

RE: J1120-5314
 Watermark/Lot 60 South Creek/Harnett

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J1120-5314
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

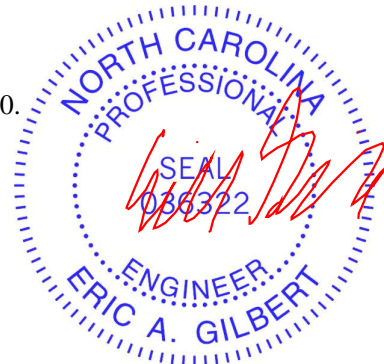
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 39 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E14233982	A1	11/12/2020	21	E14234002	CJ11	11/12/2020
2	E14233983	A1A	11/12/2020	22	E14234003	D1GDR	11/12/2020
3	E14233984	A2	11/12/2020	23	E14234004	D2	11/12/2020
4	E14233985	A3	11/12/2020	24	E14234005	D3	11/12/2020
5	E14233986	A4	11/12/2020	25	E14234006	D4	11/12/2020
6	E14233987	A5	11/12/2020	26	E14234007	E1	11/12/2020
7	E14233988	A6	11/12/2020	27	E14234008	E1GE	11/12/2020
8	E14233989	A7	11/12/2020	28	E14234009	G1GE	11/12/2020
9	E14233990	A8GDR	11/12/2020	29	E14234010	J02	11/12/2020
10	E14233991	B1GDR	11/12/2020	30	E14234011	J02A	11/12/2020
11	E14233992	B2	11/12/2020	31	E14234012	J04	11/12/2020
12	E14233993	B3	11/12/2020	32	E14234013	J04A	11/12/2020
13	E14233994	B4	11/12/2020	33	E14234014	J06	11/12/2020
14	E14233995	B5	11/12/2020	34	E14234015	J06A	11/12/2020
15	E14233996	B6	11/12/2020	35	E14234016	J06GDR	11/12/2020
16	E14233997	C1	11/12/2020	36	E14234017	J08	11/12/2020
17	E14233998	C1GE	11/12/2020	37	E14234018	LG1	11/12/2020
18	E14233999	C2	11/12/2020	38	E14234019	LG2	11/12/2020
19	E14234000	C3	11/12/2020	39	E14234020	LG3	11/12/2020
20	E14234001	CJ08	11/12/2020				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville. Truss Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Carolina is December 31, 2020. North Carolina COA: C-0844



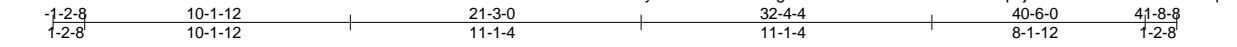
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

November 12, 2020

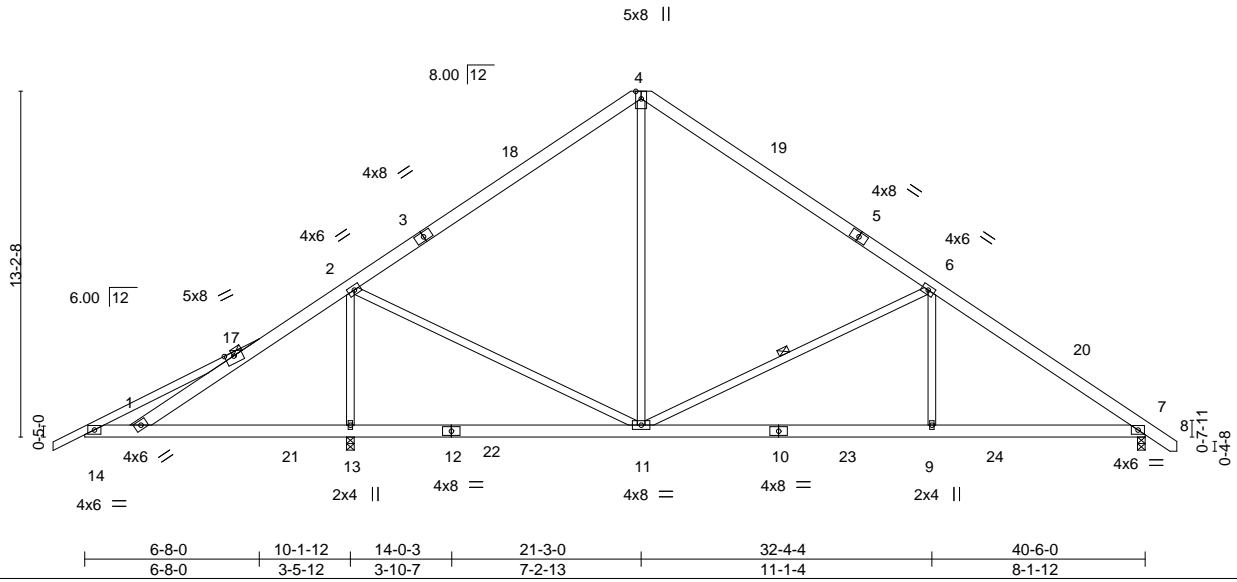
Job J1120-5314	Truss A1	Truss Type ROOF SPECIAL	Qty 6	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233982
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:25 2020 Page 1
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Scale = 1:88.0



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.07 9-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.16 9-11 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.02 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.03 11-13 >999 240	Weight: 289 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 15-16: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins. Except: 10-0-0 oc bracing: 1-2
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-11

REACTIONS. (size) 7=0-3-8, 13=0-3-8
Max Horz 13=-320(LC 10)
Max Uplift 7=-98(LC 13), 13=-83(LC 12)
Max Grav 7=1249(LC 20), 13=2004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-354/644, 2-4=-877/218, 4-6=-864/231, 6-7=-1744/254
BOT CHORD 1-13=-404/368, 11-13=-542/386, 9-11=-63/1339, 7-9=-63/1339
WEBS 2-11=-165/1083, 4-11=-9/336, 6-11=-1022/337, 2-13=-1773/660, 6-9=0/416

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 1-9-9 to 6-2-6, Interior(1) 6-2-6 to 21-3-0, Exterior(2) 21-3-0 to 25-7-13, Interior(1) 25-7-13 to 41-6-15 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 7 and 83 lb uplift at joint 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

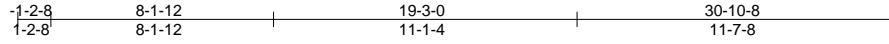


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Job J1120-5314	Truss A1A	Truss Type COMMON	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett E14233983
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:26 2020 Page 1
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5x8 M18SHS =

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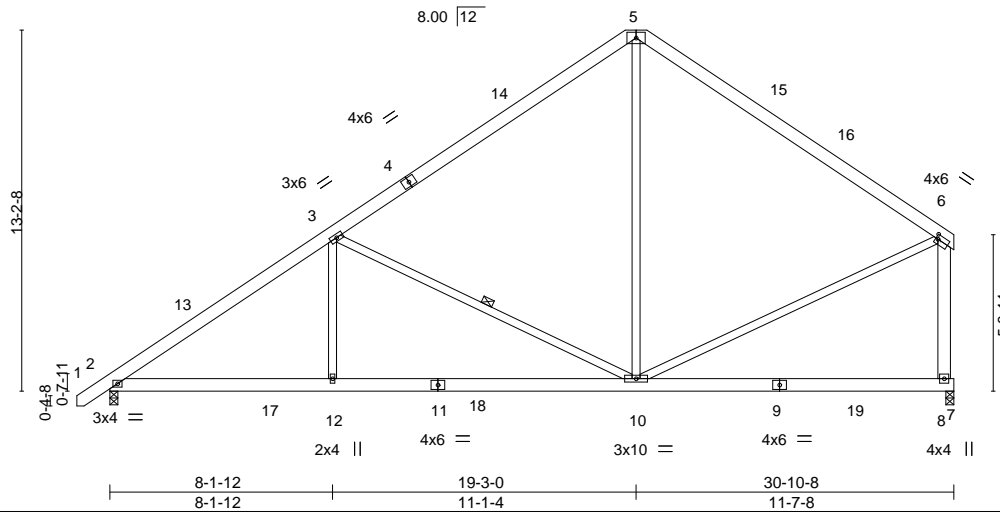


Plate Offsets (X,Y)-- [6:0-1-0,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.08	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.16	8-10	>999	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.03	12	>999		
								Weight: 237 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=314(LC 9)
Max Uplift 2=-80(LC 12), 8=-59(LC 12)
Max Grav 2=1342(LC 19), 8=1257(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1903/320, 3-5=-1049/305, 5-6=-1041/298, 6-8=-1107/319
BOT CHORD 2-12=-353/1667, 10-12=-353/1667
WEBS 3-12=0/410, 3-10=-1006/322, 5-10=0/507, 6-10=-31/771

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 19-3-0, Exterior(2) 19-3-0 to 23-7-13, Interior(1) 23-7-13 to 30-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 80 lb uplift at joint 2 and 59 lb uplift at joint 8.



