

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: B0318-0848
Wayfare A

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

Pages or sheets covered by this seal: E11514986 thru E11515015

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 B0318-0848	Truss A01-P	Truss Type COMMON	Qty 2	Ply 1	Wayfare A	E11514986
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:27 2018 Page 1

ID:WeU20_wZYqtA5MeulVrNlzoaVc-oJClxVEeQ_yd4Vz9APbFFM9_7HixUi77ZLGG8rze?Bo

0-10-8 8-8-6 17-3-0 25-9-10 34-6-0 35-4-8
0-10-8 8-8-6 8-6-10 8-6-10 8-8-6 0-10-8

Scale = 1:67.6

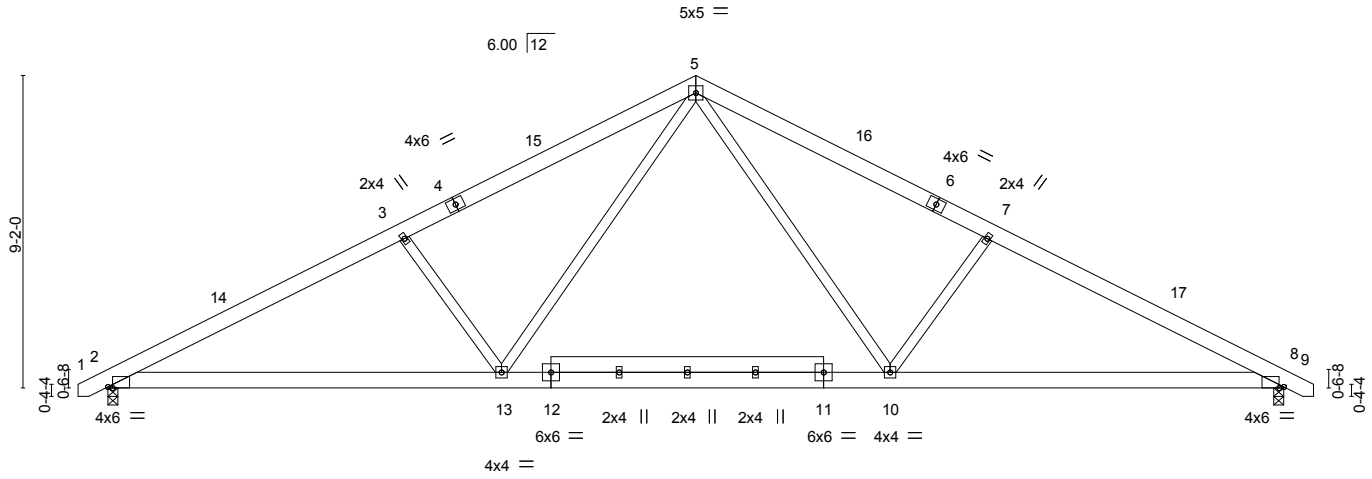


Plate Offsets (X,Y)--	[2:0-1-10,Edge], [8:0-1-10,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.48 10-13	>850	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(TL)	-0.64 10-13	>641	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(TL)	0.09 8	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.07 2-13	>999	240	Weight: 239 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1762/0-3-8, 8=1762/0-3-8
 Max Horz 2=138(LC 7)
 Max Uplift 2=-221(LC 7), 8=-221(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3245/766, 3-5=-2951/764, 5-7=-2951/764, 7-8=-3245/766
 BOT CHORD 2-13=-536/2794, 10-13=-210/1854, 8-10=-548/2794
 WEBS 5-10=-215/1242, 7-10=-489/388, 5-13=-215/1242, 3-13=-489/388

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 17-3-0, Exterior(2) 17-3-0 to 21-7-13 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=221, 8=221.



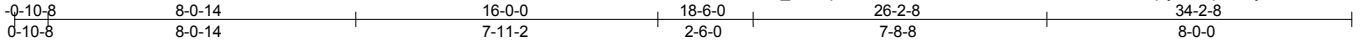
March 5, 2018

Job B0318-0848	Truss A03	Truss Type HIP	Qty 1	Ply 1	Wayfare A	E11514987
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Comtech, Inc., Fayetteville, NC 28309

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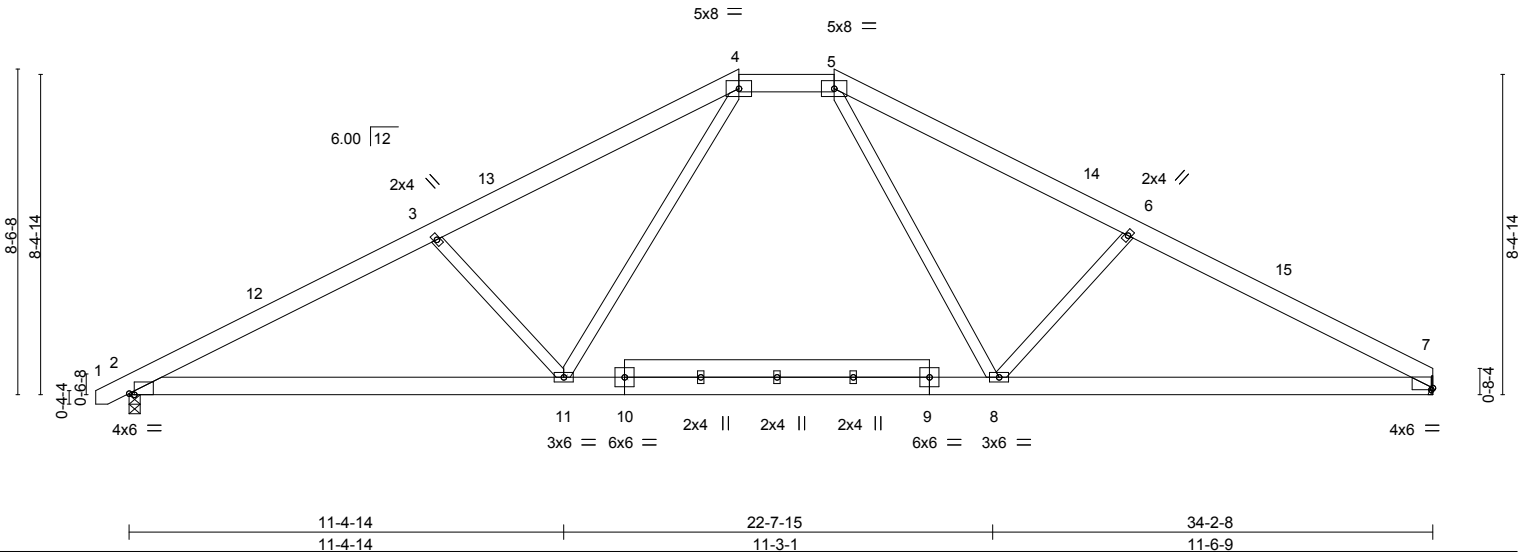


Plate Offsets (X,Y)--	[2:0-1-10,Edge], [7:0-0-8,0-0-9]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.47	8-11	>862	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(TL)	-0.62	8-11	>655		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(TL)	0.09	7	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.09	2-11	>999		
								Weight: 232 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-6-2 max.): 4-5.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.
9-10: 2x6 SP No.1	

REACTIONS. (lb/size) 7=1700/Mechanical, 2=1755/0-3-8
Max Horz 2=133(LC 7)
Max Uplift 7=-169(LC 8), 2=-213(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3253/854, 3-4=-2933/791, 4-5=-1975/707, 5-6=-2873/799, 6-7=-3187/839
BOT CHORD 2-11=-679/2807, 8-11=-315/1975, 7-8=-642/2733
WEBS 3-11=-478/412, 4-11=-188/1125, 5-8=-176/1083, 6-8=-448/403

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 16-0-0, Exterior(2) 16-0-0 to 18-6-0, Interior(1) 24-8-11 to 34-1-12 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 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.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=169, 2=213.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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.

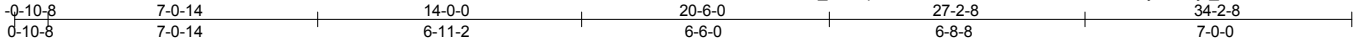


818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss A04	Truss Type HIP	Qty 1	Ply 1	Wayfare A	E11514988
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:30 2018 Page 1
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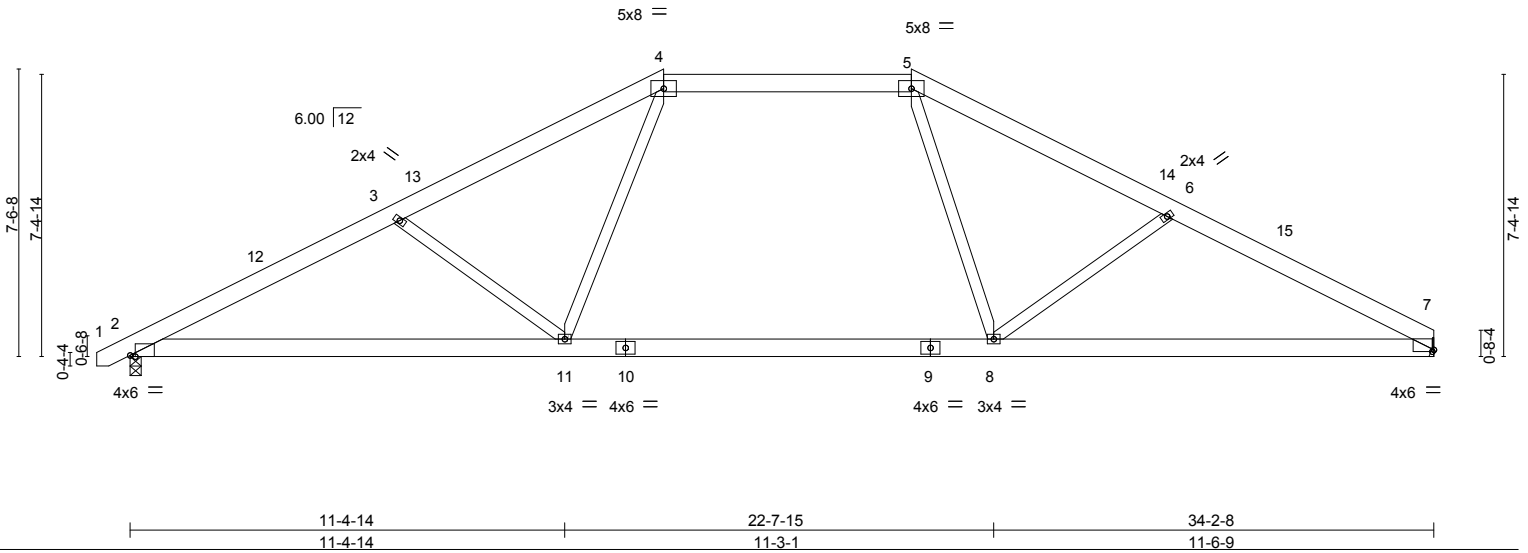


Plate Offsets (X,Y)-- [2:0-1-10,Edge], [7:0-0-8,0-0-9]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL) -0.36	8-11	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(TL) -0.49	8-11	>840	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Horz(TL) 0.09	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.16	2-11	>999	240		
	Code IRC2009/TPI2007						Weight: 208 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-3-11 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 8-9-4 oc bracing.

REACTIONS. (lb/size) 7=1583/Mechanical, 2=1639/0-3-8
Max Horz 2=119(LC 7)
Max Uplift 7=-156(LC 8), 2=-201(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3001/939, 3-4=-2647/806, 4-5=-2013/768, 5-6=-2586/814, 6-7=-2909/918
BOT CHORD 2-11=-766/2592, 8-11=-419/2013, 7-8=-727/2511
WEBS 3-11=-463/400, 4-11=-83/779, 5-8=-72/743, 6-8=-429/386

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 14-0-0, Exterior(2) 14-0-0 to 20-6-0, Interior(1) 26-8-11 to 34-1-12 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=156, 2=201.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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.



