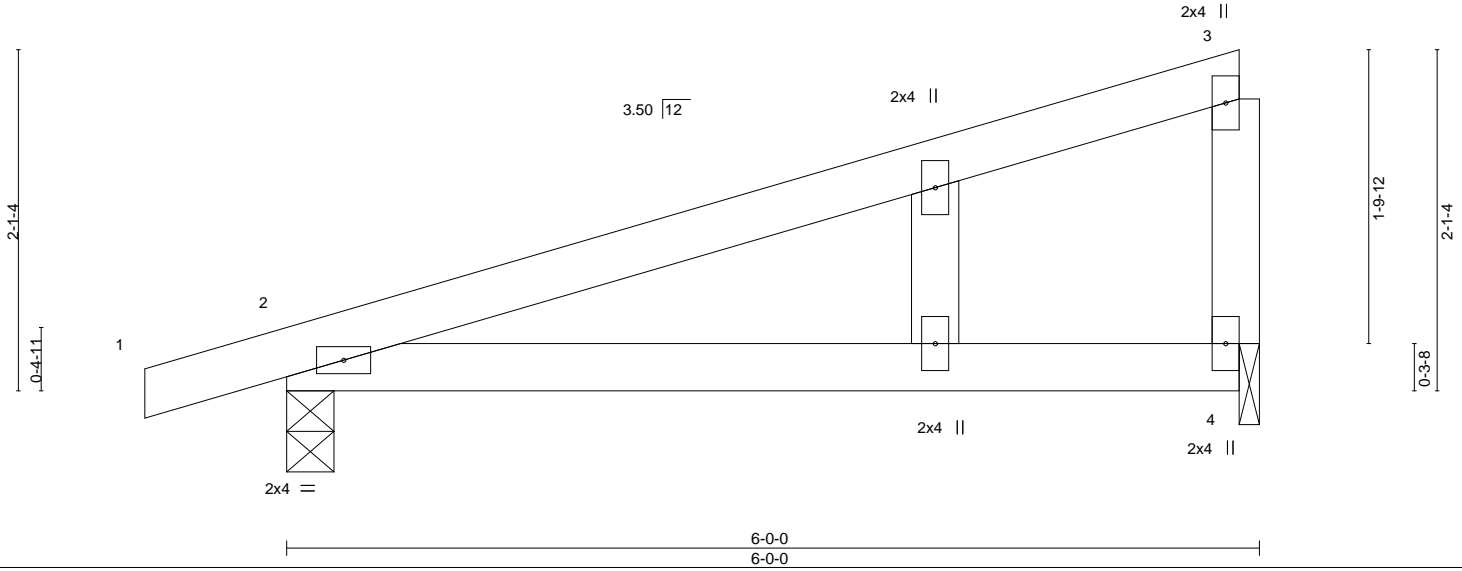
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:24 2019 Page 1

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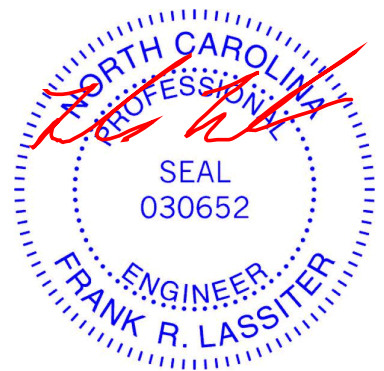
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) -0.06 2-4 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11 2-4 >615 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 23 lb	FT = 20%
	Code IRC2015/TPI2014		Wind(LL) 0.12 2-4 >554 240		

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 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 2=295/0-3-8, 4=222/0-1-8
 Max Horz 2=66(LC 6)
 Max Uplift 2=-125(LC 6), 4=-99(LC 6)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=125.



