

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: B0318-0847
Embark B

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

Pages or sheets covered by this seal: E11513095 thru E11513126

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



March 5, 2018

Lassiter, Frank

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

Job B0318-0847	Truss A1	Truss Type KINGPOST	Qty 1	Ply 1	Embark B	E11513095
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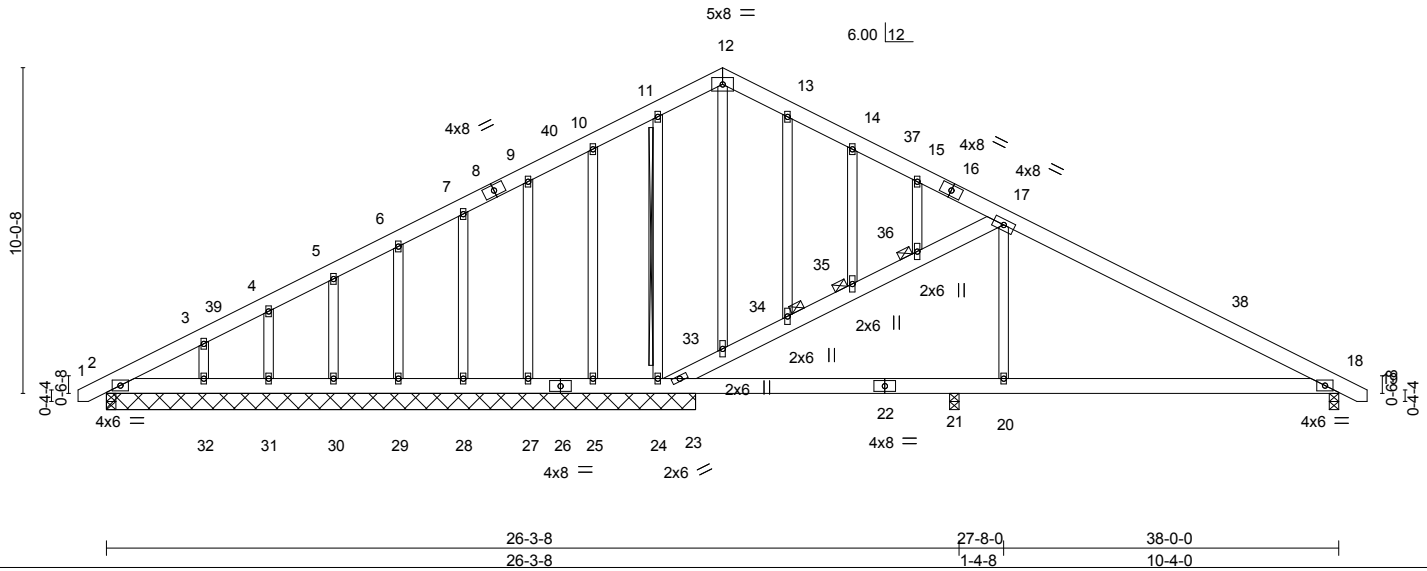
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:22 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-hyiYZZ8BpTThAKaKlImJhOomcuDPLL5rWJUT?CVze1ah

0-10-8 19-0-0 27-8-0 38-0-0 38-10-8
0-10-8 19-0-0 8-8-0 10-4-0 0-10-8

Scale = 1:71.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.07 18-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(TL) -0.23 18-20 >622 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(TL) -0.02 2 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.09 18-20 >999 240		
				Weight: 314 lb	FT = 20%

LUMBER-	BRACING-	JOINTS
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 *Except* 17-23: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 11-24 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length. 1 Brace at Jt(s): 34, 35, 36	

REACTIONS. All bearings 18-2-0 except (jt=length) 2=0-3-8, 2=0-3-8, 18=0-3-8, 21=0-3-8.
 (lb) - Max Horz 18=177(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 27, 28, 29, 30, 31, 21 except 24=-939(LC 2), 32=-135(LC 6), 18=-382(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 2, 2, 24, 25, 27, 28, 29, 30, 31, 32, 21 except 23=1544(LC 2), 18=837(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 12-13=-175/325, 13-14=-205/288, 15-17=-335/261, 17-18=-1097/450, 2-3=-269/1, 10-11=-162/282, 11-12=-246/356
 BOT CHORD 2-32=0/298, 31-32=0/298, 30-31=0/298, 29-30=0/298, 28-29=0/298, 27-28=0/298, 25-27=0/298, 24-25=0/298, 23-24=0/298, 21-23=-386/871, 20-21=-386/871, 18-20=-386/871
 WEBS 23-33=-796/537, 33-34=-824/586, 34-35=-804/564, 35-36=-752/516, 17-36=-803/559, 11-24=-296/141, 17-20=0/256

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone 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
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) 2, 25, 27, 28, 29, 30, 31, 21 except (jt=lb) 24=939, 32=135, 18=382.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 5, 2018

Job B0318-0847	Truss A2	Truss Type COMMON	Qty 4	Ply 1	Embark B	E11513096
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ID:Wu6AUPOZbrU4SgrgEwHBtzeN_9-A8Gwmv9panbYoU9XsSIYEcxllWw4gi?k8DYkze1ag

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 = 1:65.9

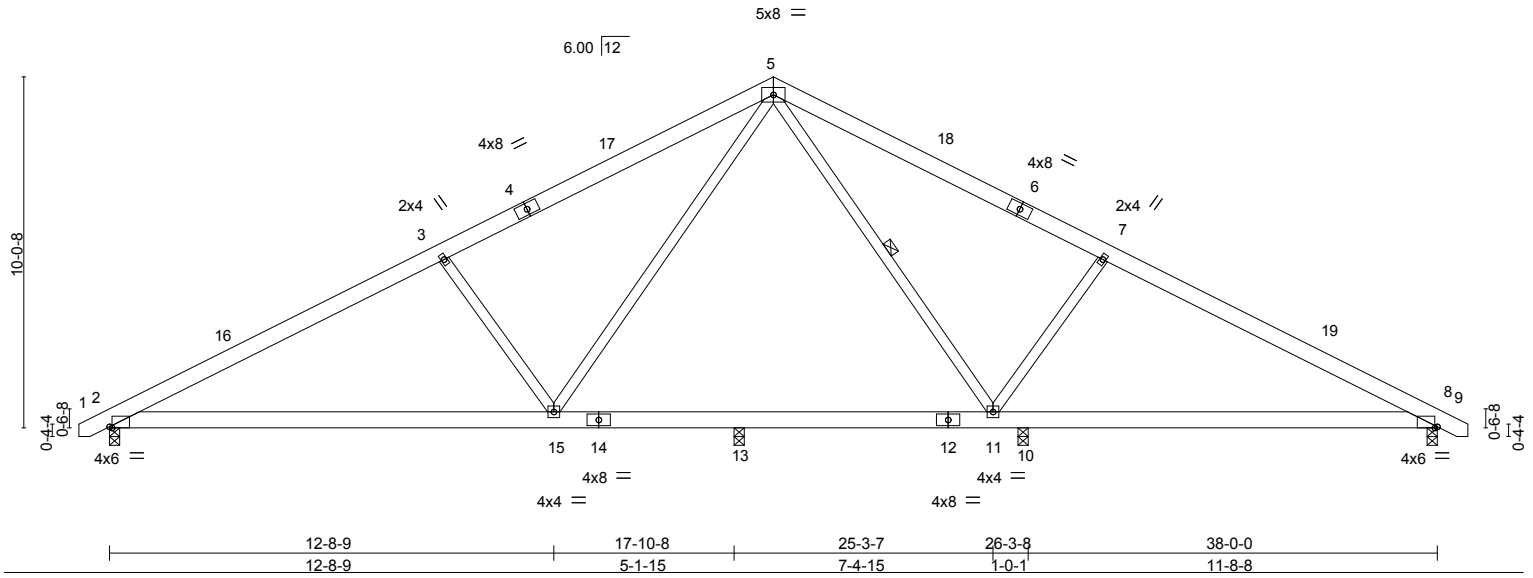


Plate Offsets (X,Y)--	[2:0-0-14,Edge], [8:0-0-14,Edge]
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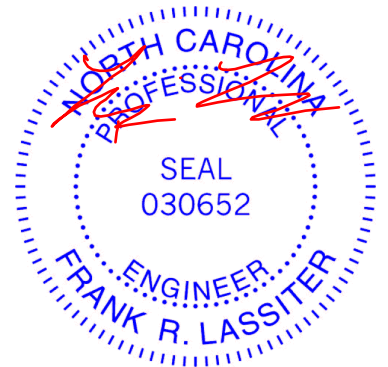
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.17	2-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(TL)	-0.48	2-15	>450		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(TL)	0.04	8	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.08	2-15	>999		
								Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-5-3 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 1 Row at midpt 5-11

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=150(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=243(LC 6), 8=191(LC 7), 10=123(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1126(LC 1), 8=669(LC 1), 13=545(LC 1), 10=1283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1701/681, 3-5=-1396/674, 5-7=-499/397, 7-8=-829/404
 BOT CHORD 2-15=-434/1446, 13-15=-44/647, 11-13=-44/647, 10-11=-186/643, 8-10=-186/643
 WEBS 5-11=-601/185, 7-11=-590/437, 5-15=-266/893, 3-15=-591/438

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) 13 except (jt=lb) 2=243, 8=191, 10=123.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 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 B0318-0847	Truss A3	Truss Type COMMON	Qty 4	Ply 1	Embark B	E11513097
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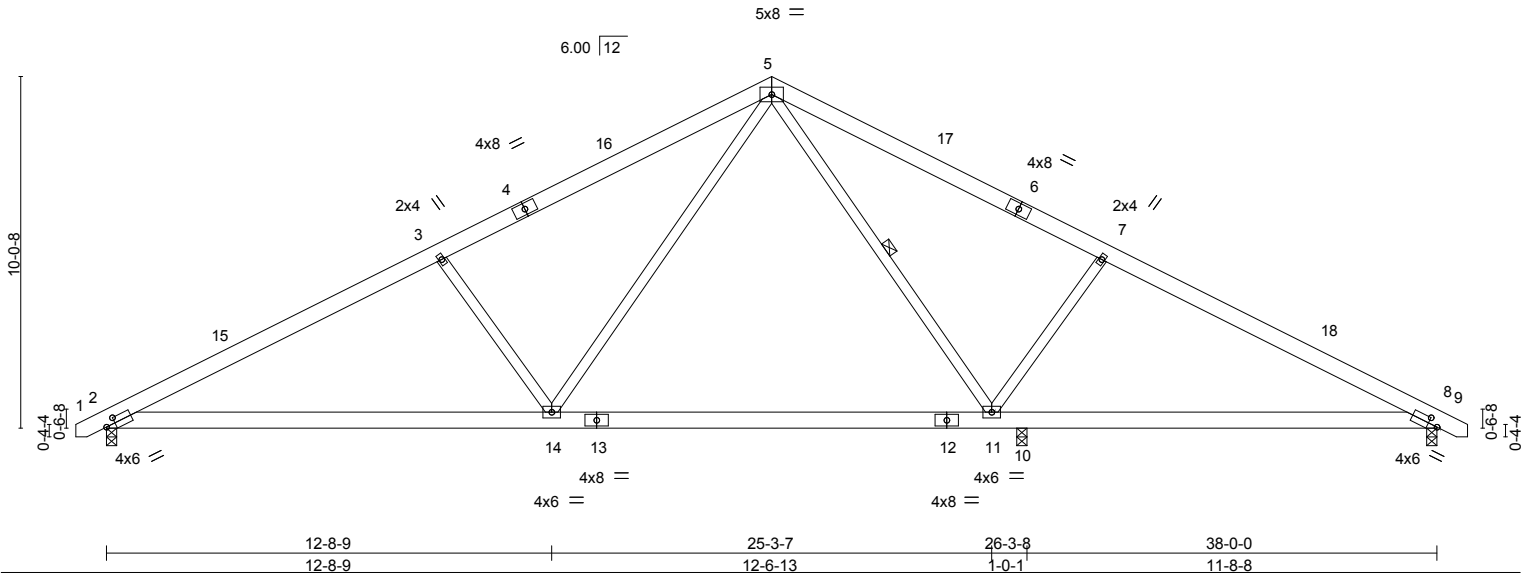
Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9_IdC1yEaAdLhWPcgDjPyTtAyajUxUNt74gsybe1aa

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 = 1:65.8



12-8-9	25-3-7	26-3-8	38-0-0
12-8-9	12-6-13	1-0-1	11-8-8

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

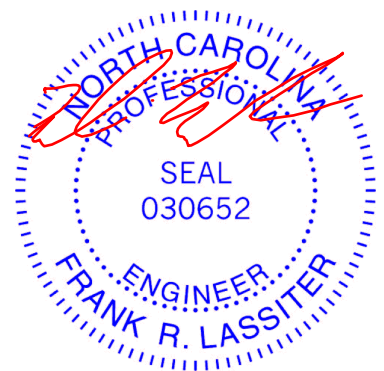
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.51	11-14	>616	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(TL) -0.76	11-14	>412	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(TL) 0.06	8	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.10	11-14	>999	240		
							Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-6-4 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 1 Row at midpt 5-11

REACTIONS. (lb/size) 2=1455/0-3-8, 8=1019/0-3-8, 10=1149/0-3-8
 Max Horz 2=-150(LC 7)
 Max Uplift 2=-247(LC 6), 8=-192(LC 7), 10=-123(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2530/747, 3-5=-2203/741, 5-7=-1331/466, 7-8=-1658/472
 BOT CHORD 2-14=-492/2153, 11-14=-81/1145, 10-11=-246/1374, 8-10=-246/1374
 WEBS 5-11=-321/148, 7-11=-565/435, 5-14=-300/1272, 3-14=-563/435

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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=247, 8=192, 10=123.



March 5, 2018

Job B0318-0847	Truss A4-P	Truss Type COMMON	Qty 5	Ply 1	Embark B	E11513098
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:30 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHbtzeN_9-SVBaEIFCwwTY7ZBtmQwB04j7j6rMDru1LkPQU1ze1aZ

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

Scale = 1:68.0

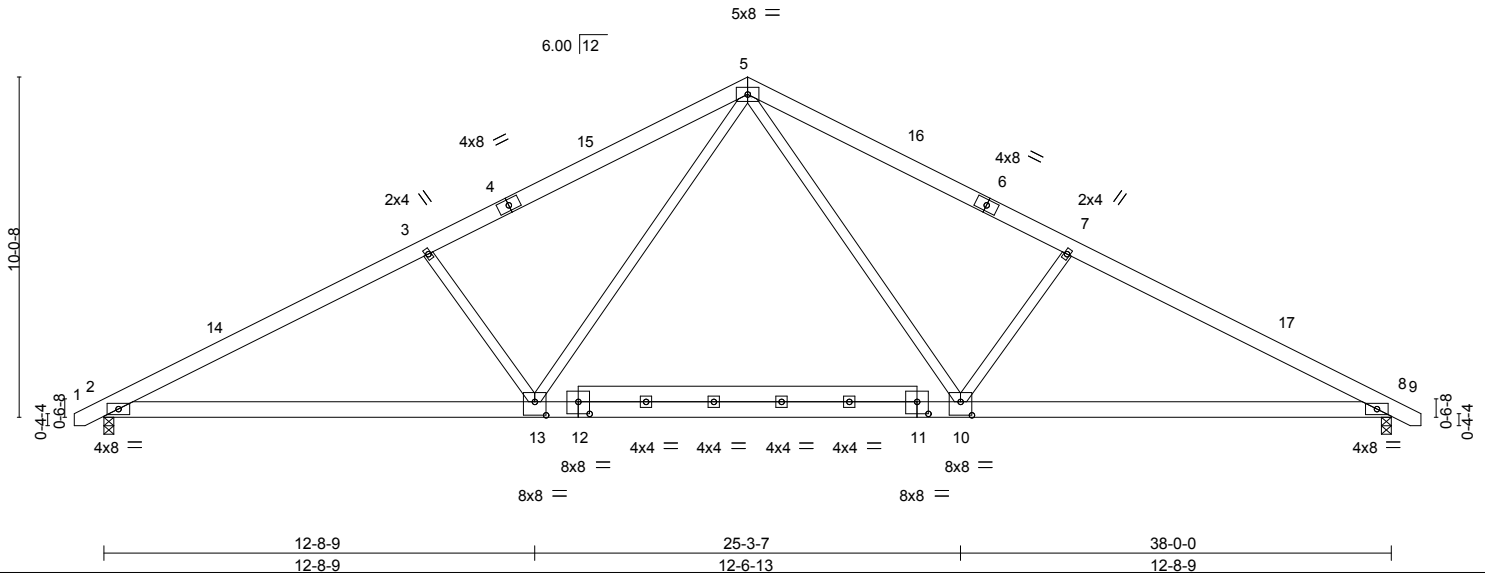


Plate Offsets (X,Y)--	[10:0-4-0,0-4-12], [11:0-4-0,0-4-4], [12:0-4-0,0-4-4], [13:0-4-0,0-4-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.38 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.70	Vert(TL) -0.56 10-13 >804 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.13 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.09 10-13 >999 240	Weight: 266 lb	FT = 20%

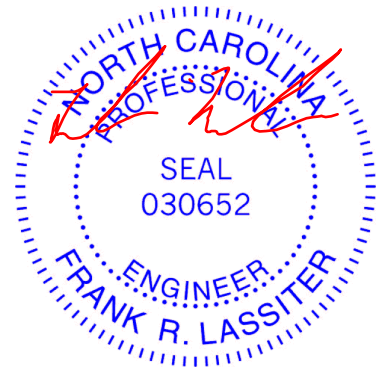
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 11-12: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.