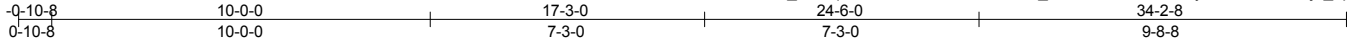
818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss A06	Truss Type HIP	Qty 2	Ply 1	Wayfare A Job Reference (optional)	E11514991
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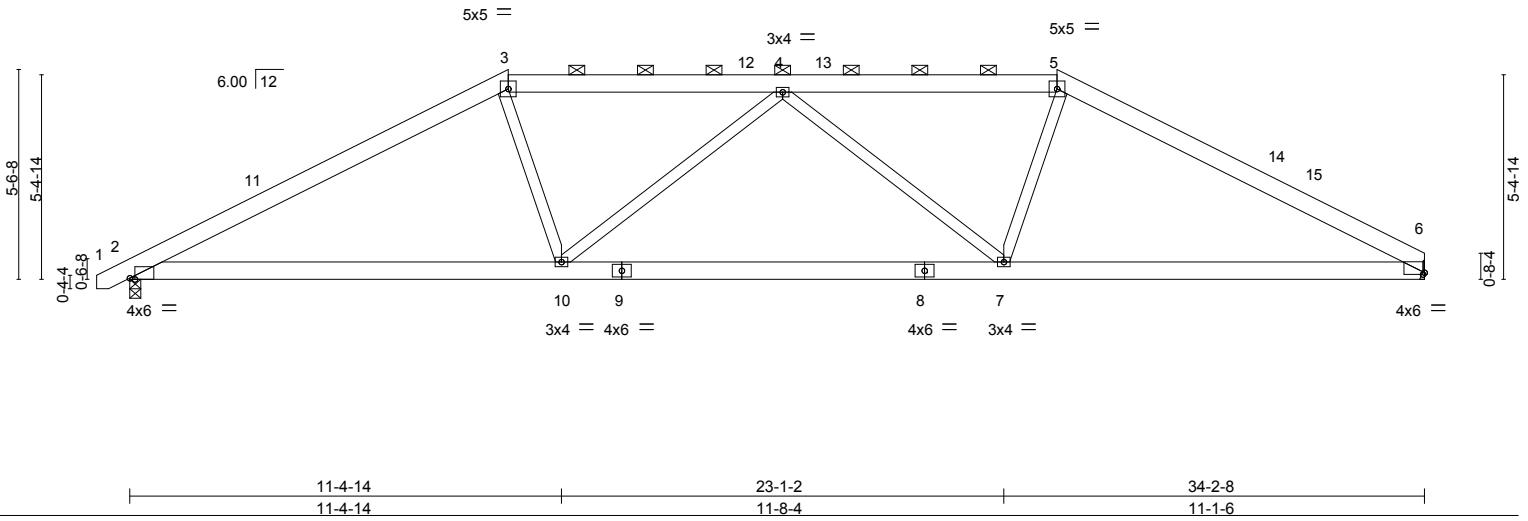
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:32 2018 Page 1

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Scale = 1:60.9



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.11	2-10	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.33	2-10	>999	240	Weight: 205 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.08	6	n/a	n/a			
BCDL	10.0	Code IRC2009/TP12007		Matrix-S		Wind(LL)	0.10	2-10	>999	240			

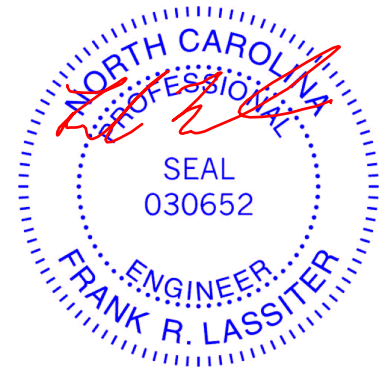
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except
2-0-0 oc purlins (5-3-6 max.); 3-5.
BOT CHORD Rigid ceiling directly applied or 9-0-0 oc bracing.

REACTIONS. (lb/size) 6=1359/Mechanical, 2=1412/0-3-8
Max Horz 2=90(LC 7)
Max Uplift 6=-123(LC 8), 2=-168(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2337/837, 3-4=-2107/867, 4-5=-2085/851, 5-6=-2290/819
BOT CHORD 2-10=-610/1969, 7-10=-751/2362, 6-7=-577/1945
WEBS 3-10=-25/589, 4-10=-465/237, 4-7=-489/239, 5-7=-22/600

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 10-0-0, Exterior(2) 10-0-0 to 30-8-11, Interior(1) 30-8-11 to 34-1-12 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=123, 2=168.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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.

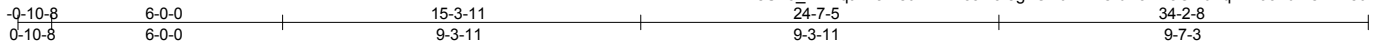


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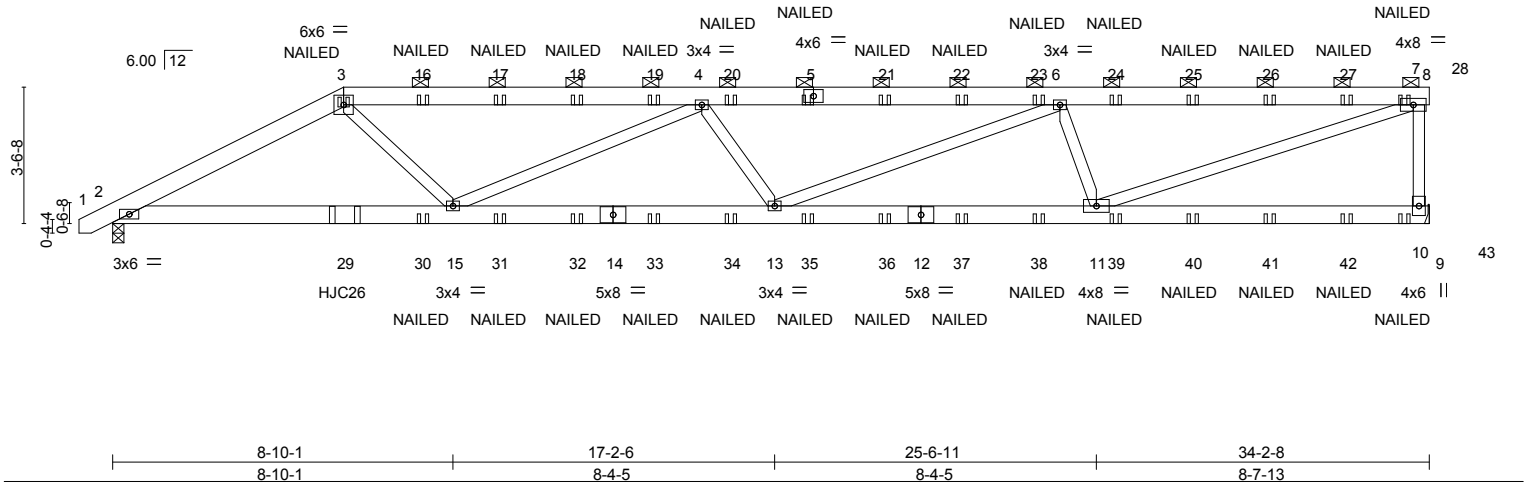
Job B0318-0848	Truss A08	Truss Type Half Hip Girder	Qty 2	Ply 2	Wayfare A	E11514993
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:34 2018 Page 1
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Scale = 1:59.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.20 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.70	Vert(TL) -0.50 11-13 >814 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.09 10 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.23 11-13 >999 240	Weight: 435 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 7-11: 2x4 SP No.2

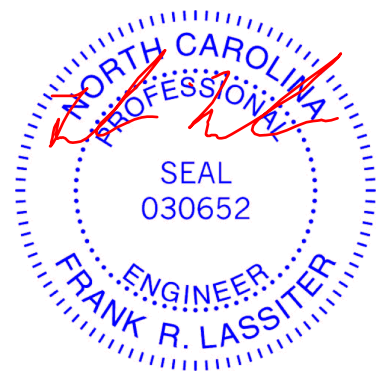
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 3-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=2730/Mechanical, 2=2584/0-3-8
 Max Horz 2=138(LC 11)
 Max Uplift 10=-773(LC 4), 2=-657(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4876/1376, 3-4=-5642/1484, 4-6=-7268/1999, 6-7=-5515/1516, 7-10=-2529/860
 BOT CHORD 2-15=-1260/4290, 13-15=-2189/7422, 11-13=-1751/6020
 WEBS 3-15=-342/1990, 4-15=-1973/809, 4-13=-294/363, 6-13=-268/1352, 6-11=-1720/802,
 7-11=-1559/5704

- 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, 2x4 - 1 row 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.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=773, 2=657.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use USP HJC26 (With 16d nails into Girder & 10d nails into Truss) or equivalent at 6-0-6 from the left end to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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Continued on page 2

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job B0318-0848	Truss A08	Truss Type Half Hip Girder	Qty 2	Ply 2	Wayfare A Job Reference (optional)	E11514993
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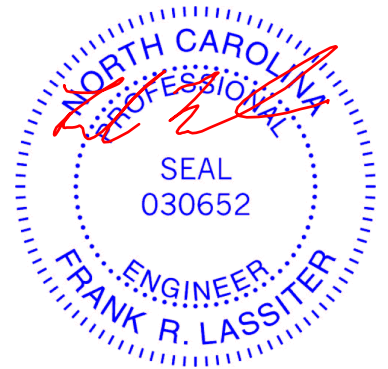
LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 3=-108(B) 5=-108(B) 16=-108(B) 17=-108(B) 18=-108(B) 19=-108(B) 20=-108(B) 21=-108(B) 22=-108(B) 23=-108(B) 24=-108(B) 25=-108(B) 26=-108(B)
27=-108(B) 28=-124(B) 29=-373(B) 30=-38(B) 31=-38(B) 32=-38(B) 33=-38(B) 34=-38(B) 35=-38(B) 36=-38(B) 37=-38(B) 38=-38(B) 39=-38(B) 40=-38(B)
41=-38(B) 42=-38(B) 43=-41(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.

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818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss A09-P	Truss Type HIP	Qty 1	Ply 1	Wayfare A	E11514994
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:36 2018 Page 1

ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-12F9qaLIII5Lft9tCoFM7F1VvywmW5o8ReFyEyqze?Bf

0-10-8	8-0-14	16-0-0	18-6-0	26-5-2	34-6-0	35-4-8
0-10-8	8-0-14	7-11-2	2-6-0	7-11-2	8-0-14	0-10-8

Scale: 3/16"=1'

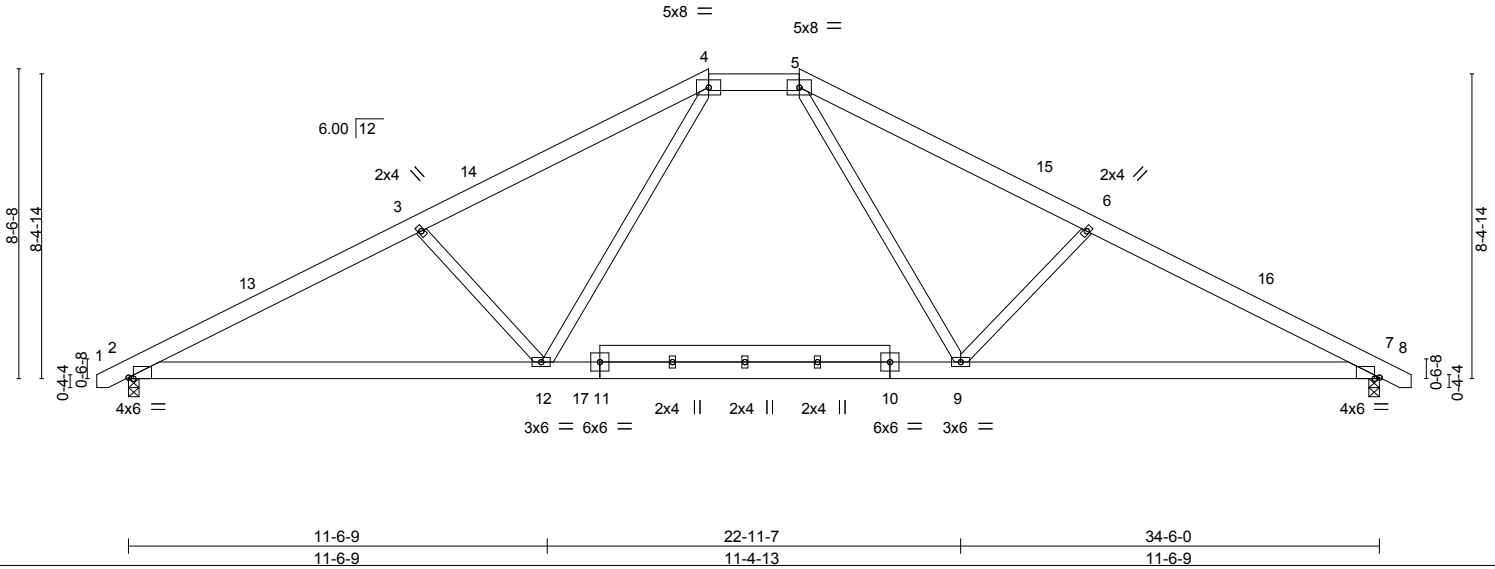


Plate Offsets (X,Y)--	[2:0-1-10,Edge], [7:0-1-10,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.49 9-12 >835 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(TL) -0.65 9-12 >629 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(TL) 0.09 7 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.09 2-12 >999 240	Weight: 235 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-5-11 max.): 4-5.
WEBS 2x4 SP No.3 *Except* 10-11: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-6-15 oc bracing.