March 27, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



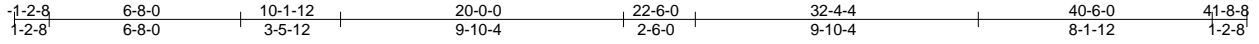
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss A2	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett	E14233984
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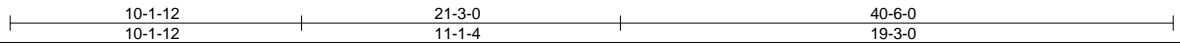
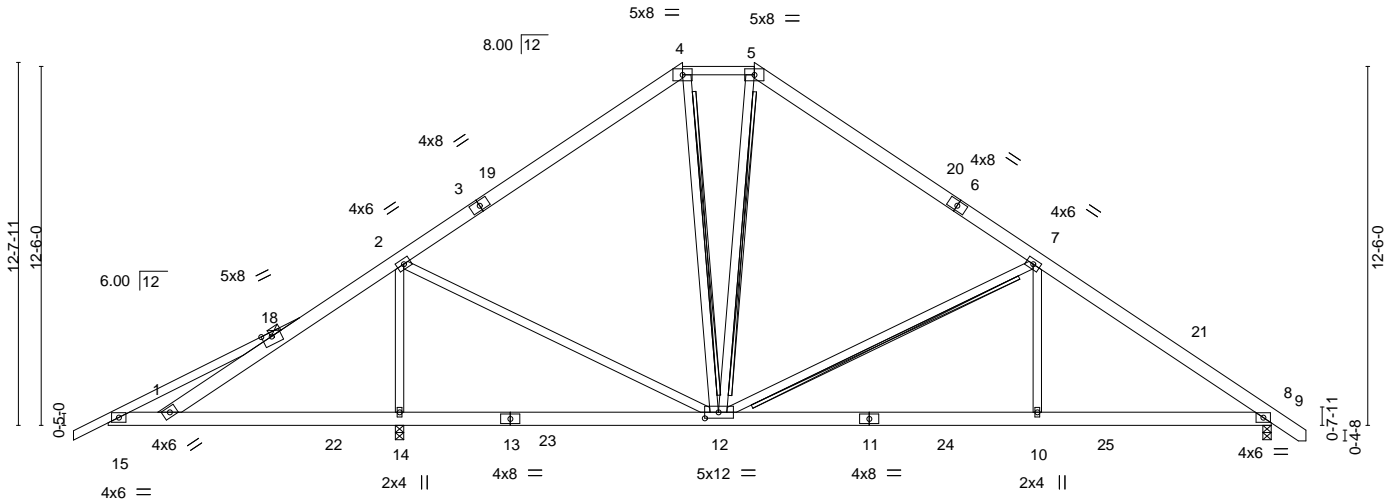


Plate Offsets (X,Y)-- [12:0-5-12,0-2-8]

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 0.55	Vert(LL)	-0.07	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.15	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.03	12-14	>999		
								Weight: 303 lb	FT = 20%

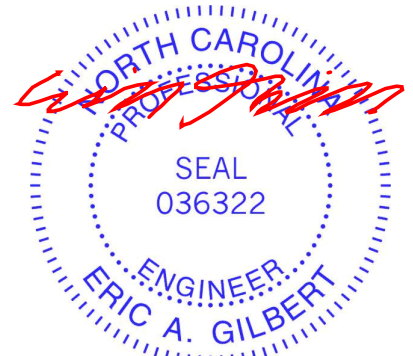
LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 16-17,4-5: 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 14=0-3-8, 8=0-3-8
 Max Horz 14=-300(LC 8)
 Max Uplift 14=-78(LC 12), 8=-97(LC 13)
 Max Grav 14=2004(LC 1), 8=1238(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-357/653, 2-4=-860/236, 4-5=-751/283, 5-7=-858/247, 7-8=-1715/272
 BOT CHORD 1-14=-416/373, 12-14=-529/400, 10-12=-84/1309, 8-10=-84/1309
 WEBS 2-14=-1771/682, 2-12=-199/1068, 7-12=-982/333, 7-10=0/416

- 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) 1-9-9 to 6-2-6, Interior(1) 6-2-6 to 20-0-0, Exterior(2) 20-0-0 to 28-8-11, Interior(1) 28-8-11 to 41-6-15 zone; cantilever left exposed ;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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 14 and 97 lb uplift at joint 8.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 27, 2020

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss A4	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233986
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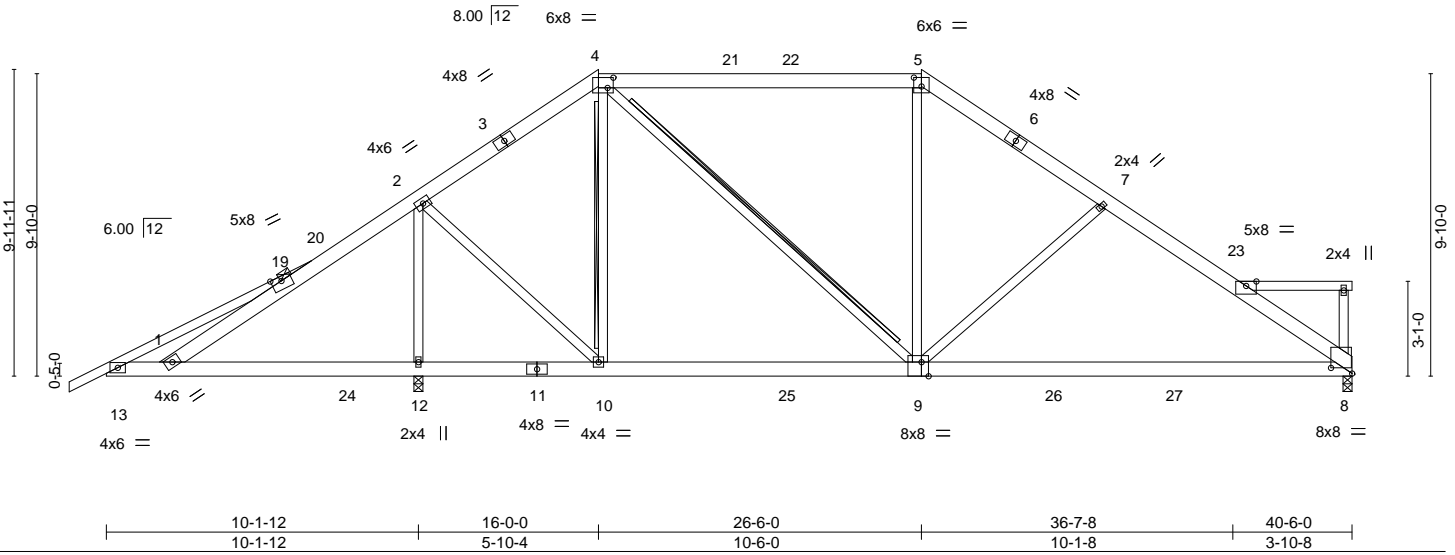


Plate Offsets (X,Y)-- [4:0-2-4,0-4-0], [5:0-3-0,0-3-7], [8:0-8-4,0-2-3], [9:0-2-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.19	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.41	8-9	>887		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	8-9	>999		
								Weight: 298 lb	FT = 20%

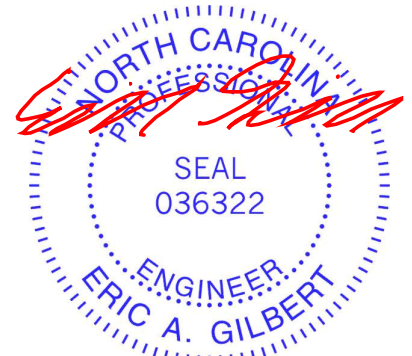
LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
 14-15,17-18: 2x4 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
 8-9: 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 4-5. Except:
 10-0-0 oc bracing: 1-2
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-10, 4-9
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 12=0-3-8, 8=0-3-8
 Max Horz 12=226(LC 11)
 Max Uplift 12=-54(LC 12), 8=-68(LC 13)
 Max Grav 12=2006(LC 1), 8=1146(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-355/695, 2-4=-613/162, 4-5=-944/314, 5-7=-1219/315, 7-8=-1521/338
BOT CHORD 1-12=-474/383, 10-12=-527/391, 9-10=-101/487, 8-9=-149/1179
WEBS 2-12=-1801/640, 2-10=-247/1156, 4-10=-666/305, 4-9=-205/714, 5-9=0/288, 7-9=-484/284

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 1-9-9 to 6-2-6, Interior(1) 6-2-6 to 16-0-0, Exterior(2) 16-0-0 to 22-2-11, Interior(1) 22-2-11 to 26-6-0, Exterior(2) 26-6-0 to 32-6-7, Interior(1) 32-6-7 to 40-4-4 zone; cantilever left exposed ;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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 12 and 68 lb uplift at joint 8.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 27, 2020

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818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss A5	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233987
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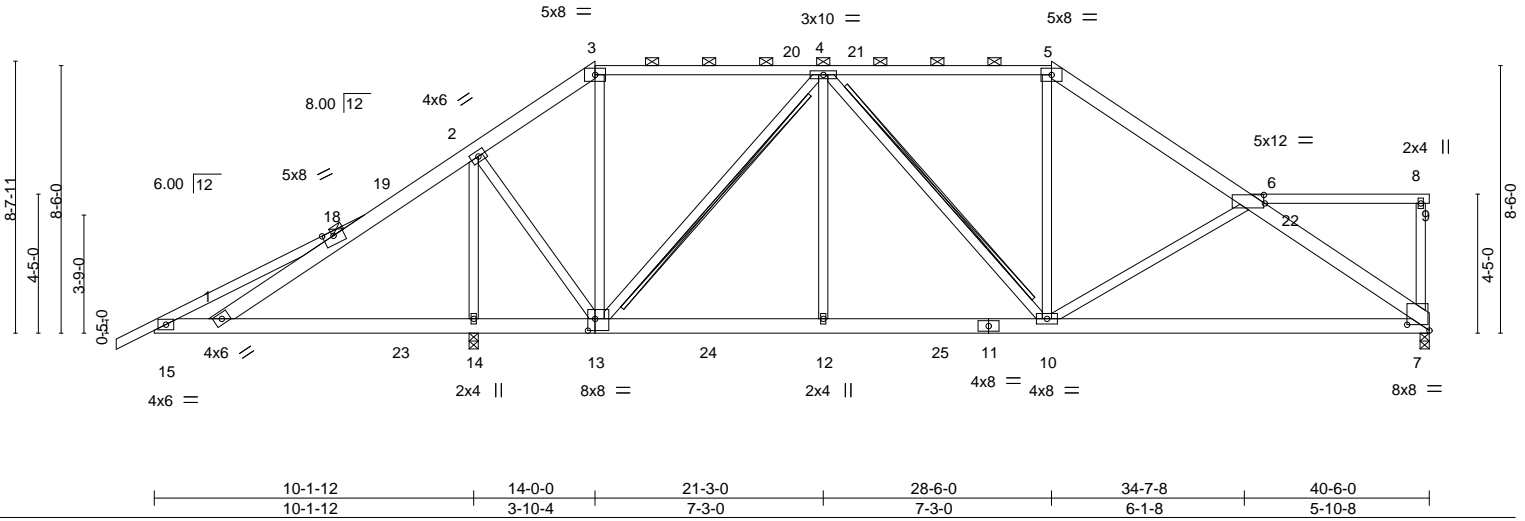
Comtech, Inc., Fayetteville, NC - 28314,