REACTIONS. (lb/size) 2=1937/0-3-8, 8=1937/0-3-8
 Max Horz 2=-150(LC 7)
 Max Uplift 2=-277(LC 6), 8=-277(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3560/991, 3-5=-3235/986, 5-7=-3235/986, 7-8=-3560/991
 BOT CHORD 2-13=-709/3070, 10-13=-318/2028, 8-10=-709/3070
 WEBS 5-10=-280/1362, 7-10=-554/431, 5-13=-280/1362, 3-13=-554/431

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=277, 8=277.



March 5, 2018

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 B0318-0847	Truss A5-P	Truss Type COMMON	Qty 2	Ply 1	Embark B	E11513099
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Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-xhlySeFqhEbPljm3K8RQZIGGFw9WYHSAAo9z0Tze1aY

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

Scale = 1:68.0

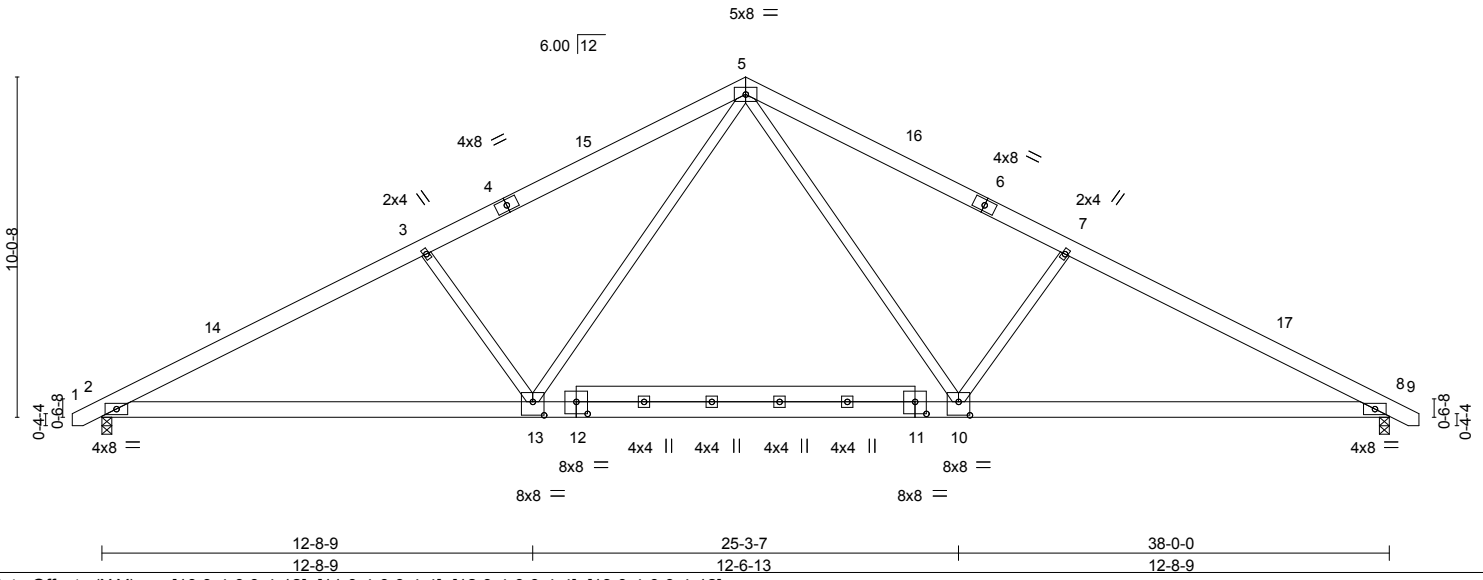


Plate Offsets (X,Y)--	[10:0-4-0,0-4-12], [11:0-4-0,0-4-4], [12:0-4-0,0-4-4], [13:0-4-0,0-4-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-1-8	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.41 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Vert(TL) -0.60 10-13 >757 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.14 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.10 10-13 >999 240	Weight: 266 lb	FT = 20%

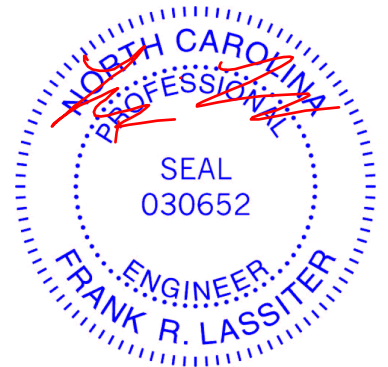
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 11-12: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing.

REACTIONS. (lb/size) 2=2058/0-3-8, 8=2058/0-3-8
 Max Horz 2=160(LC 6)
 Max Uplift 2=-294(LC 6), 8=-294(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3783/1053, 3-5=-3437/1047, 5-7=-3437/1047, 7-8=-3783/1053
 BOT CHORD 2-13=-753/3262, 10-13=-337/2155, 8-10=-753/3262
 WEBS 5-10=-298/1448, 7-10=-589/458, 5-13=-298/1448, 3-13=-589/458

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=294, 8=294.



March 5, 2018

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 B0318-0847	Truss A6	Truss Type COMMON	Qty 1	Ply 1	Embark B	E11513100
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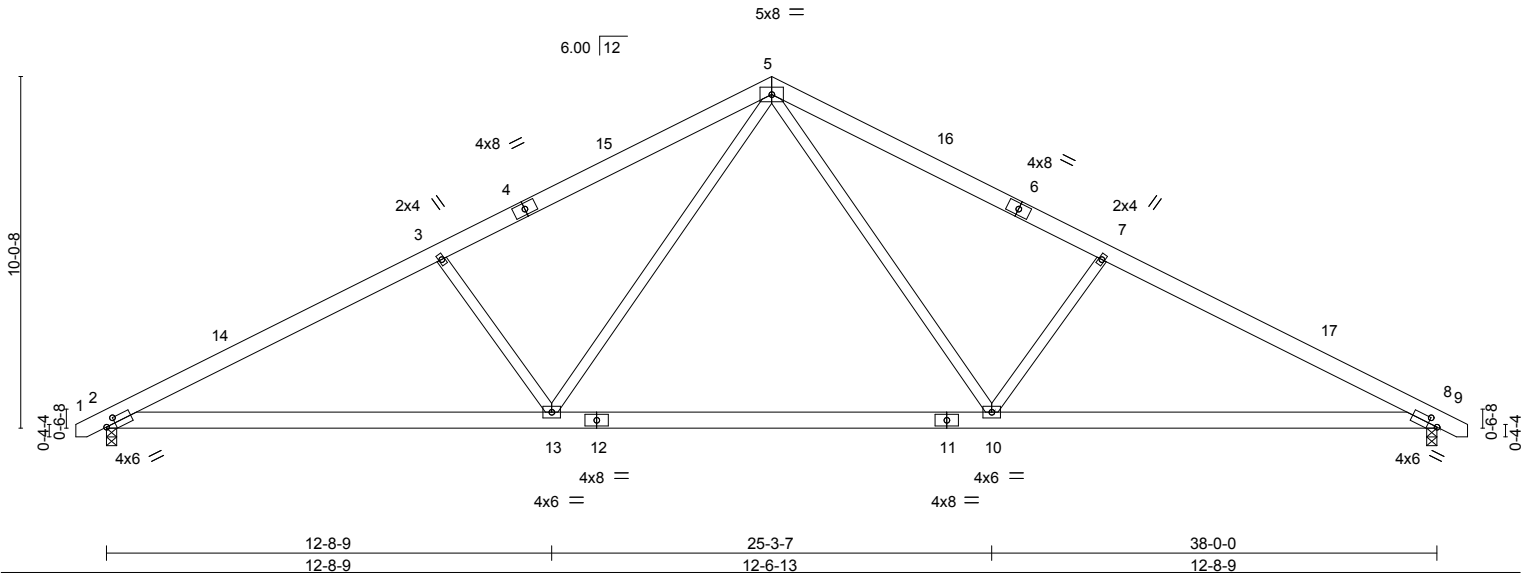
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:31 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHbtzeN_9-xhlySeFqhEbPljm3K8RQZIGIzWC9yIEAaO9z0Tze1aY

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 = 1:65.8



12-8-9	25-3-7	38-0-0
12-8-9	12-6-13	12-8-9

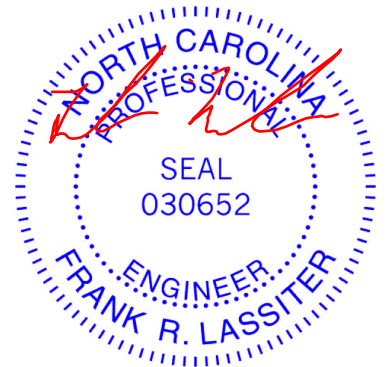
Plate Offsets (X,Y)-- [2:0-3-4,0-2-0], [8:0-3-4,0-2-0]	
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2009/TP12007
CSI.	DEFL. in (loc) l/defl L/d
TC 0.40	Vert(LL) -0.48 10-13 >944 360
BC 0.75	Vert(TL) -0.68 10-13 >667 240
WB 0.69	Horz(TL) 0.10 8 n/a n/a
Matrix-S	Wind(LL) 0.09 2-13 >999 240
PLATES	GRIP
MT20	244/190
Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-3-8 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1811/0-3-8, 8=1811/0-3-8
 Max Horz 2=150(LC 6)
 Max Uplift 2=-277(LC 6), 8=-277(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3289/986, 3-5=-2963/981, 5-7=-2963/981, 7-8=-3289/986
 BOT CHORD 2-13=-705/2830, 10-13=-308/1865, 8-10=-705/2830
 WEBS 5-10=-277/1219, 7-10=-557/432, 5-13=-277/1219, 3-13=-557/432

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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=277, 8=277.



March 5, 2018

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/TP1 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 B0318-0847	Truss A7	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513101
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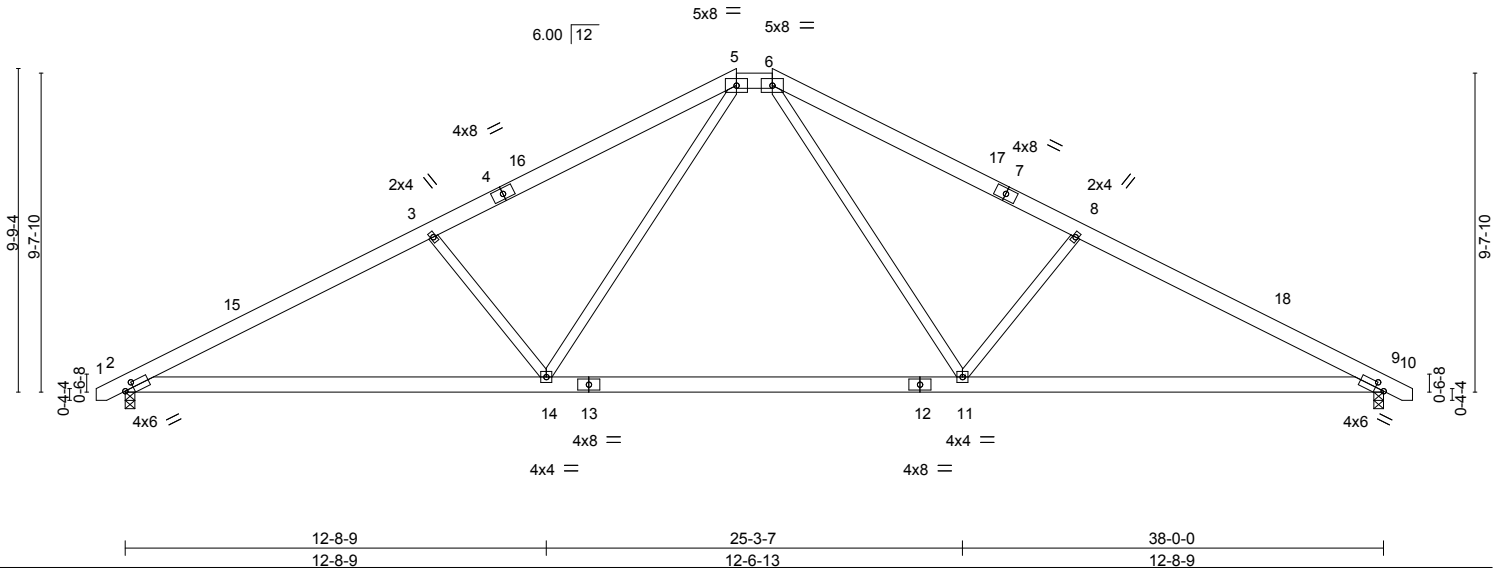
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:32 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9PtJKf_GSSYjGNsLFuryf5VoTjwXHhmnKp2uWZwze1aX

0-10-8	9-3-10	18-5-8	19-6-8	28-8-6	38-0-0	38-10-8
0-10-8	9-3-10	9-1-14	1-1-0	9-1-14	9-3-10	0-10-8

Scale = 1:69.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.48 11-14	>950	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.67 11-14	>673	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(TL)	0.10 9	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.09 2-14	>999	240	Weight: 241 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 3-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.

REACTIONS.

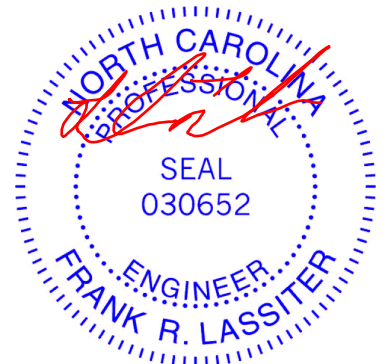
(lb/size) 2=1811/0-3-8, 9=1811/0-3-8
 Max Horz 2=-145(LC 7)
 Max Uplift 2=-274(LC 6), 9=-274(LC 7)

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

TOP CHORD 2-3=-3297/1085, 3-5=-2955/1051, 5-6=-1925/906, 6-8=-2955/1051, 8-9=-3297/1085
 BOT CHORD 2-14=-798/2838, 11-14=-384/1925, 9-11=-798/2838
 WEBS 3-14=-547/446, 5-14=-268/1164, 6-11=-268/1164, 8-11=-547/446

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-2-13, Exterior(2) 12-2-13 to 25-9-3, Interior(1) 25-9-3 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=274, 9=274.