REACTIONS. (lb/size) 2=1755/0-3-8, 7=1759/0-3-8
 Max Horz 2=128(LC 7)
 Max Uplift 2=-214(LC 7), 7=-214(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3256/852, 3-4=-2937/796, 4-5=-1988/706, 5-6=-2931/790, 6-7=-3260/854
 BOT CHORD 2-12=-656/2810, 9-12=-293/1988, 7-9=-654/2814
 WEBS 3-12=-476/411, 4-12=-186/1111, 5-9=-178/1122, 6-9=-483/413

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 16-0-0, Exterior(2) 16-0-0 to 18-6-0, Interior(1) 24-8-11 to 35-2-10 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 30.0psf on the bottom chord in all areas with a clearance greater than 5-0-0 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=214, 7=214.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



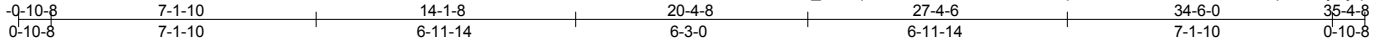
March 5, 2018

Job B0318-0848	Truss A10-P	Truss Type HIP	Qty 1	Ply 1	Wayfare A	E11514995
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:36 2018 Page 1

ID:WeU20_wZYqtA5MeuIVrNlzoaVc-12F9qaLIII5Lft9tCoFM7F1UzvrG5p1ReFyEyqze?Bf



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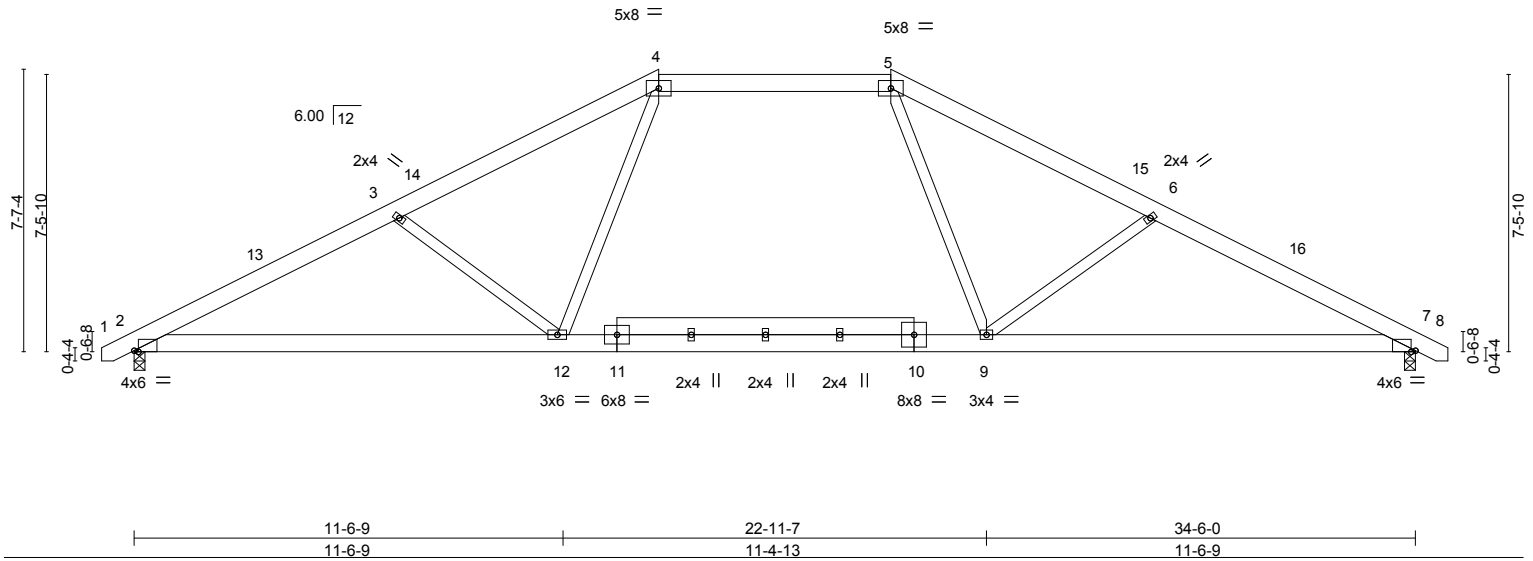


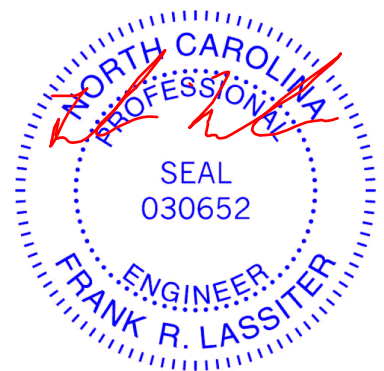
Plate Offsets (X,Y)--	[2:0-1-6,Edge], [7:0-1-6,Edge]				
LOADING (psf)	SPACING- 2-1-8	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.44 9-12 >924 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(TL) -0.58 9-12 >703 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.41	Horz(TL) 0.08 7 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.15 2-12 >999 240	Weight: 230 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-4 oc purlins, except
BOT CHORD 2x6 SP 2400F 2.0E	2-0-0 oc purlins (4-10-15 max.): 4-5.
WEBS 2x4 SP No.3 *Except* 10-11: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1876/0-3-8, 7=1874/0-3-8
 Max Horz 2=122(LC 7)
 Max Uplift 2=-214(LC 7), 7=-214(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3504/988, 3-4=-3134/863, 4-5=-2368/811, 5-6=-3121/861, 6-7=-3497/990
 BOT CHORD 2-12=-783/3030, 9-12=-416/2368, 7-9=-781/3024
 WEBS 3-12=-477/426, 4-12=-88/984, 5-9=-85/978, 6-9=-482/427

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 14-1-8, Exterior(2) 14-1-8 to 20-4-8, Interior(1) 26-7-3 to 35-2-10 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 30.0psf on the bottom chord in all areas with a clearance greater than 5-0-0 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=214, 7=214.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 5, 2018

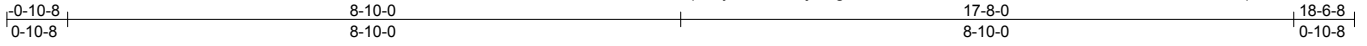
Job B0318-0848	Truss B1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Wayfare A	E11514996
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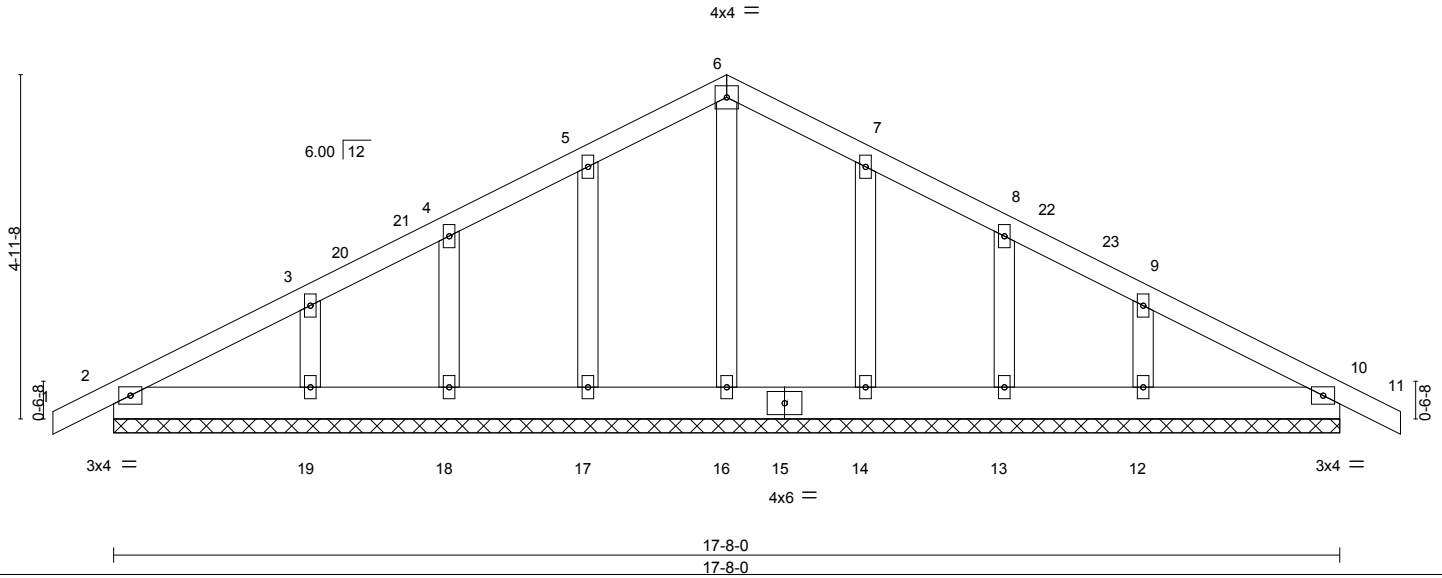
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:37 2018 Page 1

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Job Reference (optional)



Scale = 1:33.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) 0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) 0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL) 0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S					Weight: 100 lb	FT = 20%

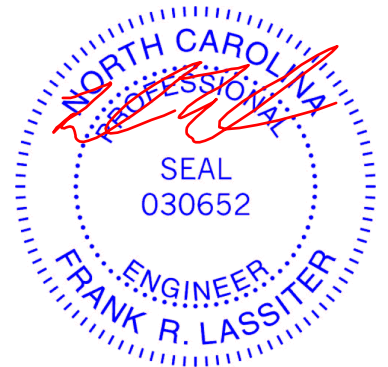
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3

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 17-8-0.
(b) - Max Horz 2=91(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 10, 17, 18, 14, 13, 2 except 19=-124(LC 7), 12=-123(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 16, 17, 18, 19, 14, 13, 12, 2

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-19=-152/265, 9-12=-152/265

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 8-10-0, Corner(3) 8-10-0 to 13-2-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 17, 18, 14, 13, 2 except (jt=lb) 19=124, 12=123.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



March 5, 2018

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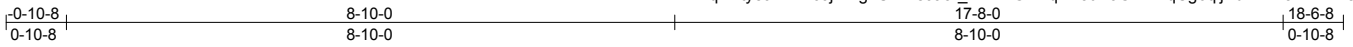