April 16, 2019

Job B0419-1852	Truss M3	Truss Type MONOPITCH	Qty 10	Ply 1	Roosevelt A	E12919123
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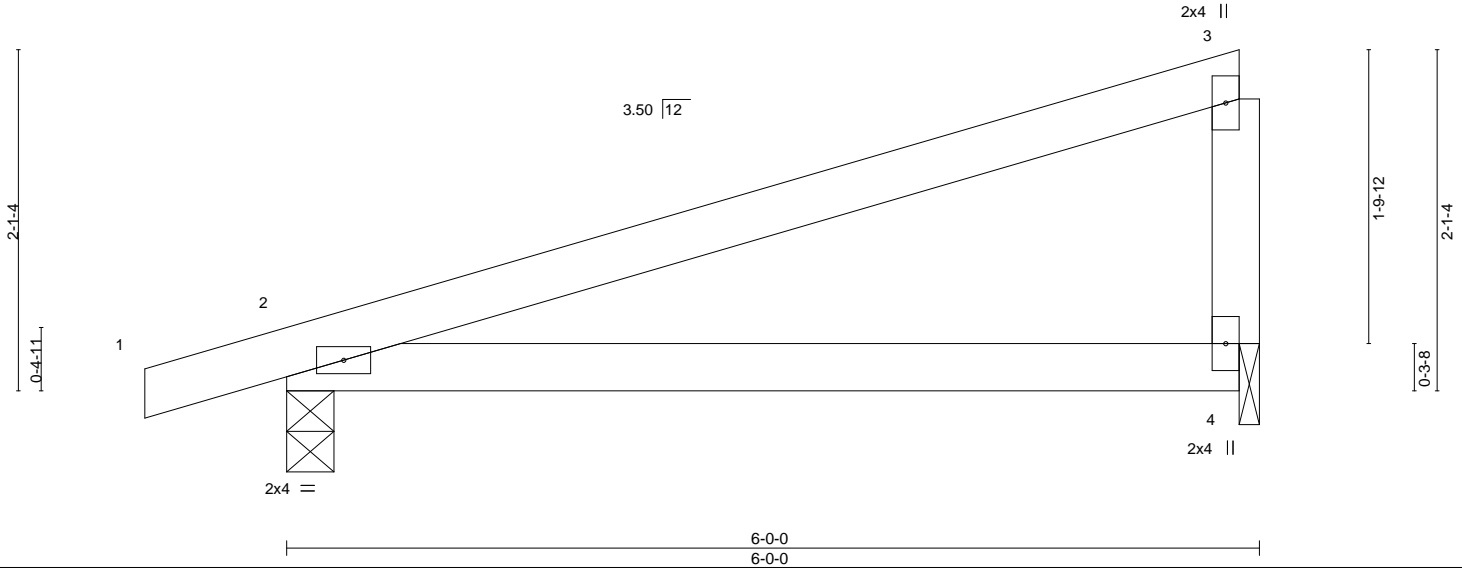
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:24 2019 Page 1

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Scale = 1:14.2



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 0.44	Vert(LL)	-0.06	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.11	2-4	>615		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.12	2-4	>554	Weight: 22 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=295/0-3-8, 4=222/0-1-8
 Max Horz 2=66(LC 6)
 Max Uplift 2=-125(LC 6), 4=-99(LC 6)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 4 except (jt=lb) 2=125.



April 16, 2019

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

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818 Soundside Road
 Edenton, NC 27932

Job B0419-1852	Truss M4	Truss Type MONOPITCH	Qty 5	Ply 1	Roosevelt A	E12919124
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:26 2019 Page 1
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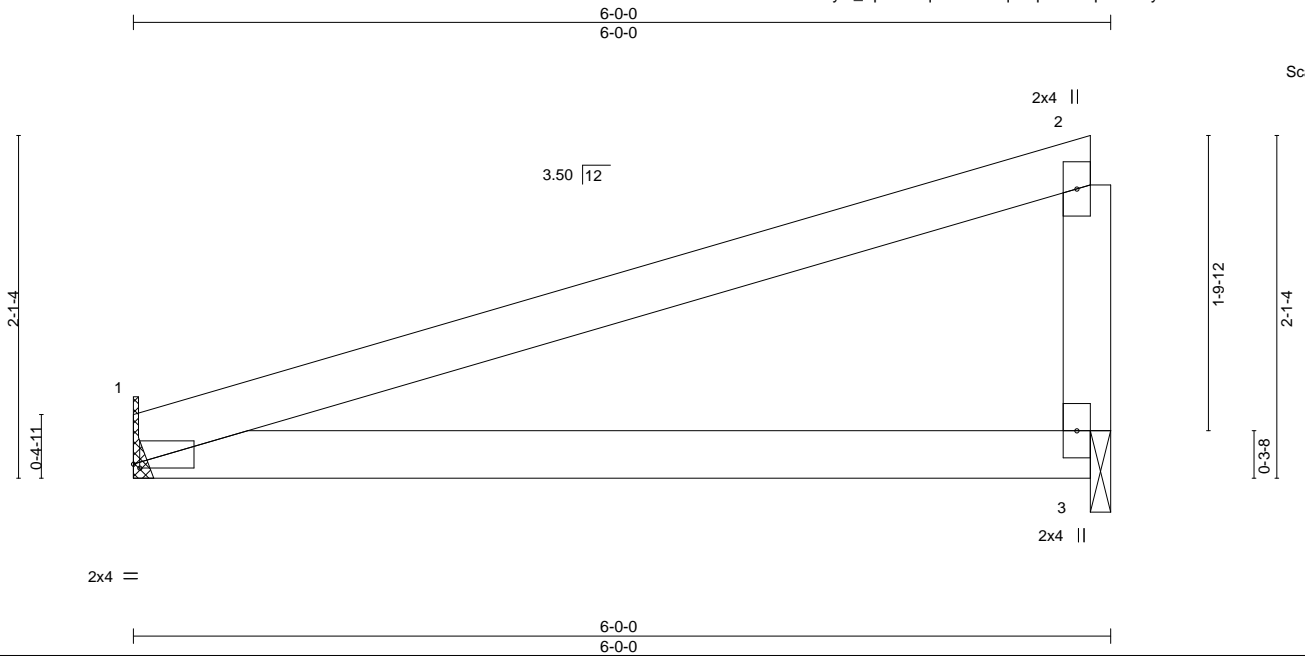