March 5, 2018

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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



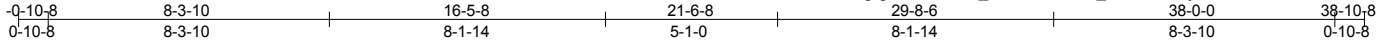
818 Soundside Road
 Edenton, NC 27932

Job B0318-0847	Truss A8	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513102
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Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-t3sitJH5Drr7_0wSSZTuejLdYKsfQGCT1ie45Mze1aW



Scale = 1:68.0

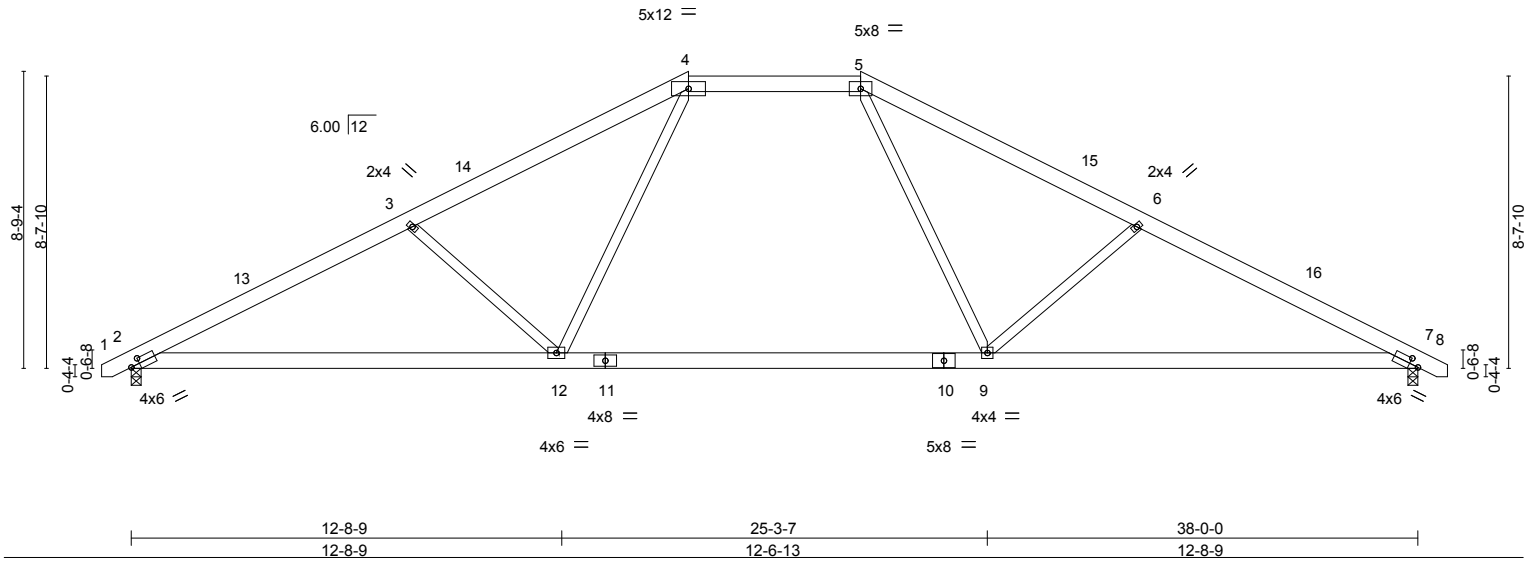


Plate Offsets (X,Y)--	[2:0-3-4,0-2-0], [7:0-3-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.49 9-12 >929 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(TL) -0.69 9-12 >660 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.11 7 n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.17 2-12 >999 240		
				Weight: 235 lb	FT = 20%

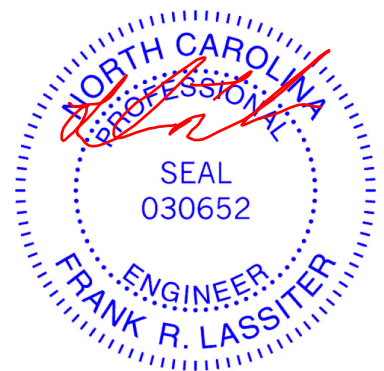
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-13 oc bracing.

REACTIONS. (lb/size) 2=1814/0-3-8, 7=1813/0-3-8
Max Horz 2=-131(LC 7)
Max Uplift 2=-262(LC 6), 7=-262(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3341/1167, 3-4=-2956/1058, 4-5=-2131/966, 5-6=-2943/1054, 6-7=-3335/1168
BOT CHORD 2-12=-884/2886, 9-12=-489/2131, 7-9=-885/2882
WEBS 3-12=-542/432, 4-12=-181/975, 5-9=-176/968, 6-9=-547/433

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-2-13, Exterior(2) 10-2-13 to 27-9-3, Interior(1) 27-9-3 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=262, 7=262.



March 5, 2018

Job B0318-0847	Truss A9	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513103
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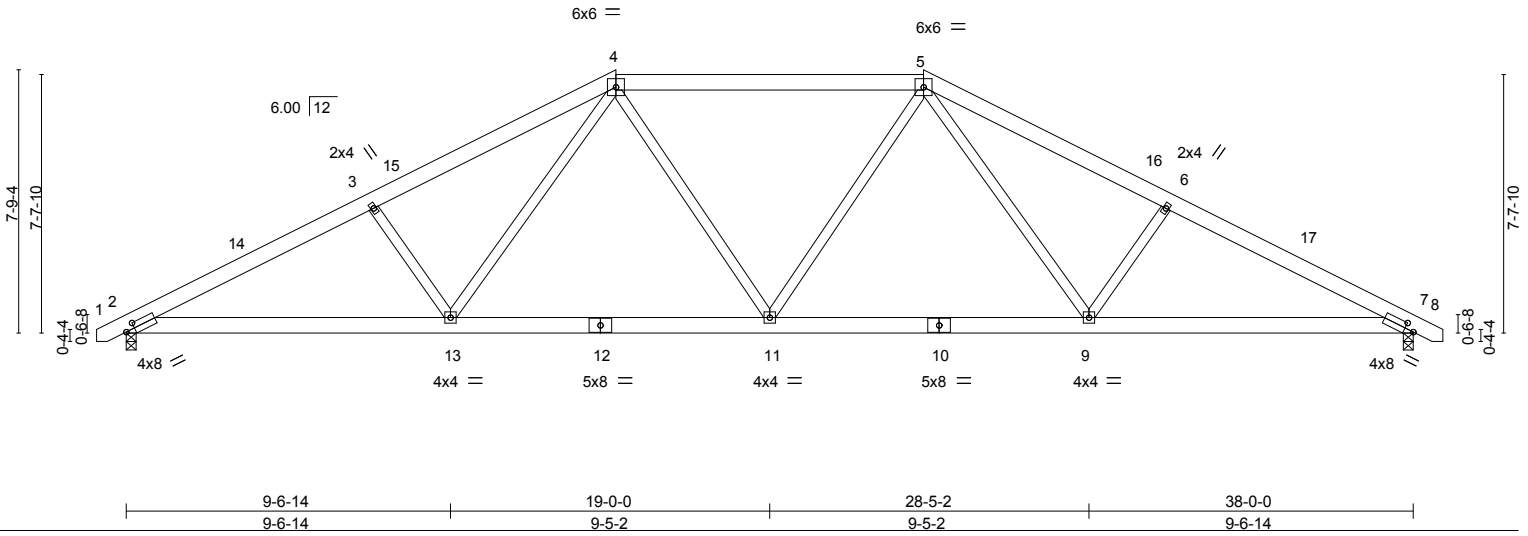
Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-t3sitJH5Drr7_0wSSZTuejLdyKuCOHBT1ie45Mze1aW

-0-10-8	7-3-10	14-5-8	23-6-8	30-8-6	38-0-0	38-10-8
0-10-8	7-3-10	7-1-14	9-1-0	7-1-14	7-3-10	0-10-8

Scale = 1:68.0



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

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.22	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(TL)	-0.38	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(TL)	0.12	7	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.09	11	>999		

Weight: 252 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 3-10-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-10 oc bracing.

REACTIONS. (lb/size) 2=1937/0-3-8, 7=1937/0-3-8
Max Horz 2=-117(LC 7)
Max Uplift 2=-248(LC 6), 7=-248(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3640/1214, 3-4=-3407/1212, 4-5=-2718/1017, 5-6=-3407/1212, 6-7=-3640/1214
BOT CHORD 2-13=-936/3154, 11-13=-610/2523, 9-11=-610/2523, 7-9=-936/3154
WEBS 3-13=-339/351, 4-13=-235/804, 4-11=-12/500, 5-11=-12/500, 5-9=-235/804, 6-9=-339/351

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-2-13, Exterior(2) 8-2-13 to 29-9-3, Interior(1) 29-9-3 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) except (jt=lb) 2=248, 7=248.



March 5, 2018

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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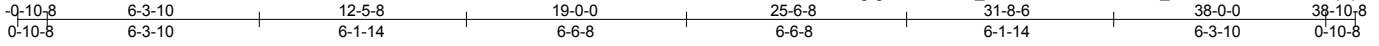
818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss A21	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513104
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Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-6XOhBaB36OrG1oJv_tKOJ10KZ5D6YfLICsifpqqze1ae



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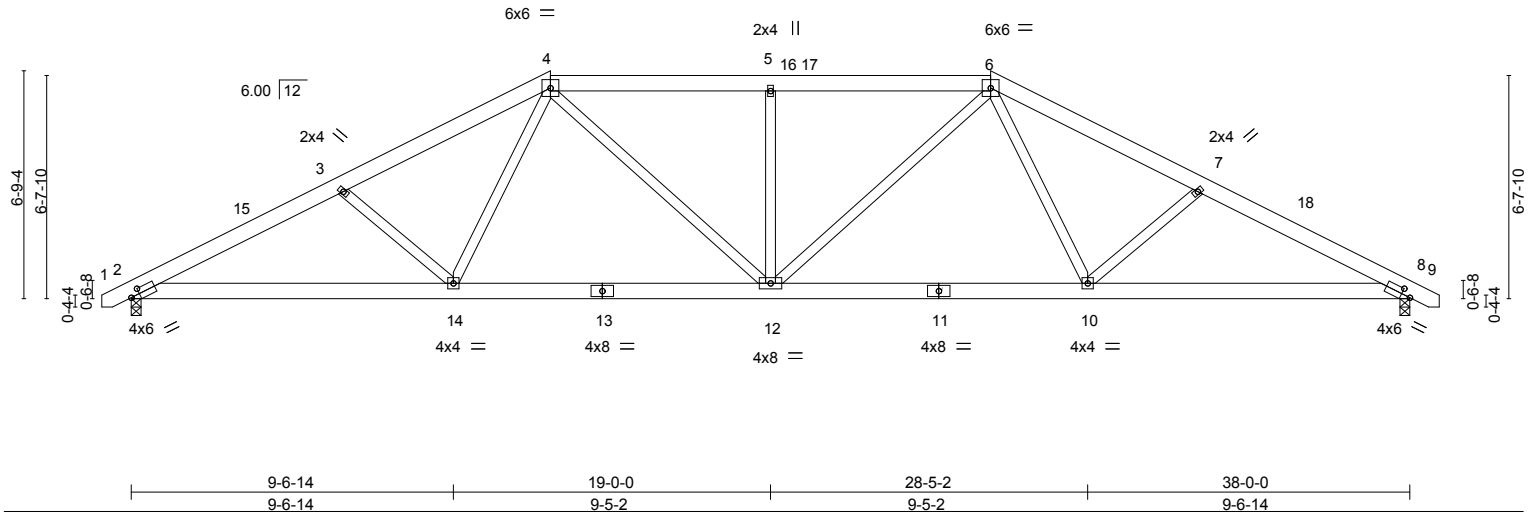


Plate Offsets (X,Y)-- [2:0-3-4,0-2-0], [8:0-3-4,0-2-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d		MT20
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.10 12 >999 360		GRIP 244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Vert(TL) -0.27 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.10 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.10 12 >999 240		Weight: 256 lb FT = 20%

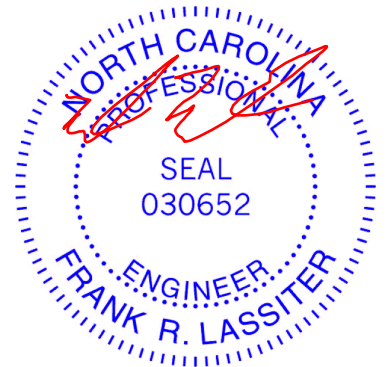
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-12 oc bracing.

REACTIONS. (lb/size) 2=1560/0-3-8, 8=1560/0-3-8
Max Horz 2=-103(LC 7)
Max Uplift 2=-232(LC 6), 8=-232(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2815/1294, 3-4=-2550/1203, 4-5=-2357/1219, 5-6=-2357/1219, 6-7=-2550/1203, 7-8=-2815/1294
BOT CHORD 2-14=-1018/2448, 12-14=-704/2015, 10-12=-704/2015, 8-10=-1018/2448
WEBS 3-14=-327/342, 4-14=-143/515, 4-12=-172/593, 5-12=-469/328, 6-12=-172/593, 6-10=-143/515, 7-10=-327/342

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 6-1-5, Exterior(2) 6-1-5 to 12-5-8, Interior(1) 18-8-3 to 19-3-13, Exterior(2) 25-6-8 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) except (jt=lb) 2=232, 8=232.



March 5, 2018

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

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

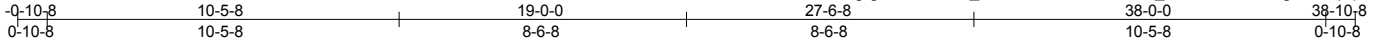


818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss A22	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513105
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:25 2018 Page 1
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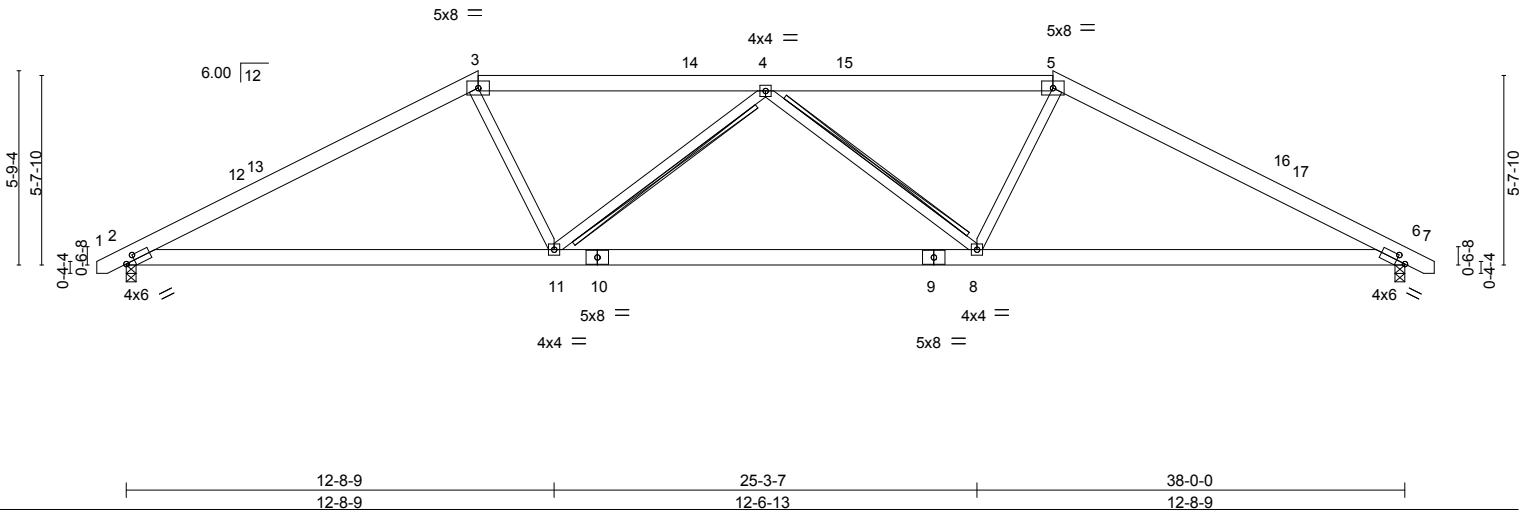


Plate Offsets (X,Y)-- [2:0-3-4,0-2-0], [6:0-3-4,0-2-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.17 6-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(TL) -0.50 6-8 >902 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(TL) 0.10 6 n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.14 6-8 >999 240	Weight: 228 lb	FT = 20%