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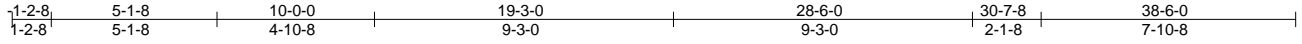
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Job J1120-5314	Truss A6	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233988
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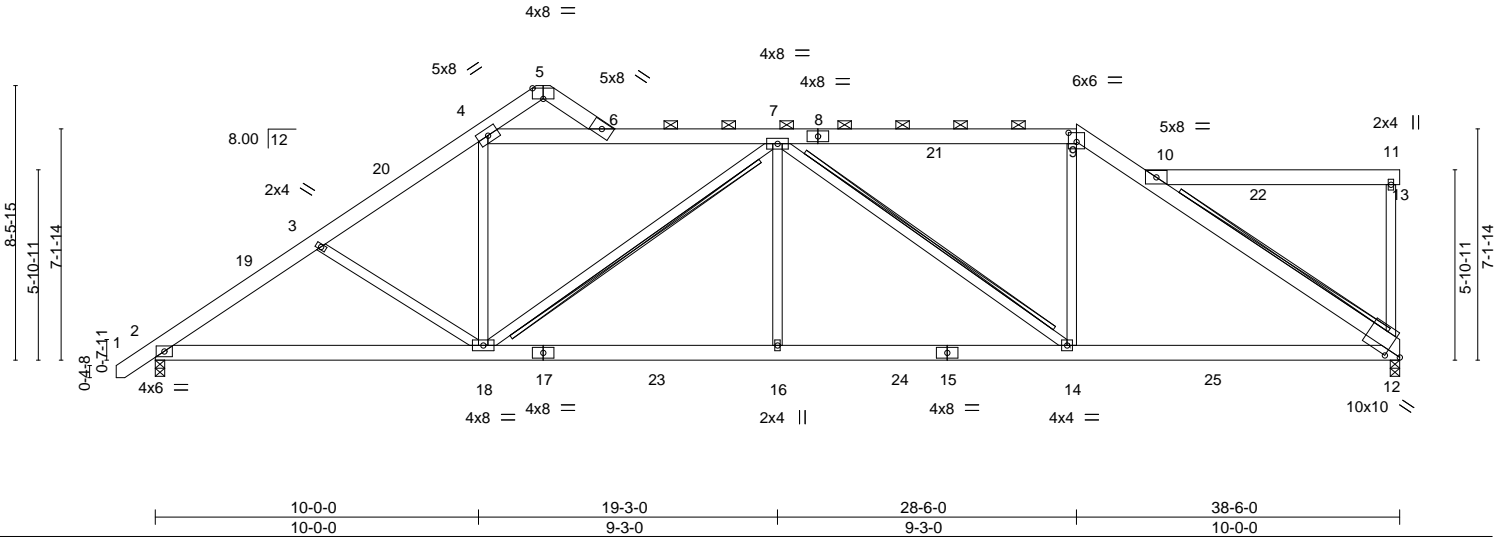


Plate Offsets (X,Y)-- [5:0-4-0,Edge], [9:0-3-0,0-3-6], [12:0-5-0,0-2-7]

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 0.82	Vert(LL)	-0.10	16-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.19	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.07	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	16	>999		
								Weight: 299 lb	FT = 20%

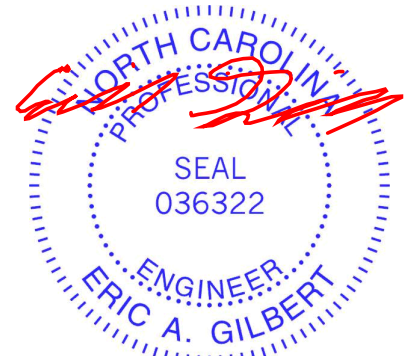
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-12 max.): 4-9, 10-12, 10-13. Except:
 T-Brace: 2x4 SPF No.2 - 10-12
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 7-18, 7-14
 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=224(LC 12)
 Max Uplift 2=-54(LC 12), 12=-148(LC 13)
 Max Grav 2=1598(LC 1), 12=1554(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2310/502, 3-4=-2123/479, 4-6=-1706/479, 6-7=-1786/479, 7-9=-1792/444, 9-10=-2038/438, 10-12=-2121/481
 BOT CHORD 2-18=-554/1917, 16-18=-539/2338, 14-16=-539/2338, 12-14=-399/1781
 WEBS 4-18=-36/703, 7-18=-839/137, 7-16=0/412, 7-14=-703/177, 9-14=0/711

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-0-0, Exterior(2) 12-0-0 to 14-1-14, Interior(1) 14-1-14 to 28-6-0, Exterior(2) 28-6-0 to 30-6-11, Interior(1) 30-6-11 to 38-6-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 148 lb uplift at joint 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 27, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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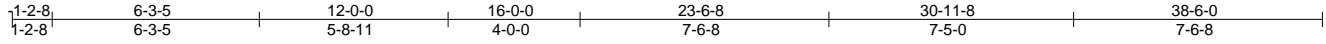


818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss A7	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233989
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:32 2020 Page 1
ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-MNfAa7SxVzCjarAhC9dRvF08ml_zum7snRUcULzX0Vb



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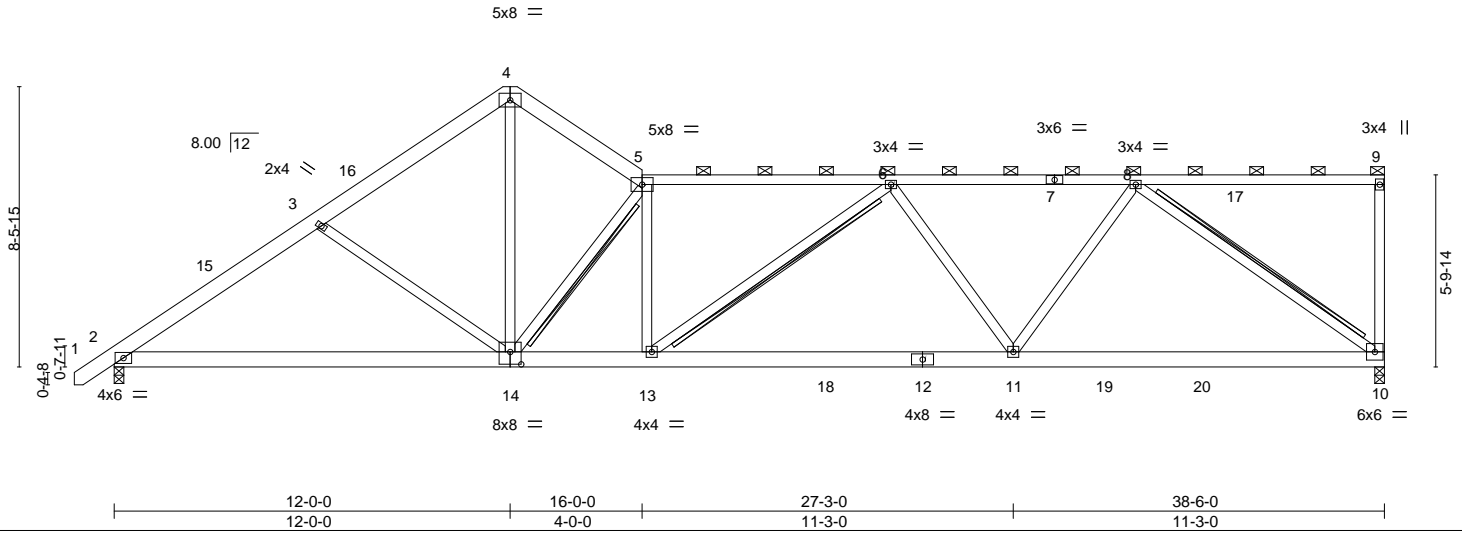


Plate Offsets (X,Y)-- [14:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.15	2-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.34	11-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.07	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	11-13	>999		
								Weight: 263 lb	FT = 20%

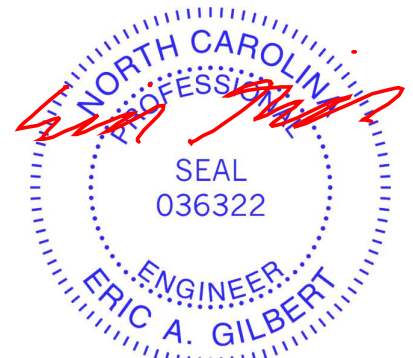
LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 7-9,5-7: 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-9.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 5-14, 6-13, 8-10
 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 10=0-3-8, 2=0-3-8
 Max Horz 2=225(LC 12)
 Max Uplift 10=-144(LC 13), 2=-54(LC 12)
 Max Grav 10=1527(LC 1), 2=1603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2283/498, 3-4=-1995/460, 4-5=-1960/485, 5-6=-2628/592, 6-8=-2232/452
 BOT CHORD 2-14=-537/1815, 13-14=-594/2626, 11-13=-599/2580, 10-11=-412/1710
 WEBS 3-14=-404/238, 4-14=-368/1821, 5-14=-1785/433, 6-11=-619/261, 8-11=-72/960, 8-10=-2090/502

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-0-0, Exterior(2) 12-0-0 to 16-0-0, Interior(1) 16-0-0 to 38-4-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 10 and 54 lb uplift at joint 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 27, 2020

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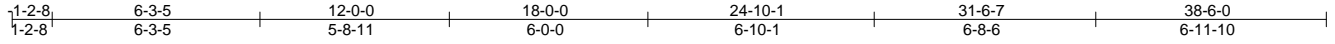


818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss A8GDR	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Watermark/Lot 60 South Creek/Harnett E14233990
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:34 2020 Page 1
ID:ySiDz4EI9mCCTg2SwIEGVzuS51-lmnw?pTC0aSRq8J4Kagv_g5ft6fWMhf8FizjYDzX0VZ