Plate Offsets (X,Y)--		[1:0-0-7,0-0-5]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.06	1-3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12	1-3	>589	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.13	1-3	>531	240	Weight: 20 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=232/Mechanical, 3=230/0-1-8
 Max Horz 1=58(LC 6)
 Max Uplift 1=-86(LC 6), 3=-104(LC 6)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 3 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 at joint(s) 3.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=104.



April 16, 2019

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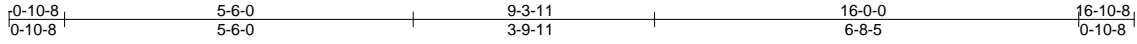
818 Soundside Road
 Edenton, NC 27932

Job B0419-1852	Truss MR-1	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919125
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Comtech, Inc., Fayetteville, NC 28309

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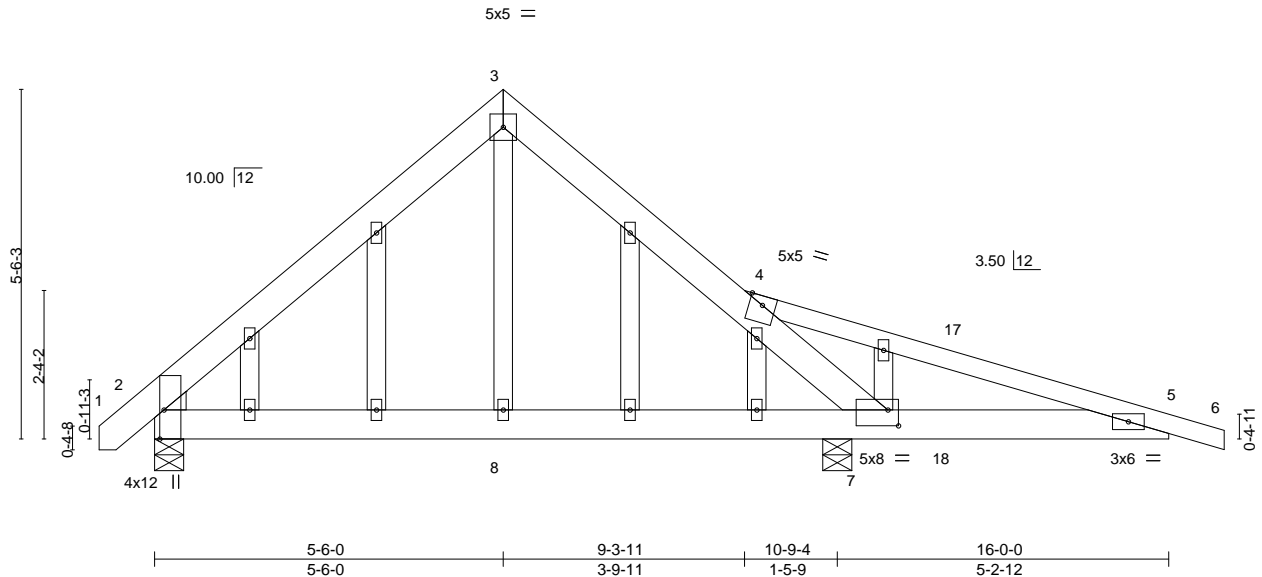


