

RE: B0419-1989
 Embark A

Trenco
 818 Soundside Rd
 Edenton, NC 27932

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

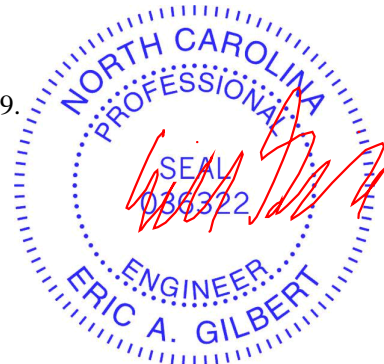
Design Code: IRC2015/TPI2014
 Wind Code: ASCE 7-10
 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.1
 Wind Speed: 130 mph
 Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E12673739	a01	2/6/2019	28	E12673766	j4	2/6/2019
2	E12673740	a02	2/6/2019	29	E12673767	j6	2/6/2019
3	E12673741	a03	2/6/2019				
4	E12673742	a04	2/6/2019				
5	E12673743	a05	2/6/2019				
6	E12673744	a06	2/6/2019				
7	E12673745	a07	2/6/2019				
8	E12673746	a08	2/6/2019				
9	E12673747	a09	2/6/2019				
10	E12673748	a10	2/6/2019				
11	E12673749	a11	2/6/2019				
12	E12673750	a12	2/6/2019				
13	E12673751	a13	2/6/2019				
14	E12673752	b1	2/6/2019				
15	E12673753	b2	2/6/2019				
16	E12673754	c1	2/6/2019				
17	E12673755	c2	2/6/2019				
18	E12673756	c3	2/6/2019				
19	E12673757	cj07	2/6/2019				
20	E12673758	g1	2/6/2019				
21	E12673759	g2	2/6/2019				
22	E12673760	g3	2/6/2019				
23	E12673761	g4	2/6/2019				
24	E12673762	gj1	2/6/2019				
25	E12673763	gj2	2/6/2019				
26	E12673764	gjc1	2/6/2019				
27	E12673765	j3	2/6/2019				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville. Truss Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Carolina is December 31, 2019. North Carolina COA: C-0844



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

February 06, 2019

Job B0419-1989	Truss A01	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	Embark A	E12673739
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:48 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-fNtH6dyQMkM4USN5N5LxiAj_ocpazt_1ROwkaJzo87f

-0-10-8 0-10-8	4-0-0 4-0-0	10-7-14 6-7-14	18-0-4 7-4-6	22-3-15 4-3-11	29-11-1 7-7-2	38-0-0 8-0-15	38-10-8 0-10-8
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Scale = 1:68.1

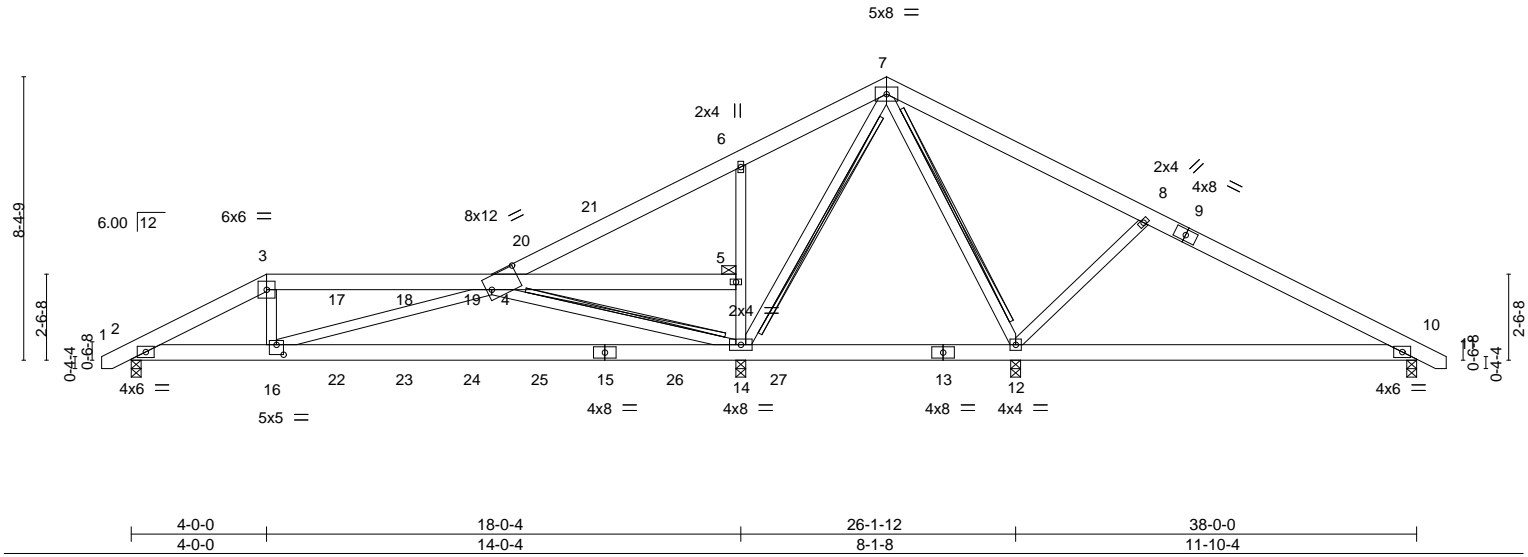


Plate Offsets (X,Y)--	[4:0-10-4,0-4-8], [16:0-2-8,0-3-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.27	14-16	>803	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.55	14-16	>388	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.58	Horz(CT) 0.01	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	14-16	>999	240		
							Weight: 272 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS T-Brace: 2x4 SPF No.2 - 4-14, 7-14, 7-12
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.
	JOINTS 1 Brace at Jt(s): 5

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=107(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 10 except 2=138(LC 8), 14=458(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=828(LC 19), 14=1949(LC 1), 12=866(LC 16), 10=361(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1609/155, 3-4=-1394/161, 4-6=-312/982, 6-7=-187/893, 7-8=-95/581, 8-10=-210/322
 BOT CHORD 2-16=-193/1371, 14-16=-155/638, 12-14=-377/259
 WEBS 3-16=0/582, 4-16=-30/936, 4-14=-1444/473, 5-14=-441/216, 5-6=-455/220, 7-14=-824/204, 8-12=-537/239

- 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); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 10 except (jt=lb) 2=138, 14=458.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 69 lb up at 4-0-0, 86 lb down and 69 lb up at 6-0-12, 86 lb down and 69 lb up at 8-0-12, 86 lb down and 69 lb up at 10-0-12, and 86 lb down and 78 lb up at 12-0-12, and 86 lb down and 79 lb up at 14-0-12 on top chord, and 197 lb down and 67 lb up at 4-0-0, 36 lb down at 6-0-12, 36 lb down at 8-0-12, 36 lb down at 10-0-12, 36 lb down at 12-0-12, and 36 lb down at 14-0-12, and 103 lb down and 76 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).




February 6, 2019

LOAD CASE(S) Standard
 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	Embark A	E12673739
B0419-1989	A01	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:48 2019 Page 2
 ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-fNtH6dyQMkM4USN5N5LxiAj_ocpazt_1ROwkaJzo87f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-7=-60, 7-11=-60, 2-10=-20

Concentrated Loads (lb)

Vert: 3=-46(B) 15=-18(B) 16=-197(B) 17=-46(B) 18=-46(B) 19=-46(B) 20=-46(B) 21=-46(B) 22=-18(B) 23=-18(B) 24=-18(B) 25=-18(B) 26=-103(B)

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 B0419-1989	Truss A02	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Embark A	E12673740
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)	

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:49 2019 Page 1
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-0-10-8 0-10-8	6-0-0 6-0-0	12-7-14 6-7-14	22-3-15 9-8-1	29-8-14 7-4-14	38-0-0 8-3-2	38-10-8 0-10-8
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Scale = 1:68.1

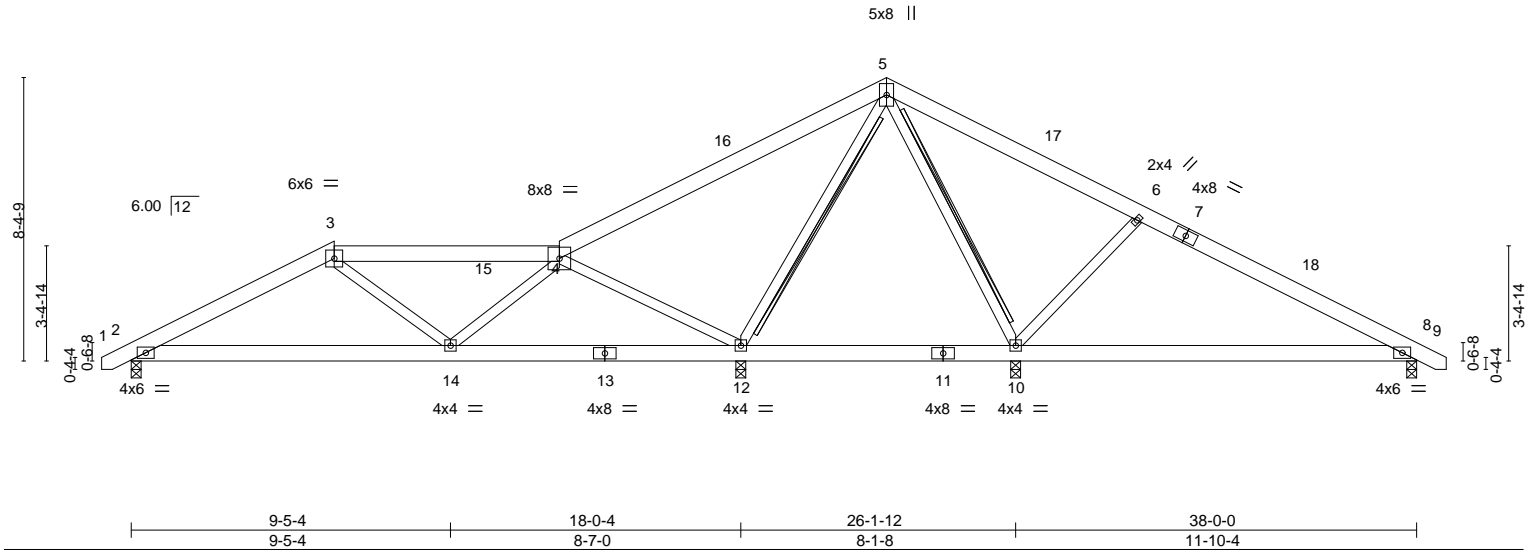


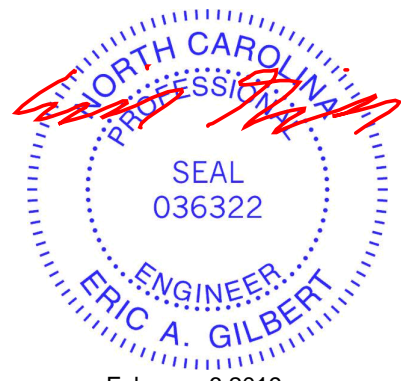
Plate Offsets (X,Y)--	[3:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.11 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.23 8-10 >600 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.01 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 8-10 >999 240		
				Weight: 246 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS T-Brace: 2x4 SPF No.2 - 5-12, 5-10
	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 0-3-8.
(lb) - Max Horz 2=107(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 8 except 12=164(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except 2=641(LC 21), 12=1243(LC 1), 10=904(LC 18), 8=418(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-831/291, 3-4=-671/217, 4-5=-99/668, 5-6=0/406
BOT CHORD 2-14=-159/689, 12-14=-79/437
WEBS 4-14=0/451, 4-12=-1031/439, 5-12=-691/247, 5-10=-303/124, 6-10=-515/298

- 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) -0-8-10 to 10-4-13, Interior(1) 10-4-13 to 17-11-2, Exterior(2) 17-11-2 to 22-3-15, Interior(1) 26-8-12 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 8 except (jt=lb) 12=164.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



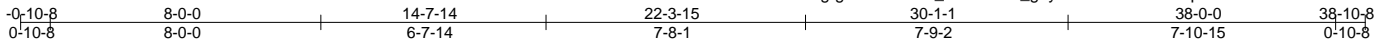
February 6, 2019

Job B0419-1989	Truss A03	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Embark A	E12673741
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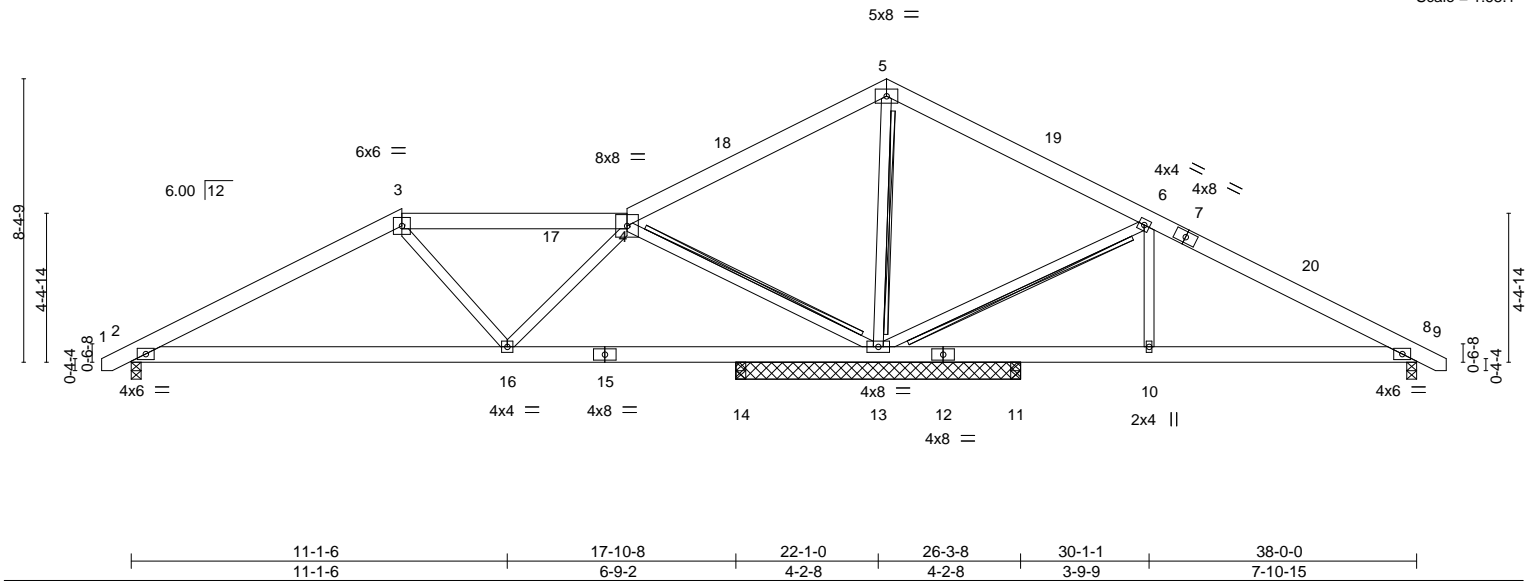
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:50 2019 Page 1