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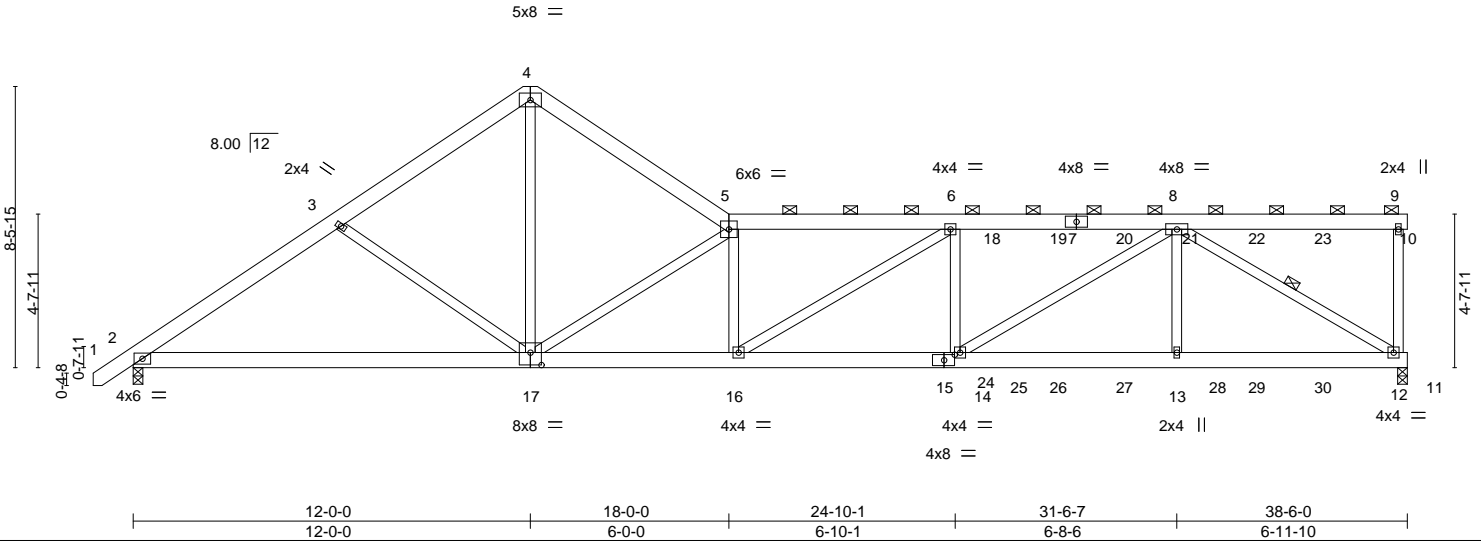


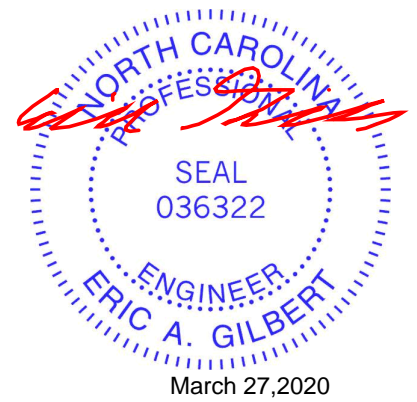
Plate Offsets (X,Y)--	[15:0-3-13,0-2-0], [17:0-4-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.17 14-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.35 14-16 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.87	Horz(CT) 0.08 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 14-16 >999 240		
				Weight: 559 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-10.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-12

REACTIONS. (size) 12=0-3-8, 2=0-3-8
Max Horz 2=201(LC 5)
Max Uplift 12=-603(LC 9), 2=-199(LC 8)
Max Grav 12=3128(LC 1), 2=2196(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3302/384, 3-4=-3032/398, 4-5=-2997/369, 5-6=-6073/808, 6-8=-6636/1009, 9-12=-389/218
BOT CHORD 2-17=-383/2643, 16-17=-806/6054, 14-16=-1009/6636, 13-14=-742/4165, 12-13=-742/4165
WEBS 3-17=-350/232, 4-17=-310/2866, 5-17=-4395/702, 5-16=-230/604, 6-16=-862/545, 6-14=-440/373, 8-14=-314/2913, 8-13=0/516, 8-12=-4856/864

- 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 0-8-0 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; BCDL=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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 603 lb uplift at joint 12 and 199 lb uplift at joint 2.
 - 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) 144 lb down and 119 lb up at 25-11-4, 144 lb down and 119 lb up at 27-11-4, 144 lb down and 119 lb up at 29-11-4, 144 lb down and 119 lb up at 31-11-4, 144 lb down and 119 lb up at 33-11-4, and 144 lb down and 119 lb up at 35-11-4, and 149 lb down and 115 lb up at 38-2-12 on top chord, and 1176 lb down and 157 lb up at 24-1-8, 76 lb down at 25-11-4, 76 lb down at 27-11-4, 76 lb down at 29-11-4, 76 lb down at 31-11-4, 76 lb down at 33-11-4, and 76 lb down at 35-11-4, and 85 lb down at 37-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss A8GDR	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Watermark/Lot 60 South Creek/Harnett E14233990 Job Reference (optional)
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:34 2020 Page 2
ID:ySiDzf4E19mCCTg2SwIEGVzu5S1-lmnw?pTC0aSRq8J4Kagv_g5ft6fWMhf8FizjYDzX0VZ

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 5-9=-60, 9-10=-20, 2-11=-20

Concentrated Loads (lb)

Vert: 9=-123(F) 12=-42(F) 18=-104(F) 19=-104(F) 20=-104(F) 21=-104(F) 22=-104(F) 23=-104(F) 24=-1176(F) 25=-38(F) 26=-38(F) 27=-38(F) 28=-38(F) 29=-38(F) 30=-38(F)

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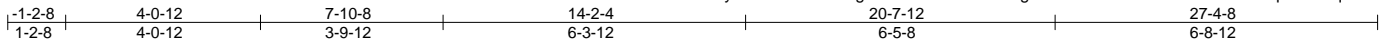


818 Soundside Road
Edenton, NC 27932

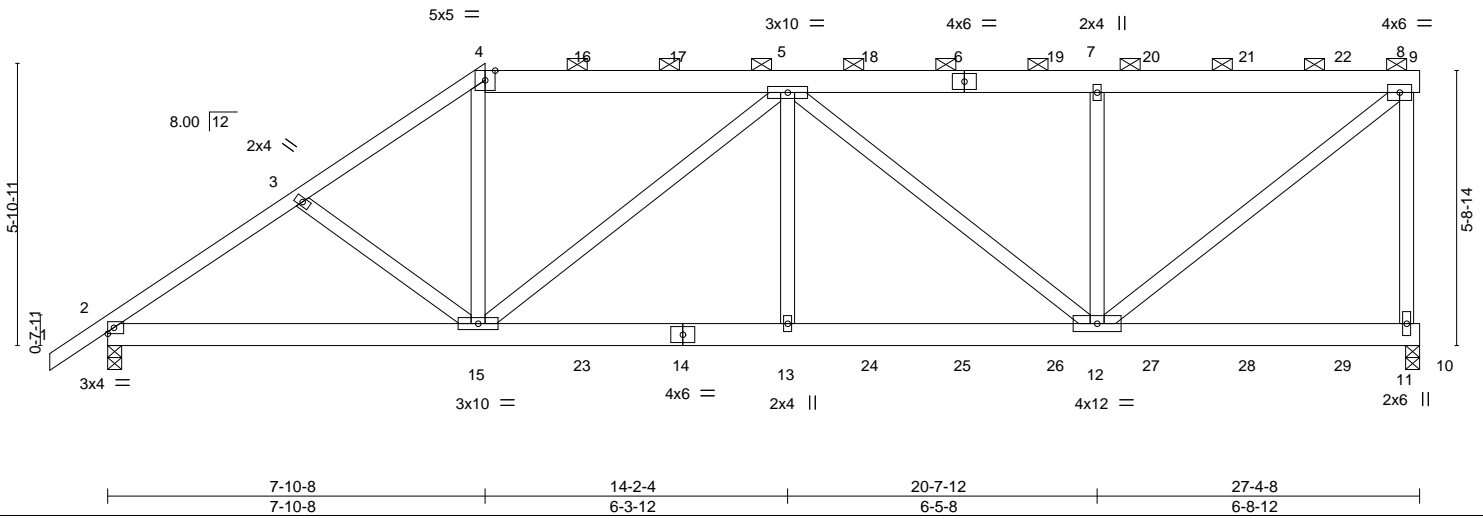
Job J1120-5314	Truss B1GDR	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233991
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:36 2020 Page 1
ID:ySiDzf4E19mCCtG2SwIEGVzu5S1-E8ugQUVSYBi93STSR?iN35A?0vQ9qiQRi3SqdzX0VX



Scale: 1/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(LL) -0.05 13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Vert(CT) -0.11 13-15 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 13 >999 240	Weight: 393 lb	FT = 20%

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

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=188(LC 8)
Max Uplift 11=-826(LC 5), 2=-554(LC 8)
Max Grav 11=2818(LC 1), 2=2408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3634/897, 3-4=-3528/926, 4-5=-2895/797, 5-7=-2608/702, 7-8=-2608/702, 8-11=-2676/893
BOT CHORD 2-15=-829/2844, 13-15=-975/3556, 12-13=-975/3556
WEBS 3-15=-207/316, 4-15=-208/1321, 5-15=-924/296, 5-13=0/616, 5-12=-1224/353, 7-12=-1003/565, 8-12=-896/3329

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 826 lb uplift at joint 11 and 554 lb uplift at joint 2.
 - 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) 183 lb down and 154 lb up at 7-10-8, 187 lb down and 151 lb up at 9-11-4, 187 lb down and 151 lb up at 11-11-4, 187 lb down and 151 lb up at 13-11-4, 187 lb down and 151 lb up at 15-11-4, 187 lb down and 151 lb up at 17-10-8, 187 lb down and 151 lb up at 19-9-12, 187 lb down and 151 lb up at 21-9-12, 187 lb down and 151 lb up at 23-9-12, and 187 lb down and 151 lb up at 25-9-12, and 208 lb down and 144 lb up at 27-1-4 on top chord, and 627 lb down and 211 lb up at 7-10-8, 113 lb down at 9-11-4, 113 lb down at 11-11-4, 113 lb down at 13-11-4, 113 lb down at 15-11-4, 113 lb down at 17-10-8, 113 lb down at 19-9-12, 113 lb down at 21-9-12, and 113 lb down at 23-9-12, and 113 lb down at 25-9-12 on bottom chord. The design/selection of such connection device(s) is the



Continued on page 2.