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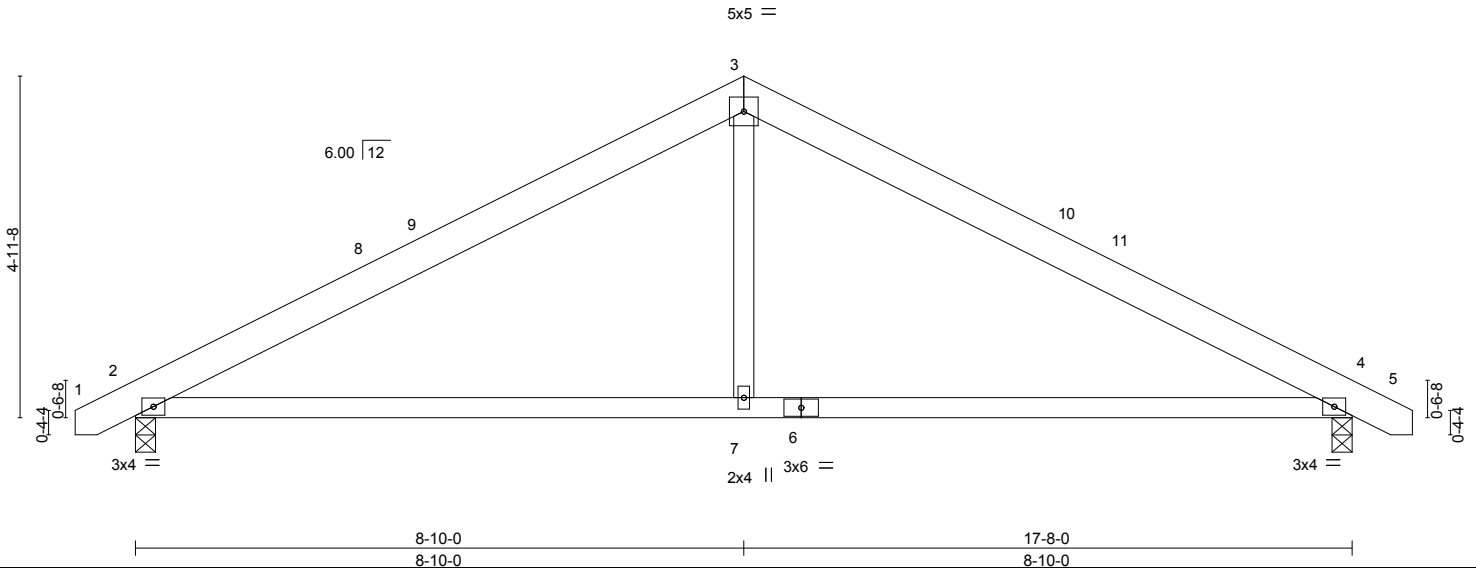
Job B0318-0848	Truss B2	Truss Type COMMON	Qty 1	Ply 1	Wayfare A	E11514997
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:38 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3_RMvFGNYqNL3uBJGKDHqCg6qijXdZnVk5ZRL1ize?bD



Scale = 1:33.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.10	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(TL) -0.28	2-7	>745	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(TL) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.04	2-7	>999	240	Weight: 84 lb	FT = 20%

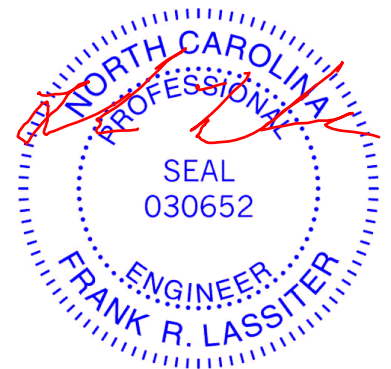
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 4=747/0-3-8, 2=747/0-3-8
Max Horz 2=75(LC 7)
Max Uplift 4=-133(LC 8), 2=-133(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-946/333, 3-4=-946/333
BOT CHORD 2-7=-138/765, 4-7=-138/765
WEBS 3-7=0/403

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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 8-10-0, Exterior(2) 8-10-0 to 13-2-13 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=133, 2=133.



March 5, 2018

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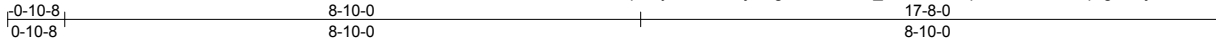


818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss B3	Truss Type Common Girder	Qty 1	Ply 2	Wayfare A	E11514998
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:38 2018 Page 1
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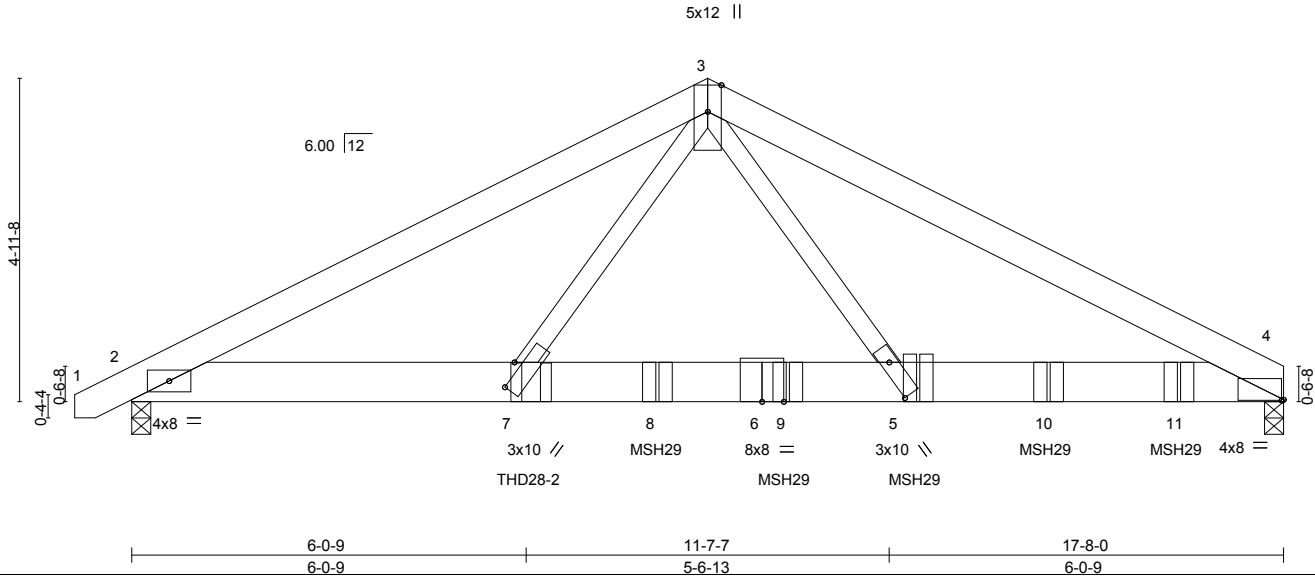


Plate Offsets (X,Y)-- [4:0-0-6,0-0-2], [5:0-7-0,0-1-8], [7:0-4-12,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.11	5-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(TL)	-0.28	5-7	>742		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.73	Horz(TL)	0.06	4	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.10	5-7	>999		
								Weight: 236 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP 2400F 2.0E *Except*
 2-6: 2x8 SP No.1
 WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 4=6650/0-3-8, 2=4763/0-3-8
 Max Horz 2=86(LC 5)
 Max Uplift 4=902(LC 6), 2=906(LC 5)

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

TOP CHORD 2-3=-10029/1794, 3-4=-10756/1521
 BOT CHORD 2-7=-1546/8841, 5-7=-976/6236, 4-5=-1285/9524
 WEBS 3-5=-586/5912, 3-7=-1020/4687

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: 2x8 - 2 rows staggered at 0-3-0 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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=902, 2=906.
- Use USP THD28-2 (With 16d nails into Girder & 10d nails into Truss) or equivalent at 6-1-8 from the left end to connect truss(es) to back face of bottom chord.
- Use USP MSH29 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 16-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

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, 2-4=-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.

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818 Soundside Road
 Edenton, NC 27932

Job B0318-0848	Truss B3	Truss Type Common Girder	Qty 1	Ply 2	Wayfare A Job Reference (optional)	E11514998
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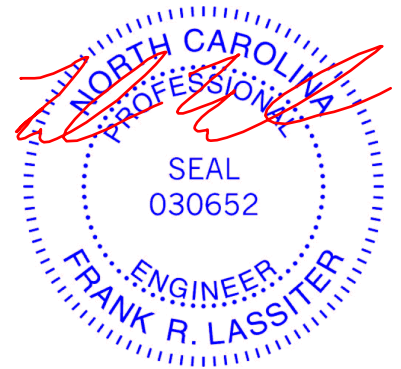
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:38 2018 Page 2
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-_RMvFGNYqNL3uBJGKDHqCg6m2jT5ZeZk5ZRL1ize?Bd

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5--1339(B) 7--2711(B) 8--1339(B) 9--1339(B) 10--1563(B) 11--1680(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.

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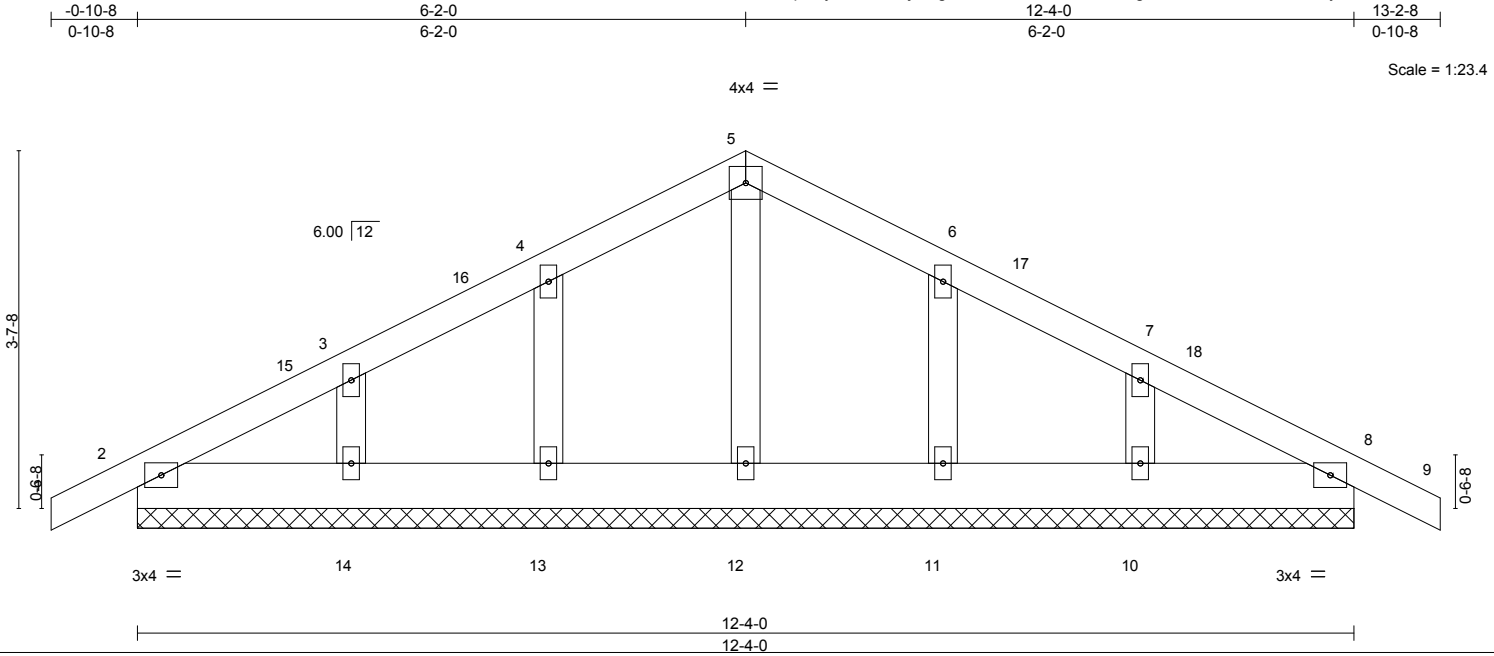


818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss C1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Wayfare A	E11514999
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:39 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-SdwHSbNAbgTwwLUStxo3kuf437?bIFyukDAvZ8ze?Bc



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) -0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	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: 65 lb	FT = 20%

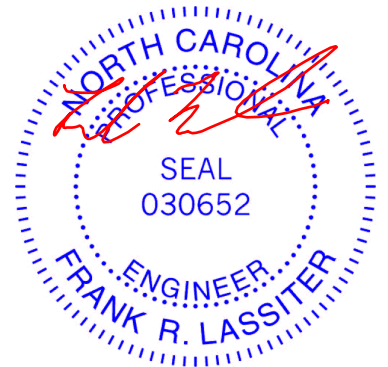
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3

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 12-4-0.
(lb) - Max Horz 2=-69(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-13=-128/254, 3-14=-123/254, 6-11=-128/254, 7-10=-123/254

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-2-0, Corner(3) 6-2-0 to 10-6-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.