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Scale = 1:68.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.09	2-16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.21	2-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.04	2-16	>999		
								Weight: 247 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-13, 5-13, 6-13
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. All bearings 0-3-8 except (jt=length) 13=8-5-0.
(lb) - Max Horz 2=107(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-234(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 14, 11 except 2=740(LC 21), 13=1839(LC 1), 8=494(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-918/332, 3-4=-691/275, 4-5=-102/707, 5-6=-80/658, 6-8=-501/183
BOT CHORD 2-16=-179/749, 14-16=-75/430, 13-14=-75/430, 11-13=-126/366, 10-11=-126/366,
8-10=-126/366
WEBS 4-16=-50/492, 4-13=-1026/447, 5-13=-966/341, 6-13=-754/304, 6-10=0/284

- 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) and C-C Exterior(2) -0-8-10 to 12-4-13, Interior(1) 12-4-13 to 17-11-2, Exterior(2) 17-11-2 to 22-3-15, Interior(1) 26-8-12 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=length) 13=234.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 6, 2019

Job B0419-1989	Truss A04	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Embark A	E12673742
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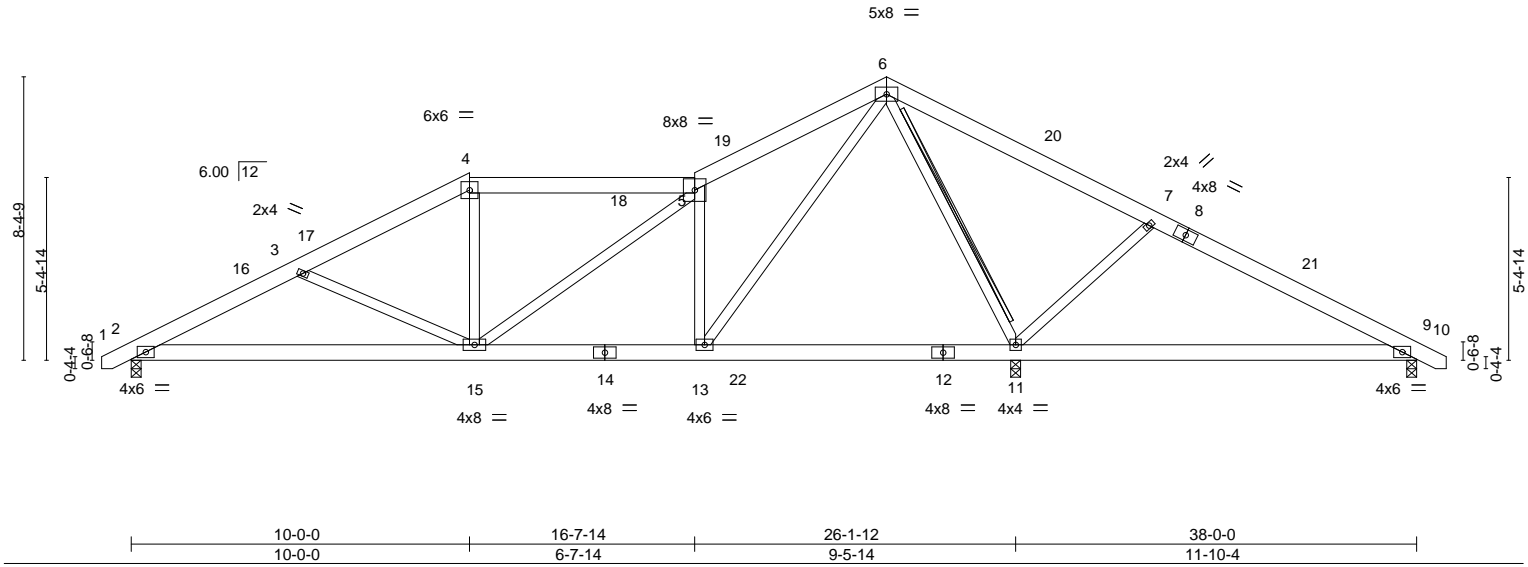
Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-bm?1XJ_guydokmXUUNWPNbpluQcYRjqKuiPreCzo87d

0-10-8	5-0-14	10-0-0	16-7-14	22-3-15	30-1-1	38-0-0	38-10-8
0-10-8	5-0-14	4-11-2	6-7-14	5-8-1	7-9-2	7-10-15	0-10-8

Scale = 1:68.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.11	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.21	9-11	>680		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.02	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	13-15	>999		
								Weight: 259 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 9-11.
	WEBS T-Brace: 2x4 SPF No.2 - 6-11
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=959/0-3-8, 11=1936/0-3-8, 9=225/0-3-8
 Max Horz 2=-107(LC 8)
 Max Uplift 2=-118(LC 10), 11=-148(LC 10), 9=-65(LC 11)
 Max Grav 2=960(LC 21), 11=1970(LC 2), 9=342(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1552/554, 3-4=-1241/429, 4-5=-1059/436, 5-6=-1008/488, 6-7=-115/718, 7-9=-112/436
 BOT CHORD 2-15=-425/1338, 13-15=-137/866, 9-11=-346/135
 WEBS 3-15=-312/246, 4-15=0/276, 5-15=-80/282, 5-13=-955/457, 6-13=-470/1350, 6-11=-1447/512, 7-11=-535/323

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-4-13 to 16-7-14, Exterior(2) 17-11-2 to 22-3-15, Interior(1) 26-8-12 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=118, 11=148.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 6, 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 B0419-1989	Truss A05	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Embark A	E12673743
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)	

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:51 2019 Page 1
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-0-10-8 0-10-8	6-5-2 6-5-2	12-0-0 5-6-14	18-7-14 6-7-14	22-3-15 3-8-1	29-8-14 7-4-14	38-0-0 8-3-2	38-10-8 0-10-8
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Scale = 1:68.1

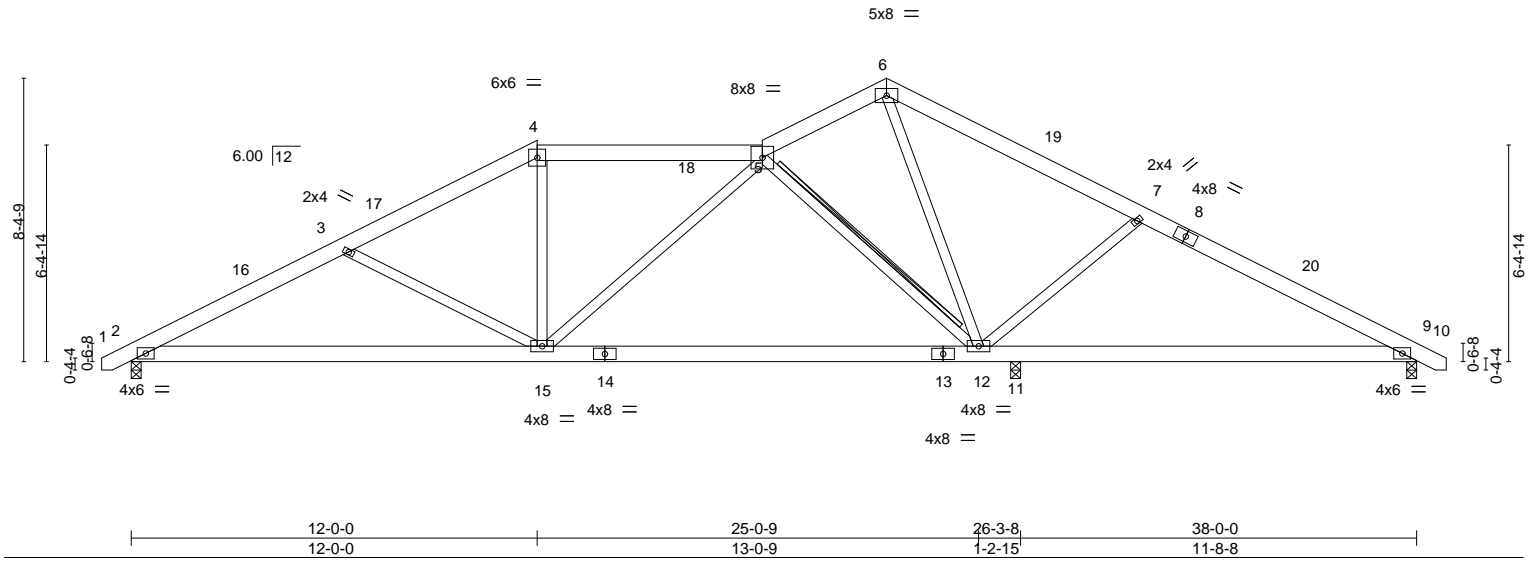


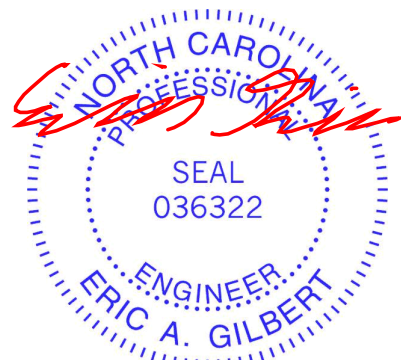
Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.15 12-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.37 12-15 >847 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12 12-15 >999 240		Weight: 255 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-4 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	WEBS T-Brace: 2x4 SPF No.2 - 5-12
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1207/0-3-8, 9=775/0-3-8, 11=1138/0-3-8
 Max Horz 2=107(LC 9)
 Max Uplift 2=-148(LC 10), 9=-111(LC 11), 11=-50(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2032/707, 3-4=-1664/581, 4-5=-1429/578, 5-6=-573/347, 6-7=-717/358, 7-9=-1126/440
 BOT CHORD 2-15=-539/1754, 12-15=-310/1236, 11-12=-252/914, 9-11=-252/914
 WEBS 3-15=-383/270, 4-15=-20/399, 5-15=0/361, 5-12=-1045/451, 7-12=-508/314

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 7-7-3, Exterior(2) 7-7-3 to 12-0-0, Interior(1) 16-4-13 to 18-7-14, Exterior(2) 22-3-15 to 38-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=148, 9=111.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

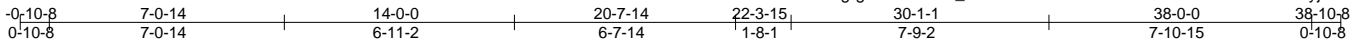


February 6, 2019

Job B0419-1989	Truss A06	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Embark A	E12673744
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:52 2019 Page 1
 ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-X86ox??wPZlWz3htcxPtt0UuhPEGevc3dM0uyj4zo87b



Scale = 1:69.4

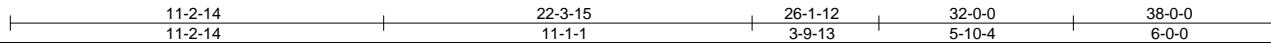
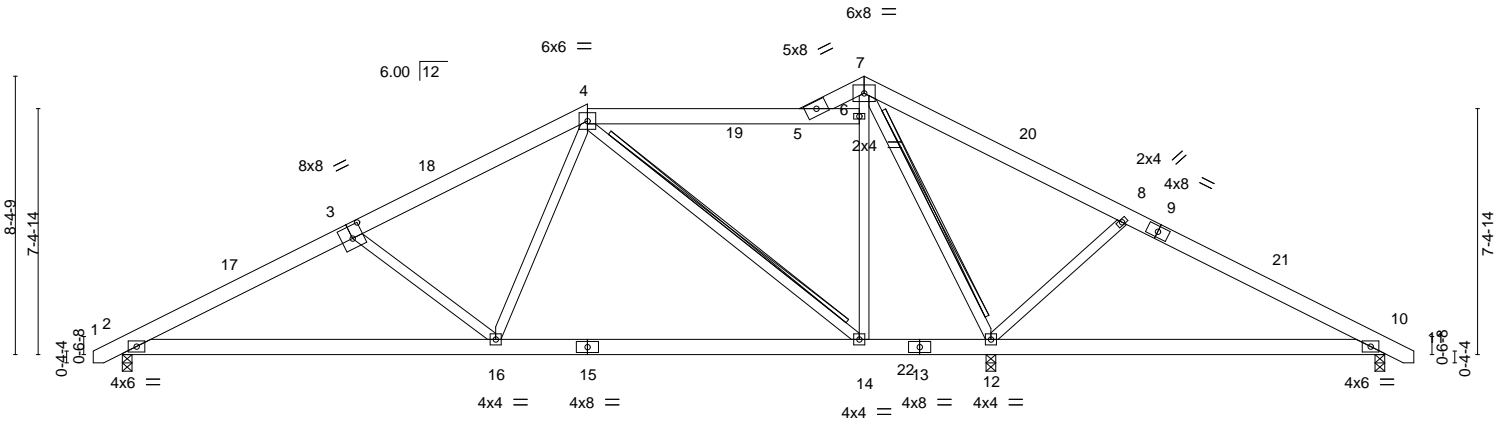


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.19	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.29	14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	14-16	>999	240		
							Weight: 261 lb	FT = 20%

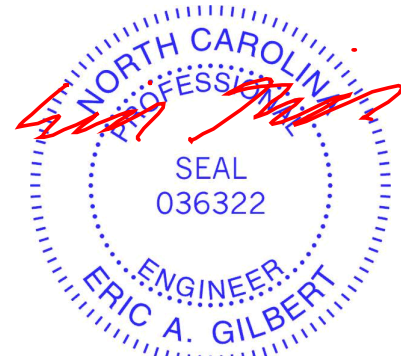
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 4-14: 2x4 SP No.2

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: 10-12.
 WEBS T-Brace: 2x4 SPF No.2 - 4-14, 7-12
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=938/0-3-8, 12=2002/0-3-8, 10=180/0-3-8
 Max Horz 2=-108(LC 8)
 Max Uplift 2=-95(LC 10), 12=-220(LC 10), 10=-81(LC 21)
 Max Grav 2=938(LC 1), 12=2103(LC 2), 10=360(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1520/404, 3-4=-1237/320, 7-8=-256/818, 8-10=-192/578
 BOT CHORD 2-16=-252/1374, 14-16=-7/821, 10-12=-472/263
 WEBS 3-16=-433/289, 4-16=-65/713, 4-14=-856/316, 6-14=-128/908, 6-7=-150/965,
 7-12=-1759/569, 8-12=-526/316

- 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) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 9-7-3, Exterior(2) 9-7-3 to 14-0-0, Interior(1) 18-4-13 to 20-5-3, Exterior(2) 22-3-15 to 38-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 12=220.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 6, 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.