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Watermark/Lot 60 South Creek/Harnett	E14233991
J1120-5314	B1GDR	HALF HIP GIRDER	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:36 2020 Page 2
 ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-E8ugQUVSYBi93STSR?iN35A?0vQ9qiQRi3Sq6zX0VX

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 8-9=-20, 2-10=-20

Concentrated Loads (lb)

Vert: 6=-164(B) 8=-198(B) 14=-57(B) 15=-627(B) 13=-57(B) 5=-164(B) 4=-164(B) 16=-164(B) 17=-164(B) 18=-164(B) 19=-164(B) 20=-164(B) 21=-164(B) 22=-164(B) 23=-57(B) 24=-57(B) 25=-57(B) 26=-57(B) 27=-57(B) 28=-57(B) 29=-57(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss B2	Truss Type HALF HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233992
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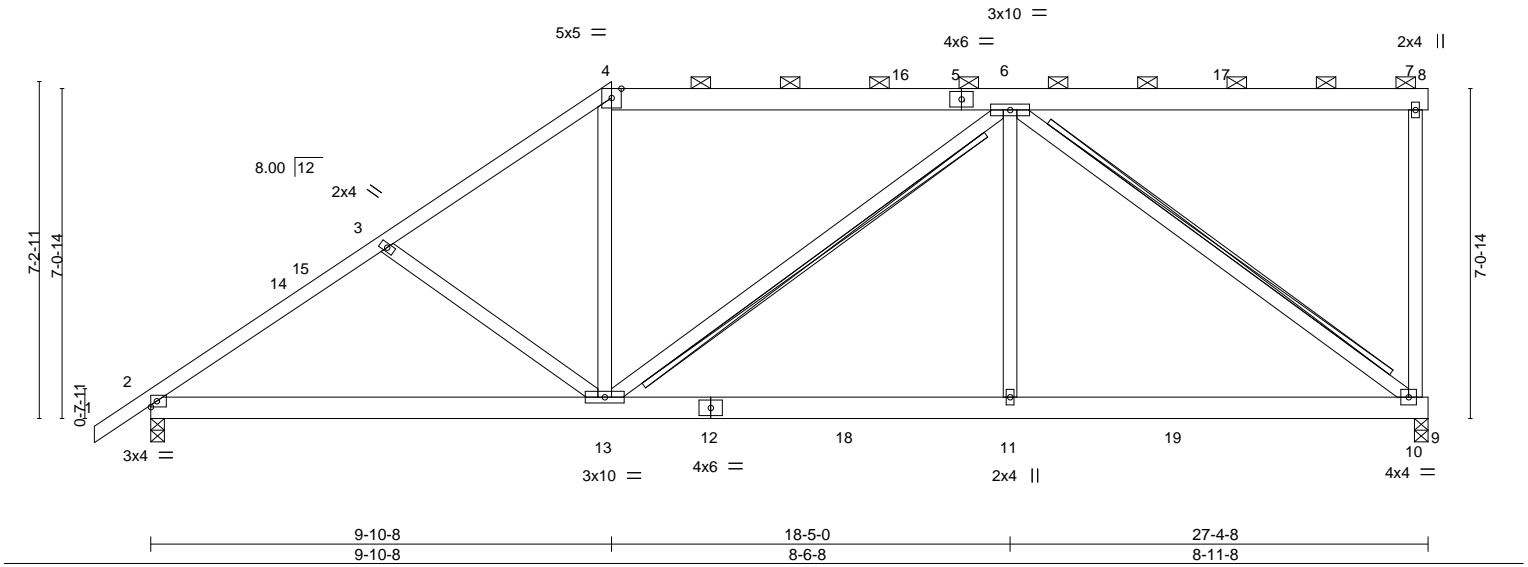
Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:37 2020 Page 1

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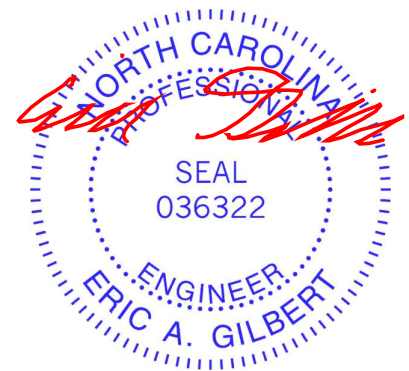
LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) -0.06 2-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.14 2-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 11-13 >999 240	Weight: 192 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 1-4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 6-13, 6-10 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 10=0-3-8, 2=0-3-8
 Max Horz 2=232(LC 12)
 Max Uplift 10=-117(LC 9), 2=-42(LC 12)
 Max Grav 10=1096(LC 2), 2=1162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1549/341, 3-4=-1318/306, 4-6=-1032/309
 BOT CHORD 2-13=-471/1187, 11-13=-283/1093, 10-11=-283/1093
 WEBS 3-13=-287/206, 4-13=0/415, 6-11=0/435, 6-10=-1356/352

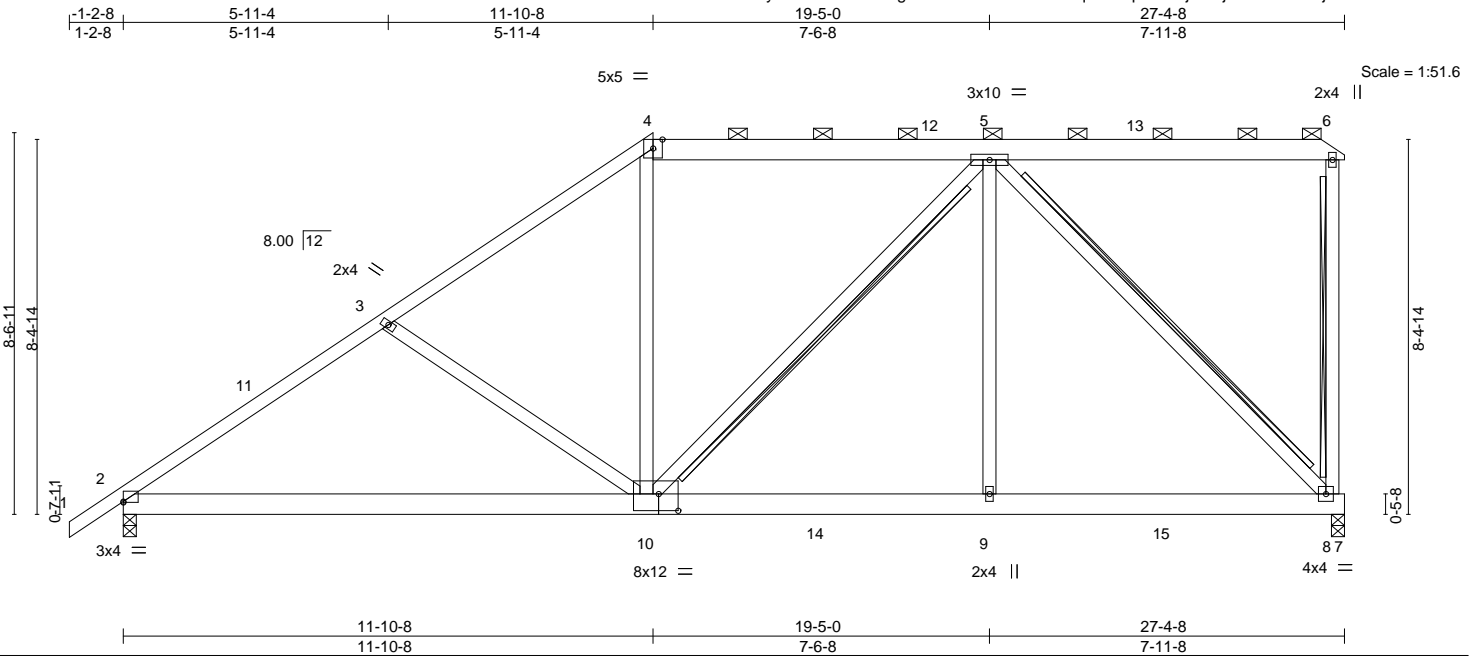
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 9-10-8, Exterior(2) 9-10-8 to 16-1-3, Interior(1) 16-1-3 to 27-4-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 117 lb uplift at joint 10 and 42 lb uplift at joint 2.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job J1120-5314	Truss B3	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233993
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Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:37 2020 Page 1
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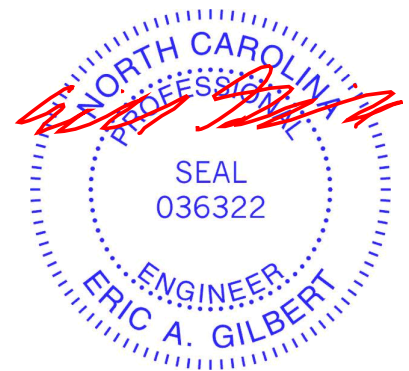
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.13	2-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.27	2-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	2-10	>999		
								Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 4-6: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 5-10, 5-8, 6-8 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=275(LC 12)
Max Uplift 2=-45(LC 12), 8=-114(LC 9)
Max Grav 2=1162(LC 1), 8=1114(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1517/317, 3-4=-1218/266, 4-5=-929/288
BOT CHORD 2-10=-490/1173, 9-10=-229/846, 8-9=-229/846
WEBS 3-10=-386/251, 4-10=0/369, 5-10=-81/290, 5-9=0/410, 5-8=-1205/327

- 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) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 11-10-8, Exterior(2) 11-10-8 to 18-1-3, Interior(1) 18-1-3 to 27-1-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 45 lb uplift at joint 2 and 114 lb uplift at joint 8.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