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [2:0-1-8,0-4-9], [2:0-0-12,0-0-14], [7:0-2-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.03	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.02	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 109 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 7=988/0-5-8, 2=384/0-5-8
Max Horz 2=-166(LC 8)
Max Uplift 7=-362(LC 7), 2=-103(LC 10)
Max Grav 7=988(LC 1), 2=387(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-366/70, 3-4=-326/129, 4-7=-1138/932, 4-5=-987/859
BOT CHORD 2-8=-4/285, 7-8=-4/285, 5-7=-776/1040

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-14 to 9-1-15, Exterior(2) 9-1-15 to 12-5-11, Corner(3) 12-5-11 to 16-10-8 zone; cantilever 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 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=362, 2=103.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 16, 2019

Job B0419-1852	Truss MR-2	Truss Type Roof Special	Qty 6	Ply 1	Roosevelt A	E12919126
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8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:28 2019 Page 1
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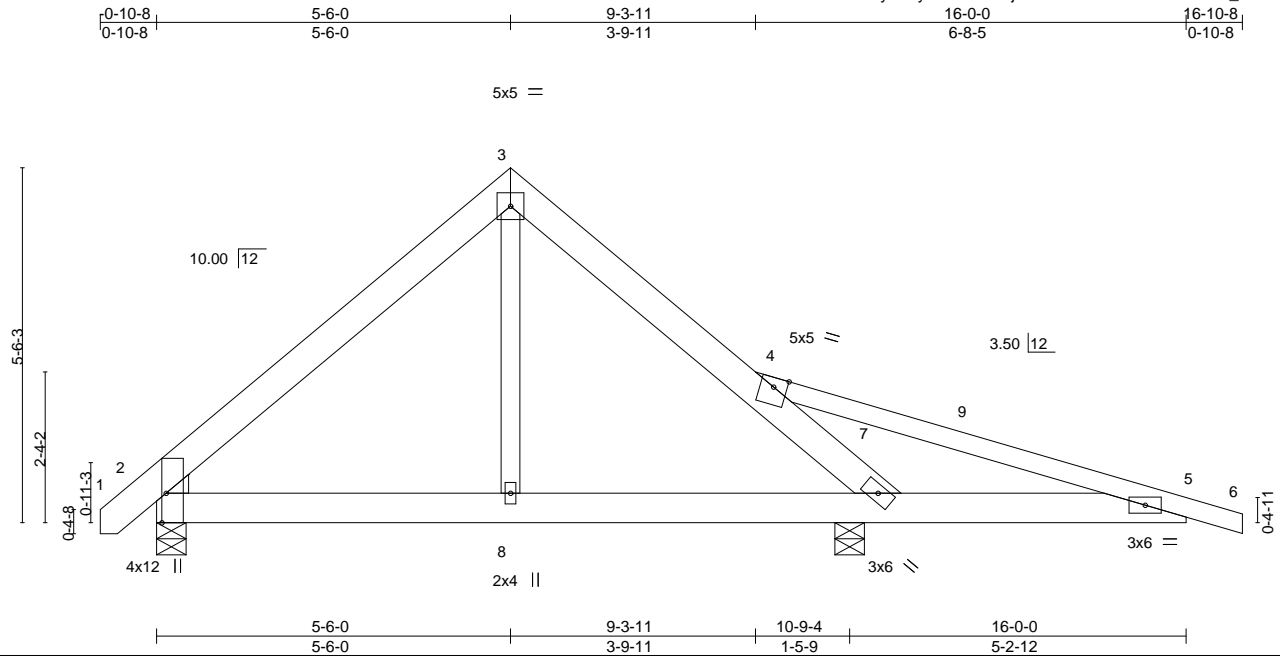


Plate Offsets (X,Y)--	[2:0-0-12,0-0-14], [2:0-1-8,0-4-9], [2:0-5-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.02 7-8 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.02 2-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 95 lb	FT = 20%