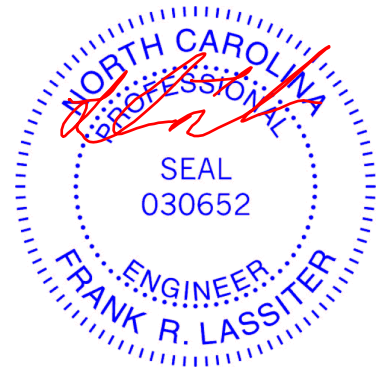
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-10 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-11, 4-8
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) 2=1560/0-3-8, 6=1560/0-3-8
Max Horz 2=-88(LC 7)
Max Uplift 2=-214(LC 6), 6=-214(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2617/1141, 3-4=-2461/1177, 4-5=-2461/1177, 5-6=-2617/1141
BOT CHORD 2-11=-804/2216, 8-11=-1046/2795, 6-8=-804/2216
WEBS 3-11=-70/690, 4-11=-561/277, 4-8=-561/277, 5-8=-70/690

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 4-2-13, Exterior(2) 4-2-13 to 10-5-8, Interior(1) 16-8-3 to 21-3-13, Exterior(2) 27-6-8 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) except (jt=lb) 2=214, 6=214.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 5, 2018

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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



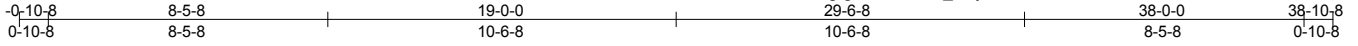
818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss A23	Truss Type HIP	Qty 1	Ply 1	Embark B Job Reference (optional)	E11513106
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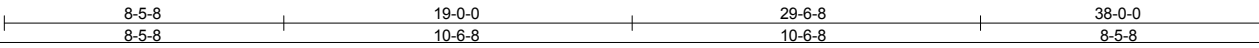
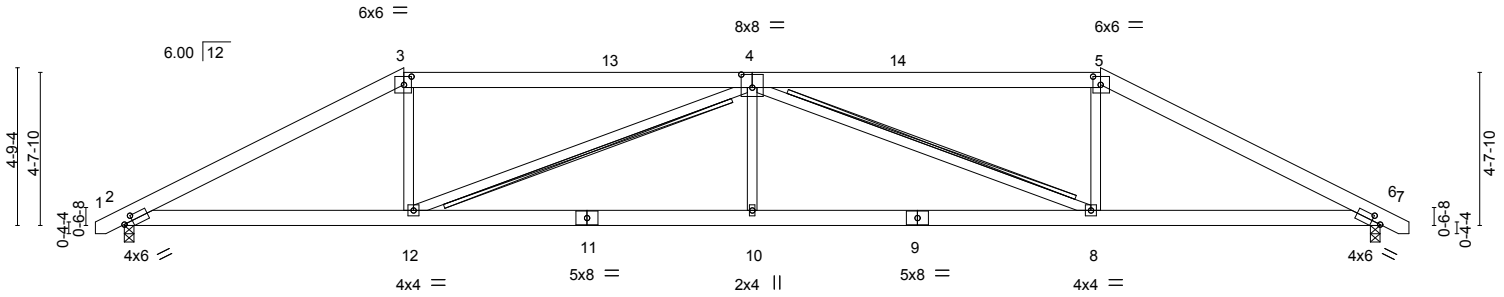
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:26 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-ajx3PwCitiz7fxu6XbrFsEYRBVXNH1VRQ6RCLGze1ad



Scale = 1:69.7



LOADING (psf)	SPACING-	CSI.	DEFL.				PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.18	in (loc)	l/defl	L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(TL) -0.46	8-10	>989	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(TL) 0.13	6	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.16	10	>999	240		
							Weight: 236 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 4-1-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-11-2 oc bracing.
 WEBS T-Brace: 2x6 SPF No.2 - 4-12, 4-8
 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.

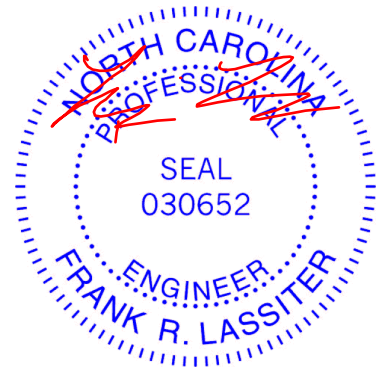
(lb/size) 2=1560/0-3-8, 6=1560/0-3-8
 Max Horz 2=-74(LC 7)
 Max Uplift 2=-217(LC 5), 6=-217(LC 4)

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

TOP CHORD 2-3=-2810/1158, 3-4=-2436/1146, 4-5=-2436/1146, 5-6=-2810/1158
 BOT CHORD 2-12=-853/2410, 10-12=-1285/3571, 8-10=-1285/3571, 6-8=-853/2410
 WEBS 3-12=-102/745, 4-12=-1350/462, 4-10=0/409, 4-8=-1350/462, 5-8=-102/745

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 14-8-3, Interior(1) 14-8-3 to 23-3-13, Exterior(2) 23-3-13 to 29-6-8 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) except (jt=lb) 2=217, 6=217.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 5, 2018

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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



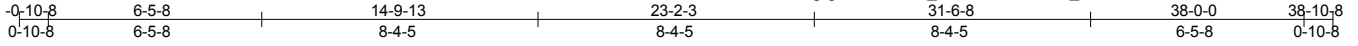
818 Soundside Road
 Edenton, NC 27932

Job B0318-0847	Truss A24	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513107
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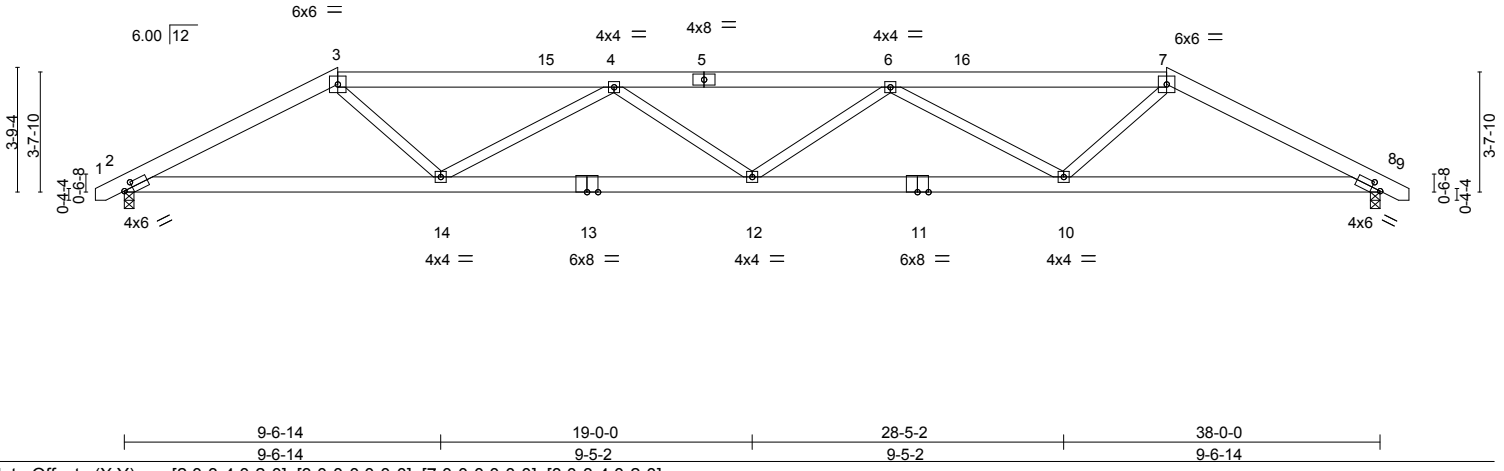
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:27 2018 Page 1

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Scale = 1:69.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(LL) -0.23 12 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Vert(TL) -0.58 12-14 >774 240		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Horz(TL) 0.14 8 n/a n/a		
			Wind(LL) 0.21 12 >999 240	Weight: 231 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 3-6-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-3-5 oc bracing.

REACTIONS. (lb/size) 2=1560/0-3-8, 8=1560/0-3-8
 Max Horz 2=-60(LC 7)
 Max Uplift 2=-246(LC 5), 8=-246(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2830/1177, 3-4=-3279/1327, 4-6=-4426/1746, 6-7=-3279/1327, 7-8=-2830/1177
 BOT CHORD 2-14=-904/2466, 12-14=-1584/4314, 10-12=-1584/4314, 8-10=-904/2466
 WEBS 3-14=-281/1196, 4-14=-1265/567, 4-12=0/294, 6-12=0/294, 6-10=-1265/567, 7-10=-281/1196

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 12-8-3, Interior(1) 12-8-3 to 25-3-13, Exterior(2) 25-3-13 to 31-6-8 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) except (jt=lb) 2=246, 8=246.



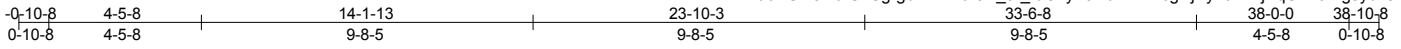
March 5, 2018

Job B0318-0847	Truss A25	Truss Type Hip Girder	Qty 1	Ply 2	Embark B	E11513108
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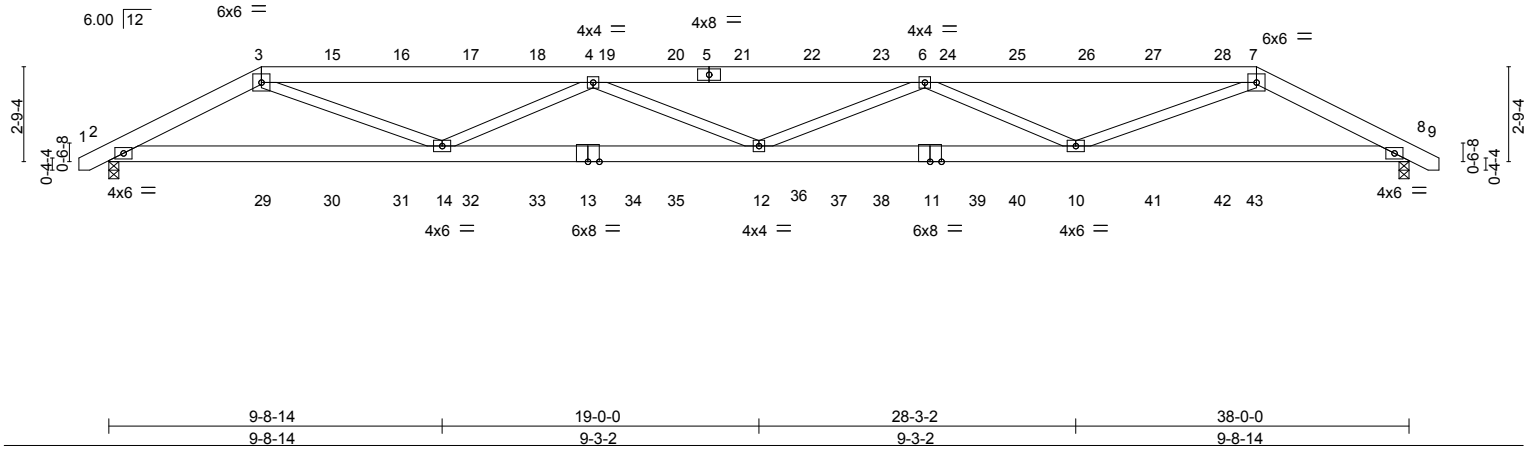
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:29 2018 Page 1

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Scale = 1:67.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.32 12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(TL) -0.82 12 >549 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.74	Horz(TL) 0.14 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.37 12 >999 240	Weight: 463 lb	FT = 20%

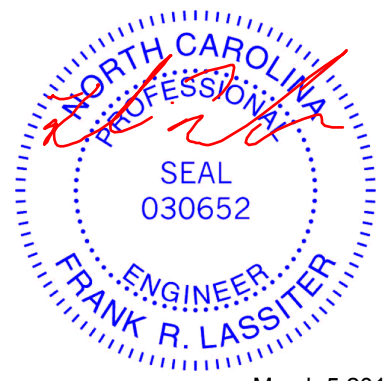
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 2=2409/0-3-8, 8=2440/0-3-8
 Max Horz 2=-46(LC 14)
 Max Uplift 2=-649(LC 4), 8=-663(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4499/1373, 3-4=-7247/1988, 4-6=-9416/2653, 6-7=-7296/2006, 7-8=-4563/1411
 BOT CHORD 2-14=-1209/3969, 12-14=-2782/9172, 10-12=-2777/9200, 8-10=-1211/4026
 WEBS 3-14=-826/3592, 4-14=-2196/964, 4-12=0/613, 6-12=0/587, 6-10=-2172/956, 7-10=-810/3586

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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) 2=649, 8=663.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 63 lb up at 4-5-8, 60 lb down and 63 lb up at 6-6-4, 60 lb down and 63 lb up at 8-6-4, 60 lb down and 63 lb up at 10-6-4, 60 lb down and 63 lb up at 12-6-4, 60 lb down and 63 lb up at 14-6-4, 60 lb down and 63 lb up at 16-6-4, 60 lb down and 63 lb up at 18-6-4, 60 lb down and 63 lb up at 20-6-4, 60 lb down and 63 lb up at 22-6-4, 60 lb down and 63 lb up at 24-6-4, 60 lb down and 63 lb up at 26-6-4, 60 lb down and 63 lb up at 28-6-4, 60 lb down and 63 lb up at 30-6-4, and 60 lb down and 63 lb up at 32-6-4, and 79 lb down and 63 lb up at 33-6-8 on top chord, and 226 lb down and 64 lb up at 4-5-8, 45 lb down at 6-6-4, 45 lb down at 8-6-4, 45 lb down at 10-6-4, 45 lb down at 12-6-4, 45 lb down at 14-6-4, 45 lb down at 16-6-4, 45 lb down at 18-6-4, 45 lb down at 20-6-4, 45 lb down at 22-6-4, 45 lb down at 24-6-4, 45 lb down at 26-6-4, 45 lb down at 28-6-4, 45 lb down at 30-6-4, and 45 lb down at 32-6-4, and 226 lb down and 64 lb up at 33-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



March 5, 2018

LOAD CASE(S) Standard

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 B0318-0847	Truss A25	Truss Type Hip Girder	Qty 1	Ply 2	Embark B Job Reference (optional)	E11513108
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:29 2018 Page 2
ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9_IdC1yEaAdLhWPcgDjPyTtAvDjXqUNvt74gsybze1aa

LOAD CASE(S) Standard

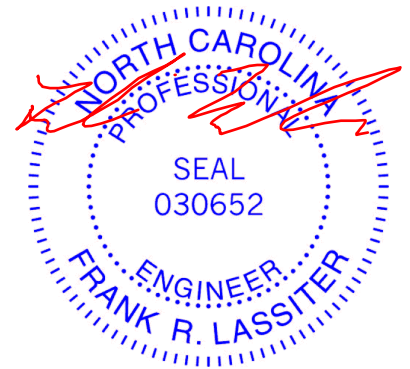
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-60(B) 7=-60(B) 10=-23(B) 15=-60(B) 16=-60(B) 17=-60(B) 18=-60(B) 19=-60(B) 20=-60(B) 21=-60(B) 22=-60(B) 23=-60(B) 24=-60(B) 25=-60(B) 26=-60(B) 27=-60(B) 28=-60(B) 29=-226(B) 30=-23(B) 31=-23(B) 32=-23(B) 33=-23(B) 34=-23(B) 35=-23(B) 36=-23(B) 37=-23(B) 38=-23(B) 39=-23(B) 40=-23(B) 41=-23(B) 42=-23(B) 43=-226(B)