March 5, 2018

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818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss C2	Truss Type Common Girder	Qty 1	Ply 2	Wayfare A	E11515000
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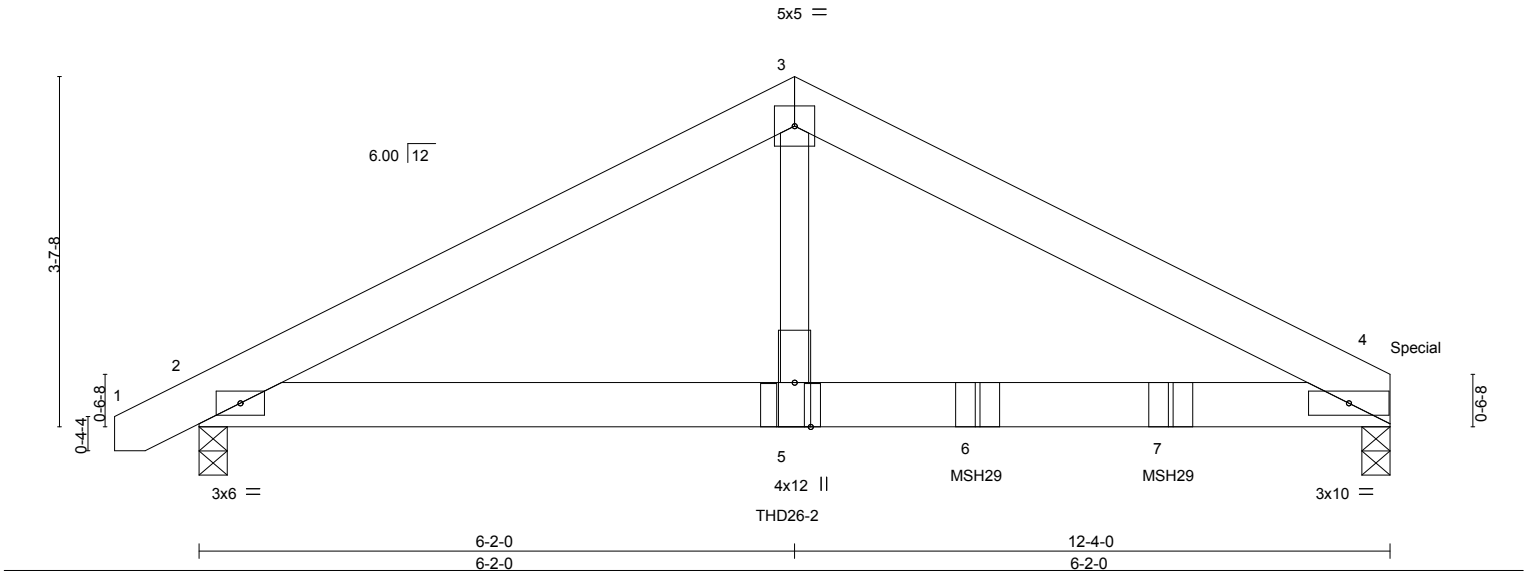
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:40 2018 Page 1

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Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.09	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(TL) -0.23	4-5	>630	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(TL) 0.03	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.08	4-5	>999	240		
							Weight: 136 lb	FT = 20%

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

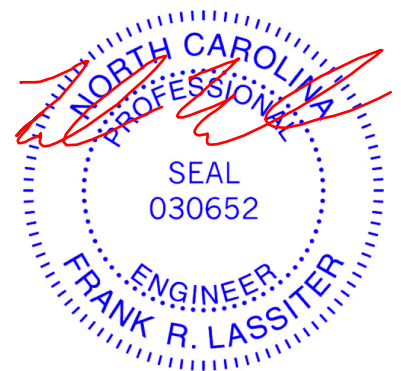
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=5594/0-3-8, 2=2586/0-3-8
Max Horz 2=63(LC 13)
Max Uplift 4=-829(LC 6), 2=-579(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5479/1138, 3-4=-5409/1128
BOT CHORD 2-5=-952/4776, 4-5=-952/4776
WEBS 3-5=-898/4546

- 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 0-4-0 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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=829, 2=579.
 - Use USP THD26-2 (With 16d nails into Girder & 10d nails into Truss) or equivalent at 6-1-8 from the left end to connect truss(es) to front face of bottom chord.
 - Use USP MSH29 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 10-0-12 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1775 lb down and 156 lb up at 12-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 2-4=-20



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Continued on page 2

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss C2	Truss Type Common Girder	Qty 1	Ply 2	Wayfare A Job Reference (optional)	E11515000
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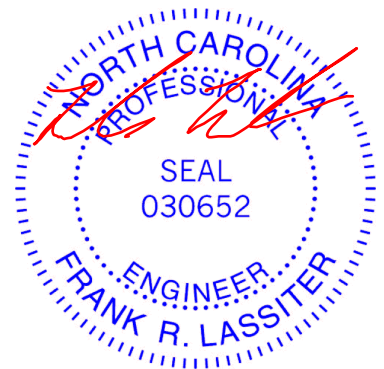
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:40 2018 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-1775(F) 5=-2711(F) 6=-1339(F) 7=-1339(F)



March 5, 2018

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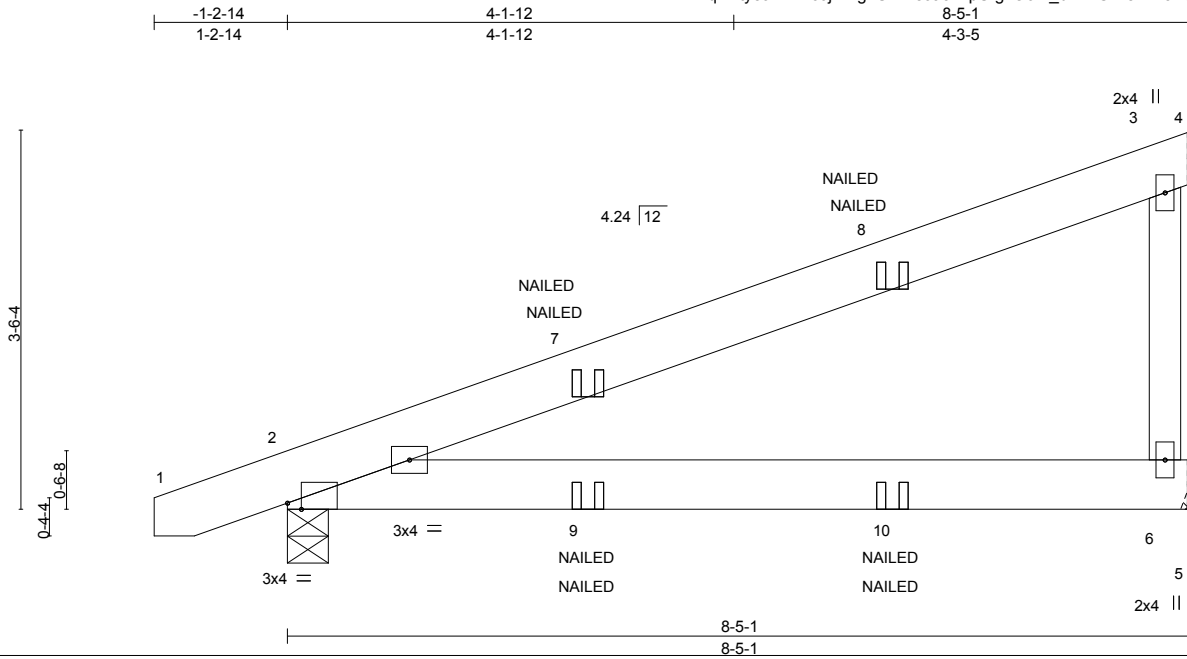


818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss CJ08	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Wayfare A	E11515001
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:40 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-wpUfgxOoM_bn7VSfReKIh5B9zXGt1jN1ZswS5bze?Bb



Scale = 1:21.4

Plate Offsets (X,Y)-- [2:0-1-9,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL)	-0.06	2-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.33	Vert(TL)	-0.16	2-6	>610		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL)	0.00		n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.00	2	****		
	Code IRC2009/TPI2007						Weight: 48 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=364/Mechanical, 2=417/0-4-9
Max Horz 2=136(LC 3)
Max Uplift 6=-109(LC 3), 2=-117(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-266/168

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=109, 2=117.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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
Concentrated Loads (lb)
Vert: 8=40(F=-20, B=-20) 10=-19(F=-9, B=-9)



March 5, 2018

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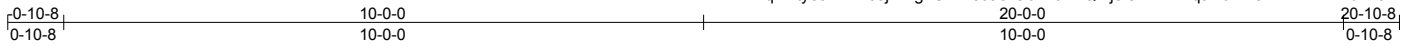


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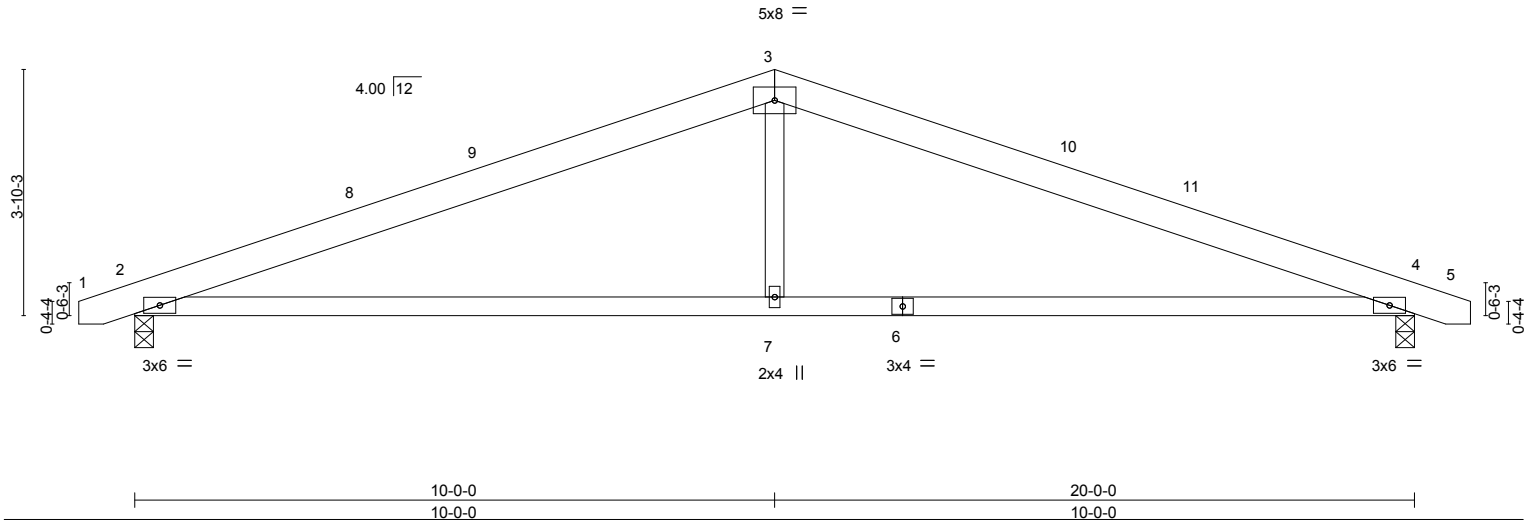
Job B0318-0848	Truss G1	Truss Type COMMON	Qty 2	Ply 1	Wayfare A	E11515002
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:41 2018 Page 1
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Scale = 1:36.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.17	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(TL) -0.48	2-7	>491	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(TL) 0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.07	2-7	>999	240	Weight: 88 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 5-0-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=838/0-3-8, 2=838/0-3-8
Max Horz 2=54(LC 7)
Max Uplift 4=-161(LC 6), 2=-161(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1438/474, 3-4=-1438/474
BOT CHORD 2-7=-330/1294, 4-7=-330/1294
WEBS 3-7=0/455

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13 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=161, 2=161.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



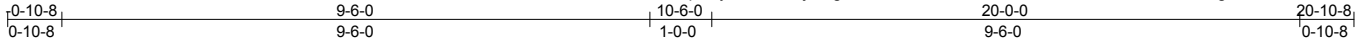
March 5, 2018

Job B0318-0848	Truss G2	Truss Type HIP	Qty 1	Ply 1	Wayfare A	E11515003
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8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:42 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-sCcQ5dQ3ubrVNoc1Z3MmMWHUoKtgVbWK0APZATze?BZ