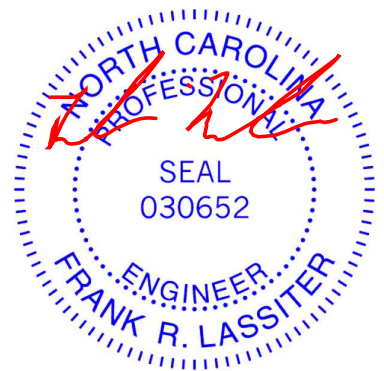
LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
4-6: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 7=988/0-5-8, 2=384/0-5-8
Max Horz 2=-127(LC 8)
Max Uplift 7=-229(LC 7), 2=-41(LC 10)
Max Grav 7=988(LC 1), 2=387(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-340/44, 3-4=-326/76, 4-7=-1138/804, 4-5=-871/859
BOT CHORD 5-7=-776/896

- 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=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 9-1-15, Interior(1) 9-1-15 to 12-5-11, Exterior(2) 12-5-11 to 16-10-8 zone; cantilever right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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 except (jt=lb) 7=229.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 16, 2019

Job B0419-1852	Truss P1	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919127
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:30 2019 Page 1
ID:3vEs44?mxllmaiyl?_Tpv0zi7qB-4RU3hPtDw8KANY?q3ujxwA7_Jk_H6vHuYADOMDzQQnx



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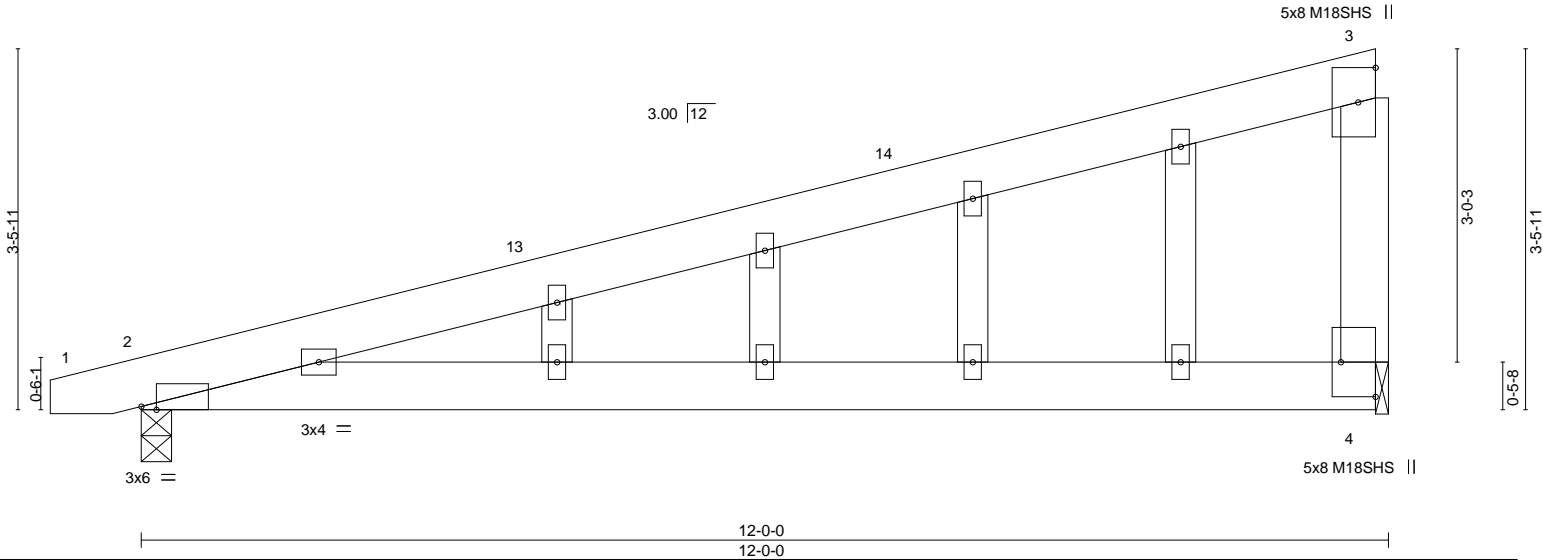


Plate Offsets (X,Y)-- [2:0-1-12,Edge], [4:Edge,0-4-0]