March 5, 2018

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818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss B1	Truss Type KINGPOST	Qty 1	Ply 1	Embark B Job Reference (optional)	E11513109
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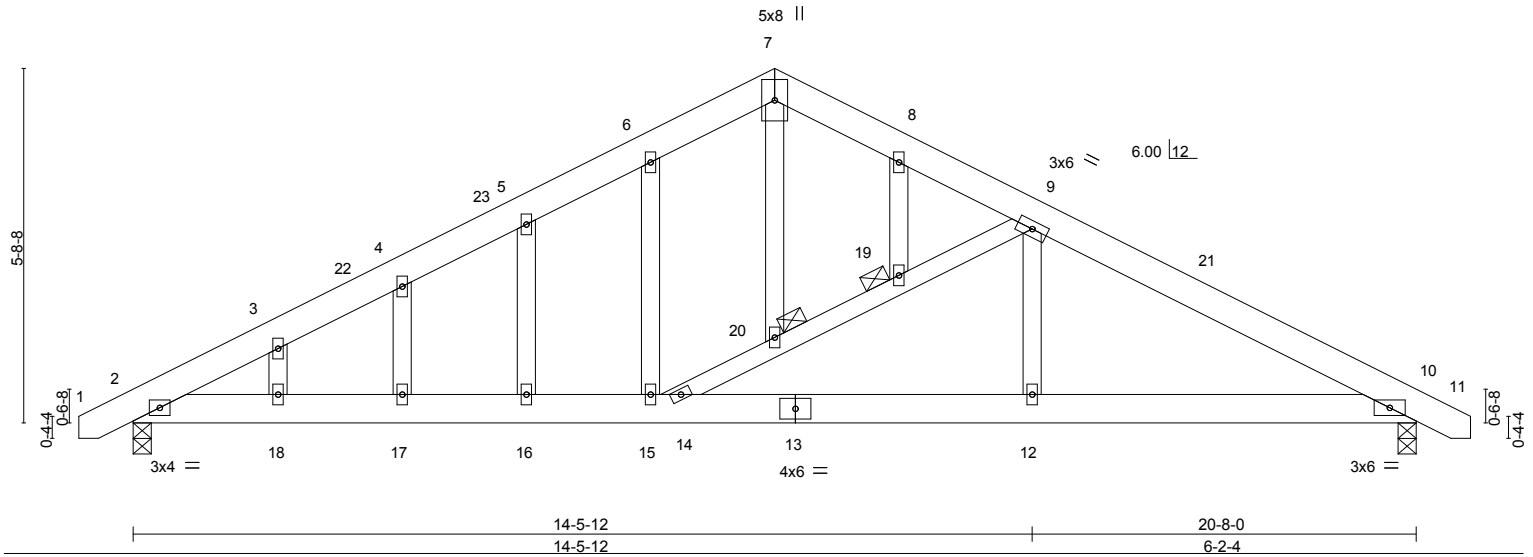
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:34 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-LGQ54flj_9z_cAVe?G_7AuwqxiG9dSdGMNddoze1aV

0-10-8	10-4-0	14-5-12	20-8-0	21-6-8
0-10-8	10-4-0	4-1-12	6-2-4	0-10-8

Scale = 1:37.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.10 16-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Vert(TL) -0.27 16-17 >912 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) -0.02 2 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.17 16-17 >999 240	Weight: 144 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	JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (lb/size) 10=867/0-3-8, 2=867/0-3-8
 Max Horz 10=103(LC 6)
 Max Uplift 10=-349(LC 7), 2=-349(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-962/565, 8-9=-991/532, 9-10=-1301/539, 2-3=-1115/397, 3-4=-1064/441,
 4-5=-1014/468, 5-6=-1079/560, 6-7=-844/510
 BOT CHORD 2-18=-244/908, 17-18=-244/908, 16-17=-244/908, 15-16=-244/908, 14-15=-244/908,
 12-14=-351/1068, 10-12=-353/1065
 WEBS 14-20=-287/161, 19-20=-338/191, 9-19=-313/176, 6-15=-136/438, 5-16=-278/180

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-11-3, Exterior(2) 5-11-3 to 10-4-0, Interior(1) 14-6-14 to 16-11-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) 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) except (jt=lb) 10=349, 2=349.



March 5, 2018

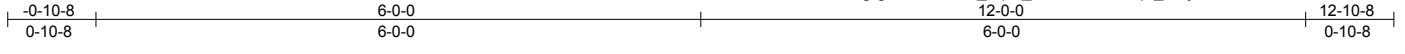
Job B0318-0847	Truss C1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Embark B	E11513110
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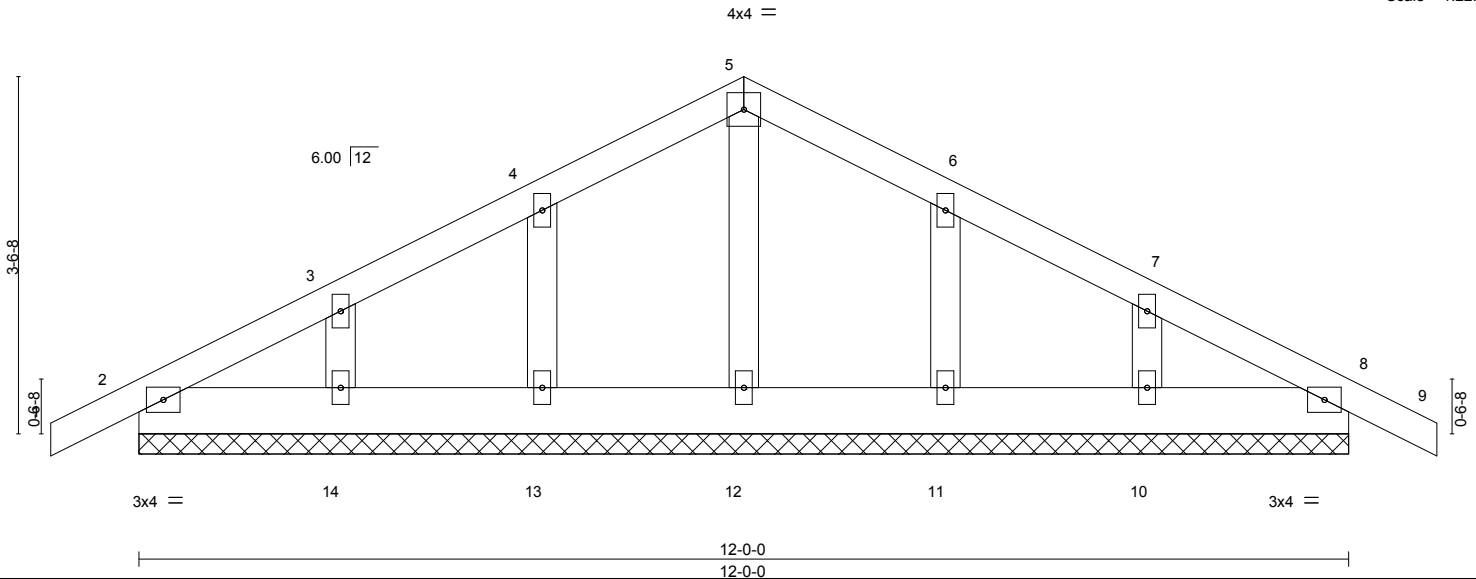
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:35 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-pS_TI?JLIT6rEK4qZ_VMj8Q3A7kcuFrmV07B9Fze1aU

Job Reference (optional)



Scale = 1:22.9



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) -0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(TL) -0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 8 n/a n/a		
	Code IRC2009/TPI2007			Weight: 63 lb	FT = 20%

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

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

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz 2=67(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 10 except 13=-104(LC 6), 11=-103(LC 7)
 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.
 WEBS 4-13=-130/250, 6-11=-130/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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, 14, 10 except (jt=lb) 13=104, 11=103.



March 5, 2018

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

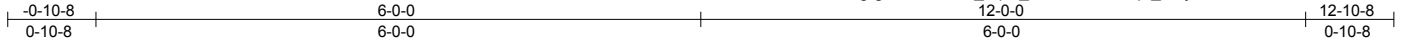
Job B0318-0847	Truss C2	Truss Type COMMON	Qty 1	Ply 1	Embark B	E11513111
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Comtech, Inc., Fayetteville, NC 28309

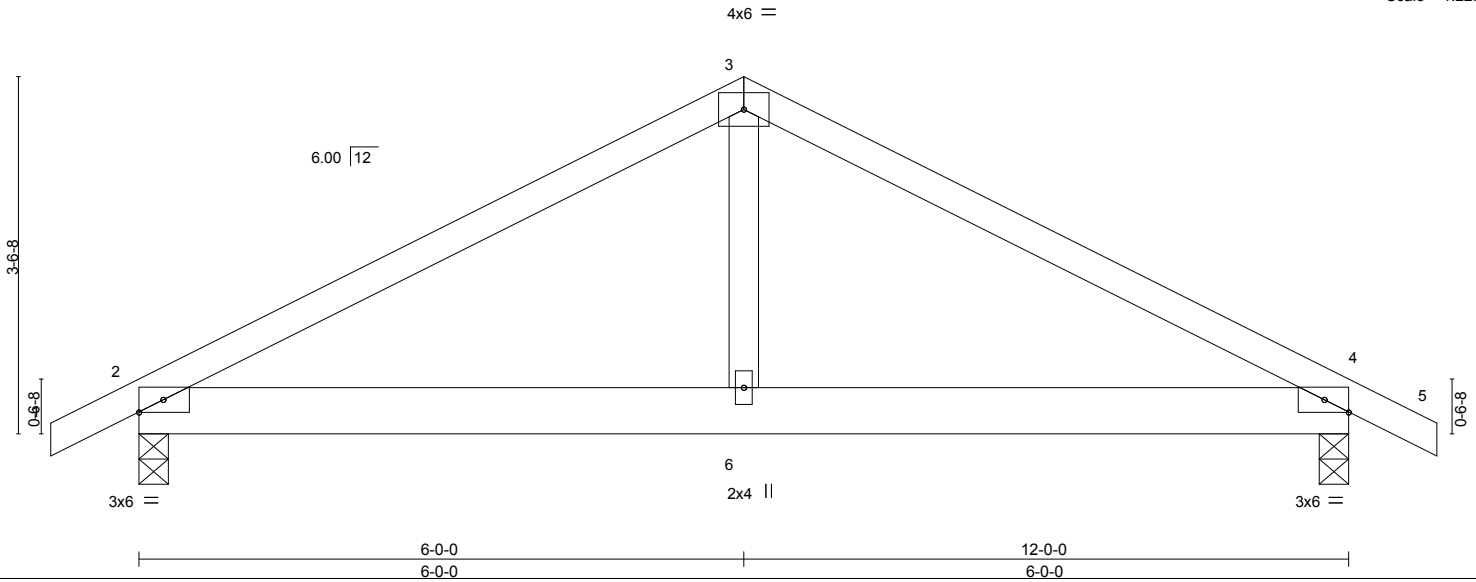
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:35 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-pS_TI?JLIT6rEK4qZ_VMj8Q0h7iGuFEmV07B9Fze1aU

Job Reference (optional)



Scale = 1:22.9



LOADING (psf)	SPACING-	CSI.	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(TL) -0.03	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(TL) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.01	4-6	>999	240	Weight: 55 lb	FT = 20%

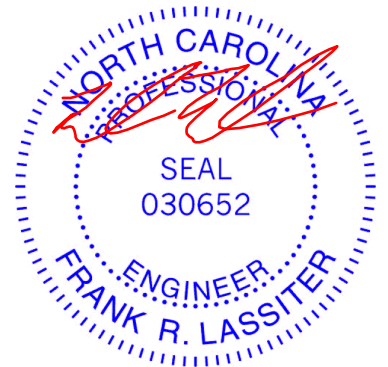
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

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=58(LC 6)
 Max Uplift 2=-124(LC 6), 4=-124(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-648/350, 3-4=-648/350
 BOT CHORD 2-6=-150/494, 4-6=-150/494
 WEBS 3-6=-6/297

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) except (jt=lb) 2=124, 4=124.



March 5, 2018

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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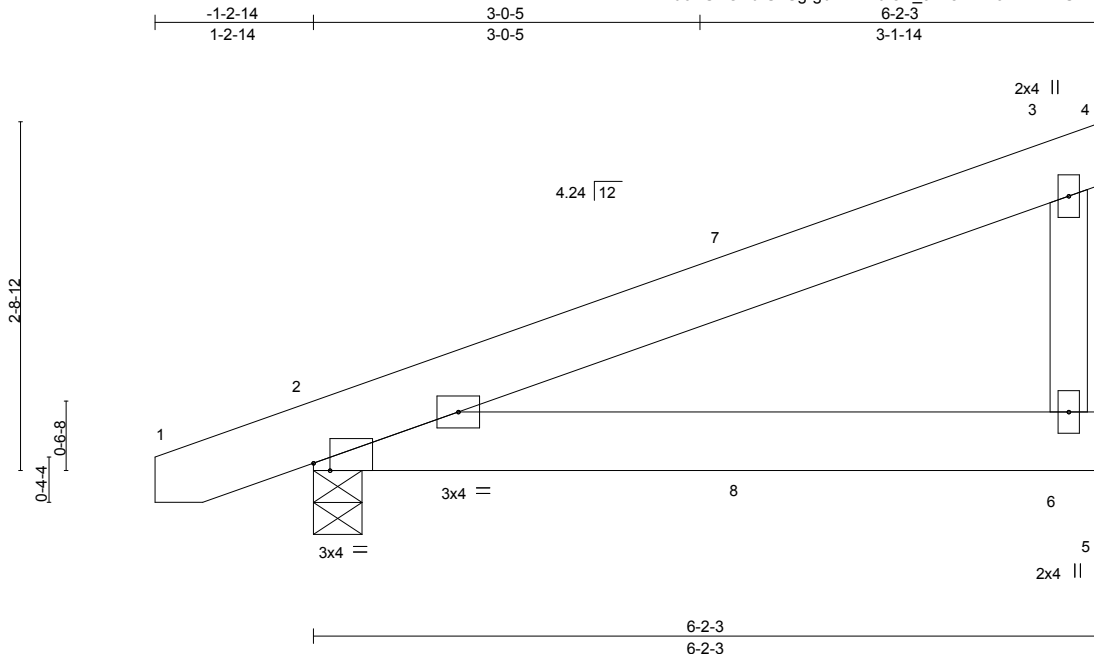


818 Soundside Road
 Edenton, NC 27932

Job B0318-0847	Truss CJ06	Truss Type DIAGONAL HIP GIRDER	Qty 2	Ply 1	Embark B E11513112
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:36 2018 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-HeYrVLJzWmEirUf17h1bFLzCgX2tdjFvkgskihze1aT



Scale = 1:18.0

Plate Offsets (X,Y)-- [2:0-1-9,Edge]						PLATES	GRIP			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d			
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(TL)	-0.04	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(TL)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 36 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=232/Mechanical, 2=311/0-4-9
Max Horz 2=105(LC 3)
Max Uplift 6=-62(LC 3), 2=-100(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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 except (jt=lb) 2=100.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 9 lb up at 3-5-4, and 45 lb down and 9 lb up at 3-5-4 on top chord, and at 3-5-4, and at 3-5-4 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



March 5, 2018

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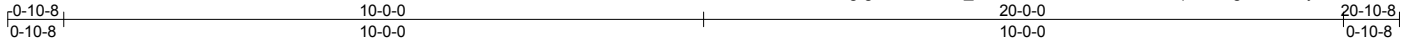
818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss G1	Truss Type COMMON	Qty 1	Ply 1	Embark B	E11513113
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Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-Ir6DihKbH4MZTeEDhOYqoZWHgxFiM8n3yKcHE7ze1aS