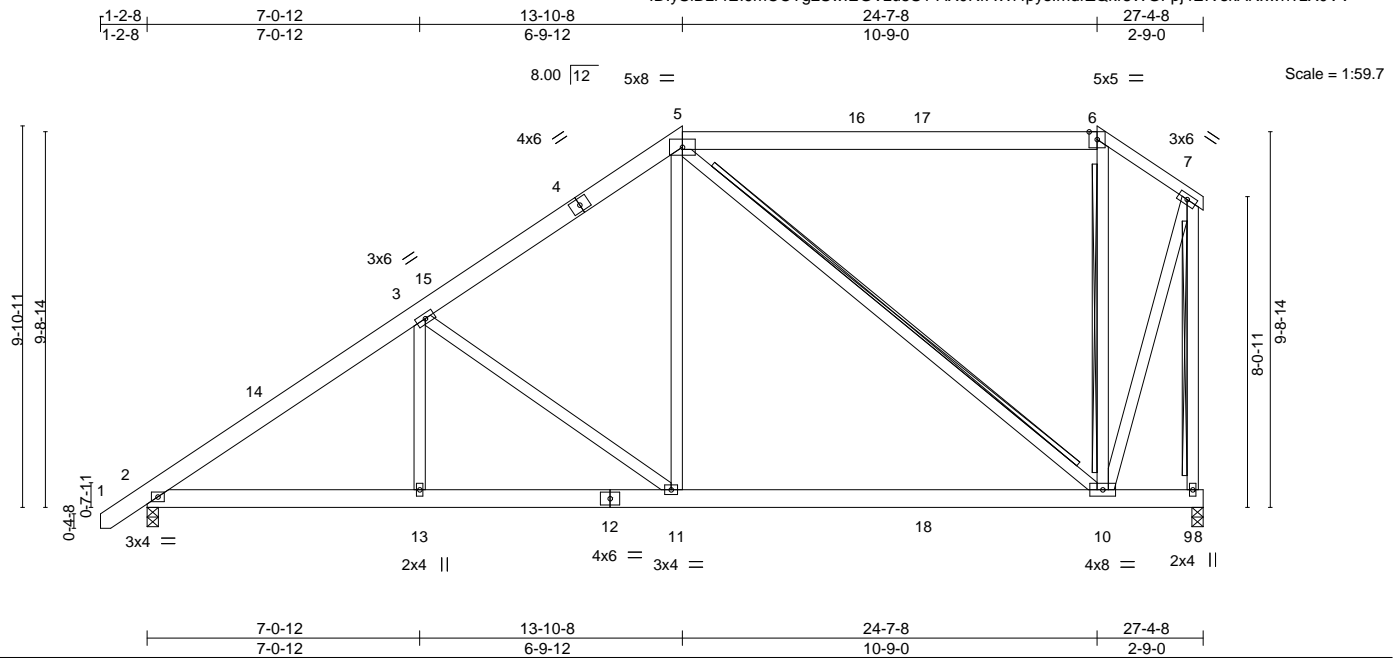


March 27, 2020

Job J1120-5314	Truss B4	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett	E14233994
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:38 2020 Page 1
ID: ySiDzf4E19mCCTg2SwlEGVzu5S1-AX0RrAWi4pyslmdrZQkr8WGFpj4EIVskANxwh?zX0VV



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.11 10-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Vert(CT) -0.20 10-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 11 >999 240	Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 6-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 5-10, 6-10, 7-9 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=288(LC 12)
 Max Uplift 2=-52(LC 12), 9=-37(LC 9)
 Max Grav 2=1153(LC 1), 9=1082(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1567/281, 3-5=-1108/288, 5-6=-299/138, 6-7=-337/102, 7-9=-1163/279
 BOT CHORD 2-13=-436/1256, 11-13=-436/1256, 10-11=-252/854
 WEBS 3-13=0/253, 3-11=-589/227, 5-11=-20/644, 5-10=-759/239, 6-10=-321/204, 7-10=-233/1029

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-10-8, Exterior(2) 13-10-8 to 20-1-3, Interior(1) 20-1-3 to 24-7-8, Exterior(2) 24-7-8 to 27-1-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 52 lb uplift at joint 2 and 37 lb uplift at joint 9.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job J1120-5314	Truss B5	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett	E14233995
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:39 2020 Page 1
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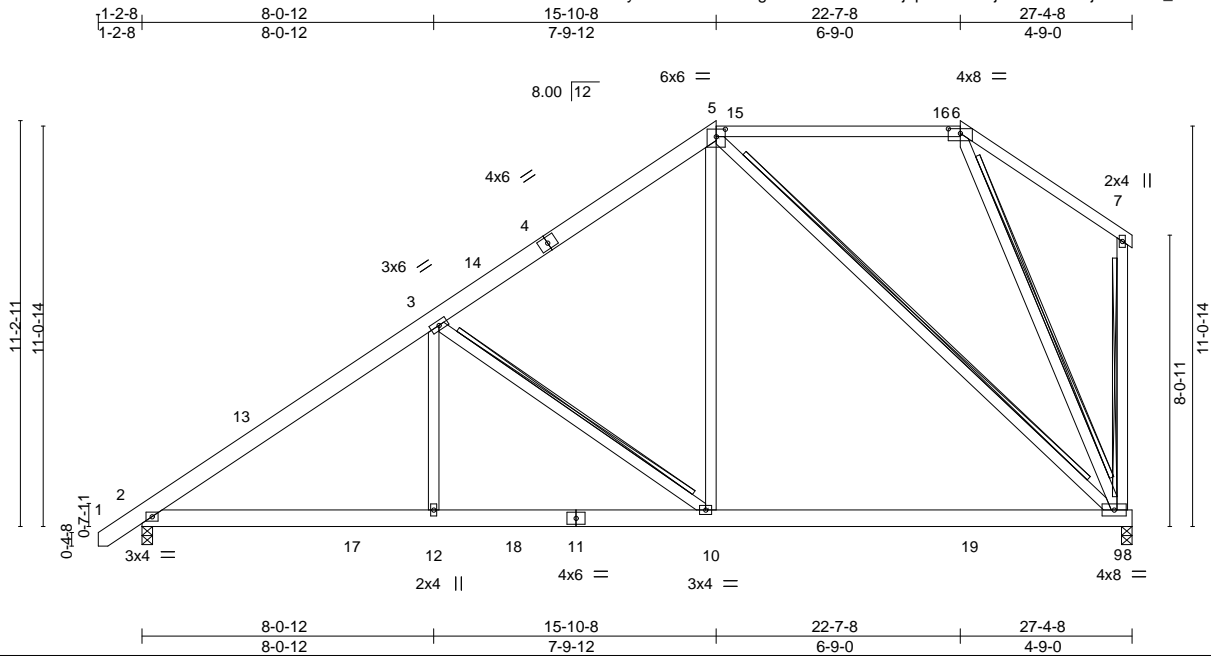


Plate Offsets (X,Y)--	[5:0-3-0,0-2-8], [6:0-4-0,0-1-9]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.19	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.32	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.03	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	2-12	>999	240		
									Weight: 218 lb	FT = 20%

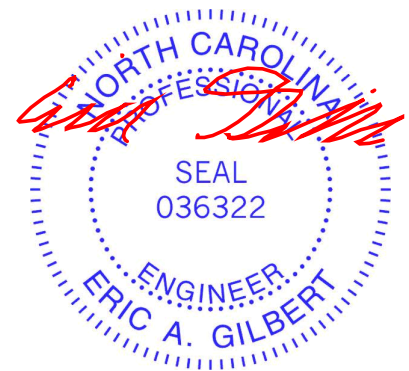
LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
5-6,6-7: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD T-Brace: 2x4 SPF No.2 - 3-10, 7-9, 6-9
2x6 SPF No.2 - 5-9
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=305(LC 12)
Max Uplift 2=-56(LC 12), 9=-54(LC 12)
Max Grav 2=1231(LC 19), 9=1139(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1650/285, 3-5=-1043/282
BOT CHORD 2-12=-419/1388, 10-12=-419/1388, 9-10=-188/796
WEBS 3-12=0/289, 3-10=-722/283, 5-10=-27/840, 5-9=-956/169, 6-9=-379/173

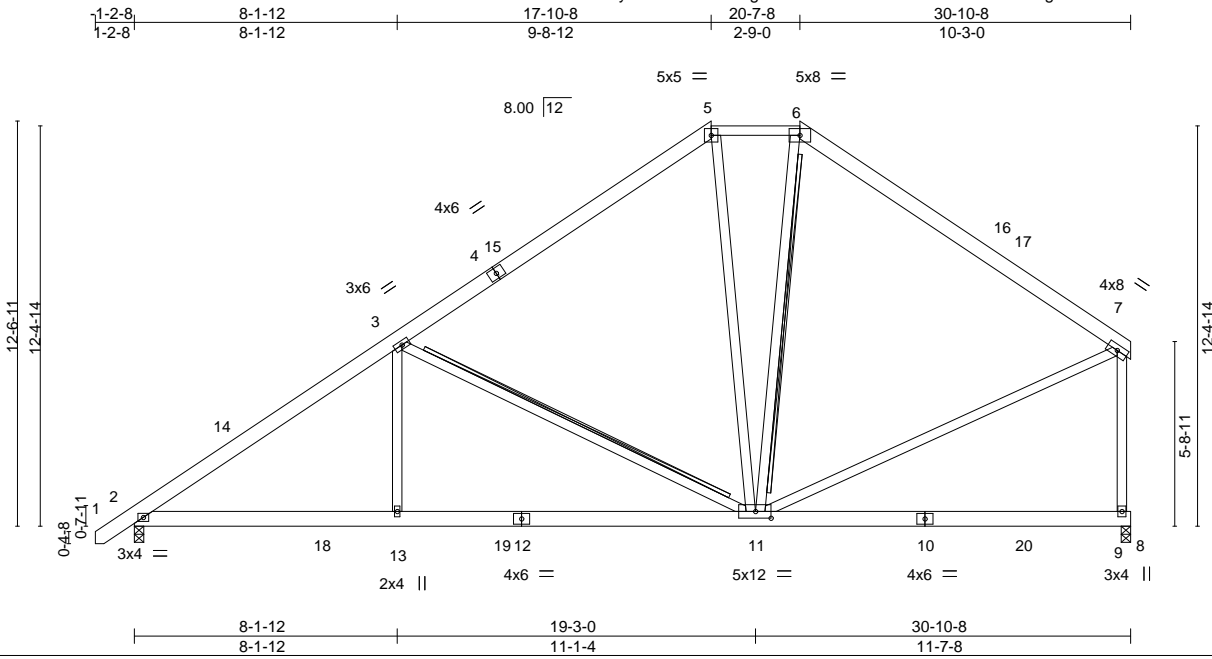
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 15-10-8, Exterior(2) 15-10-8 to 22-1-3, Interior(1) 22-1-3 to 22-7-8, Exterior(2) 22-7-8 to 27-1-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2 and 54 lb uplift at joint 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job J1120-5314	Truss B6	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett E14233996
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:40 2020 Page 1
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Scale = 1:71.4

Plate Offsets (X,Y)-- [11:0-5-12,0-2-8]

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 0.82	Vert(LL)	-0.10	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.21	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	13	>999		
								Weight: 245 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
5-6: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 3-11, 6-11
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
Max Horz 2=292(LC 9)
Max Uplift 2=-78(LC 12), 9=-45(LC 12)
Max Grav 2=1333(LC 19), 9=1222(LC 1)

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

TOP CHORD 2-3=-1874/347, 3-5=-1059/322, 5-6=-883/360, 6-7=-1051/317, 7-9=-1119/342
BOT CHORD 2-13=-386/1621, 11-13=-386/1621
WEBS 3-13=0/405, 3-11=-963/325, 5-11=-44/286, 6-11=-79/254, 7-11=-91/793

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 17-10-8, Exterior(2) 17-10-8 to 26-10-3, Interior(1) 26-10-3 to 30-7-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 45 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 27, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