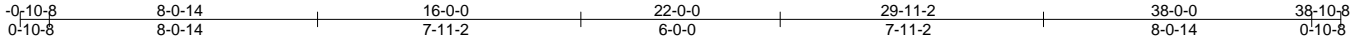
818 Soundside Road
 Edenton, NC 27932

Job B0419-1989	Truss A07	Truss Type HIP	Qty 1	Ply 1	Embark A	E12673745
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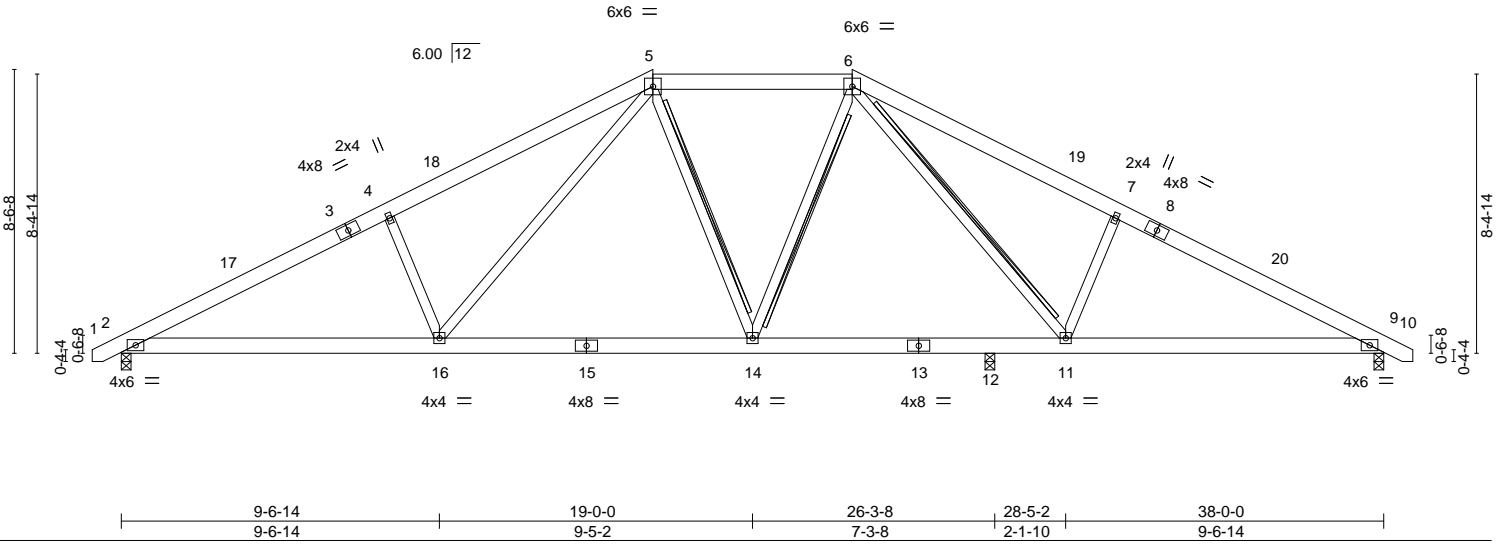
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:53 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-?LgA9L0ZA?MbDG39ex6PDRtDdaze7rmbgdVFXzo87a



Scale = 1:69.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) -0.17 14-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.28 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 9-11 >999 240	Weight: 257 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-14 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	WEBS T-Brace: 2x4 SPF No.2 - 5-14, 6-14, 6-11
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1399/0-3-8, 9=1201/0-3-8, 12=520/0-3-8
 Max Horz 2=108(LC 9)
 Max Uplift 2=-124(LC 10), 9=-116(LC 11), 12=-14(LC 11)
 Max Grav 2=1432(LC 2), 9=1201(LC 1), 12=689(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2608/766, 4-5=-2460/836, 5-6=-1555/622, 6-7=-1784/701, 7-9=-1910/630
 BOT CHORD 2-16=-547/2246, 14-16=-266/1554, 12-14=-241/1433, 11-12=-241/1433, 9-11=-429/1652
 WEBS 4-16=-442/318, 5-16=-265/937, 6-14=-12/453, 6-11=-134/326, 7-11=-468/325

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 9-9-5, Exterior(2) 9-9-5 to 28-2-11, Interior(1) 28-2-11 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=124, 9=116.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



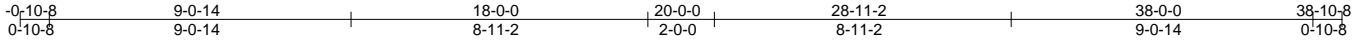
February 6, 2019

Job B0419-1989	Truss A08	Truss Type HIP	Qty 1	Ply 1	Embark A	E12673746
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:54 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-UXEYMG1BxA7DDNrFjLSLyRz021uyNdZwpKN3nzzo87Z



Scale = 1:69.3

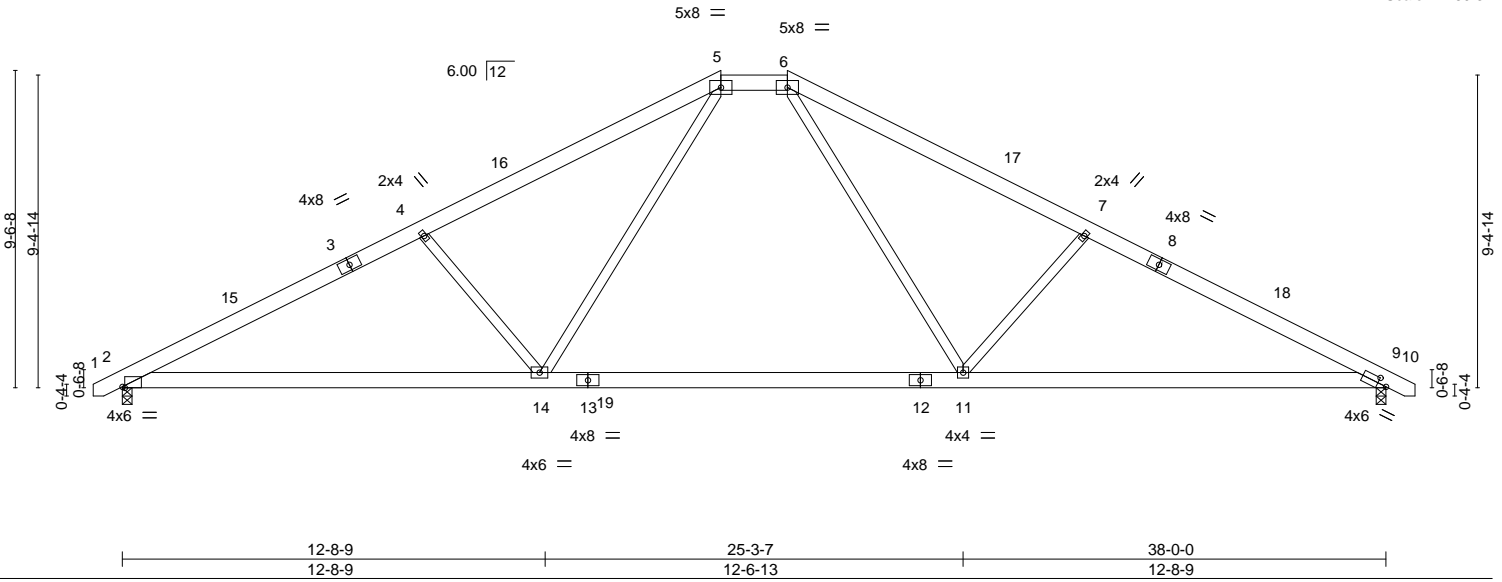


Plate Offsets (X,Y)--	[2:0-0-14,Edge], [9:0-3-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSL.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.40 11-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.54 11-14 >841 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.07 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 2-14 >999 240		
				Weight: 239 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
5-14,6-11: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1560/0-3-8, 9=1560/0-3-8
Max Horz 2=121(LC 9)
Max Uplift 2=-136(LC 10), 9=-136(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2779/816, 4-5=-2509/787, 5-6=-1668/701, 6-7=-2502/782, 7-9=-2780/817
BOT CHORD 2-14=-581/2439, 11-14=-272/1668, 9-11=-583/2414
WEBS 4-14=-568/352, 5-14=-170/970, 6-11=-164/972, 7-11=-572/353

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 11-9-5, Exterior(2) 11-9-5 to 26-2-11, Interior(1) 26-2-11 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=136, 9=136.



February 6, 2019

Job B0419-1989	Truss A09	Truss Type COMMON	Qty 2	Ply 1	Embark A	E12673747
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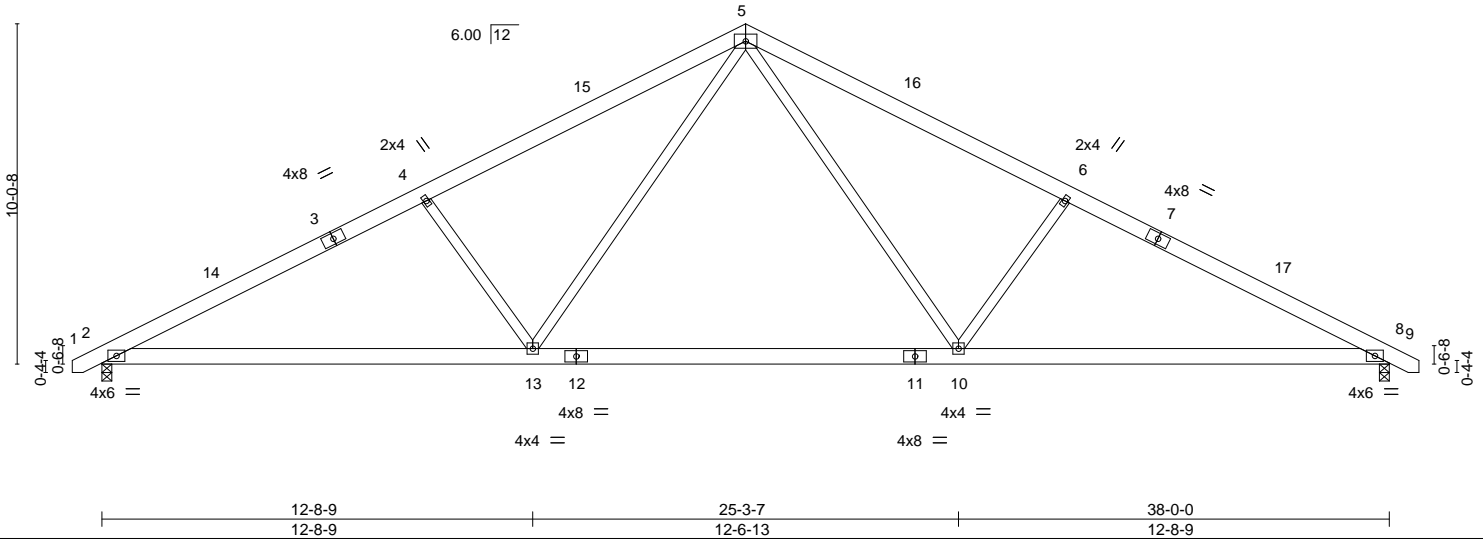
8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:55 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwhBtzeN_9-yjowa01piUF4qXQSH3zaUeWBzREI63332_6cJPzo87Y

-0-10-8 9-6-14 19-0-0 28-5-2 38-0-0 38-10-8
0-10-8 9-6-14 9-5-2 9-5-2 9-6-14 0-10-8

5x8 =

Scale = 1:68.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.39 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.52 10-13 >866 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 2-13 >999 240	Weight: 242 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-10,4-13: 2x4 SP No.3

BRACING-

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

REACTIONS.

(lb/size) 2=1560/0-3-8, 8=1560/0-3-8
 Max Horz 2=128(LC 9)
 Max Uplift 2=141(LC 10), 8=141(LC 11)

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

TOP CHORD 2-4=-2764/719, 4-5=-2514/723, 5-6=-2514/723, 6-8=-2764/719
 BOT CHORD 2-13=-488/2447, 10-13=-192/1598, 8-10=-488/2397
 WEBS 5-10=-186/1054, 6-10=-572/342, 5-13=-186/1053, 4-13=-572/342

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 8=141.