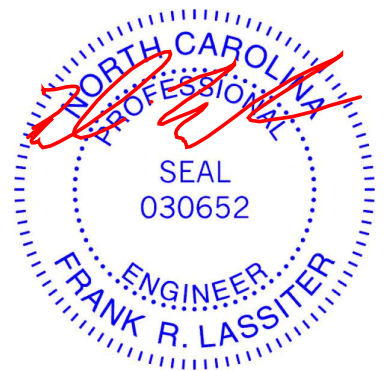
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	Vert(LL) 0.37	2-4	>380	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(CT) -0.32	2-4	>434	240	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							
							Weight: 73 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 2=510/0-3-8, 4=464/0-1-8
Max Horz 2=146(LC 6)
Max Uplift 2=-293(LC 6), 4=-291(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-306/184, 3-4=-310/222

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 7-4-7, Exterior(2) 7-4-7 to 11-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 MT20 plates unless otherwise indicated.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 8) 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=293, 4=291.



April 16, 2019

Job B0419-1852	Truss P2	Truss Type MONOPITCH TRUSS	Qty 9	Ply 1	Roosevelt A	E12919128
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:30 2019 Page 1
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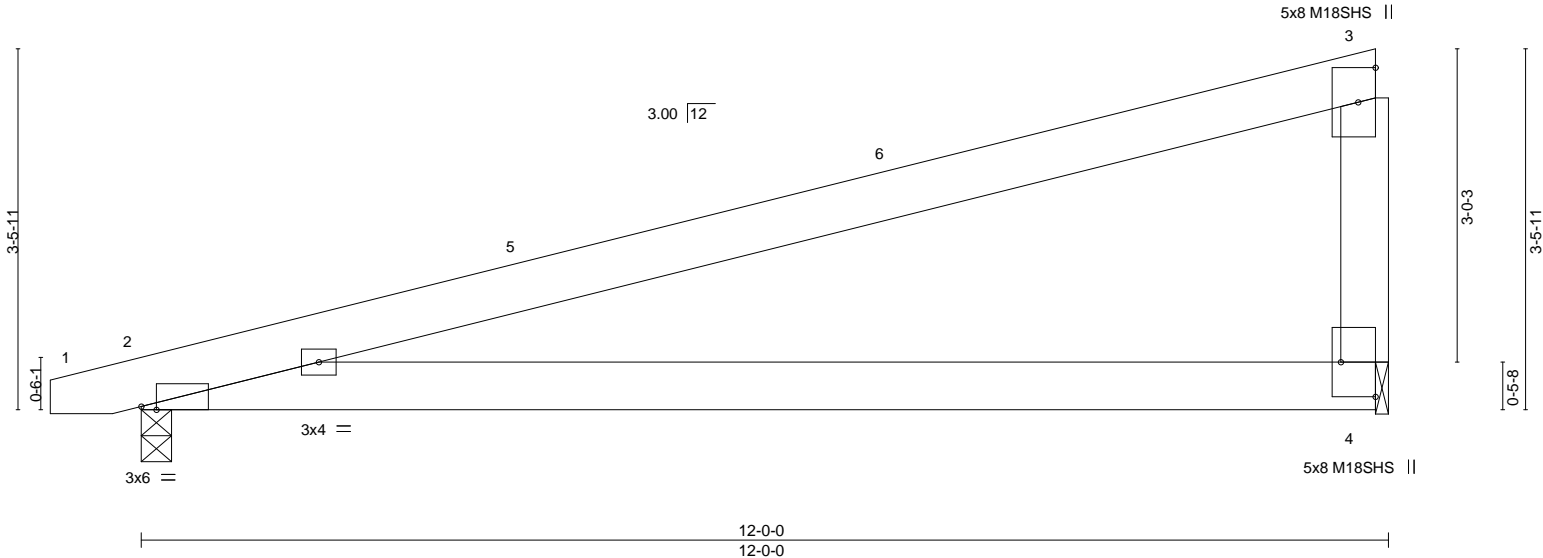


Plate Offsets (X,Y)--	[2:0-1-12,Edge], [4:Edge,0-4-0]
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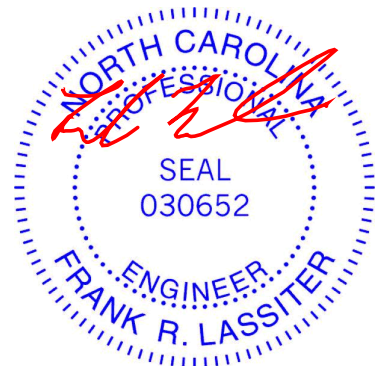
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	0.37	2-4	>380	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.32	2-4	>434	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 65 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS 2x6 SP No.1	

REACTIONS. (lb/size) 2=510/0-3-8, 4=464/0-1-8
Max Horz 2=102(LC 6)
Max Uplift 2=-206(LC 6), 4=-203(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-306/184, 3-4=-310/222

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 7-4-7, Exterior(2) 7-4-7 to 11-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 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.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 4=203.



