

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0619-2695
Procraft / Erwin Job / Harnett

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: E13150390 thru E13150403

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

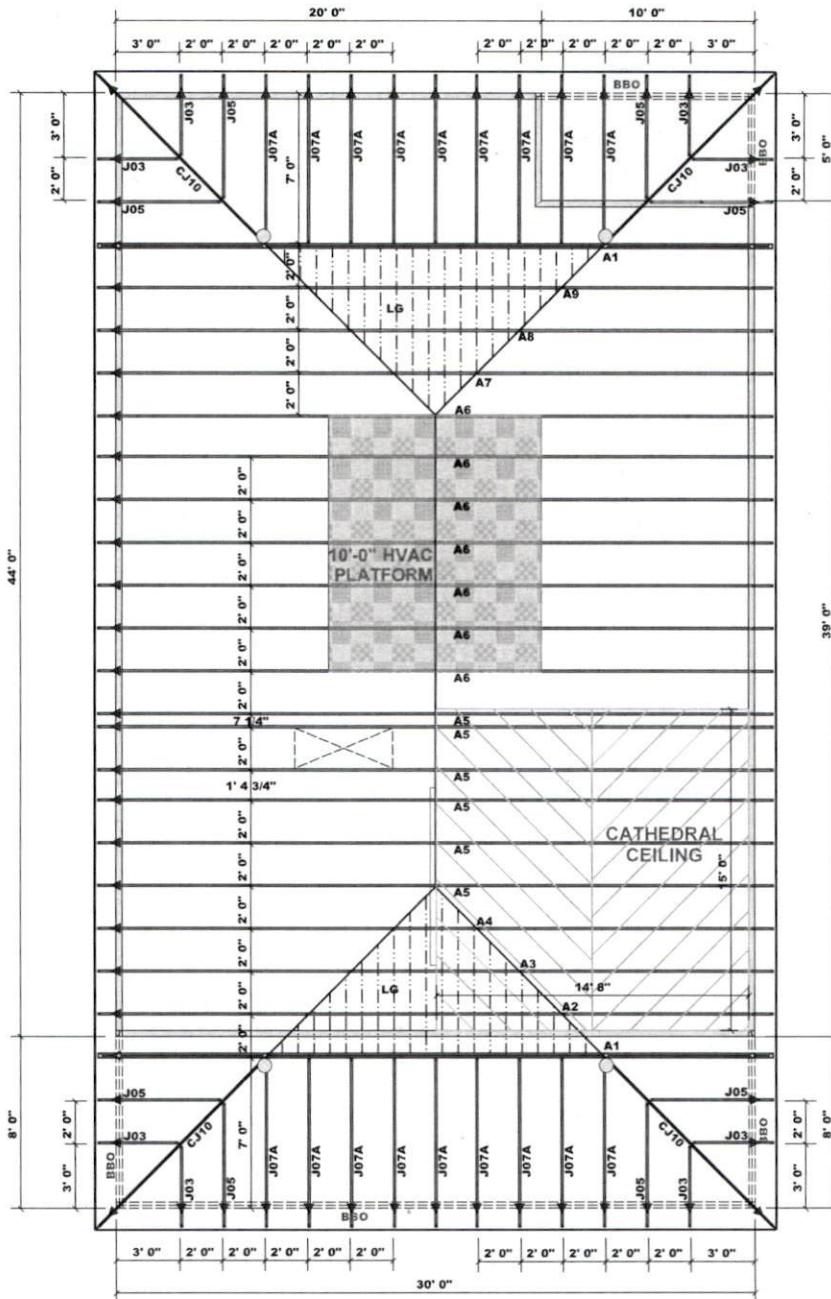
North Carolina COA: C-0844



June 11, 2019

Gilbert, Eric

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



Truss Placement Plan
SCALE: 1/4" = 1'-0"

○ = USP (HJC26) Qty. (4)

▲ = Denotes Left End of Truss
 (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
 ○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Estimation			
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	1931.96
Roof Decking	1st Floor	Roof Decking	66 sheets

LOAD CHART FOR JAYC STUDS
BASED ON TABLE 10.10.1.1 OF THE IBC 2003

SPACING	2x4	2x6	2x8	2x10
1200	2500	3400	4300	5200
1600	1800	2400	3000	3600
2000	1400	1800	2200	2600
2400	1100	1400	1700	2000
2800	900	1100	1300	1500
3200	750	900	1100	1200
3600	650	750	900	1000
4000	580	650	750	850
4400	520	580	650	750
4800	470	520	580	650
5200	430	470	520	580
5600	390	430	470	520
6000	350	390	430	470