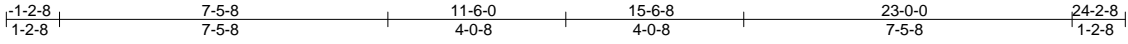
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss C1	Truss Type COMMON	Qty 6	Ply 1	Watermark/Lot 60 South Creek/Harnett	E14233997
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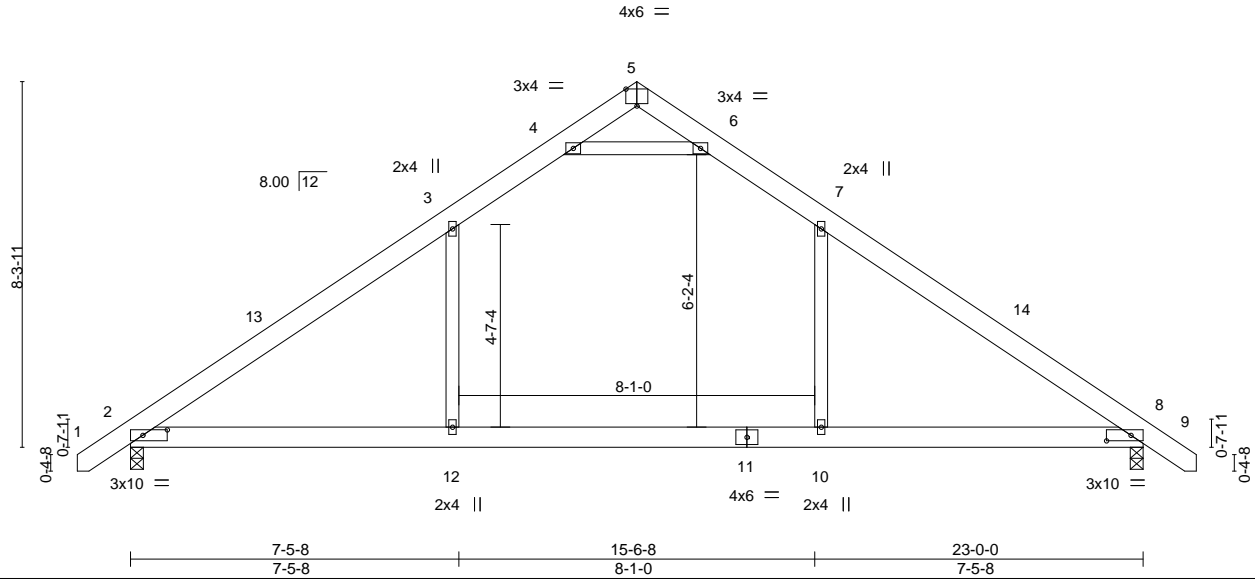
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:41 2020 Page 1

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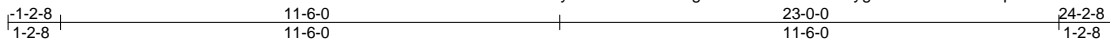
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Job J1120-5314	Truss C1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233998
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:42 2020 Page 1
ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-3IGygYZD81SnNwcoGpnJMQ3LKXKEVVK5?V8qzmzX0VR



3x4 =

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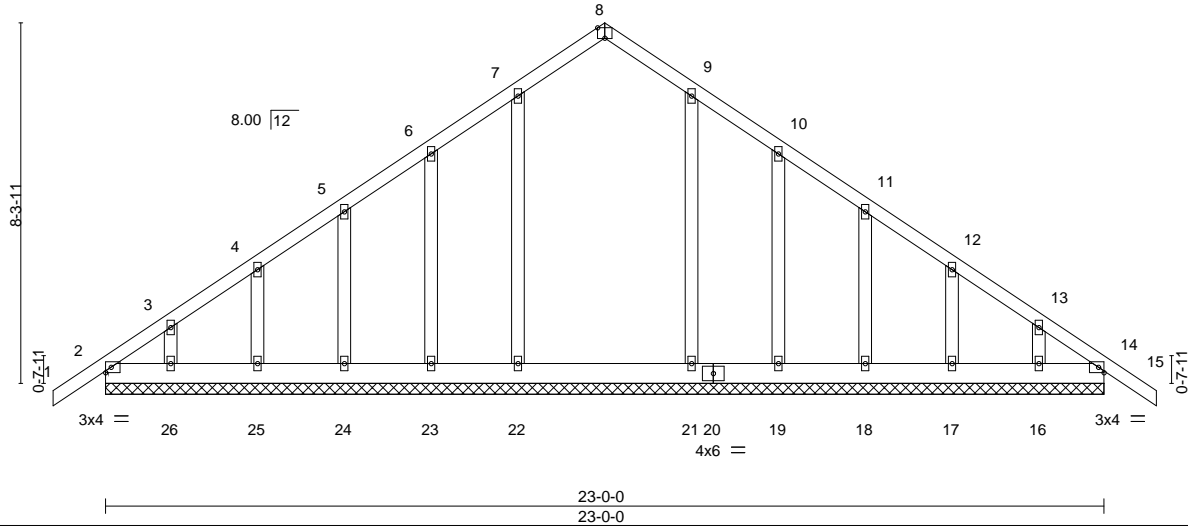


Plate Offsets (X,Y)-- [8:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	15	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 153 lb	FT = 20%

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

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

REACTIONS. All bearings 23-0-0.
(lb) - Max Horz 2=-254(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 24, 25, 21, 18, 17, 14 except 23=-104(LC 12),
26=-104(LC 12), 19=-107(LC 13), 16=-103(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 23, 24, 25, 26, 19, 18, 17, 16, 14 except 22=307(LC 19),
21=298(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-345/206, 3-4=-254/136, 13-14=-336/208
BOT CHORD 2-26=-188/308, 25-26=-188/308, 24-25=-188/308, 23-24=-188/308, 22-23=-188/308,
21-22=-188/308, 19-21=-188/308, 18-19=-188/308, 17-18=-188/308, 16-17=-188/308,
14-16=-188/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-2-8 to 3-2-5, Exterior(2) 3-2-5 to 11-6-0, Corner(3) 11-6-0 to 15-10-13, Exterior(2) 15-10-13 to 24-2-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 24, 25, 21, 18, 17, 14 except (jt=lb) 23=104, 26=104, 19=107, 16=103.



March 27, 2020

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



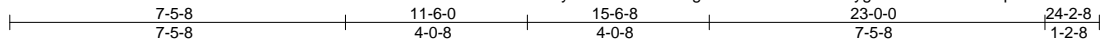
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss C2	Truss Type COMMON	Qty 4	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14233999
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Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:42 2020 Page 1

ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-3IGygYZD81SlnNwcoGpnJMQw?KQzERik5?v8qzmzX0VR



4x6 =

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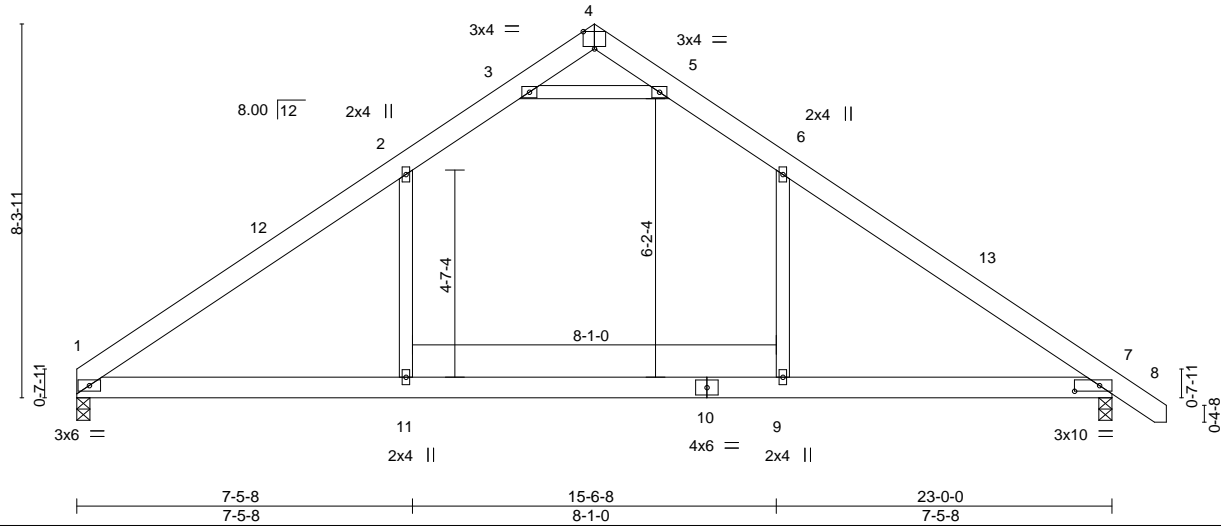


Plate Offsets (X,Y)-- [4:0-3-0,Edge], [7:0-6-11,0-1-8]

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 0.67	Vert(LL)	-0.20	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.31	9-11	>893		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.14	1-11	>999		
								Weight: 142 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 7=0-3-8
Max Horz 1=-196(LC 8)
Max Uplift 1=-47(LC 12), 7=-65(LC 13)
Max Grav 1=1031(LC 19), 7=1103(LC 20)

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

TOP CHORD 1-2=-1460/226, 2-3=-1010/299, 3-4=-163/702, 4-5=-176/702, 5-6=-1009/291,
6-7=-1468/225
BOT CHORD 1-11=-40/1108, 9-11=-40/1108, 7-9=-40/1108
WEBS 6-9=0/471, 2-11=0/461, 3-5=-1864/552

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-6-0, Exterior(2) 11-6-0 to 15-8-4, Interior(1) 15-8-4 to 24-0-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



March 27, 2020

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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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