February 6, 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 B0419-1989	Truss A10	Truss Type COMMON	Qty 5	Ply 1	Embark A	E12673748
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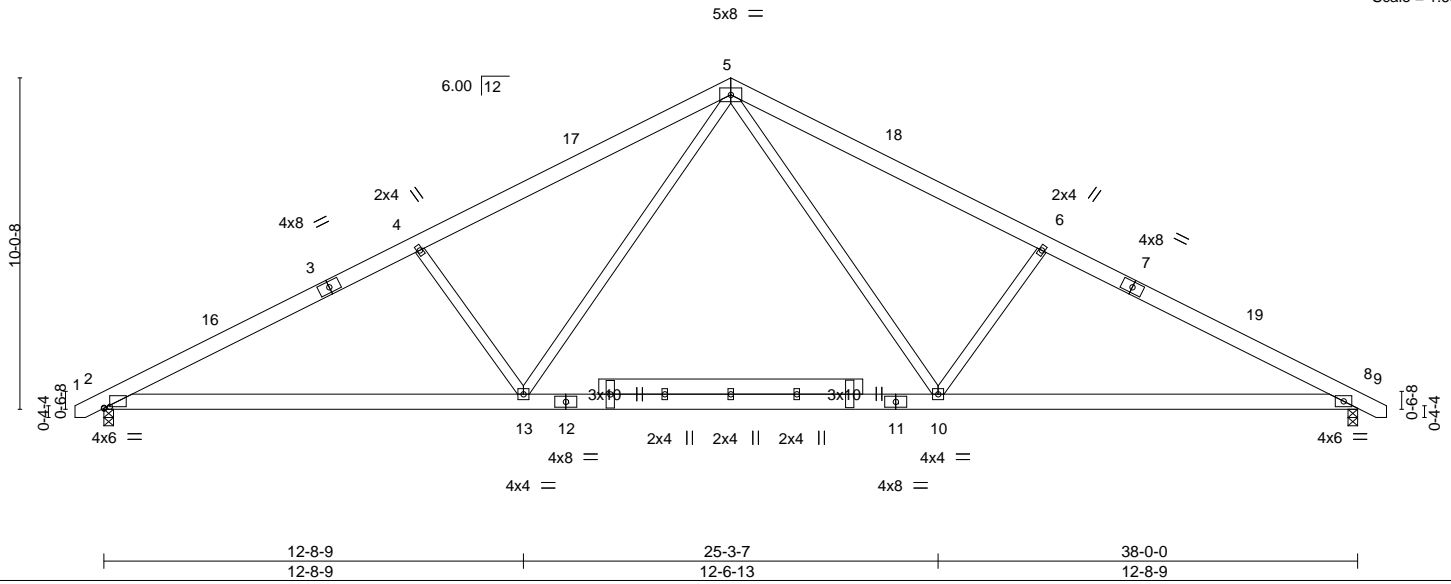
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:56 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-QwMJnM2RToNxSh?ermUp1s2MjrbUrWJDHes9sszo87X

-0-10-8 0-10-8	9-6-14 9-6-14	19-0-0 9-5-2	28-5-2 9-5-2	38-0-0 9-6-14	38-10-8 0-10-8
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Scale = 1:69.8



12-8-9 12-8-9	25-3-7 12-6-13	38-0-0 12-8-9
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Plate Offsets (X,Y)-- [2:0-2-2,0-0-9], [2:0-0-4,0-0-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.16 2-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.36 2-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.07 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 2-13 >999 240		
				Weight: 261 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-10,4-13: 2x4 SP No.3, 14-15: 2x6 SP No.1

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

REACTIONS. (lb/size) 2=1560/0-3-8, 8=1560/0-3-8
Max Horz 2=128(LC 9)
Max Uplift 2=-141(LC 10), 8=-141(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2659/719, 4-5=-2356/723, 5-6=-2356/723, 6-8=-2659/719
BOT CHORD 2-13=-488/2295, 10-13=-192/1500, 8-10=-488/2295
WEBS 5-10=-186/896, 6-10=-572/342, 5-13=-186/896, 4-13=-572/342

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 8=141.



February 6, 2019

Job B0419-1989	Truss A11	Truss Type COMMON	Qty 2	Ply 1	Embark A	E12673749
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:57 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwhBtzeN_9-u6wh?i33E5Vo4raqOU?2a3bWzFwAay9MVlbyOlzo87W

-0-10-8 0-10-8	9-6-14 9-6-14	19-0-0 9-5-2	28-5-2 9-5-2	38-0-0 9-6-14	38-10-8 0-10-8
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Scale = 1:69.8

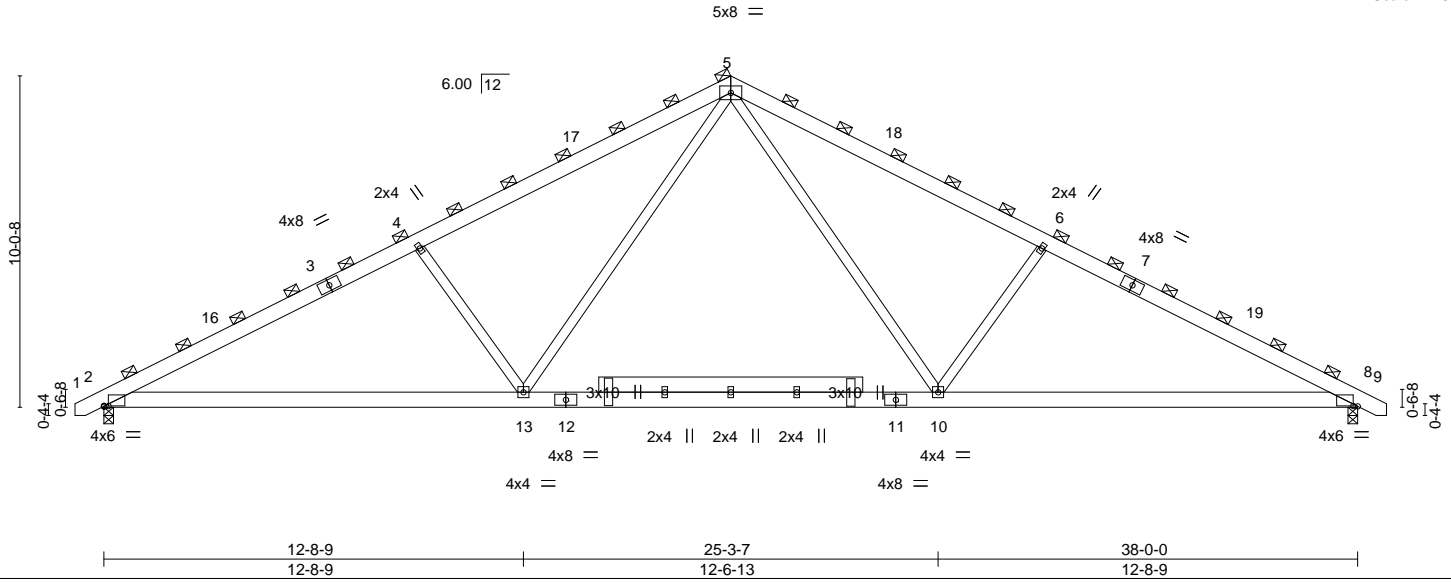


Plate Offsets (X,Y)--	[2:0-1-10,0-0-2], [2:0-0-4,0-0-0], [2:0-0-0,0-0-0], [8:0-1-10,0-0-2]
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LOADING (psf)	SPACING-	2-1-8	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.17	2-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.38	2-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.07	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08	2-13	>999	Weight: 261 lb	FT = 20%

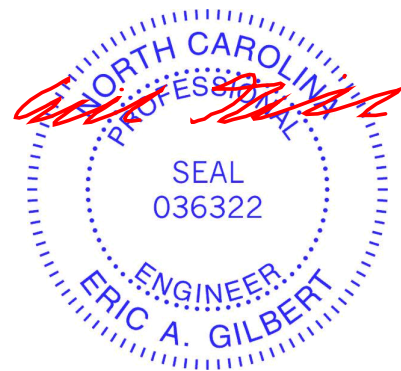
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-10,4-13: 2x4 SP No.3, 14-15: 2x6 SP No.1

BRACING-
TOP CHORD 2-0-0 oc purlins (4-2-2 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1658/0-3-8, 8=1658/0-3-8
Max Horz 2=-136(LC 8)
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 2-4=-2825/763, 4-5=-2503/768, 5-6=-2503/768, 6-8=-2825/763
BOT CHORD 2-13=-518/2438, 10-13=-204/1594, 8-10=-518/2438
WEBS 5-10=-198/951, 6-10=-608/364, 5-13=-198/951, 4-13=-608/364

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 6, 2019

Job B0419-1989	Truss A12	Truss Type COMMON	Qty 8	Ply 1	Embark A	E12673750
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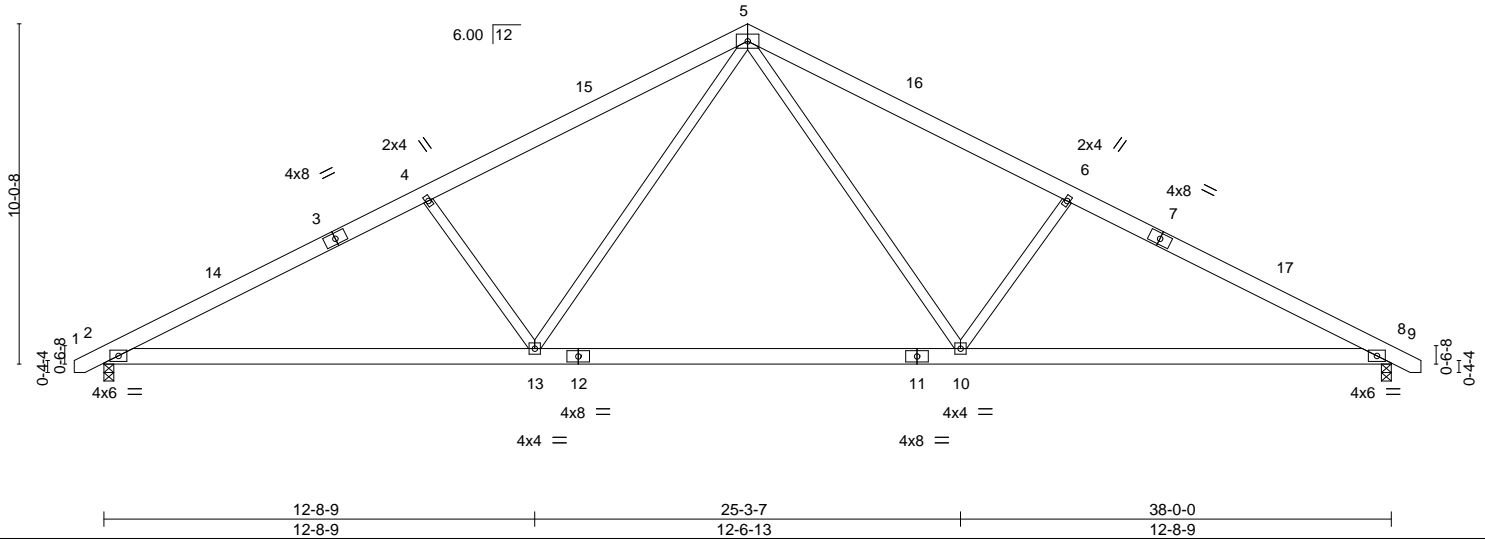
8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:58 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-MIU3C24h?Pdfh_80yBWH6H8iDeG?JQoVkyLGwkzo87V

-0-10-8 9-6-14 19-0-0 28-5-2 38-0-0 38-10-8
0-10-8 9-6-14 9-5-2 9-5-2 9-6-14 0-10-8

5x8 =

Scale = 1:68.0



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.39 10-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.52 10-13 >866 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.07 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 2-13 >999 240	Weight: 242 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-10,4-13: 2x4 SP No.3

BRACING-

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

REACTIONS.

(lb/size) 2=1560/0-3-8, 8=1560/0-3-8
 Max Horz 2=128(LC 9)
 Max Uplift 2=141(LC 10), 8=141(LC 11)

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

TOP CHORD 2-4=-2764/719, 4-5=-2514/723, 5-6=-2514/723, 6-8=-2764/719
 BOT CHORD 2-13=-488/2447, 10-13=-192/1598, 8-10=-488/2397
 WEBS 5-10=-186/1054, 6-10=-572/342, 5-13=-186/1053, 4-13=-572/342

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 8=141.



February 6, 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 B0419-1989	Truss A13	Truss Type GABLE	Qty 1	Ply 1	Embark A Job Reference (optional)	E12673751
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:15:59 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-qU1RQO5JmjlWJ8jDWv1WfUgx52mo2xgfc4qTAzo87U

-0-10-8 19-0-0 38-0-0 38-10-8
0-10-8 19-0-0 19-0-0 0-10-8

5x8 =

Scale = 1:66.6

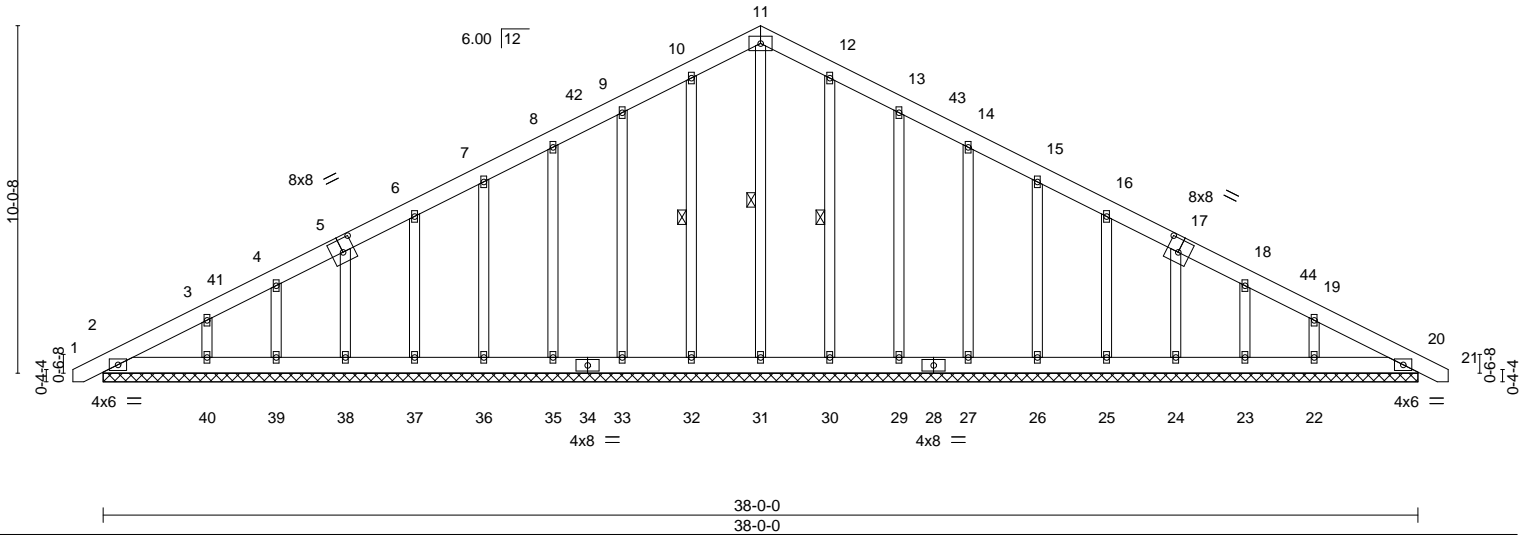


Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [17:0-4-0,0-4-8]

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 0.06	Vert(LL)	0.00	20	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	20	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 317 lb	FT = 20%

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.
WEBS 1 Row at midpt 11-31, 10-32, 12-30

REACTIONS. All bearings 38-0-0.
(lb) - Max Horz 2=199(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23 except
40=112(LC 10), 22=111(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26, 25,
24, 23, 22 except 31=251(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-251/88, 8-9=-88/251, 9-10=-111/338, 10-11=-125/408, 11-12=-125/408,
12-13=-111/338, 13-14=-88/251

- 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) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 14-7-3, Corner(3) 14-7-3 to 19-0-0, Exterior(2) 23-4-13 to 34-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23 except (jt=lb) 40=112, 22=111.