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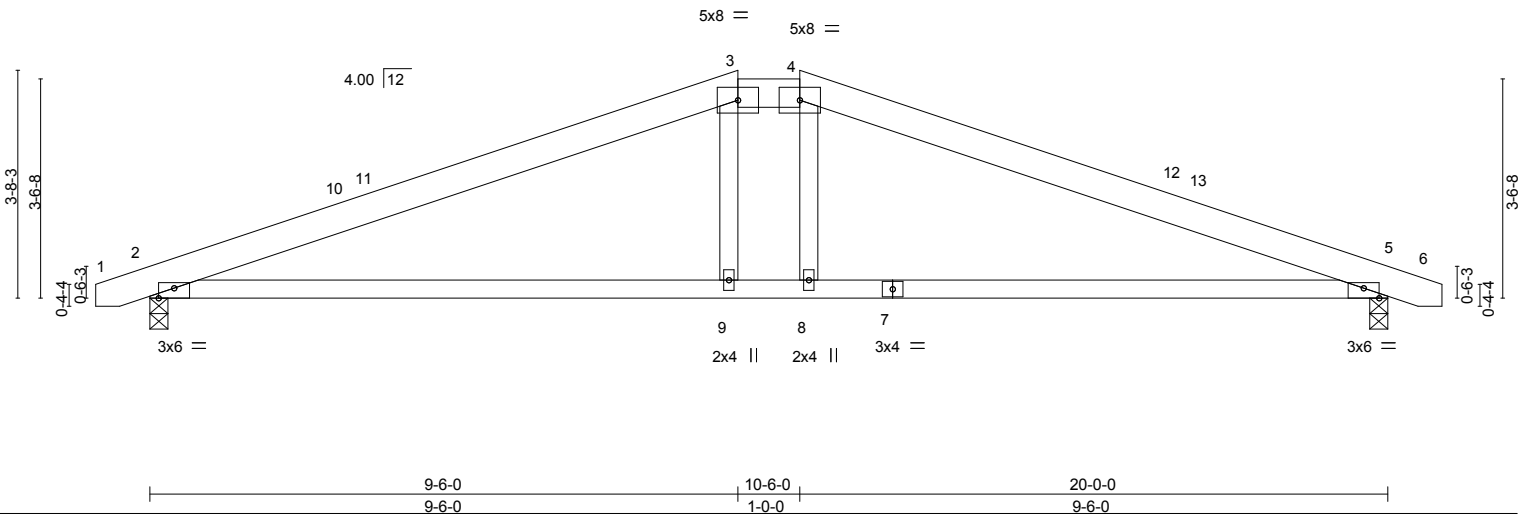


Plate Offsets (X,Y)--	[2:0-3-0,Edge], [5:0-3-0,Edge]				
LOADING (psf)	SPACING - 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.16 2-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(TL) -0.45 2-9 >523 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(TL) 0.05 5 n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.08 2-9 >999 240	Weight: 92 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 5-3-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.

REACTIONS. (lb/size) 5=838/0-3-8, 2=838/0-3-8
Max Horz 2=51(LC 7)
Max Uplift 5=-164(LC 6), 2=-164(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1482/536, 3-4=-1335/570, 4-5=-1482/536
BOT CHORD 2-9=-393/1341, 8-9=-396/1335, 5-8=-395/1341

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 9-6-0, Exterior(2) 9-6-0 to 10-6-0, Interior(1) 16-8-11 to 20-8-3 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=164, 2=164.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 5, 2018

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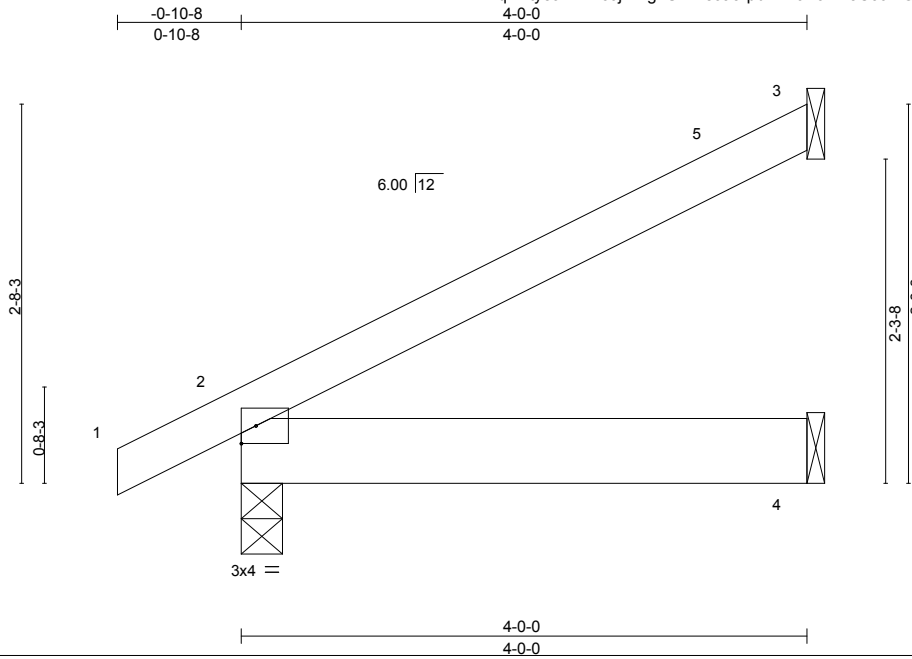
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Job B0318-0848	Truss GJ1	Truss Type Jack-Open	Qty 5	Ply 1	Wayfare A	E11515005
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ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-pbkAVJRJPD5Cc6mQgUOERxMvJ8iAzWNdTUufEMze?BX



Scale = 1:16.3

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.00	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	-0.01	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL)	0.00	2	****	Weight: 18 lb	FT = 20%

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

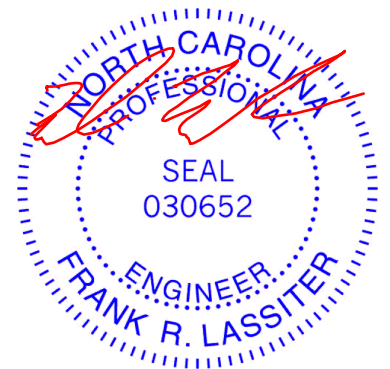
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical
Max Horz 2=97(LC 7)
Max Uplift 3=70(LC 7), 2=59(LC 7)
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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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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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.

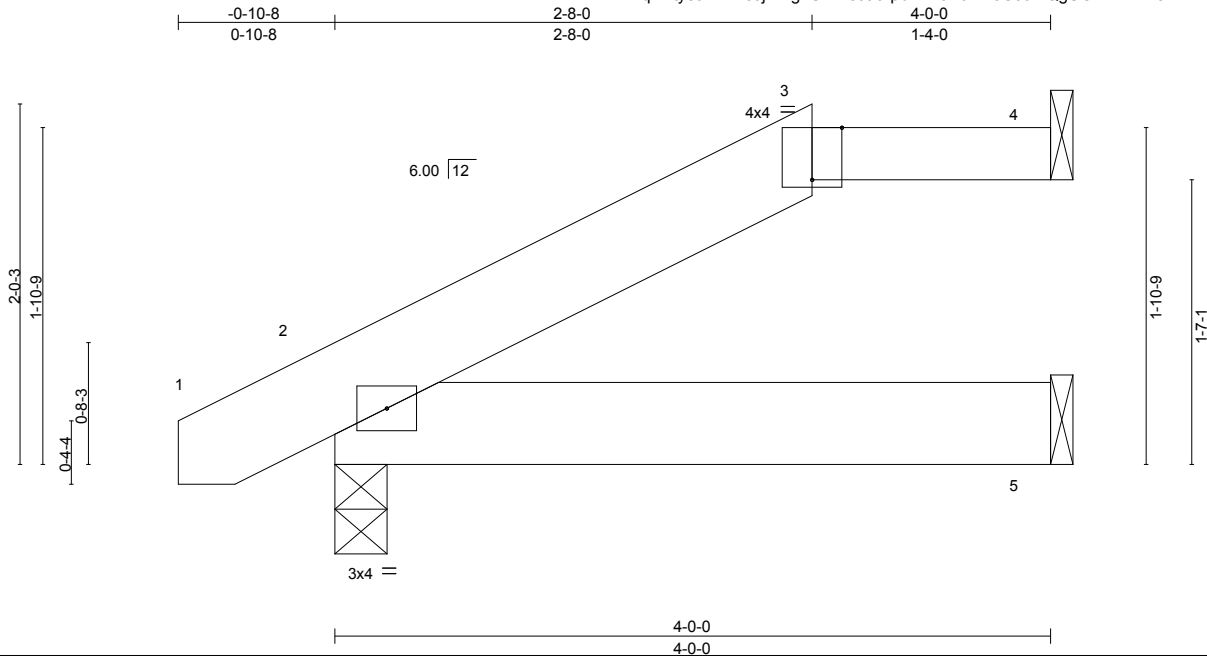


818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss GJ2	Truss Type JACK-OPEN	Qty 2	Ply 1	Wayfare A	E11515006
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:44 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-pbkAVJRJPD5Cc6mQgUOERxMxv8i2zWNdTUufEMze?BX



Scale = 1:12.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00	2-5	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(TL) -0.01	2-5	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.01	4	n/a	n/a			
BCDL 10.0	Code IRC2009/TP12007	Matrix-P	Wind(LL) 0.00	2-5	>999	240		Weight: 21 lb	FT = 20%

LUMBER-

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

BRACING-

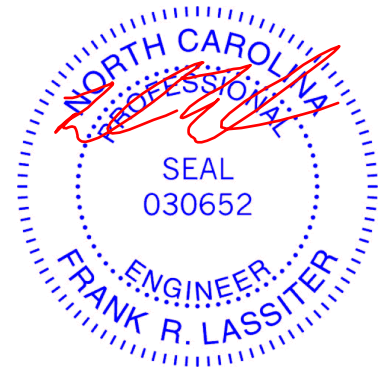
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=97/Mechanical, 2=209/0-3-8, 5=49/Mechanical
Max Horz 2=69(LC 7)
Max Uplift 4=-39(LC 6), 2=-61(LC 7)
Max Grav 4=97(LC 1), 2=209(LC 1), 5=73(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; 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
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 5, 2018

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818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss GJ3	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Wayfare A	E11515007
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:45 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-HnHYjfSxAWE3EGLcEBvT_9v6SY2oizcmi8dDmoze?BW