BUILDER	Pro Craft Homes, Inc.	CITY / CO.	Erwin / Harnett
JOB NAME	Erwin Job	ADDRESS	408 West Jay St.
PLAN	CHARLESTON	MODEL	ROOF
SEAL DATE	Seal Date	DATE REV.	/ /
QUOTE #	Quote #	DRAWN BY	Lenny Norris
JOB #	J0619-2695	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
 These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. The building designer is responsible for the design of the truss support structures including beams, columns, walls, and columns in the responsibility of the building designer. For general guidance regarding trussing, consult ICCES E-308 and E-308.1 provided with the truss delivery package or contact @ comtechtrusses.com

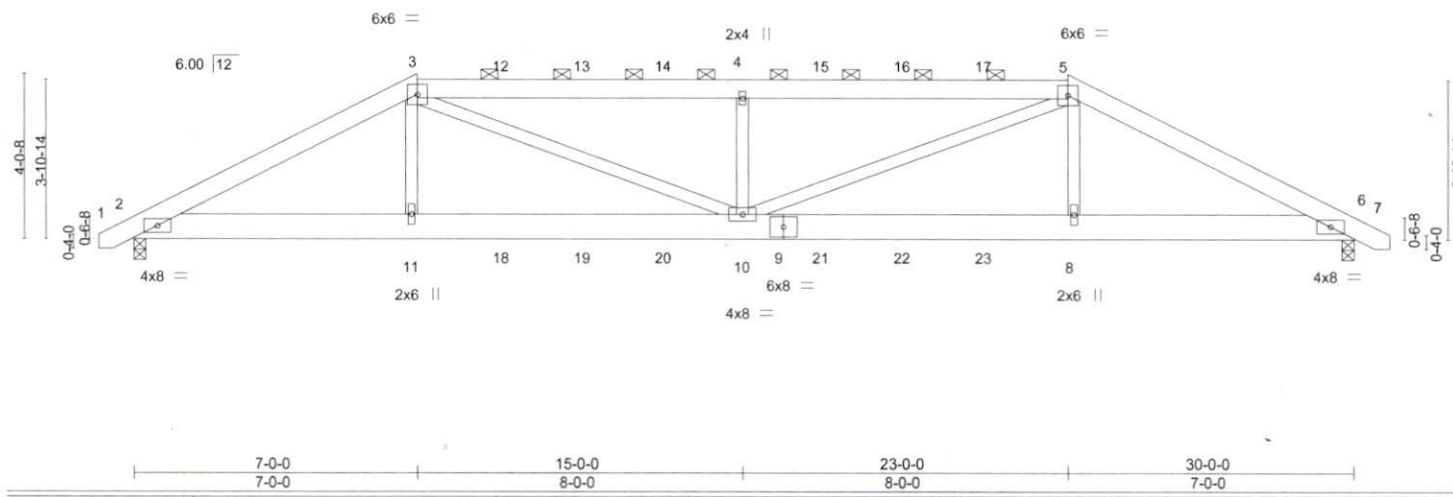
Beaming reactions less than or equal to 1000lb are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables 1 derived from the prescriptive Code requirements to determine the minimum foundation size and number of wood studs required to support reactions greater than 1000lb but not greater than 1500lb. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 1500lb.

Signature: Lenny Norris
 Lenny Norris

comtech
ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park
 Fayetteville, N.C. 28309
 Phone: (910) 864-8787
 Fax: (910) 864-4444

Job J0619-2695	Truss A1	Truss Type HIP GIRDER	Qty 2	Ply 2	Procraft / Erwin Job / Harnett	E13150390
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Comtech, Inc., Fayetteville, NC 28309
 8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Jun 11 09:35:06 2019 Page 1
 ID:QGGF7WH2_NBmUqfard_h0Nz7PfJ-xrssDOCIHjPCW6w4GTyOwmK6?OESxIdVbPqSWjz7OhZ



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) -0.11 10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.23 10 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.05 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.11 10 >999 240	Weight: 419 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1
 WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) 2=2522/0-3-8, 6=2522/0-3-8
 Max Horz 2=49(LC 7)
 Max Uplift 2=-437(LC 8), 6=-437(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5118/940, 3-4=-6282/1221, 4-5=-6282/1221, 5-6=-5118/940
 BOT CHORD 2-11=-823/4502, 10-11=-824/4469, 8-10=-783/4469, 6-8=-782/4502
 WEBS 3-11=0/889, 4-10=-1254/577, 5-8=0/889, 5-10=-450/2060, 3-10=-449/2060