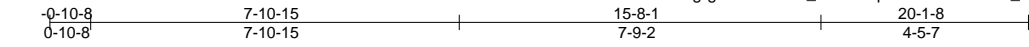
February 6, 2019

Job B0419-1989	Truss B2	Truss Type COMMON	Qty 1	Ply 1	Embark A	E12673753
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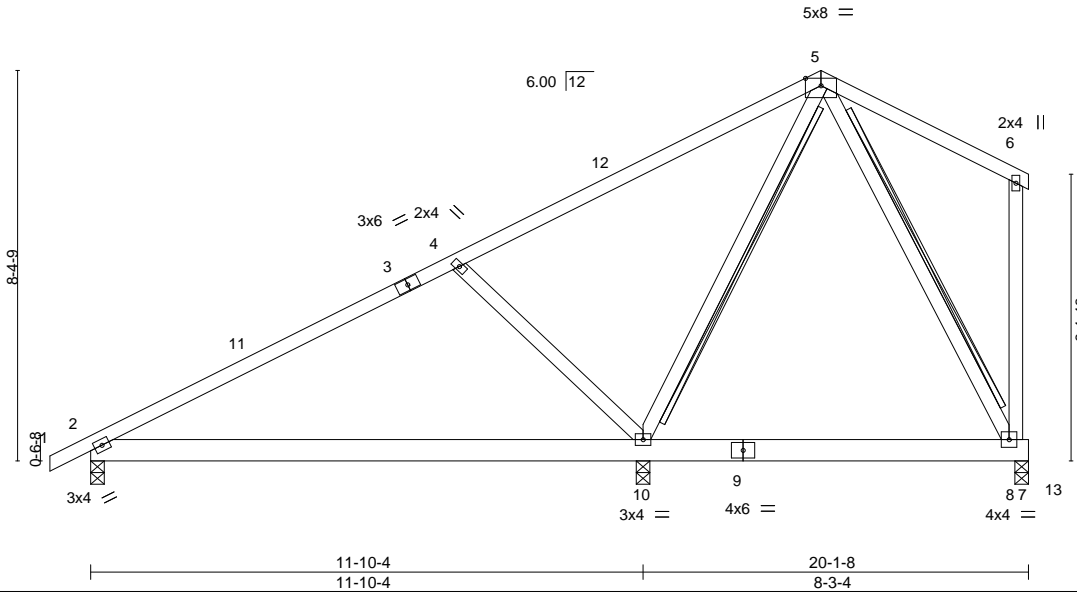
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:01 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-mt9Cq46aIK?EYStbdK4_kvmm9vsLeWoAyQwZwX3zo87S



Scale = 1:49.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(LL) -0.12 2-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.26 2-10 >548 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 2-10 >999 240	Weight: 124 lb	FT = 20%

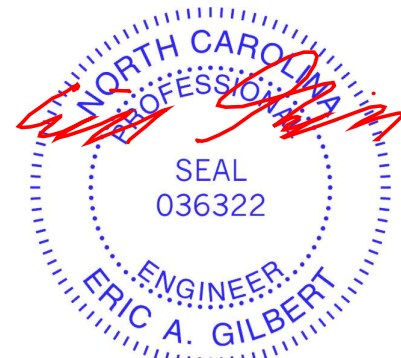
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 5-10, 5-8
 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) 10=898/0-3-8, 8=258/0-3-8, 2=486/0-3-8
 Max Horz 2=225(LC 10)
 Max Uplift 10=-120(LC 10), 8=-35(LC 11), 2=-27(LC 10)
 Max Grav 10=944(LC 17), 8=325(LC 2), 2=486(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-404/68
 BOT CHORD 2-10=-192/276
 WEBS 4-10=-499/313, 5-10=-313/157

- 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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-3-4, Exterior(2) 11-3-4 to 15-8-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2 except (jt=lb) 10=120.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 6, 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.

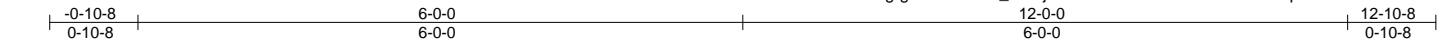


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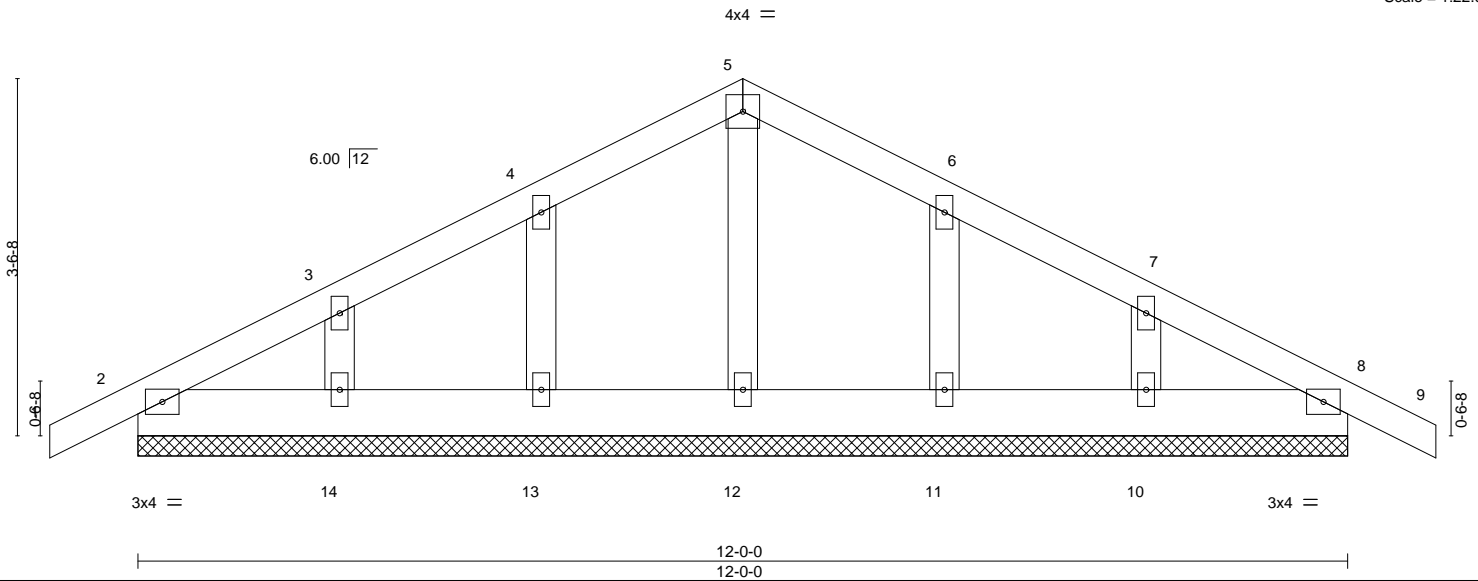
Job B0419-1989	Truss C1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Embark A Job Reference (optional)	E12673754
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:02 2019 Page 1
ID:Wu6AUPOZbrU4SsrgbEwHBtzeN_9-F3ja2Q7C3e75AcSoB1bDH6ITUGnpFKU5faJU3Vzo87R



Scale = 1:22.9



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	-0.00	8	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	-0.00	8	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 63 lb	FT = 20%
	Code IRC2015/TPI2014							

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

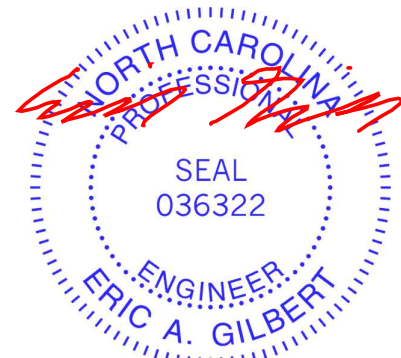
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=70(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



February 6, 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.

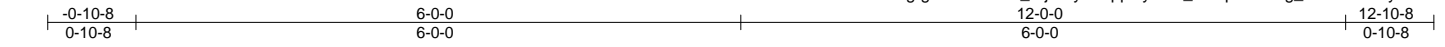


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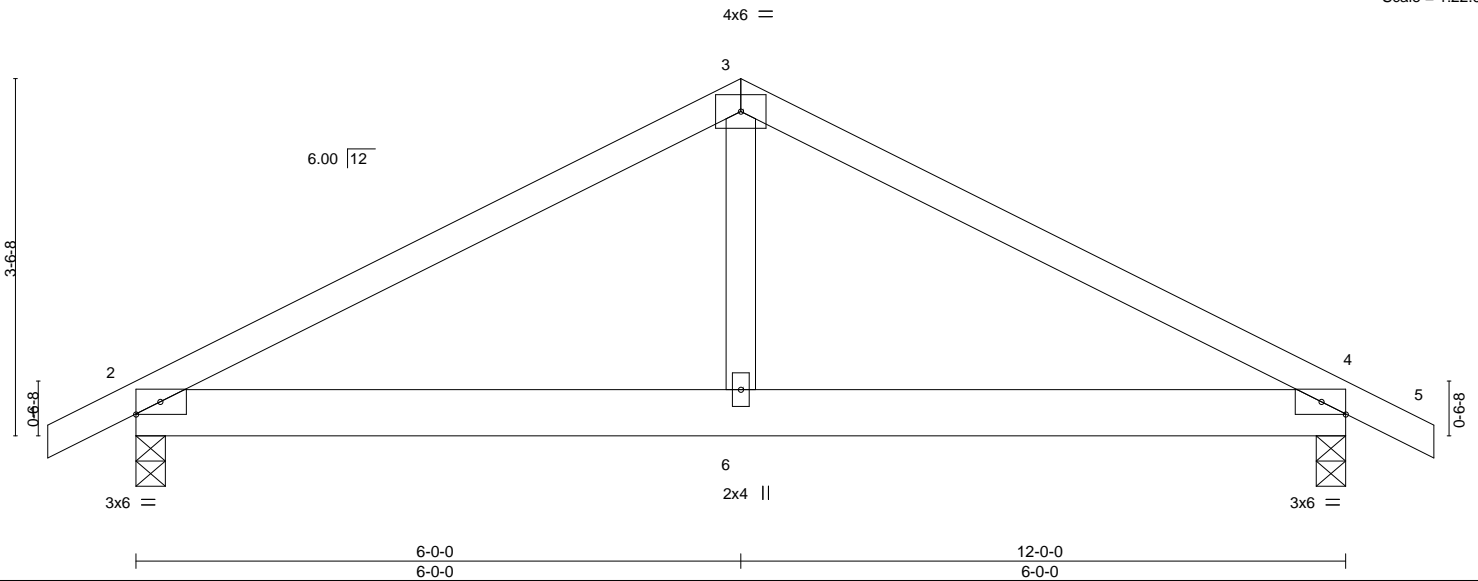
Job B0419-1989	Truss C2	Truss Type COMMON	Qty 2	Ply 1	Embark A	E12673755
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:03 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwhBtzeN_9-jGHyF18qxxFyom1_lk6SpKraZf5g_mwEuE21cyzo87Q



Scale = 1:22.9



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.01	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.03	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	4-6	>999	240	Weight: 55 lb	FT = 20%

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

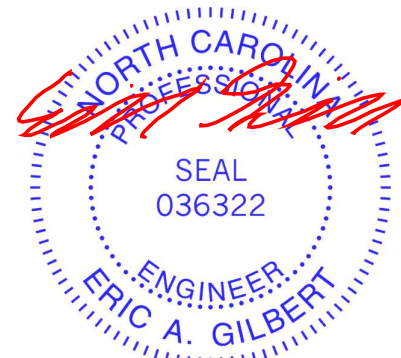
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=530/0-3-8, 4=530/0-3-8
Max Horz 2=45(LC 9)
Max Uplift 2=-54(LC 10), 4=-54(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-648/270, 3-4=-648/270
BOT CHORD 2-6=-104/494, 4-6=-104/494
WEBS 3-6=0/297

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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