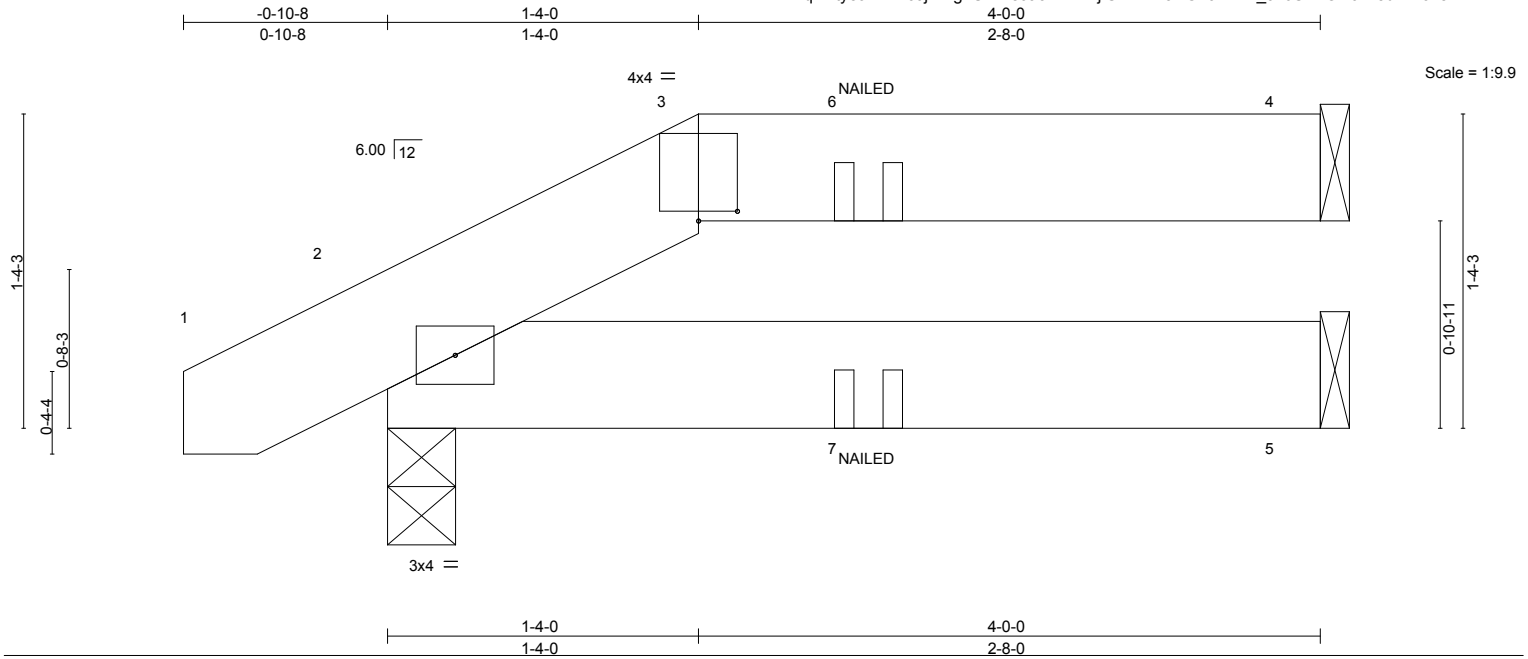


Plate Offsets (X,Y)--	[3:0-2-0,0-0-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.07	Vert(LL) -0.00	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.05	Vert(TL) -0.01	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.00	2-5	>999	240	Weight: 22 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=101/Mechanical, 2=211/0-3-8, 5=46/Mechanical
Max Horz 2=45(LC 5)
Max Uplift 4=-43(LC 4), 2=-64(LC 5)
Max Grav 4=101(LC 1), 2=211(LC 1), 5=73(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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, 2-5=-20
Concentrated Loads (lb)
Vert: 7=-3(B)

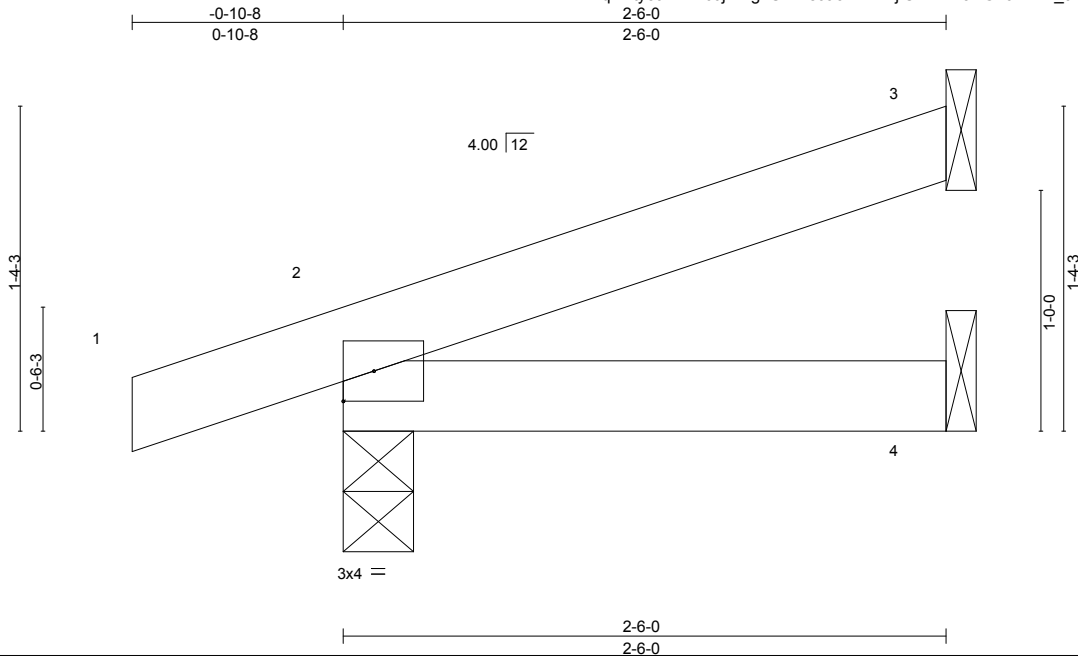


March 5, 2018

Job B0318-0848	Truss GJ4	Truss Type JACK-OPEN	Qty 2	Ply 1	Wayfare A	E11515008
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:45 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-HnHYjfSxAWE3EGLcEBvT_9v7Y2Zizcmi8dDmoze?BW



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 2-4 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) -0.00 2-4 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) -0.00 3 n/a n/a	Weight: 9 lb	FT = 20%
	Code IRC2009/TPI2007		Wind(LL) 0.00 2 **** 240		

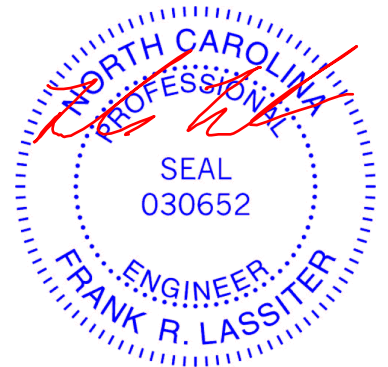
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=55/Mechanical, 2=167/0-3-8, 4=23/Mechanical
Max Horz 2=45(LC 5)
Max Uplift 3=28(LC 5), 2=-70(LC 5)
Max Grav 3=55(LC 1), 2=167(LC 1), 4=46(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=6.0psf; 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.
 - 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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 B0318-0848	Truss J1	Truss Type Jack-Open	Qty 30	Ply 1	Wayfare A	E11515009
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Comtech, Inc., Fayetteville, NC 28309

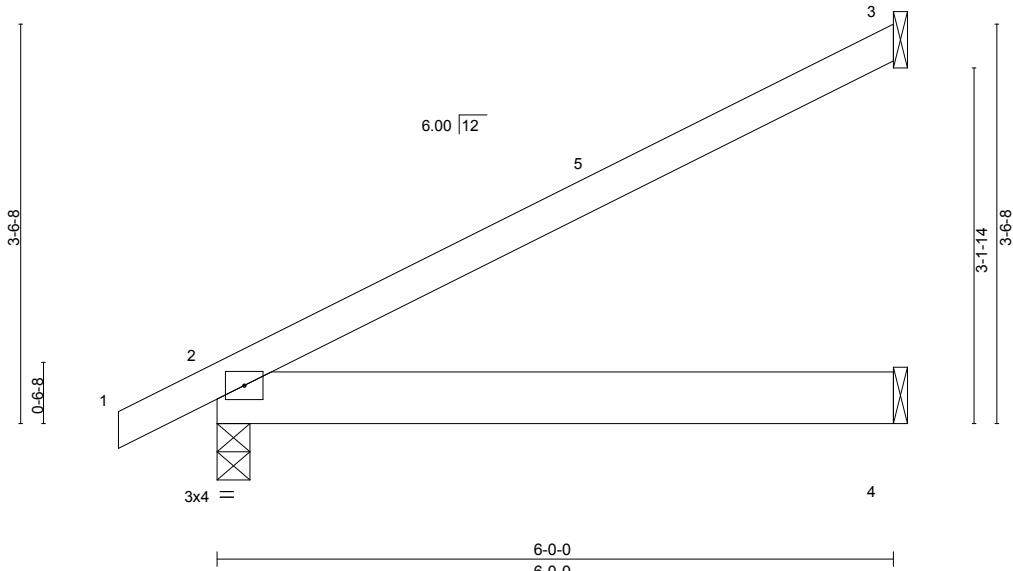
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:46 2018 Page 1

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Job Reference (optional)



Scale = 1:20.4



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 0.57	Vert(LL) -0.02	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.13	Vert(TL) -0.04	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: 26 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=168/Mechanical, 2=298/0-3-8, 4=58/Mechanical
Max Horz 2=139(LC 7)
Max Uplift 3=-106(LC 7), 2=-66(LC 7)
Max Grav 3=168(LC 1), 2=298(LC 1), 4=116(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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=106.



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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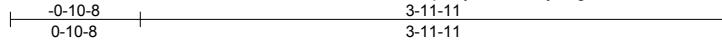
818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss J2	Truss Type JACK-OPEN	Qty 4	Ply 1	Wayfare A	E11515010
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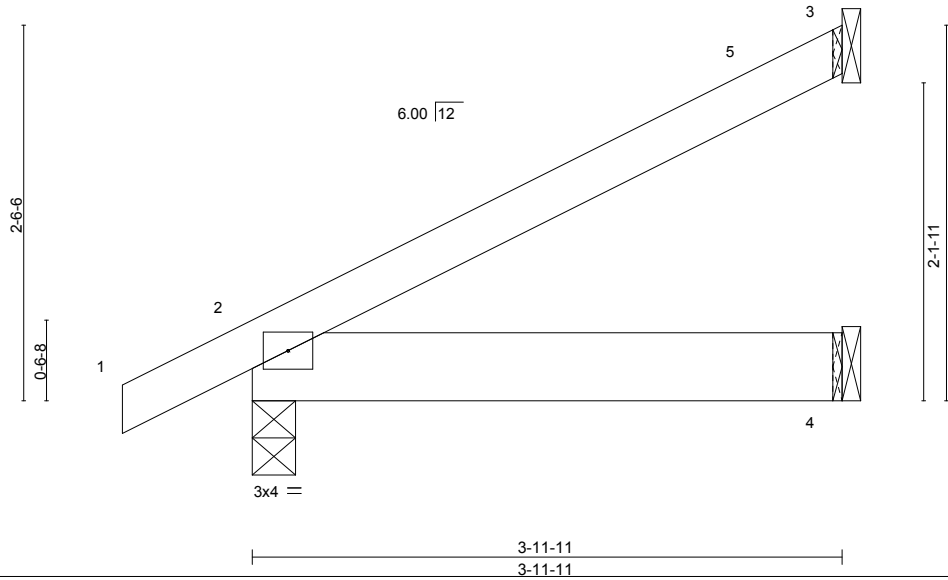
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:46 2018 Page 1

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Scale = 1:15.5



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

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

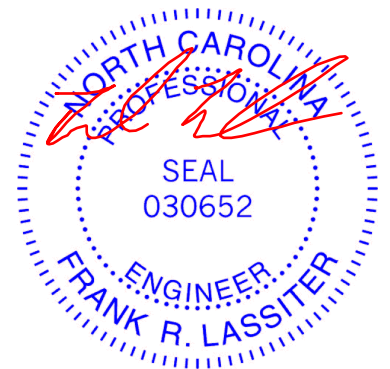
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=105/Mechanical, 2=220/0-3-8, 4=38/Mechanical
Max Horz 2=99(LC 7)
Max Uplift 3=66(LC 7), 2=63(LC 7)
Max Grav 3=105(LC 1), 2=220(LC 1), 4=75(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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-10-15 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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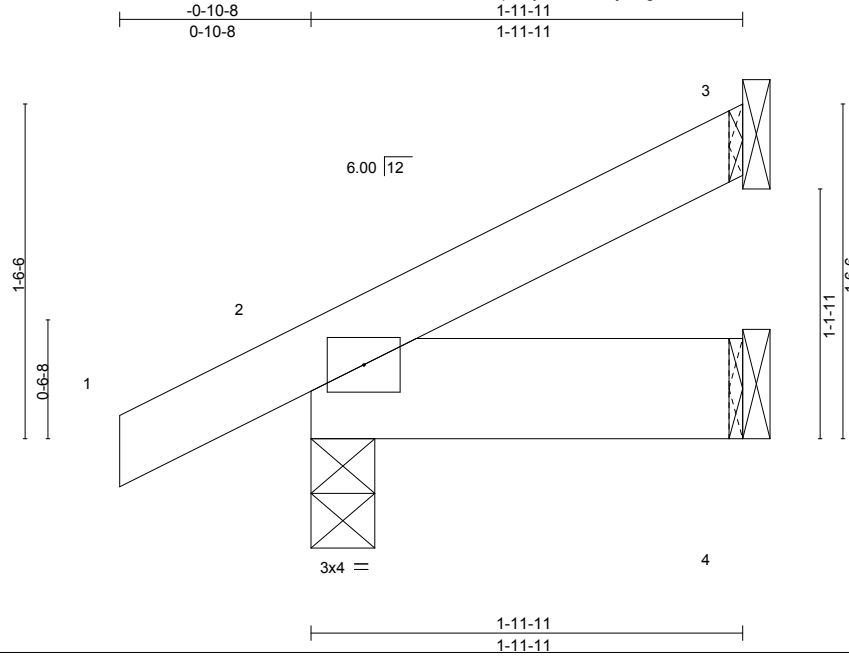