Scale = 1:36.0

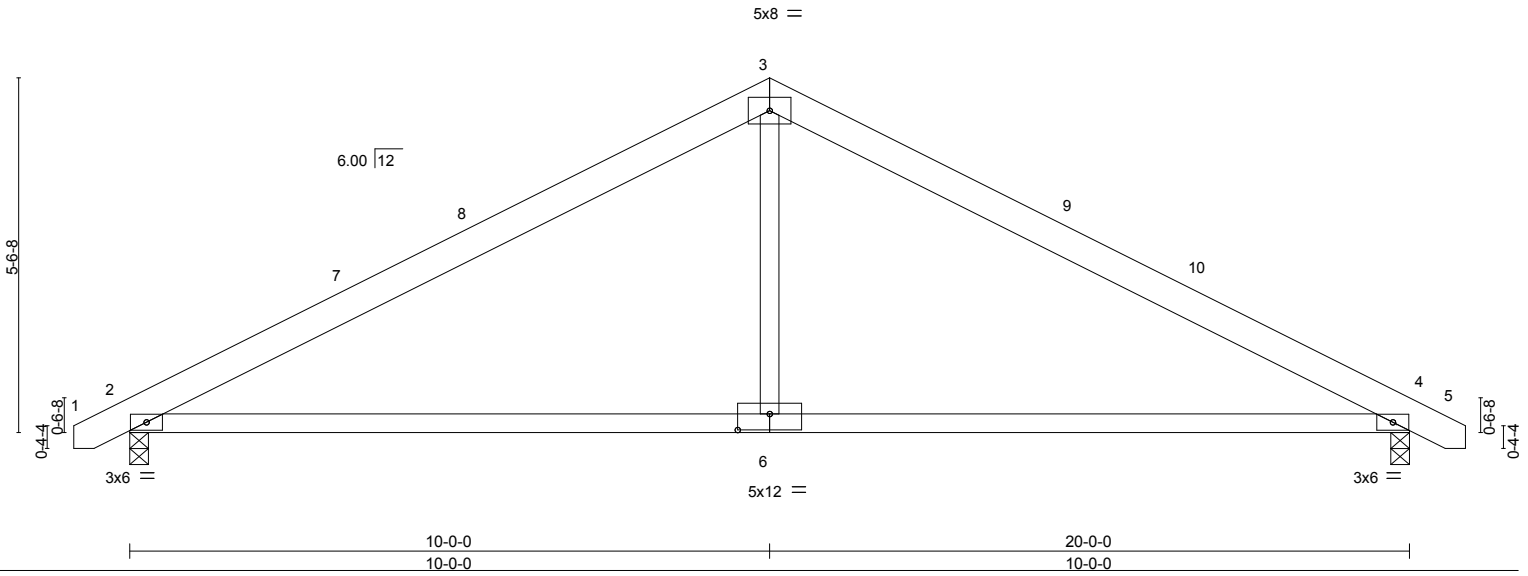


Plate Offsets (X,Y)-- [6:0-6-0-0,3-0]

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(TL) -0.46	2-6	>520	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(TL) 0.03	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.07	2-6	>999	240	Weight: 94 lb	FT = 20%

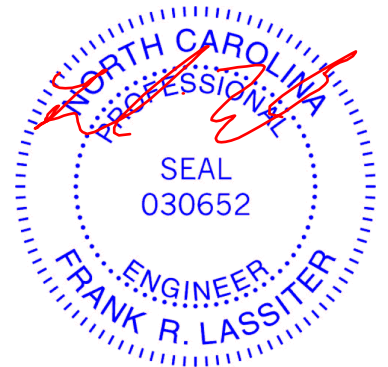
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 4=840/0-3-8, 2=840/0-3-8
Max Horz 2=83(LC 6)
Max Uplift 4=-165(LC 7), 2=-165(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1079/465, 3-4=-1079/465
BOT CHORD 2-6=-227/875, 4-6=-227/875
WEBS 3-6=0/457

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) except (jt=lb) 4=165, 2=165.



March 5, 2018

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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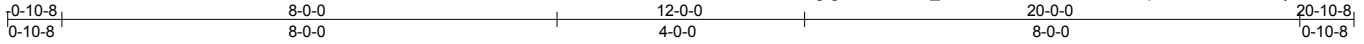
818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss G2	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513114
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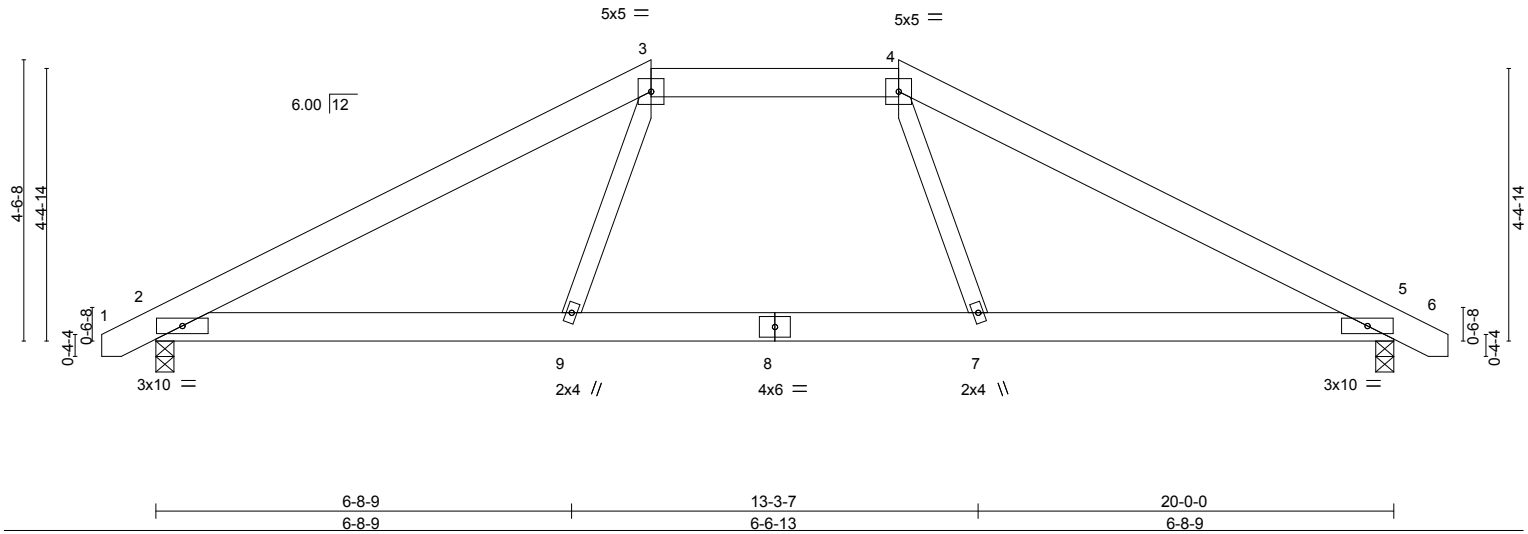
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:37 2018 Page 1

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Scale = 1:37.2



LOADING (psf)	SPACING-	CSI.	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(TL) -0.11 2-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.02 5 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.04 2-9 >999 240	Weight: 115 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=840/0-3-8, 5=840/0-3-8
 Max Horz 2=71(LC 6)
 Max Uplift 2=-153(LC 6), 5=-153(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1256/547, 3-4=-966/602, 4-5=-1256/547
 BOT CHORD 2-9=-312/1023, 7-9=-325/966, 5-7=-312/1023
 WEBS 3-9=0/306, 4-7=0/306

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) except (jt=lb) 2=153, 5=153.



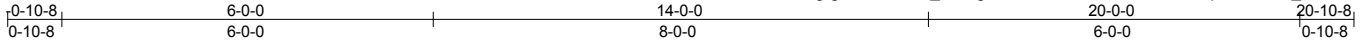
March 5, 2018

Job B0318-0847	Truss G3	Truss Type HIP	Qty 1	Ply 1	Embark B	E11513115
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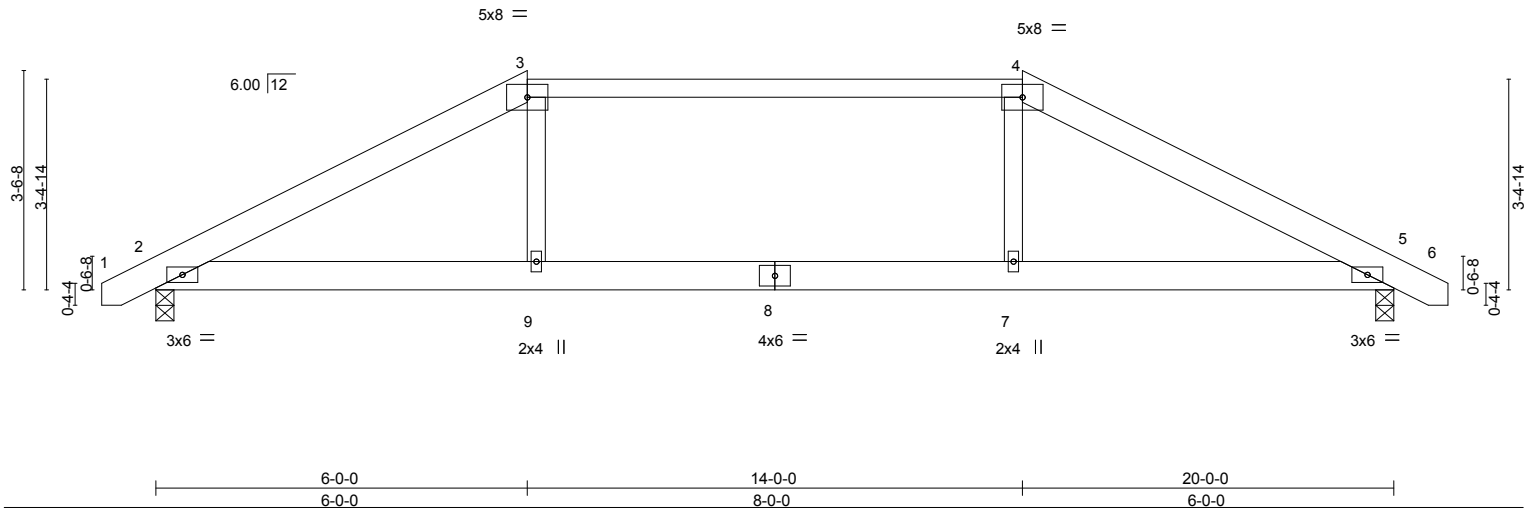
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:38 2018 Page 1

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Scale = 1:37.2



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.74	Vert(LL) -0.07	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(TL) -0.11	7-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(TL) 0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.04	9	>999	240	Weight: 103 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=840/0-3-8, 2=840/0-3-8
Max Horz 2=57(LC 6)
Max Uplift 5=-137(LC 7), 2=-137(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1359/597, 3-4=-1151/610, 4-5=-1359/597
BOT CHORD 2-9=-395/1144, 7-9=-392/1151, 5-7=-395/1144
WEBS 3-9=0/299, 4-7=0/299

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) except (jt=lb) 5=137, 2=137.



March 5, 2018

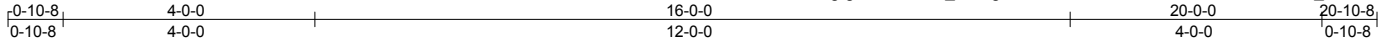
Job B0318-0847	Truss G4	Truss Type HIP GIRDER	Qty 1	Ply 1	Embark B	E11513116
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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-D1gbw1LD2OUQ5noPE633Lm2P8Lb65X8CB_LrmZze1aR

Job Reference (optional)



Scale = 1:36.6

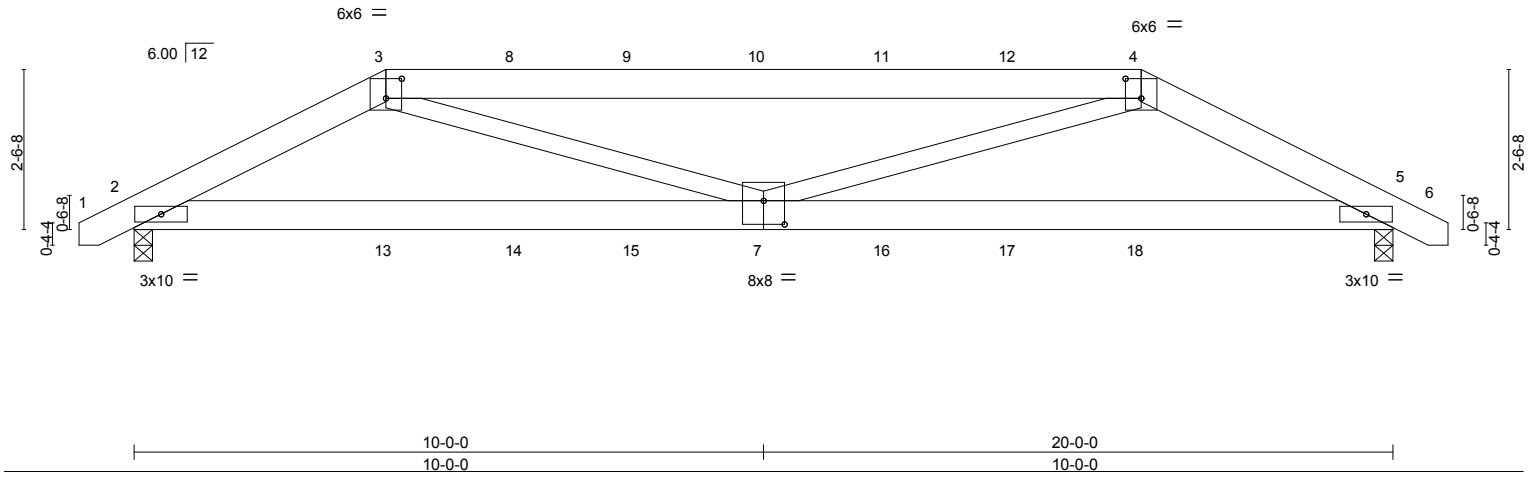


Plate Offsets (X,Y)--	[3:0-3-0,0-3-12], [4:0-3-0,0-3-12], [7:0-4-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0.10 2-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(TL) -0.30 5-7 >800 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.42	Horz(TL) 0.04 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.08 5-7 >999 240	Weight: 119 lb	FT = 20%

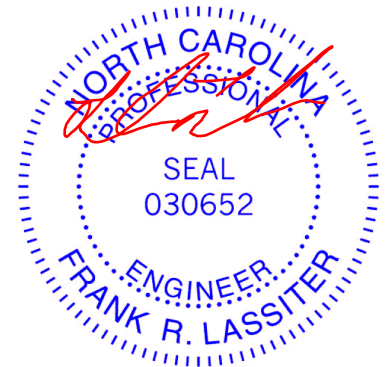
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins.
3-4: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 9-9-13 oc bracing.
BOT CHORD 2x6 SP No.1	
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 5=1237/0-3-8, 2=1240/0-3-8
 Max Horz 2=43(LC 13)
 Max Uplift 5=-336(LC 6), 2=-337(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2174/717, 3-4=-2609/508, 4-5=-2172/715
 BOT CHORD 2-7=-645/1940, 5-7=-616/1938
 WEBS 3-7=0/1110, 4-7=0/1111

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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) except (jt=lb) 5=336, 2=337.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 54 lb up at 4-0-0, 46 lb down and 54 lb up at 6-0-12, 46 lb down and 54 lb up at 7-11-4, 46 lb down and 54 lb up at 9-11-4, 46 lb down and 54 lb up at 11-11-4, and 46 lb down and 54 lb up at 13-11-4, and 64 lb down and 54 lb up at 16-0-0 on top chord, and 194 lb down and 58 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 58 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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



March 5, 2018

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/TP1 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 B0318-0847	Truss G4	Truss Type HIP GIRDER	Qty 1	Ply 1	Embark B E11513116
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:38 2018 Page 2
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-D1gbw1LD2OUQ5noPE633Lm2P8Lb65X8CB_LrmZze1aR

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)



March 5, 2018

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818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss GJ1	Truss Type Jack-Open	Qty 7	Ply 1	Embark B	E11513117
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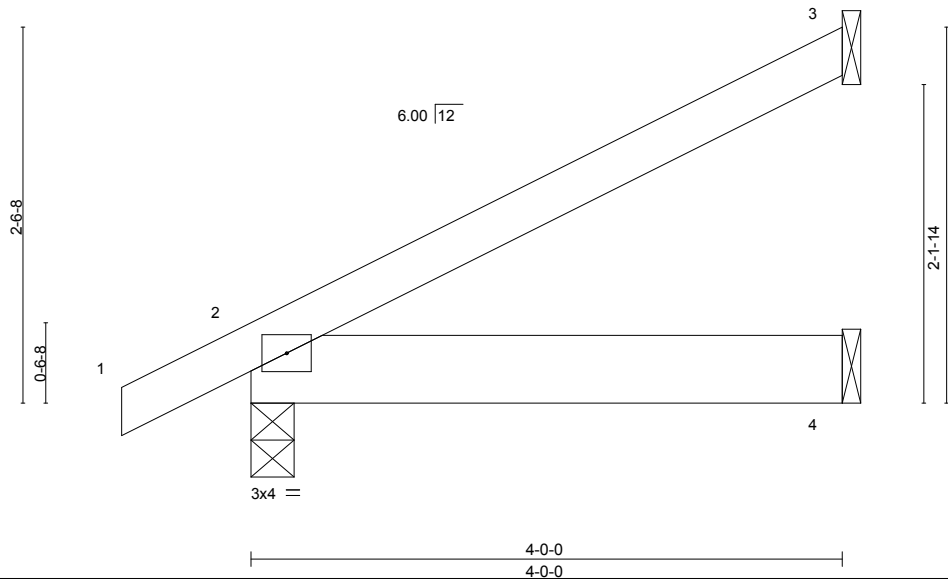
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:39 2018 Page 1