- 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 0-9-0 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf, BC DL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 437 lb uplift at joint 2 and 437 lb uplift at joint 6.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 113 lb up at 7-0-0, 139 lb down and 113 lb up at 9-0-12, 139 lb down and 113 lb up at 11-0-12, 139 lb down and 113 lb up at 13-0-12, 139 lb down and 113 lb up at 15-0-0, 139 lb down and 113 lb up at 16-11-4, 139 lb down and 113 lb up at 18-11-4, and 139 lb down and 113 lb up at 20-11-4, and 158 lb down and 113 lb up at 23-0-0 on top chord, and 489 lb down and 118 lb up at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-0, 96 lb down at 16-11-4, 96 lb down at 18-11-4, and 96 lb down at 20-11-4, and 489 lb down and 118 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



Job J0619-2695	Truss A1	Truss Type HIP GIRDER	Qty 2	Ply 2	Procraft / Erwin Job / Harnett Job Reference (optional)	E13150390
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Jun 11 09:35:07 2019 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-139(B) 5=-139(B) 11=-489(B) 4=-139(B) 10=-48(B) 8=-489(B) 12=-139(B) 13=-139(B) 14=-139(B) 15=-139(B) 16=-139(B) 17=-139(B) 18=-48(B)
19=-48(B) 20=-48(B) 21=-48(B) 22=-48(B) 23=-48(B)

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

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J0619-2695	Truss A2	Truss Type HIP	Qty 1	Ply 1	Procraft / Erwin Job / Harnett	E13150391
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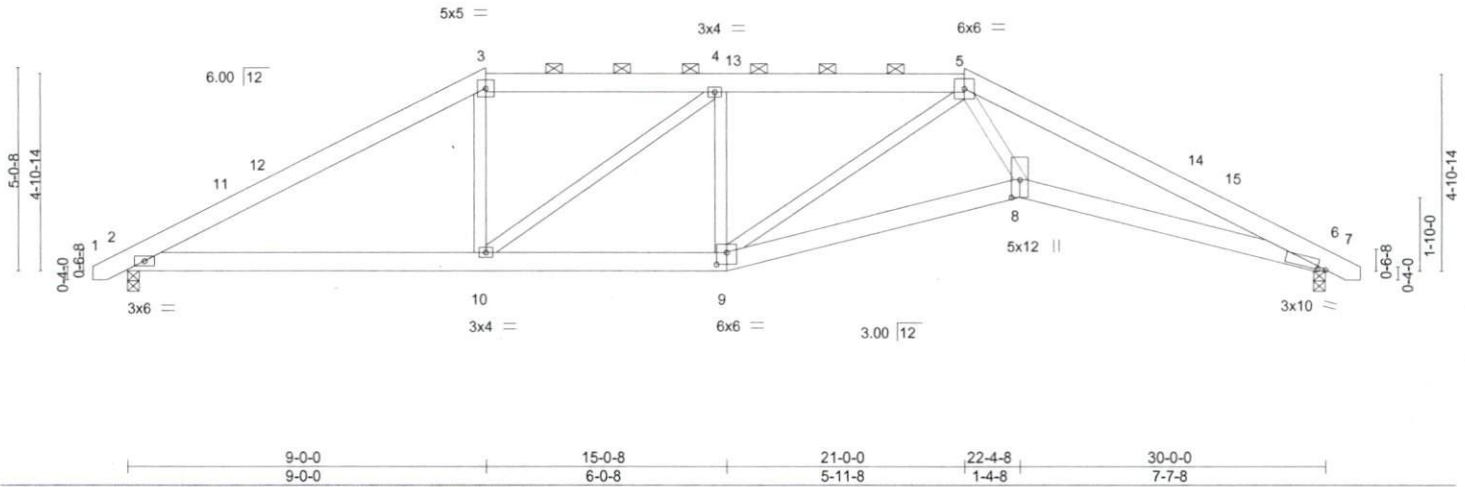
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Jun 11 09:35:07 2019 Page 1

ID:QGGF7WH2_NBmUqfard_h0Nz7PfJ-P2QEQkCV21X38GVGqATdT_sD7oXsggteq3a?2Az7OhY

-0-10-8	9-0-0	15-0-8	21-0-0	30-0-0	30-10-8
0-10-8	9-0-0	6-0-8	5-11-8	9-0-0	0-10-8

Scale = 1:55.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.14	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.30	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.15	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	8	>999		
								Weight: 189 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 3-2-8 oc purlins, except 2-0-0 oc purlins (5-5-3 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS.