April 16, 2019

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.



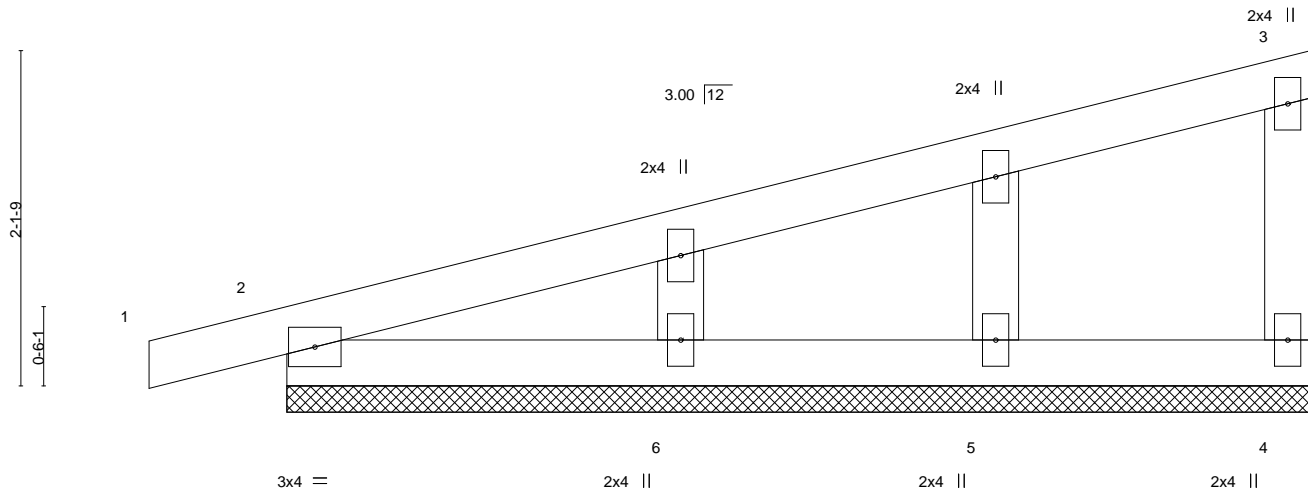
Job B0419-1852	Truss P3	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919129
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:32 2019 Page 1
 ID:3vEs44?mxllmaiyl?_Tpv0zl7qB-0pbq65vTSlbudr9DAJIP?bClTYnFapnB0UiUR5zQQnv
 6-6-0
 6-6-0



Scale = 1:14.6



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 0.58	Vert(LL)	-0.02	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.02	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P						Weight: 26 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 6-6-0.
 (lb) - Max Horz 2=85(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except 4=113(LC 10), 2=136(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 4, 5, 6 except 2=267(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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
- 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 4 and 136 lb uplift at joint 2.