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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 0.21	Vert(LL) -0.00	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.05	Vert(TL) -0.01	2-4	>999	240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) -0.00	3	n/a	n/a			
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.00	2	****	240		Weight: 18 lb	FT = 20%

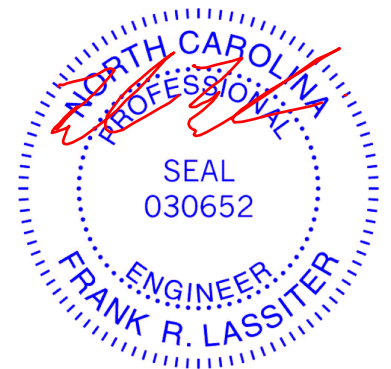
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1

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=100(LC 6)
Max Uplift 3=67(LC 6), 2=67(LC 6)
Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 5, 2018

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

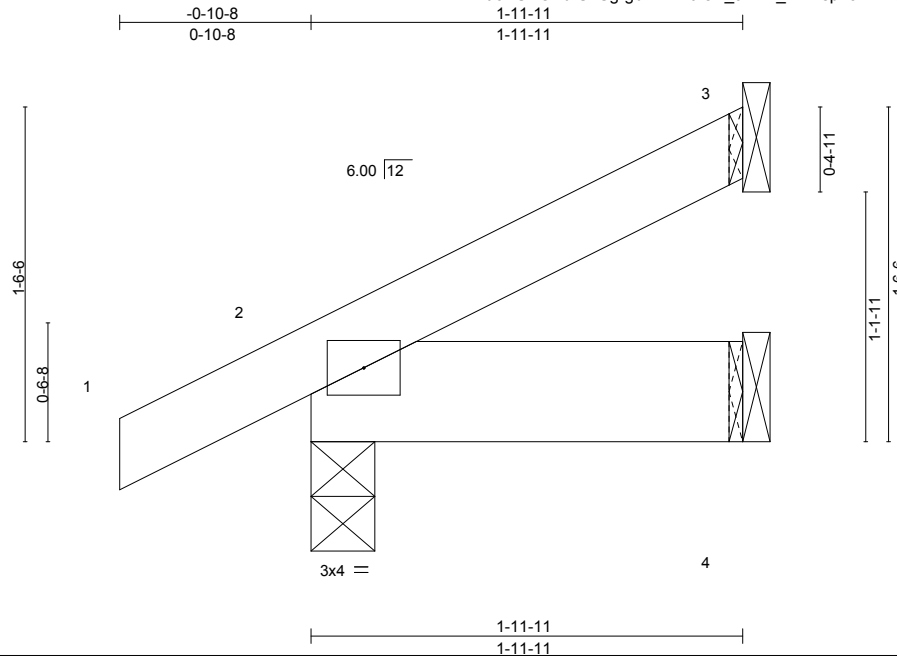


818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss GJ2	Truss Type Jack-Open	Qty 4	Ply 1	Embark B	E11513118
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:39 2018 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-iDE_7NMspchHixNbopalt_bmWf5Zq4_MQe5OI0ze1aQ



Scale = 1:10.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code IRC2009/TPI2007						Weight: 10 lb	FT = 20%

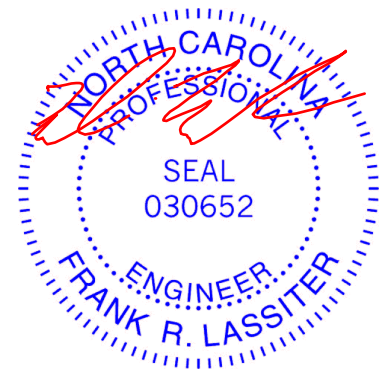
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1

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=62(LC 6)
Max Uplift 3=27(LC 6), 2=60(LC 6)
Max Grav 3=45(LC 1), 2=144(LC 1), 4=39(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 5, 2018

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Job B0318-0847	Truss GJC1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Embark B	E11513119
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:40 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBTzeN_9-AQoMLjMUa?k7K5yoMX5XQB8vU8QJZXEVelqyrSze1aP

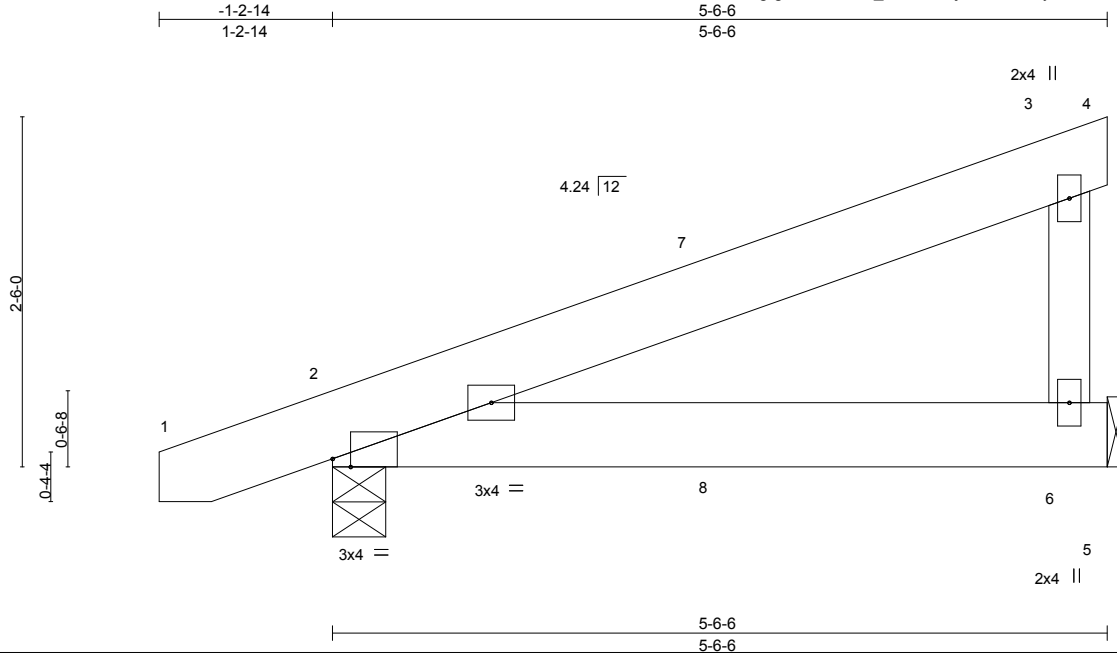


Plate Offsets (X,Y)-- [2:0-1-9,Edge]		CSI		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.15	BC	Vert(LL)	-0.01	2-6	>999		
TCDL 10.0	Lumber DOL	1.15	WB	Vert(TL)	-0.02	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	Matrix-P	Horz(TL)	0.00		n/a		
BCDL 10.0	Code IRC2009/TPI2007			Wind(LL)	0.00	2	****	Weight: 32 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 5-6-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=205/Mechanical, 2=286/0-4-9
 Max Horz 2=96(LC 3)
 Max Uplift 6=-53(LC 3), 2=-96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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) 46 lb down and 2 lb up at 2-9-8, and 46 lb down and 2 lb up at 2-9-8 on top chord, and at 2-9-8, and 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



March 5, 2018

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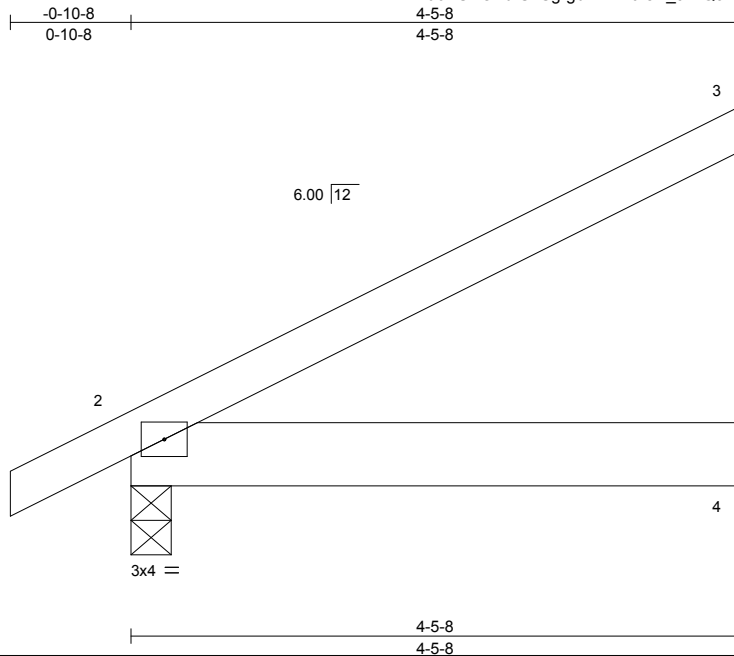
818 Soundside Road
 Edenton, NC 27932

Job B0318-0847	Truss J1	Truss Type Jack-Open	Qty 16	Ply 1	Embark B	E11513120
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:40 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-AQoMLjMUa?k7K5yoMX5XQB8tj8QxZXEVelqyrSze1aP



Scale = 1:16.7

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 0.27	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.07	Vert(TL) -0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 19 lb	FT = 20%

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

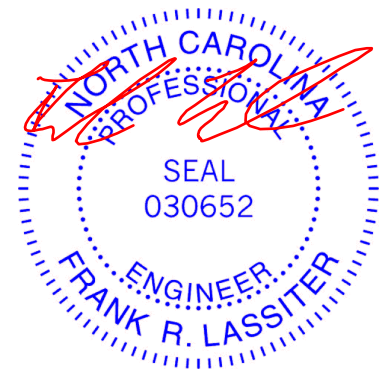
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=120/Mechanical, 2=239/0-3-8, 4=43/Mechanical
Max Horz 2=109(LC 6)
Max Uplift 3=-76(LC 6), 2=-68(LC 6)
Max Grav 3=120(LC 1), 2=239(LC 1), 4=85(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 5, 2018

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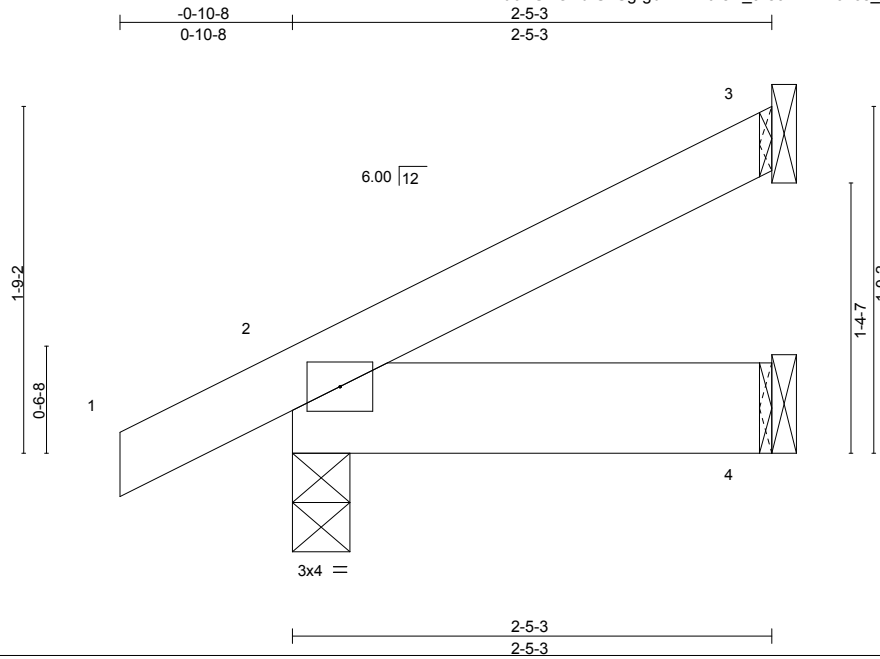
ENGINEERING BY
TRENCO
A MiTek Affiliate

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Edenton, NC 27932

Job B0318-0847	Truss J2	Truss Type Jack-Open	Qty 4	Ply 1	Embark B	E11513121
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:41 2018 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-eclKY2N6LJs_yFX_wEcmyPg6sYnzlzUetyaVNuze1aO



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 11 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 2-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=53/Mechanical, 2=164/0-3-8, 4=22/Mechanical
Max Horz 2=69(LC 6)
Max Uplift 3=33(LC 6), 2=66(LC 6)
Max Grav 3=53(LC 1), 2=164(LC 1), 4=44(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 5, 2018

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
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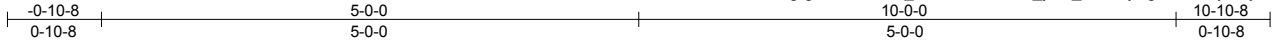
818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss P1	Truss Type COMMON	Qty 1	Ply 1	Embark B	E11513122
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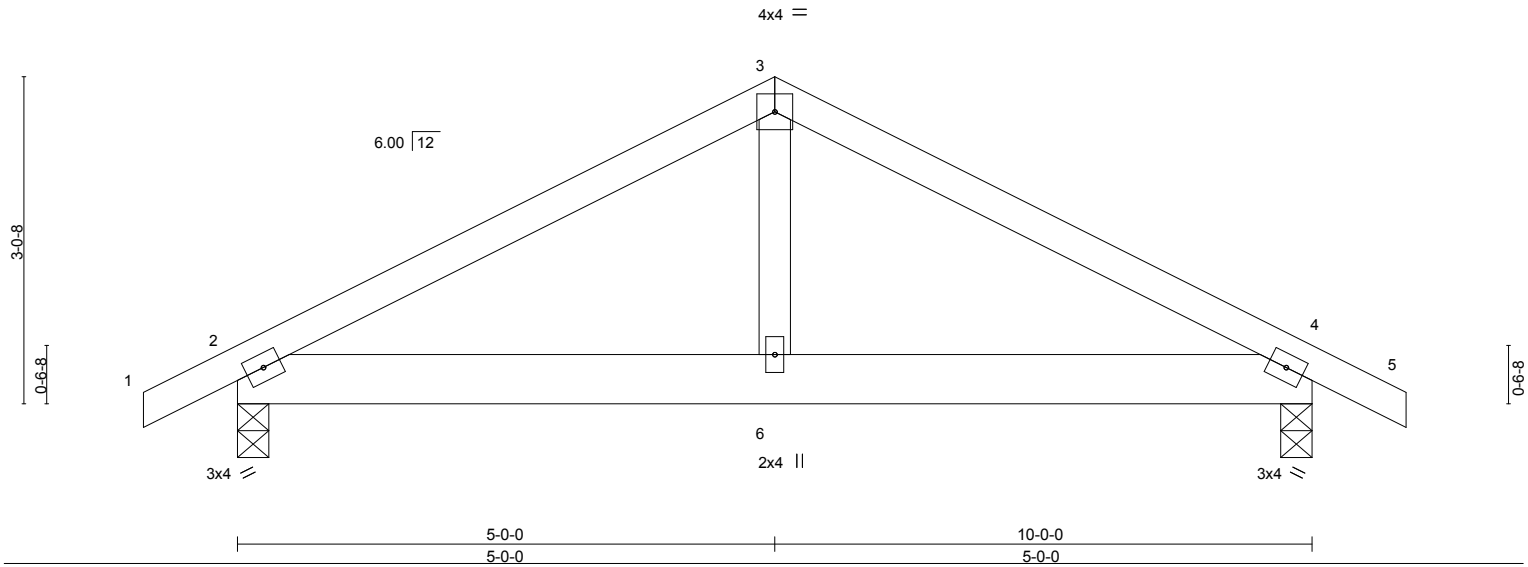
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:41 2018 Page 1

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Scale = 1:21.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.01	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(TL) -0.02	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.01	4-6	>999	240	Weight: 47 lb	FT = 20%

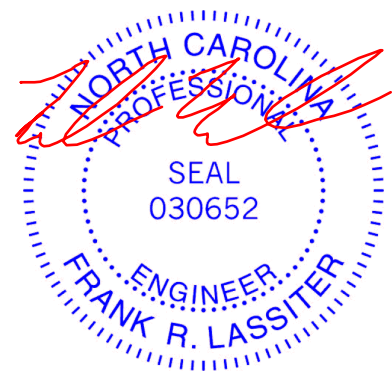
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

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=450/0-3-8, 4=450/0-3-8
Max Horz 2=51(LC 6)
Max Uplift 2=-112(LC 6), 4=-112(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-524/299, 3-4=-524/299
BOT CHORD 2-6=-120/395, 4-6=-120/395

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) except (jt=lb) 2=112, 4=112.