(lb/size) 2=1239/0-3-8, 6=1239/0-3-8
 Max Horz 2=63(LC 11)
 Max Uplift 2=-48(LC 12), 6=-48(LC 13)

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

TOP CHORD 2-3=-2047/525, 3-4=-1707/558, 4-5=-2021/612, 5-6=-3827/859
 BOT CHORD 2-10=-343/1719, 9-10=-401/2024, 8-9=-547/2563, 6-8=-669/3419
 WEBS 3-10=0/512, 4-10=-530/123, 5-8=-246/1803, 5-9=-588/162

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 9-0-0, Exterior(2) 9-0-0 to 27-2-11, Interior(1) 27-2-11 to 30-8-6 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) Bearing at joint(s) 6 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 capable of withstanding 48 lb uplift at joint 2 and 48 lb uplift at joint 6.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Procraft / Erwin Job / Harnett	E13150392
J0619-2695	A3	HIP	1	1		

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 8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Jun 11 09:35:08 2019 Page 1
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 Job Reference (optional)

Scale = 1:55.3

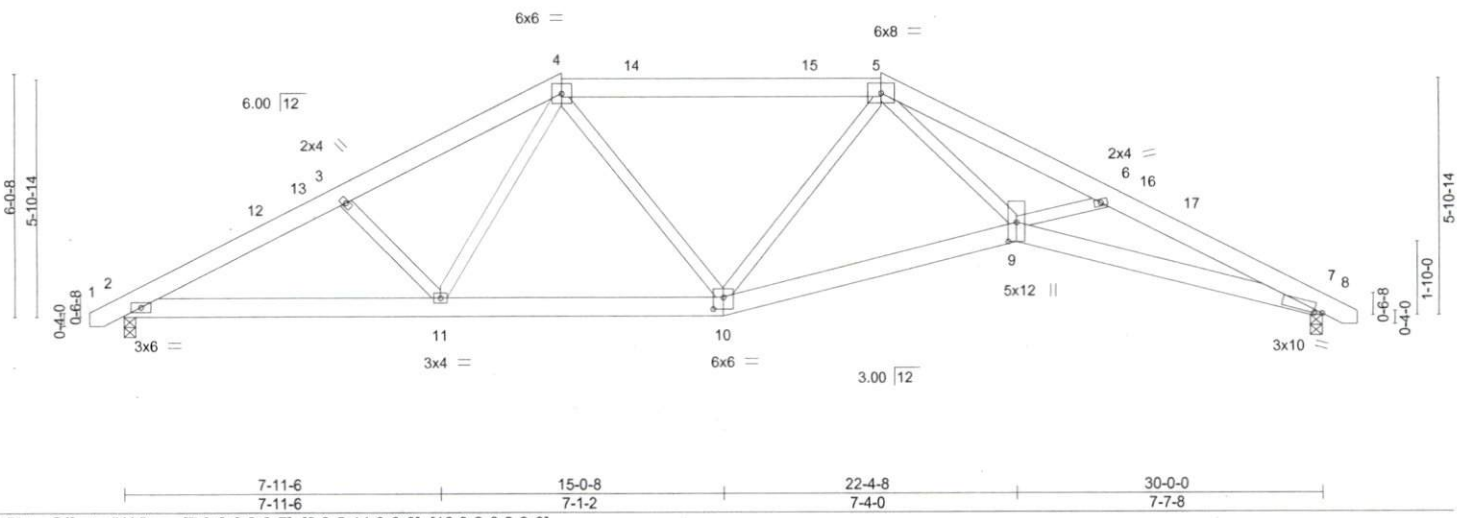


Plate Offsets (X,Y)-- [7:0-2-6,0-0-7], [9:0-5-11,0-2-8], [10:0-3-0,0-3-8]

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 0.33	Vert(LL)	-0.14	9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.29	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.15	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	9	>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 3-9-7 oc purlins, except 2-0-0 oc purlins (5-8-7 max.); 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-4-1 oc bracing: 7-9.