April 16, 2019

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 B0419-1852	Truss V-1	Truss Type GABLE	Qty 1	Ply 1	Roosevelt A	E12919130
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Apr 15 15:39:33 2019 Page 1
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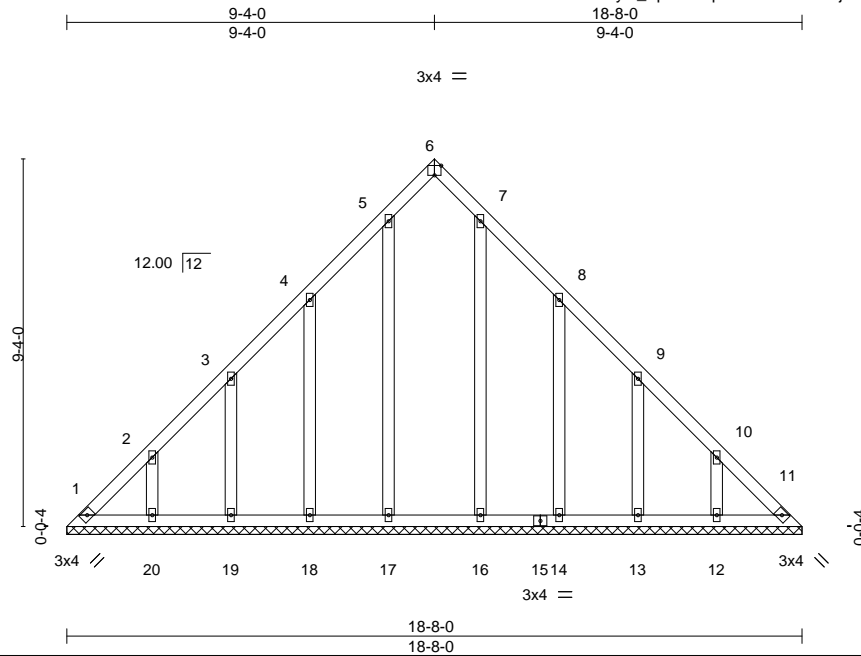


Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 120 lb	FT = 20%

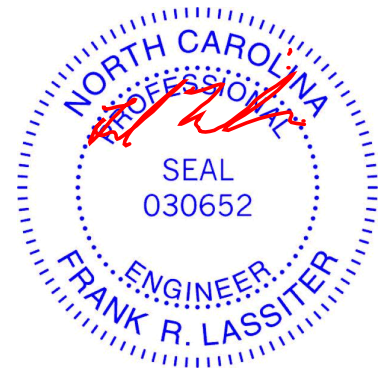
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

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.

REACTIONS. All bearings 18-8-0.
(lb) - Max Horz 1=-269(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 17, 16 except 18=-166(LC 10), 19=-137(LC 10),
20=-154(LC 10), 14=-170(LC 11), 13=-136(LC 11), 12=-154(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 14, 13, 12 except 1=297(LC 10), 11=285(LC 11),
17=282(LC 17), 16=264(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-447/311, 2-3=-313/203, 9-10=-296/203, 10-11=-429/311
BOT CHORD 1-20=-238/335, 19-20=-238/335, 18-19=-238/335, 17-18=-238/335, 16-17=-238/335,
14-16=-238/335, 13-14=-238/335, 12-13=-238/335, 11-12=-238/335

- 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=5.0psf; 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 17, 16 except (jt=lb) 18=166, 19=137, 20=154, 14=170, 13=136, 12=154.



April 16, 2019

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

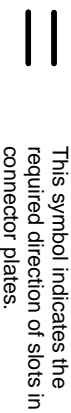
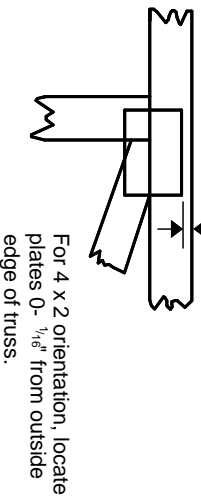
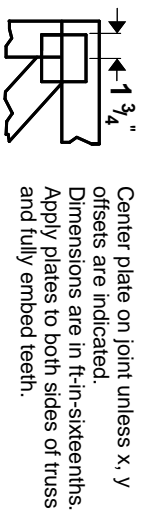
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

Symbols

PLATE LOCATION AND ORIENTATION



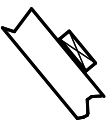
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

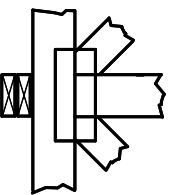
4 X 4

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

LATERAL BRACING LOCATION



BEARING

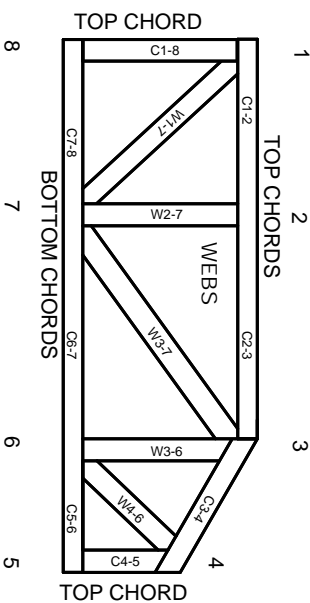


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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



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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.