February 6, 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 B0419-1989	Truss C3	Truss Type COMMON	Qty 1	Ply 1	Embark A Job Reference (optional)	E12673756
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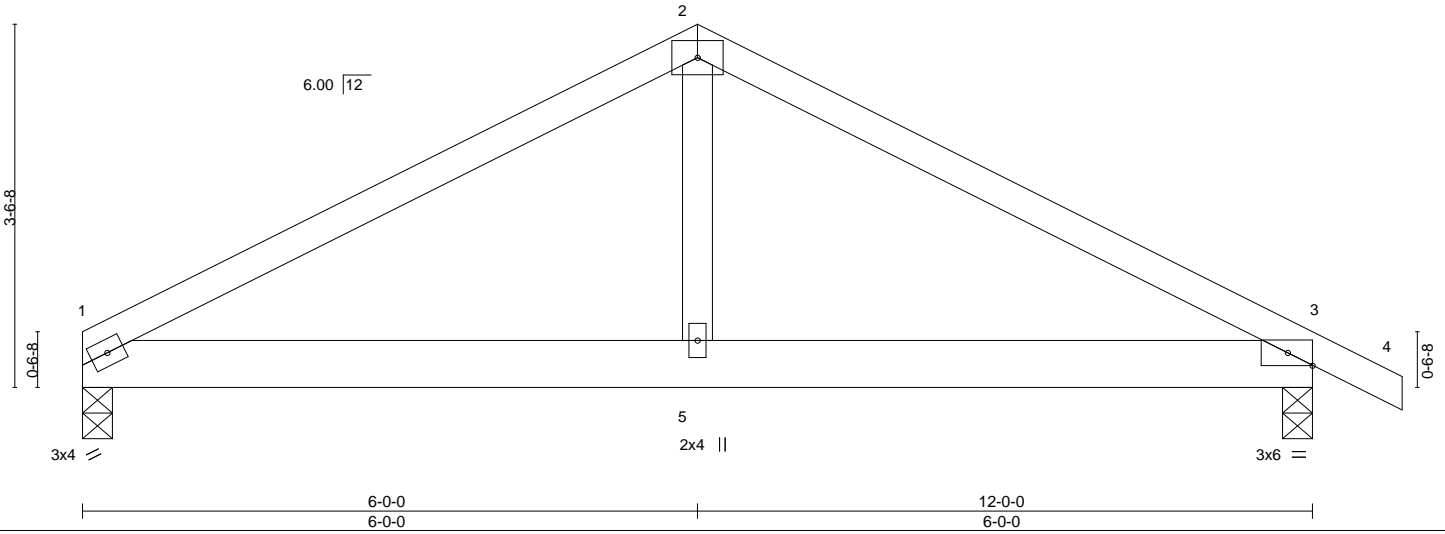
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:04 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-BSrKT58SbFOPvcAJSDhMXOkF3RwjDBO6uoa8Ozo87P



4x6 =

Scale = 1:22.5



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.01	3-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.03	3-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	3-5	>999	240	Weight: 54 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=466/0-3-8, 3=532/0-3-8
 Max Horz 1=46(LC 8)
 Max Uplift 1=-39(LC 10), 3=-54(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-649/271, 2-3=-653/277
 BOT CHORD 1-5=-110/499, 3-5=-110/499
 WEBS 2-5=0/296

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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



February 6, 2019

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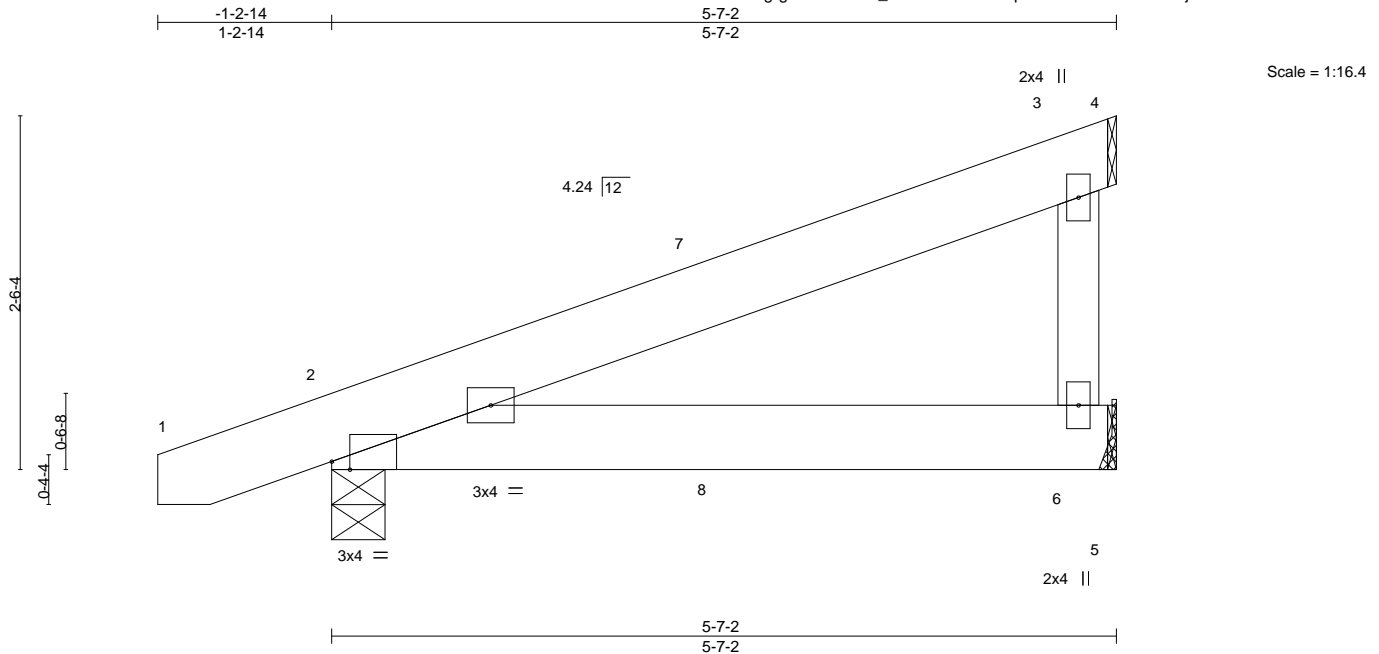


818 Soundside Road
 Edenton, NC 27932

Job B0419-1989	Truss CJ07	Truss Type DIAGONAL HIP GIRDER	Qty 1	Ply 1	Embark A	E12673757
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:04 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-BSrKT58SbFOPpvcAJShdMXOnJ3SkjExO6uoa8Ozo87P



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) -0.01 2-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 2-6 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 2 **** 240	Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 6=207/Mechanical, 2=289/0-4-9
Max Horz 2=81(LC 4)
Max Uplift 6=-39(LC 8), 2=-65(LC 4)

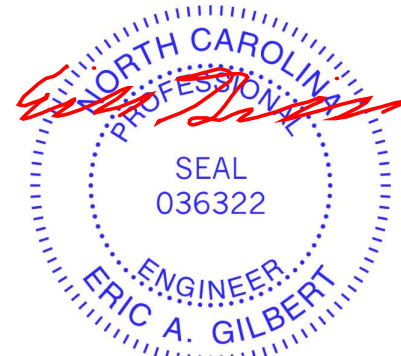
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 26 lb up at 2-9-8, and 56 lb down and 26 lb up at 2-9-8 on top chord, and 5 lb down at 2-9-8, and 5 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 2-5=-20



February 6, 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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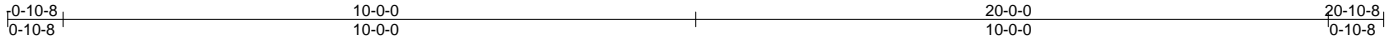
818 Soundside Road
Edenton, NC 27932

Job B0419-1989	Truss G1	Truss Type COMMON	Qty 1	Ply 1	Embark A Job Reference (optional)	E12673758
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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-fePigR94LZWg13BNs98wulwrZTe6SfSXLyX8gqzo870



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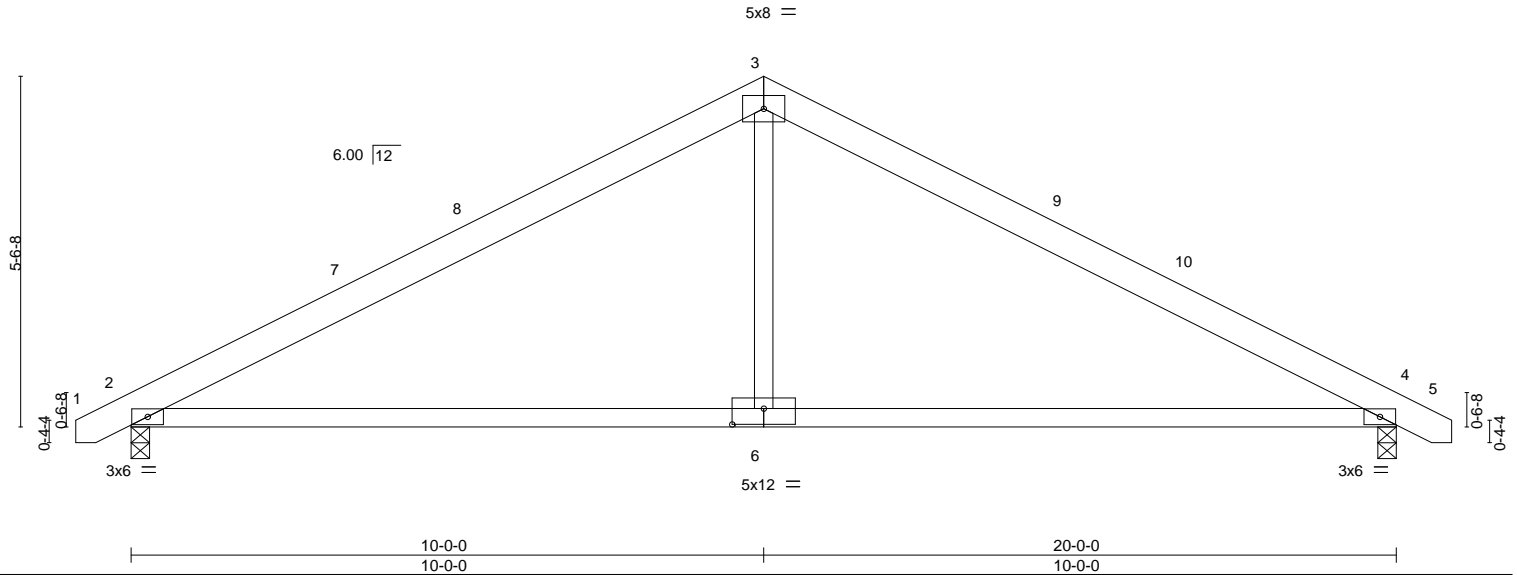


Plate Offsets (X,Y)--	[6:0-6-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.17	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.36	2-6	>659	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	2-6	>999	240		
							Weight: 94 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 4=840/0-3-8, 2=840/0-3-8
 Max Horz 2=70(LC 9)
 Max Uplift 4=-79(LC 11), 2=-79(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1079/350, 3-4=-1079/350
 BOT CHORD 2-6=-151/875, 4-6=-151/875
 WEBS 3-6=0/457

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-4-13 to 16-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



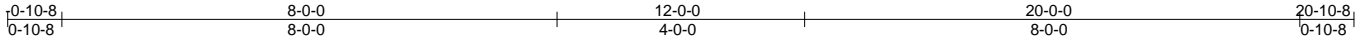
February 6, 2019

Job B0419-1989	Truss G2	Truss Type HIP	Qty 1	Ply 1	Embark A Job Reference (optional)	E12673759
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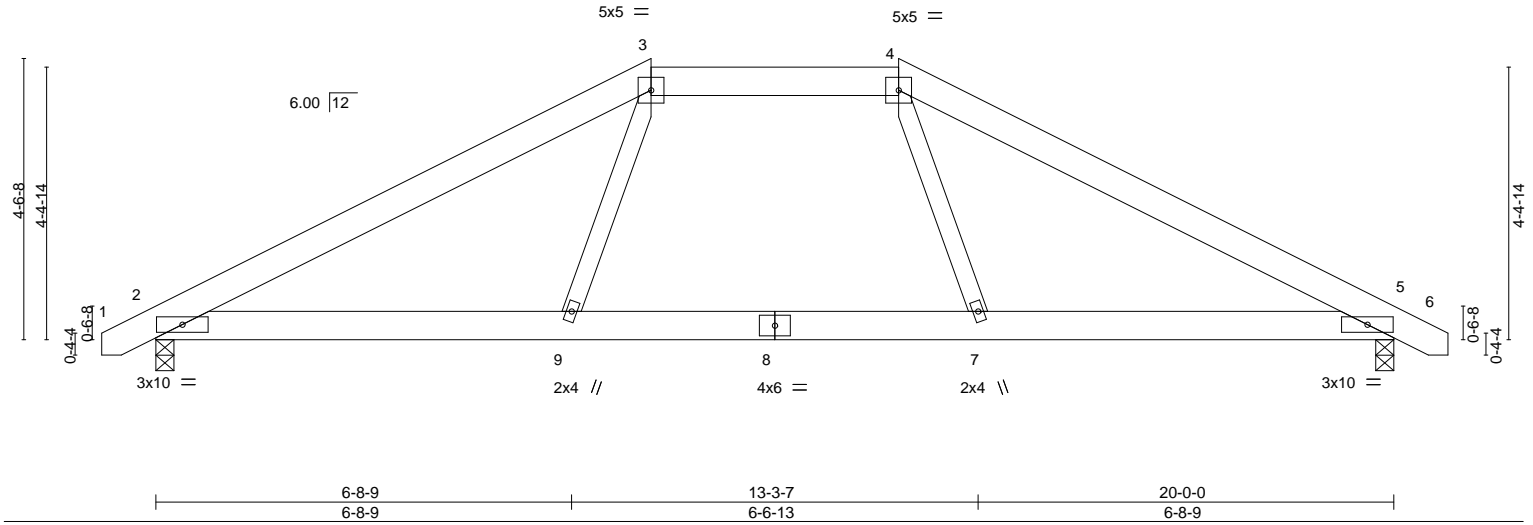
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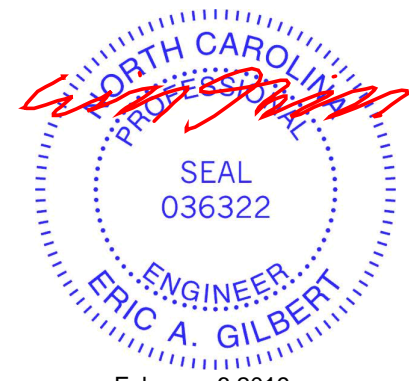
LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.07 2-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.10 2-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 2-9 >999 240	Weight: 115 lb	FT = 20%