818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss J3	Truss Type JACK-OPEN	Qty 4	Ply 1	Wayfare A	E11515011
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:47 2018 Page 1
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Scale = 1:10.5

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(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: 10 lb	FT = 20%

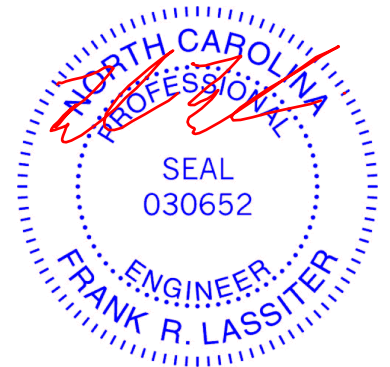
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1

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 7)
Max Uplift 3=27(LC 7), 2=58(LC 7)
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=6.0psf; 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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818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss M1	Truss Type GABLE	Qty 2	Ply 1	Wayfare A	E11515012
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:47 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-DAPJ8LUBi8UnTZV?Lcyx3a_JGLgxAt63AS6Krhze?BU



Scale: 3/4"=1'

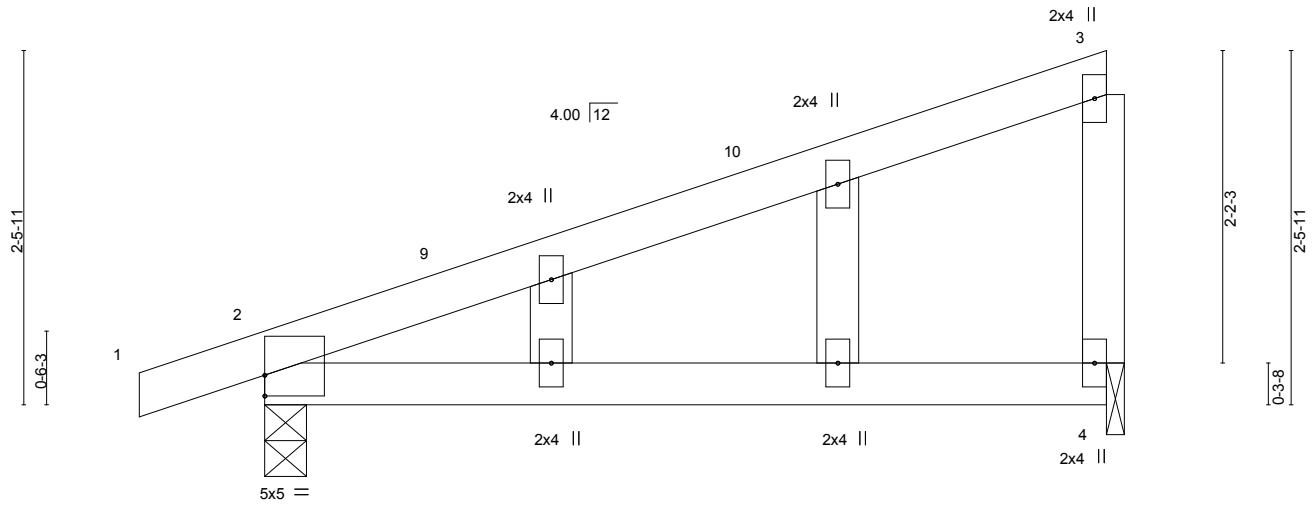


Plate Offsets (X,Y)-- [2:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.06	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(TL) -0.14	2-4	>492	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=295/0-3-8, 4=221/0-1-8
 Max Horz 2=127(LC 5)
 Max Uplift 2=142(LC 5), 4=107(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=164/349

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-9-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 4=107.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 5, 2018

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818 Soundside Road
 Edenton, NC 27932

Job B0318-0848	Truss M2	Truss Type MONOPITCH	Qty 4	Ply 1	Wayfare A	E11515013
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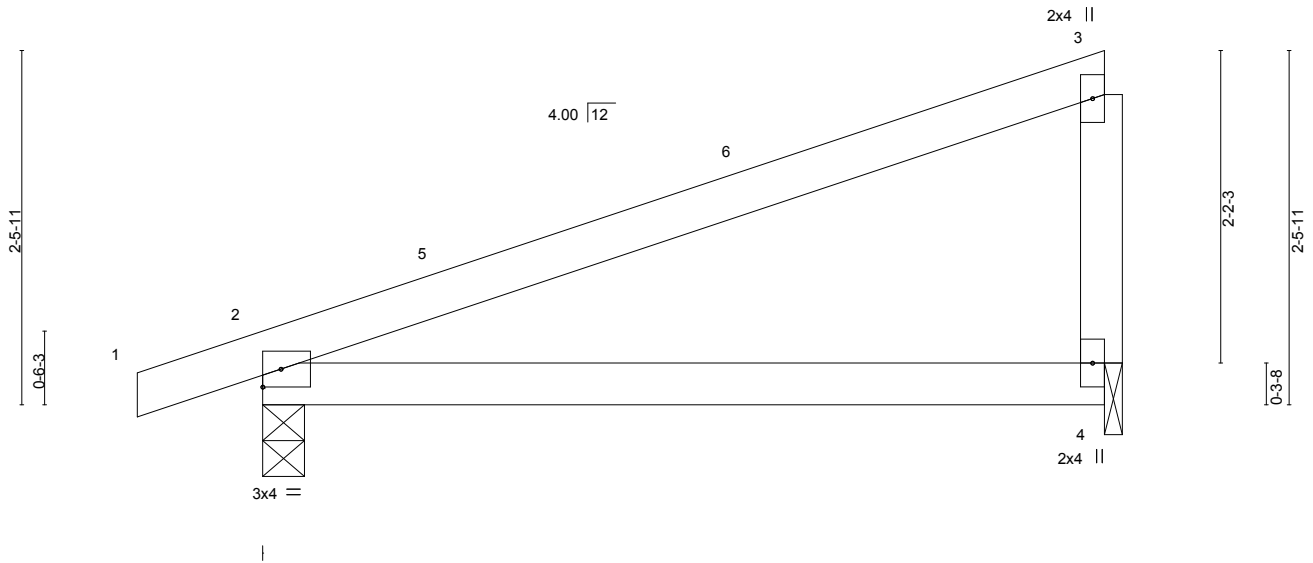
Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:48 2018 Page 1

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Scale: 3/4"=1'



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 0.45	Vert(LL) -0.06	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.38	Vert(TL) -0.14	2-4	>492	240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) 0.00	4	n/a	n/a			
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.15	2-4	>464	240		Weight: 22 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=295/0-3-8, 4=221/0-1-8
Max Horz 2=89(LC 5)
Max Uplift 2=168(LC 5), 4=140(LC 5)

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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-9-15 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=168, 4=140.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 5, 2018

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818 Soundside Road
Edenton, NC 27932

Job B0318-0848	Truss MP2	Truss Type Monopitch	Qty 4	Ply 1	Wayfare A	E11515015
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Comtech, Inc., Fayetteville, NC 28309

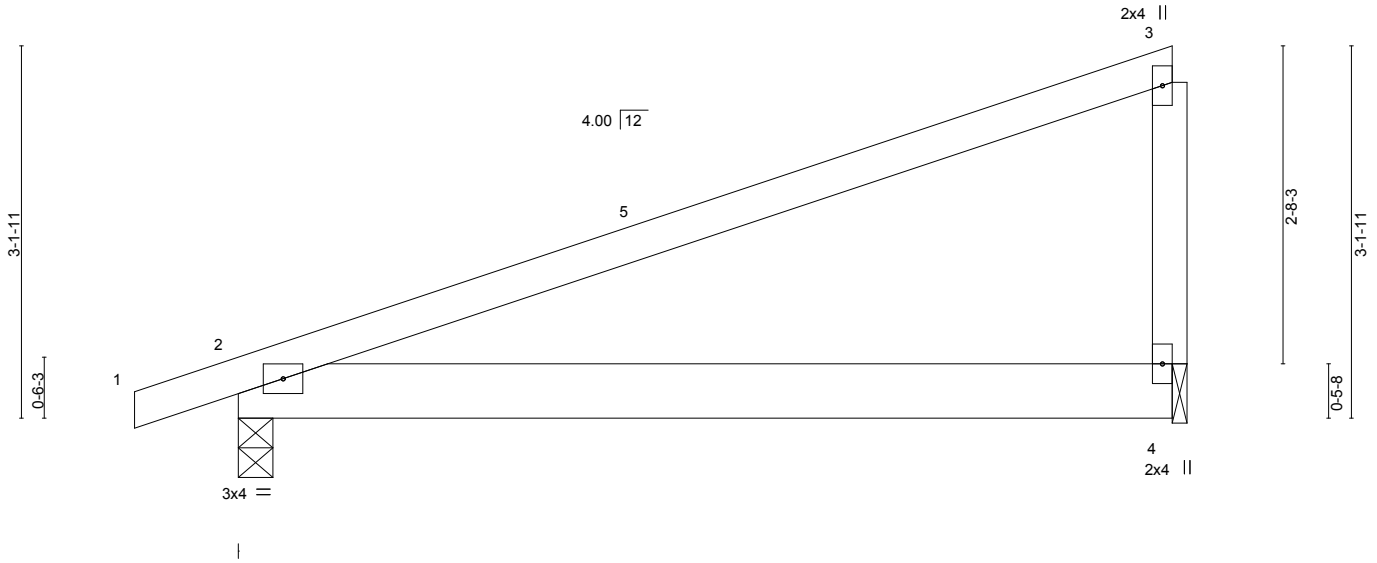
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 10:36:49 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-9YX3Z0VSEikVjteNT1_P8?3bo9LWencMdbmQwZze?BS

-0-10-8
0-10-8

8-0-0
8-0-0

Scale = 1:19.4



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 0.88	Vert(LL) -0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.30	Vert(TL) -0.12	2-4	>775	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.12	2-4	>743	240	Weight: 36 lb	FT = 20%

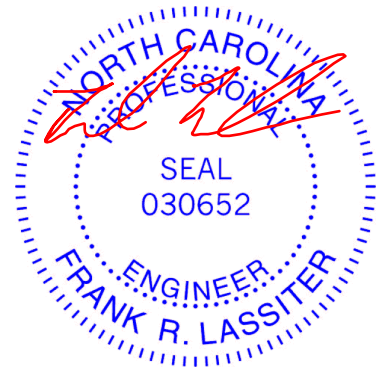
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 2=374/0-3-8, 4=303/0-1-8
Max Horz 2=116(LC 5)
Max Uplift 2=-209(LC 5), 4=-189(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-226/258

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-9-15 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 4=189.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 5, 2018

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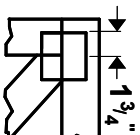
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ENGINEERING BY
TRENCO
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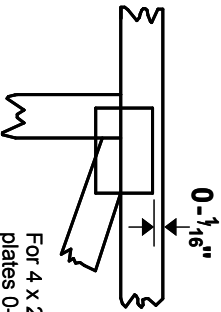
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

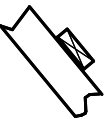
* Plate location details available in **MITek 2020 software** or upon request.

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



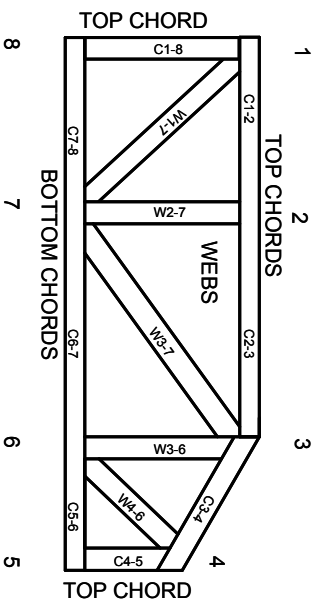
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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