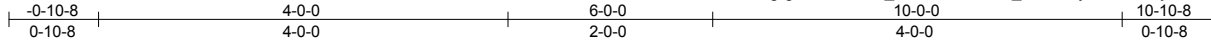
March 5, 2018

Job B0318-0847	Truss P2	Truss Type HIP GIRDER	Qty 1	Ply 1	Embark B	E11513123
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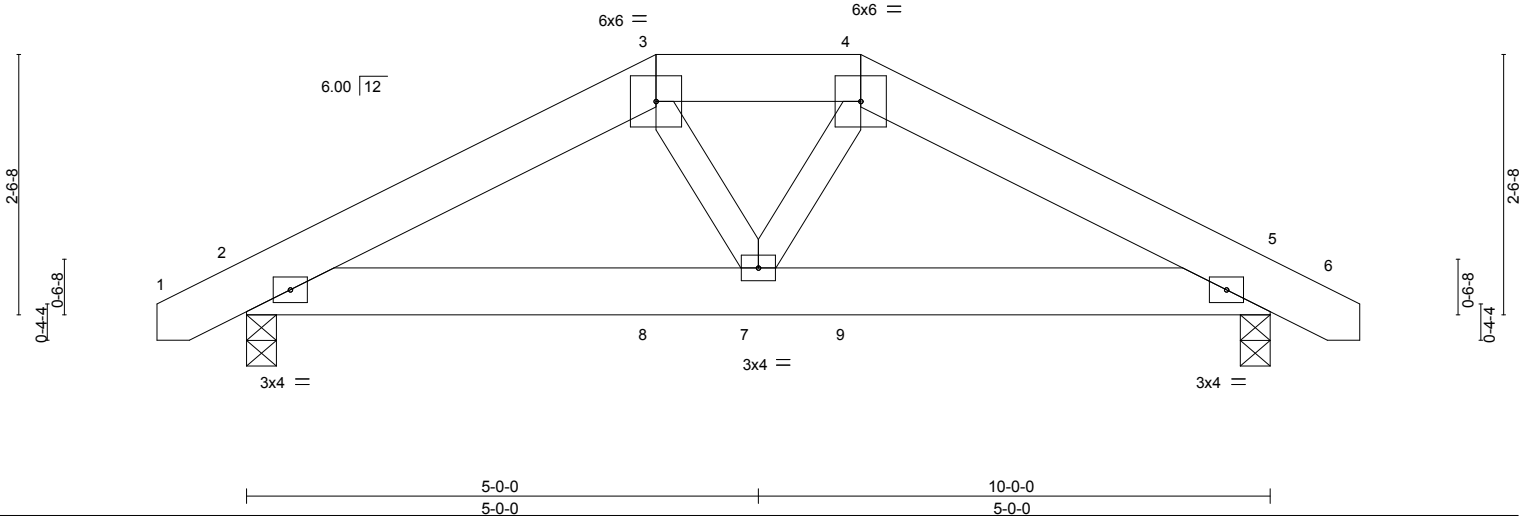
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:42 2018 Page 1

ID:Wu6AUPOZbrU4SgrgbEwHbtzeN_9-6ov6mOOK6c_raP6ATy7?VcDG6y461Pvo6cJ2vLze1aN



Scale = 1:22.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.01	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(TL) -0.03	2-7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.12	Horz(TL) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.01	7	>999	240	Weight: 60 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=673/0-3-8, 5=671/0-3-8
Max Horz 2=43(LC 5)
Max Uplift 2=-203(LC 5), 5=-203(LC 6)

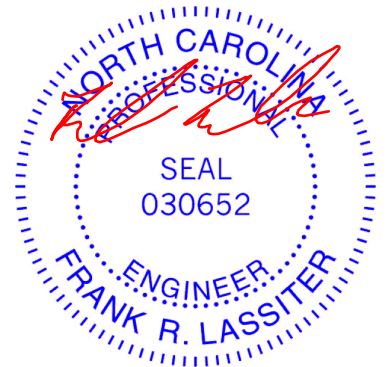
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1002/269, 3-4=-944/270, 4-5=-1002/269
BOT CHORD 2-7=-209/835, 5-7=-196/835
WEBS 3-7=-45/284, 4-7=-45/285

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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) 2=203, 5=203.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 54 lb up at 4-0-0, and 64 lb down and 54 lb up at 6-0-0 on top chord, and 186 lb down and 55 lb up at 4-0-0, and 186 lb down and 55 lb up at 5-11-4 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

- 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
Concentrated Loads (lb)
Vert: 3=-46(B) 4=-46(B) 8=-186(B) 9=-186(B)



March 5, 2018

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 ANSIT/TP1 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 B0318-0847	Truss PJ1	Truss Type Jack-Open	Qty 2	Ply 1	Embark B	E11513124
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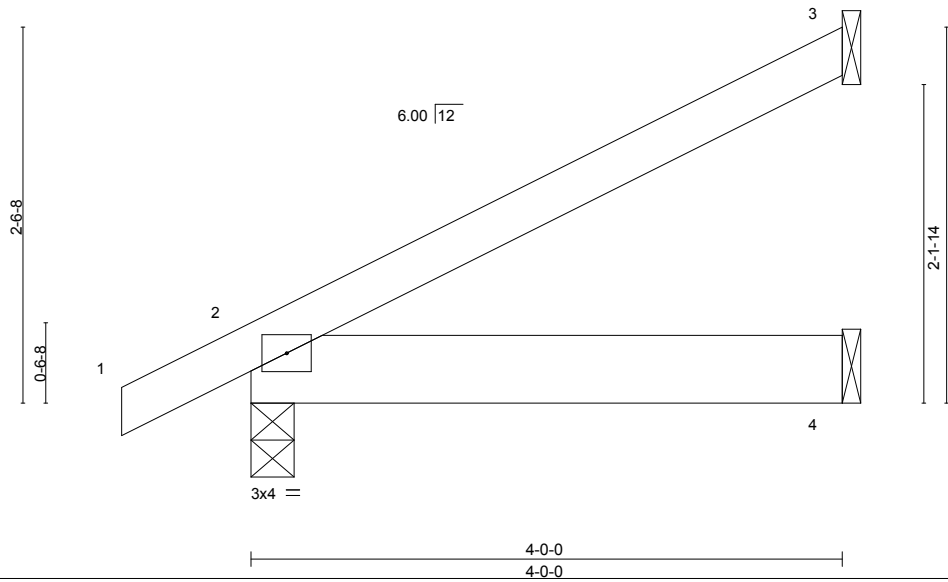
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 07:53:43 2018 Page 1

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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 0.21	Vert(LL) -0.00	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.05	Vert(TL) -0.01	2-4	>999	240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) -0.00	3	n/a	n/a			
BCDL 10.0	Code IRC2009/TPI2007		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

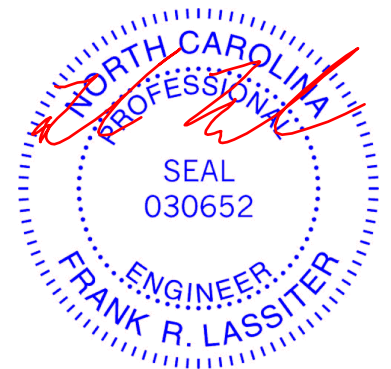
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical
Max Horz 2=100(LC 6)
Max Uplift 3=67(LC 6), 2=67(LC 6)
Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 5, 2018

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.



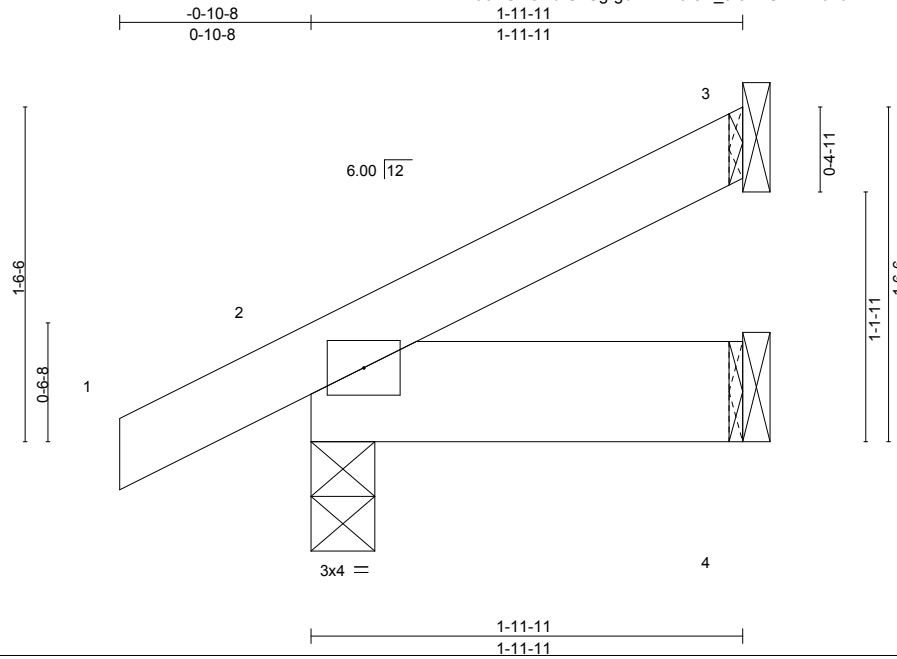
818 Soundside Road
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Job B0318-0847	Truss PJ2	Truss Type Jack-Open	Qty 4	Ply 1	Embark B	E11513125
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Comtech, Inc., Fayetteville, NC 28309

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ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-a?TUzkPMtw6iBZhN1ffE2qmSVMTVmt_xLG3cRnze1aM



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code IRC2009/TPI2007						Weight: 10 lb	FT = 20%

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

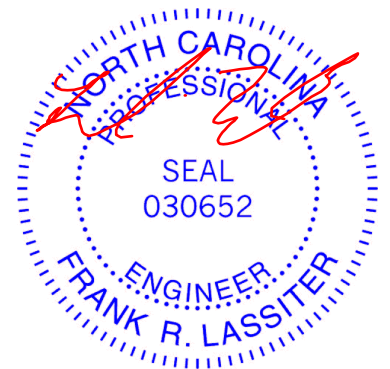
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=45/Mechanical, 2=144/0-3-8, 4=19/Mechanical
Max Horz 2=62(LC 6)
Max Uplift 3=27(LC 6), 2=60(LC 6)
Max Grav 3=45(LC 1), 2=144(LC 1), 4=39(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 5, 2018

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.

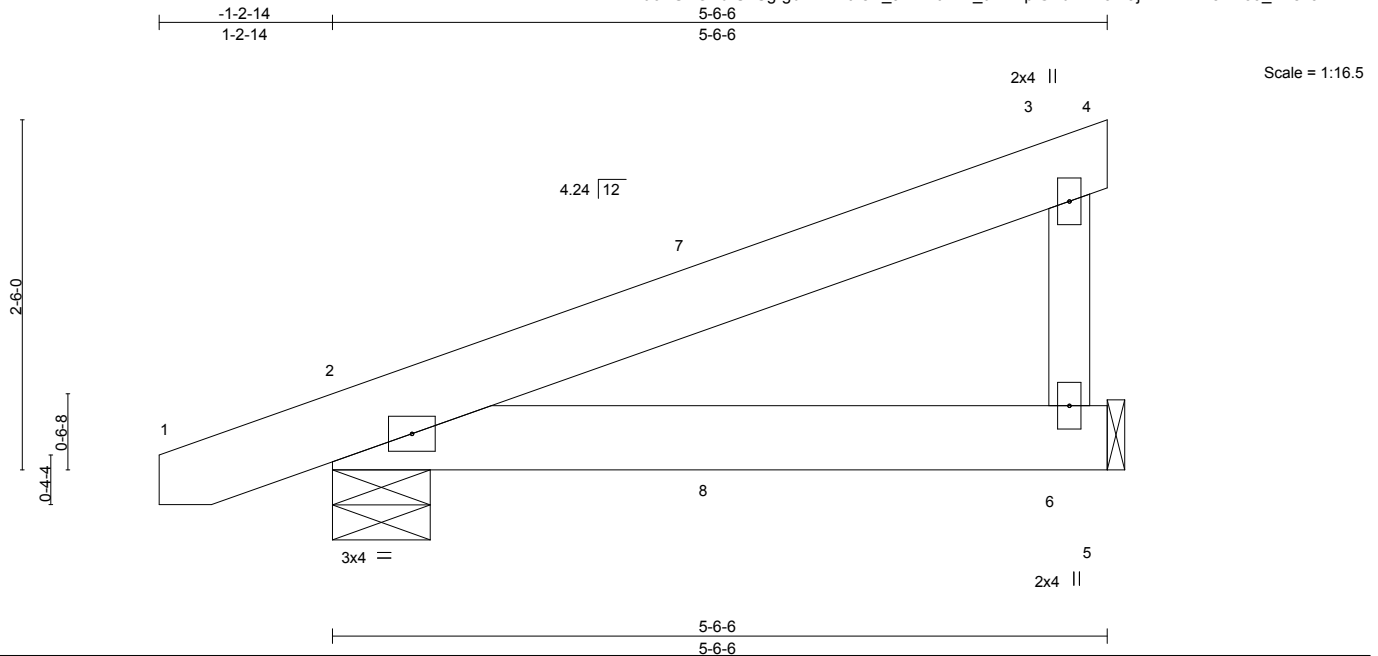


818 Soundside Road
Edenton, NC 27932

Job B0318-0847	Truss PJC1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Embark B Job Reference (optional)	E11513126
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ID:Wu6AUPOZbrU4SgrgbEwHbtzeN_9-2B1tA4P_dEEZpiGZbNATa1IajmnMVKE5Zwo9_Dze1aL



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(TL) -0.02	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(TL) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 32 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 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=197/Mechanical, 2=292/0-8-6
Max Horz 2=96(LC 3)
Max Uplift 6=-50(LC 3), 2=-104(LC 3)

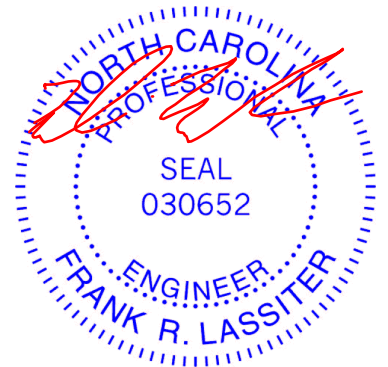
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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 except (jt=lb) 2=104.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 2 lb up at 2-9-8, and 46 lb down and 2 lb up at 2-9-8 on top chord, and at 2-9-8, and 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



March 5, 2018

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

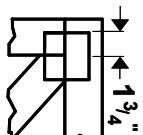
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



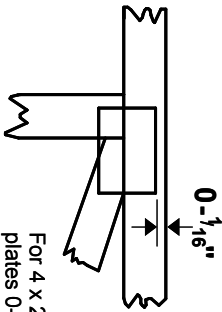
818 Soundside Road
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

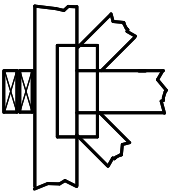
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



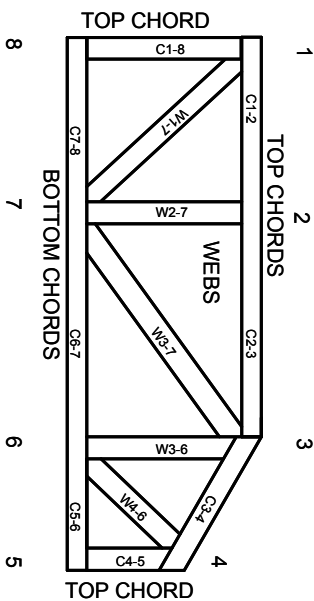
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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