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

REACTIONS. (lb/size) 2=840/0-3-8, 5=840/0-3-8
 Max Horz 2=56(LC 9)
 Max Uplift 2=-69(LC 10), 5=-69(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1256/409, 3-4=-966/462, 4-5=-1256/409
 BOT CHORD 2-9=-214/1023, 7-9=-230/966, 5-7=-214/1023
 WEBS 3-9=0/306, 4-7=0/306

- 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



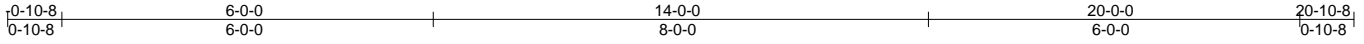
February 6, 2019

Job	Truss	Truss Type	Qty	Ply	Embark A	E12673760
B0419-1989	G3	HIP	1	1	Job Reference (optional)	

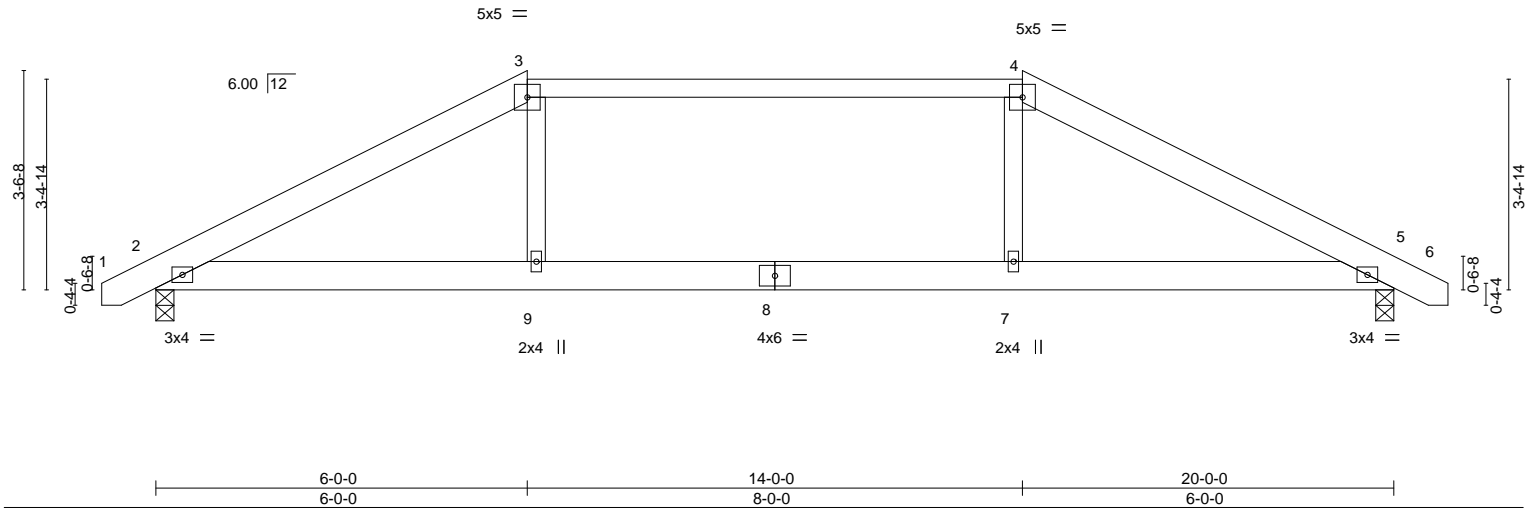
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Scale = 1:37.2



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.07 7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.09 7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 9 >999 240	Weight: 103 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-5-10 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) 5=840/0-3-8, 2=840/0-3-8
Max Horz 2=44(LC 9)
Max Uplift 5=-55(LC 11), 2=-55(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1359/446, 3-4=-1151/459, 4-5=-1359/446
BOT CHORD 2-9=-280/1144, 7-9=-277/1151, 5-7=-280/1144
WEBS 3-9=0/299, 4-7=0/299

- 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



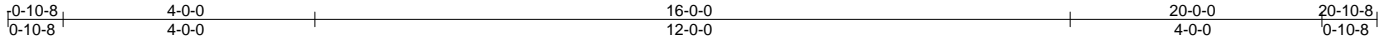
February 6, 2019

Job B0419-1989	Truss G4	Truss Type HIP GIRDER	Qty 1	Ply 1	Embark A	E12673761
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8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:08 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwhBtzeN_9-3D4rITBzeUuEuXvxYliidWNYJWgg_fyj_1WmoH9zo87L



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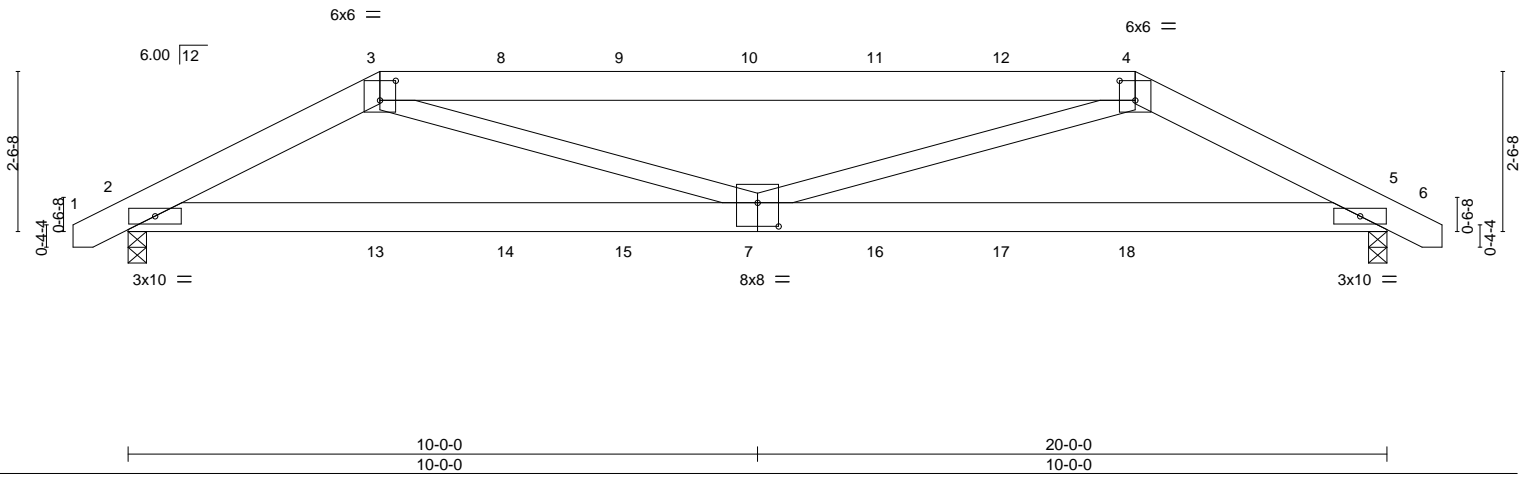


Plate Offsets (X,Y)--	[3:0-3-0,0-3-12], [4:0-3-0,0-3-12], [7:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.10	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.23	5-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07	5-7	>999	240		
									Weight: 119 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 3-4: 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

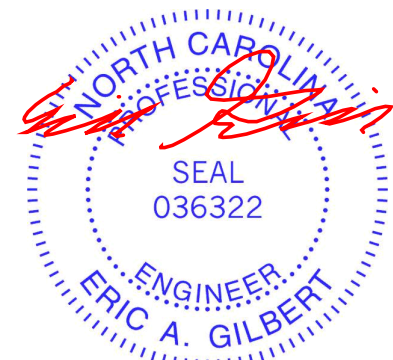
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=1237/0-3-8, 2=1240/0-3-8
 Max Horz 2=31(LC 7)
 Max Uplift 5=222(LC 9), 2=223(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2174/551, 3-4=-2608/338, 4-5=-2172/550
 BOT CHORD 2-7=-495/1940, 5-7=-469/1938
 WEBS 3-7=0/1110, 4-7=0/1111

- 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=222, 2=223.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 69 lb up at 4-0-0, 47 lb down and 69 lb up at 6-0-12, 47 lb down and 69 lb up at 7-11-4, 47 lb down and 69 lb up at 9-11-4, 47 lb down and 69 lb up at 11-11-4, and 47 lb down and 69 lb up at 13-11-4, and 64 lb down and 69 lb up at 16-0-0 on top chord, and 194 lb down and 67 lb up at 4-0-0, 36 lb down at 6-0-12, 36 lb down at 7-11-4, 36 lb down at 9-11-4, 36 lb down at 11-11-4, and 36 lb down at 13-11-4, and 194 lb down and 67 lb up at 15-11-4 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
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20



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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.

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Embark A	E12673761
B0419-1989	G4	HIP GIRDER	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:08 2019 Page 2
 ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-3D4rITBzeUuEuXvxYlidWNYJWgg_fyJ_1WmoH9zo87L

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-46(B) 4=-46(B) 7=-18(B) 8=-46(B) 9=-46(B) 10=-46(B) 11=-46(B) 12=-46(B) 13=-194(B) 14=-18(B) 15=-18(B) 16=-18(B) 17=-18(B) 18=-194(B)

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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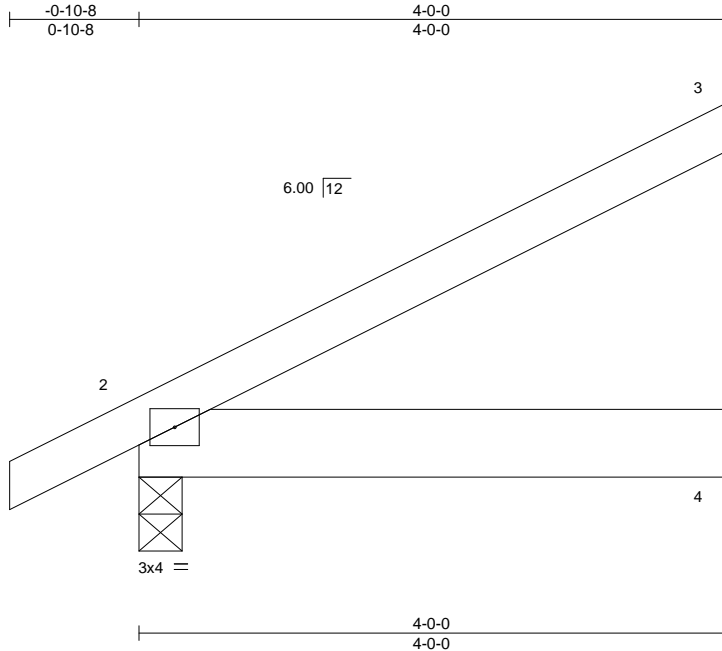
818 Soundside Road
 Edenton, NC 27932

Job B0419-1989	Truss GJ1	Truss Type JACK-OPEN	Qty 7	Ply 1	Embark A	E12673762
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:08 2019 Page 1

ID:Wu6AUPOZbrU4SgrgbEwhBtzeN_9-3D4rTBzeUuEuXvxYlidWNYT7gqaf2w_1WmoH9zo87L



Scale = 1:15.6

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.17	Vert(LL) -0.00	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.05	Vert(CT) -0.01	2-4	>999	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) 0.00	2	****	240		Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

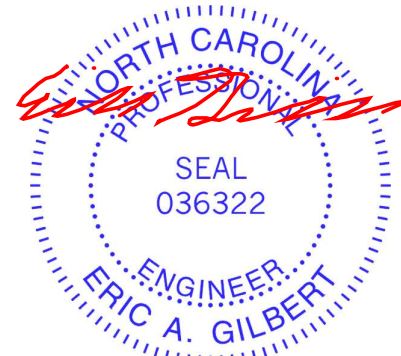
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical
Max Horz 2=76(LC 10)
Max Uplift 3=56(LC 10), 2=17(LC 10)
Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



February 6, 2019

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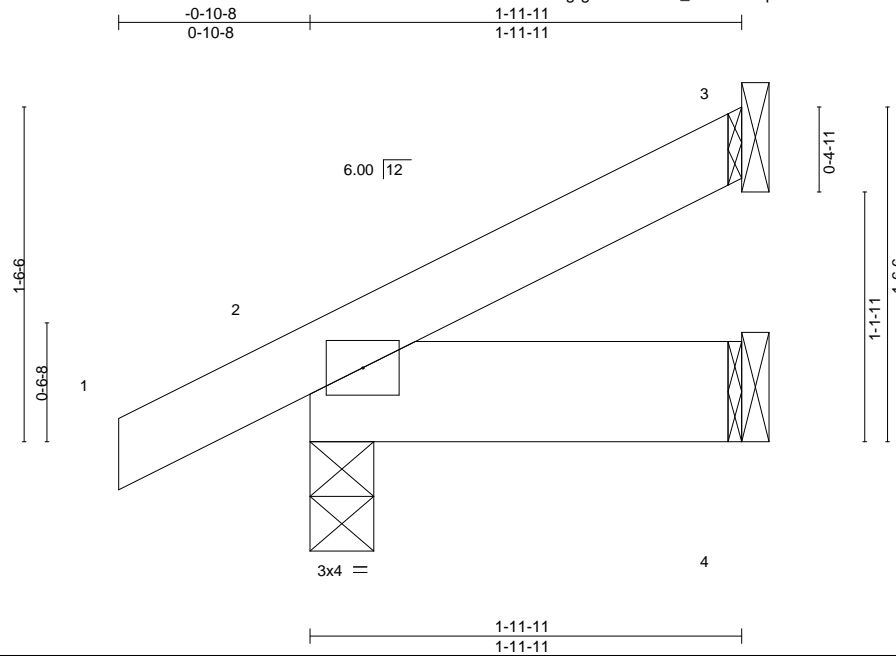


818 Soundside Road
Edenton, NC 27932

Job B0419-1989	Truss GJ2	Truss Type JACK-OPEN	Qty 4	Ply 1	Embark A	E12673763
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:09 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-XQeDWpCbPn05WhU85?Ds3b5gy4AROVA7G9Vlpbz087K



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 0.04	Vert(LL)	-0.00	2 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2 >999	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)	0.00	2 ****	240	Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=45/Mechanical, 2=144/0-3-8, 4=19/Mechanical
Max Horz 2=44(LC 10)
Max Uplift 3=27(LC 10), 2=-15(LC 10)
Max Grav 3=45(LC 1), 2=144(LC 1), 4=39(LC 3)