REACTIONS. (lb/size) 2=1239/0-3-8, 7=1239/0-3-8
 Max Horz 2=76(LC 11)
 Max Uplift 2=-62(LC 12), 7=-62(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2159/611, 3-4=-1959/579, 4-5=-1558/500, 5-6=-3591/910, 6-7=-3861/1057
 BOT CHORD 2-11=-476/1867, 10-11=-290/1506, 9-10=-375/1892, 7-9=-901/3455
 WEBS 5-9=-397/2008, 6-9=-182/254, 4-11=-71/431, 5-10=-502/190, 3-11=-256/223

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 11-0-0, Exterior(2) 11-0-0 to 25-2-11, Interior(1) 25-2-11 to 30-8-6 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) Bearing at joint(s) 7 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 capable of withstanding 62 lb uplift at joint 2 and 62 lb uplift at joint 7.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Procraft / Erwin Job / Harnett	E13150393
J0619-2695	A4	HIP	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Jun 11 09:35:09 2019 Page 1

ID:QGGF7WH2_NBmUqfard_h0Nz7PfJ-LQX_rQElaennNaffxvV5YPyczcDg8WfxIN367z70hW

-0-10-8	6-6-14	13-0-0	15-0-8	17-0-0	22-4-8	23-5-12	30-0-0	30-10-8
0-10-8	6-6-14	6-5-2	2-0-8	1-11-8	5-4-8	1-1-4	6-6-4	0-10-8

Scale = 1:55.3

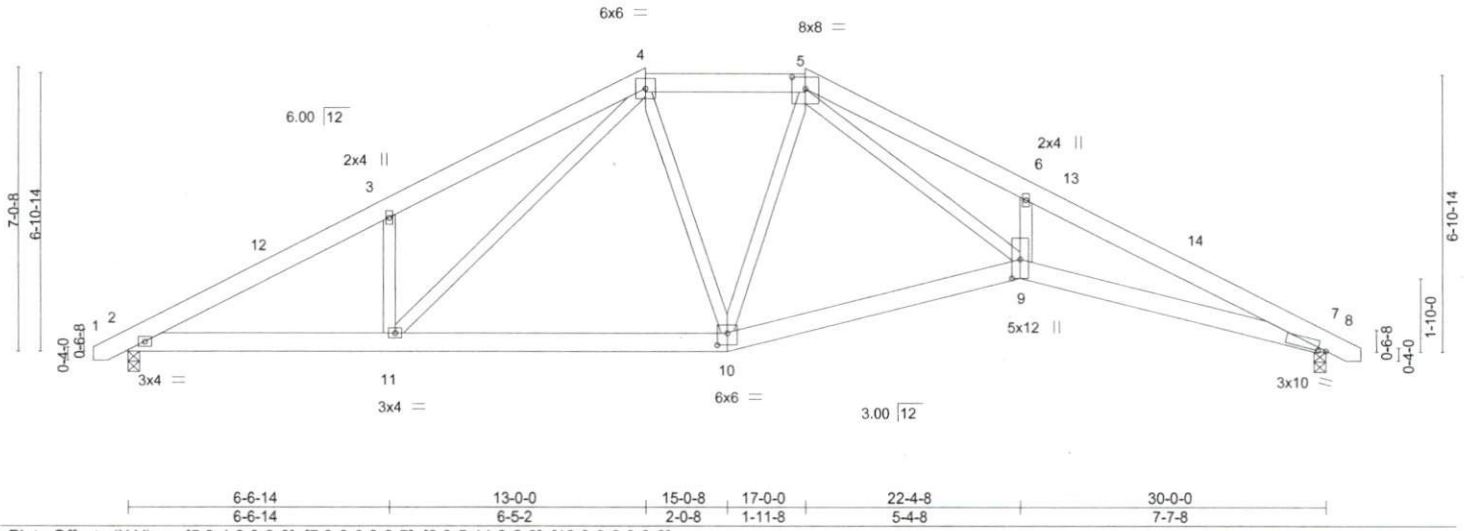


Plate Offsets (X,Y)-- [5.0-4.0,0-3-8], [7.0-2.6,0-0-7], [9.0-5.11,0-2-8], [10.0-3.0,0-3-8]

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 0.38	Vert(LL)	-0.17	9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.34	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.16	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13	9	>999	Weight: 203 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 3-6-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 4-5.
 BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.

REACTIONS.

(lb/size) 2=1239/0-3-8, 7=1239/0-3-8
 Max Horz 2=-89(LC 10)
 Max Uplift 2=-74(LC 12), 7=-74(LC 13)

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

TOP CHORD 2-3=-2177/534, 3-4=-2164/701, 4-5=-1375/473, 5-6=-3701/1035, 6-7=-3801/890
 BOT CHORD 2-11=-400/1860, 10-11=-211/1339, 9-10=-237/1508, 7-9=-727/3392
 WEBS 3-11=-373/296, 6-9=-254/262, 5-9=-619/2377, 5-10=-354/145, 4-11=-269/756

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 13-0-0, Exterior(2) 13-0-0 to 17-0-0, Interior(1) 23-2-11 to 30-8-6 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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 74 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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