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



February 6, 2019

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818 Soundside Road
Edenton, NC 27932

Job B0419-1989	Truss GJC1	Truss Type DIAGONAL HIP GIRDER	Qty 2	Ply 1	Embark A	E12673764
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:10 2019 Page 1
ID:Wu6AUPQZbrU4SgrgbEwHBtzeN_9-0cCb9DDA58y7q3Kfik5boepsUVB7xQGvFvL2zo87J

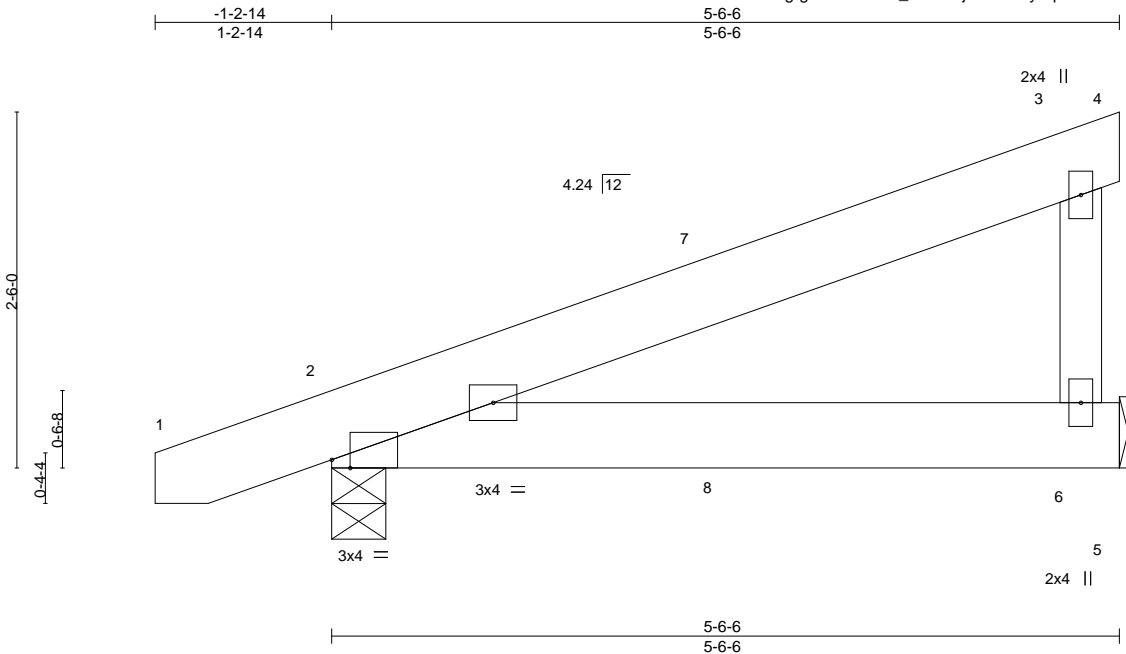


Plate Offsets (X,Y)-- [2:0-1-9,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.01 2-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02 2-6 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 32 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) 6=205/Mechanical, 2=286/0-4-9
Max Horz 2=80(LC 4)
Max Uplift 6=-39(LC 8), 2=-65(LC 4)

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); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 26 lb up at 2-9-8, and 56 lb down and 26 lb up at 2-9-8 on top chord, and 5 lb down at 2-9-8, and 5 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 2-5=-20



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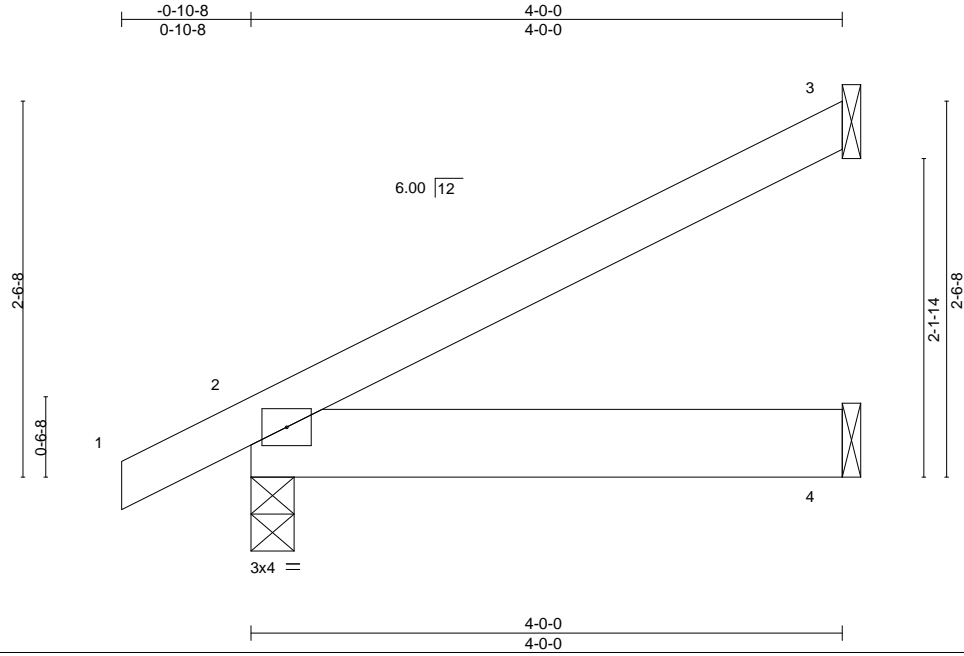


818 Soundside Road
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Job B0419-1989	Truss J3	Truss Type JACK-OPEN	Qty 7	Ply 1	Embark A	E12673765
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:10 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-0cCbJ9DDA58y7q3Kfik5boepdUW27xQGvPvL2zo87J



Scale = 1:15.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.01	2-4	>999	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) 0.00	2	****	240		
							Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

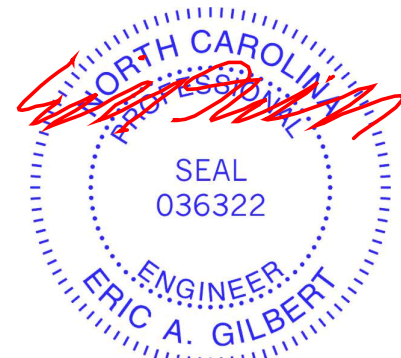
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical
Max Horz 2=76(LC 10)
Max Uplift 3=56(LC 10), 2=17(LC 10)
Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



February 6, 2019

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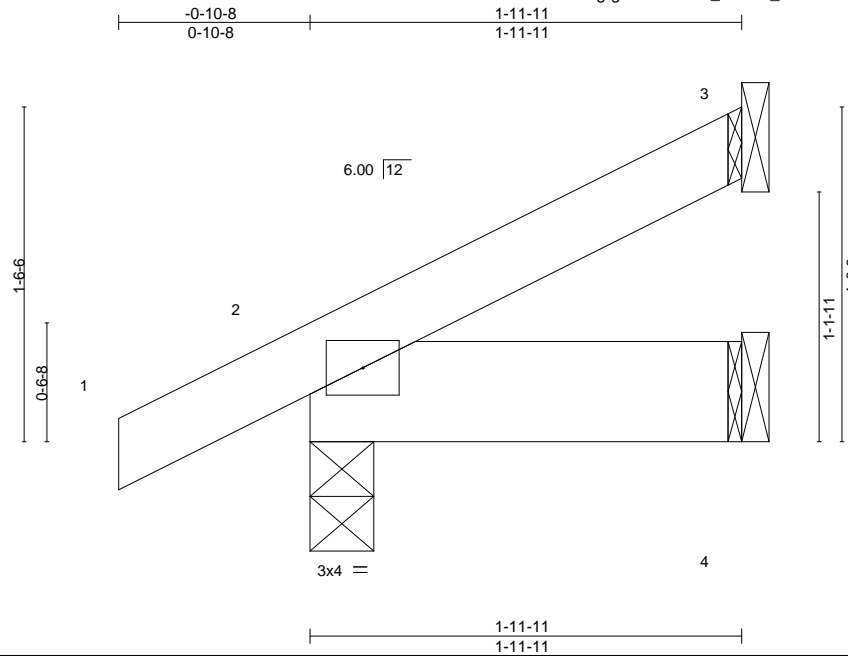


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Job B0419-1989	Truss J4	Truss Type JACK-OPEN	Qty 2	Ply 1	Embark A	E12673766
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8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:11 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-Uom_xUExrPGpl_eWDQFK80A0SusvsOfqJT_SuUzo87I



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 0.04	Vert(LL)	-0.00	2 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2 >999	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)	0.00	2 ****	240	Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

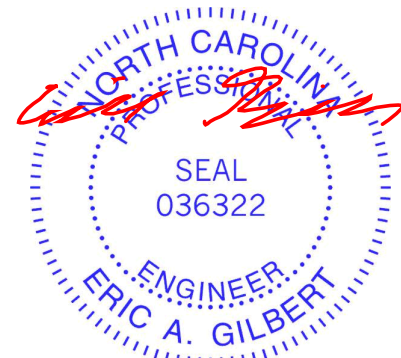
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=45/Mechanical, 2=144/0-3-8, 4=19/Mechanical
Max Horz 2=44(LC 10)
Max Uplift 3=-27(LC 10), 2=-15(LC 10)
Max Grav 3=45(LC 1), 2=144(LC 1), 4=39(LC 3)

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



February 6, 2019

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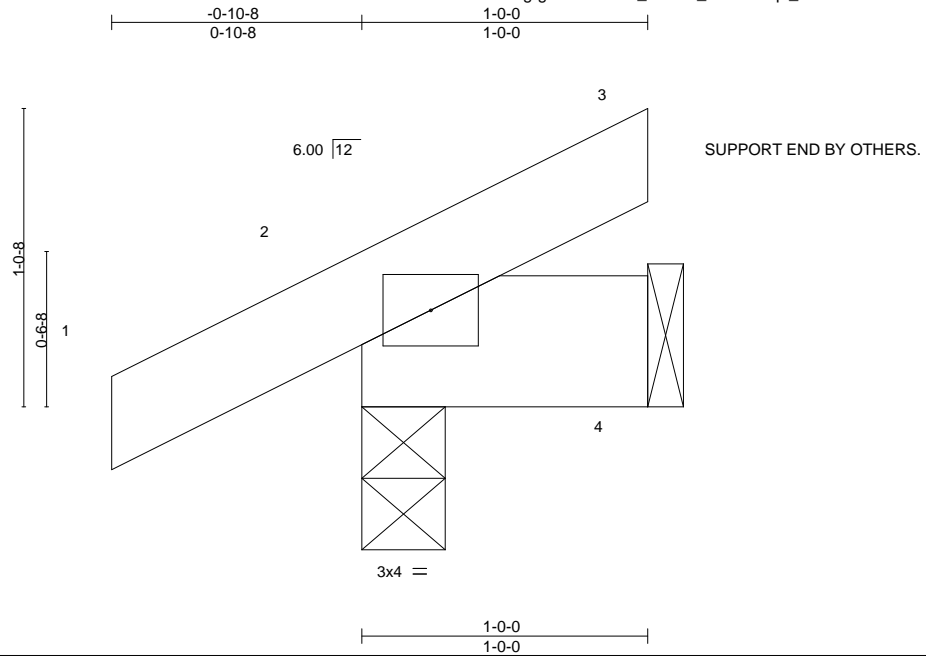


818 Soundside Road
Edenton, NC 27932

Job B0419-1989	Truss J6	Truss Type JACK-OPEN	Qty 4	Ply 1	Embark A	E12673767
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8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 5 16:16:11 2019 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-Uom_xUErxPGpl_eWDQFK80A0CusysOfQJT_SuUzo87I



Scale: 1.5"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	2	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
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: 6 lb	FT = 20%

LUMBER-

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

BRACING-

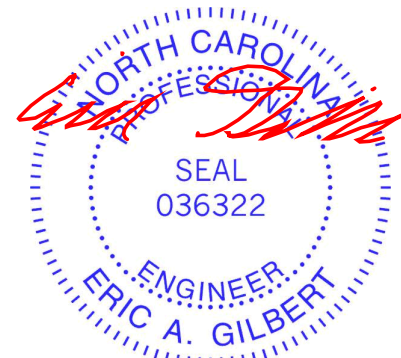
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=118/0-3-8, 4=13/Mechanical
Max Horz 2=37(LC 7)
Max Uplift 2=-37(LC 7), 4=-4(LC 7)
Max Grav 2=118(LC 1), 4=20(LC 3)

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



February 6, 2019

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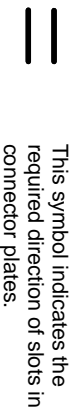
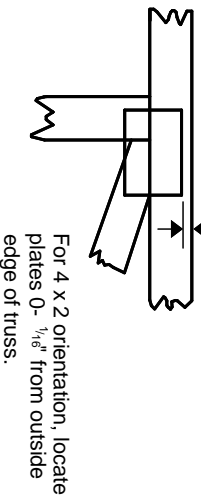
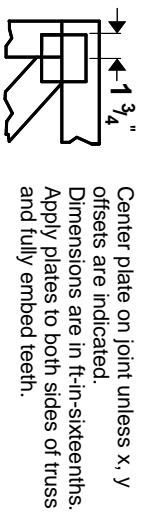
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

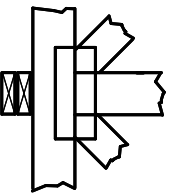
4 X 4

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

LATERAL BRACING LOCATION



BEARING

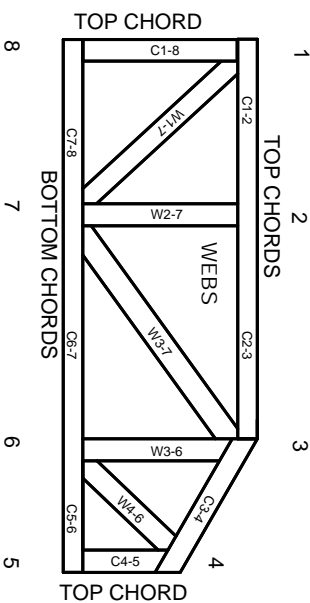


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.