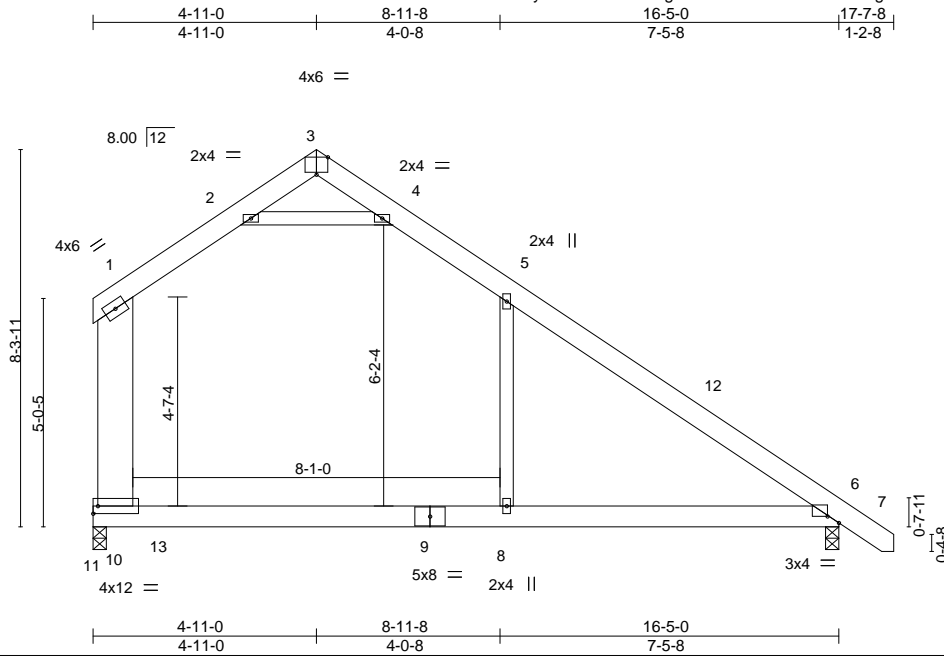


818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss C3	Truss Type COMMON	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234000
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:44 2020 Page 1
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Scale = 1:50.7

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-3-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	Vert(LL) -0.23	8	>817	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(CT) -0.42	8	>454	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.20	6-8	>948	240		
	Code IRC2015/TP12014						Weight: 119 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 1-10: 2x10 SP No.1

BRACING-

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

REACTIONS.

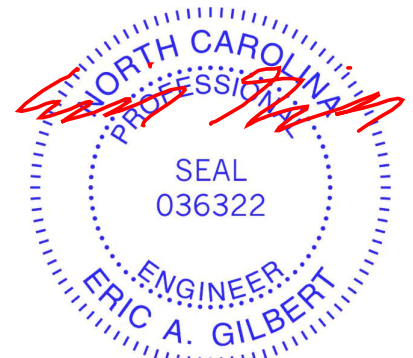
(size) 10=0-3-8, 6=0-3-8
 Max Horz 10=-209(LC 13)
 Max Uplift 10=-54(LC 13), 6=-40(LC 13)
 Max Grav 10=872(LC 20), 6=775(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-568/187, 3-4=-43/301, 4-5=-387/158, 5-6=-668/40, 1-10=-374/170
 BOT CHORD 8-10=0/448, 6-8=0/448
 WEBS 2-4=-659/197

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-14 to 9-1-4, Interior(1) 9-1-4 to 17-5-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.



March 27, 2020

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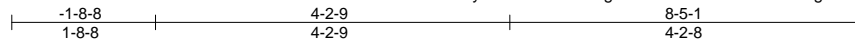


818 Soundside Road
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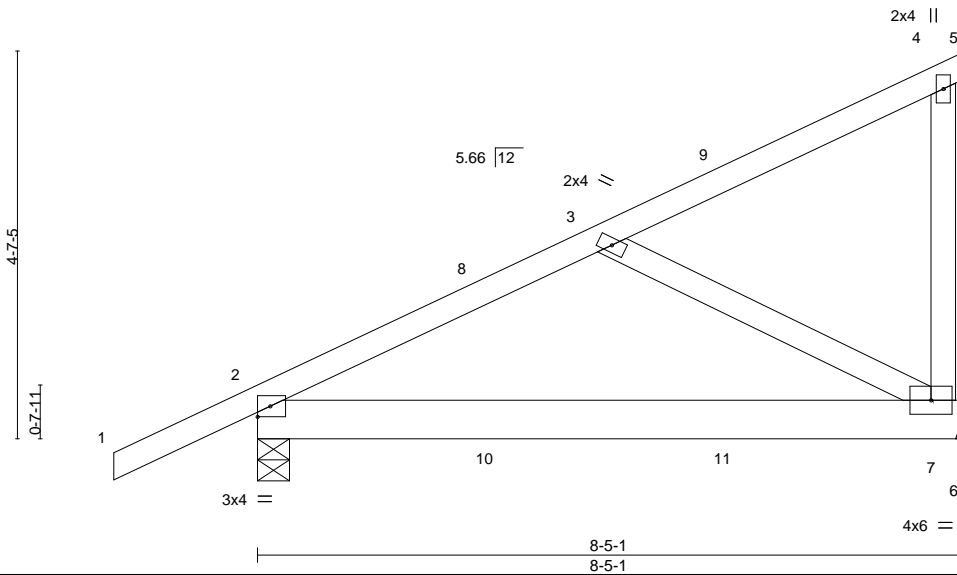
Job J1120-5314	Truss CJ08	Truss Type DIAGONAL HIP GIRDER	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234001
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Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:44 2020 Page 1
ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-?hNi5DbTgfi00h4?vhrFOnWNb87BiPzdYJOFvezX0VP



Scale = 1:27.4



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 0.21	Vert(LL)	-0.06	2-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.13	2-7	>763		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	Weight: 49 lb	FT = 20%

LUMBER-

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

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.

(size) 7=Mechanical, 2=0-4-9
Max Horz 2=151(LC 8)
Max Uplift 7=-115(LC 8), 2=-52(LC 8)
Max Grav 7=357(LC 29), 2=460(LC 1)

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

TOP CHORD 2-3=-426/116
BOT CHORD 2-7=-190/293
WEBS 3-7=-331/215

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 7=115.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 37 lb up at 2-9-8, 76 lb down and 37 lb up at 2-9-8, and 109 lb down and 87 lb up at 5-7-7, and 109 lb down and 87 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 21 lb down at 5-7-7, and 21 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-27(F=-14, B=-14) 11=-19(F=-9, B=-9)



March 27, 2020

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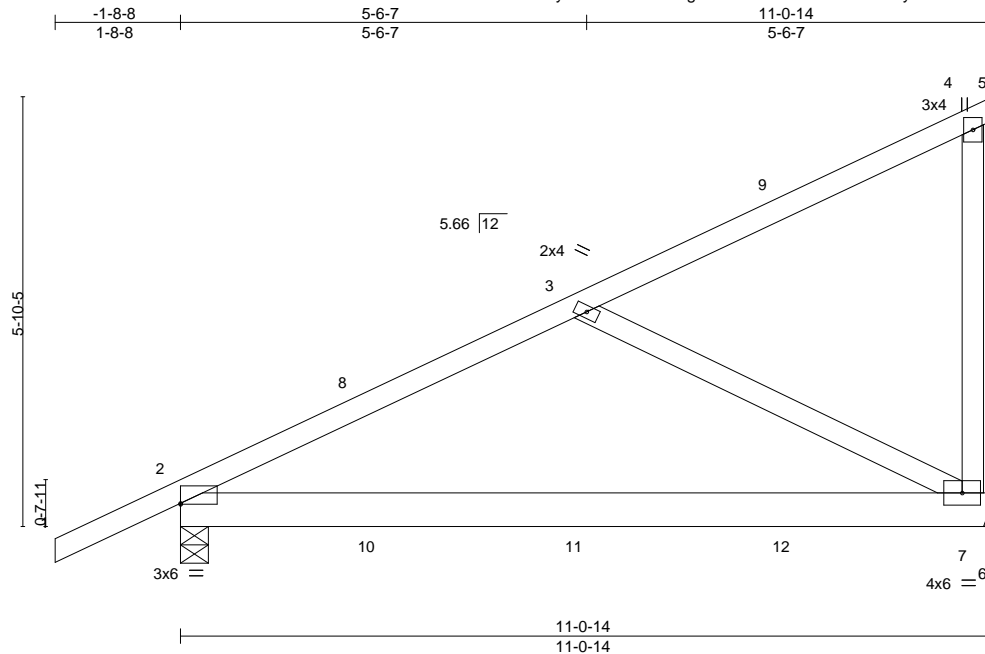


818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss CJ11	Truss Type DIAGONAL HIP GIRDER	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234002
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Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:45 2020 Page 1
ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-Ttx4JZc5RyrtfBTOMUw_2S3YP9Rofmz8oR5zX0VO



Scale = 1:31.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.18	2-7	>712	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.35	2-7	>359	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.34	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.01	2-7	>999	240	Weight: 63 lb	FT = 20%

LUMBER-

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

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.

(size) 7=Mechanical, 2=0-4-9
Max Horz 2=192(LC 23)
Max Uplift 7=-209(LC 8), 2=-91(LC 8)
Max Grav 7=607(LC 29), 2=615(LC 1)

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

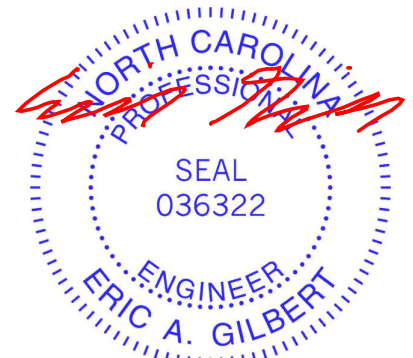
TOP CHORD 2-3=-696/248
BOT CHORD 2-7=-317/533
WEBS 3-7=-555/349

NOTES-

- 1) 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); 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 7=209.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 33 lb up at 2-7-6, 75 lb down and 33 lb up at 2-7-6, 107 lb down and 84 lb up at 5-5-5, 107 lb down and 84 lb up at 5-5-5, and 148 lb down and 130 lb up at 8-3-4, and 148 lb down and 130 lb up at 8-3-4 on top chord, and 1 lb down at 2-7-6, 1 lb down at 2-7-6, 19 lb down at 5-5-5, 19 lb down at 5-5-5, and 56 lb down at 8-3-4, and 56 lb down at 8-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-19(F=-9, B=-9) 9=-149(F=-75, B=-75) 11=-16(F=-8, B=-8) 12=-56(F=-28, B=-28)



March 27, 2020

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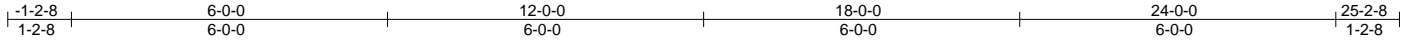
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss D1GDR	Truss Type HIP GIRDER	Qty 1	Ply 2	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234003
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Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:47 2020 Page 1

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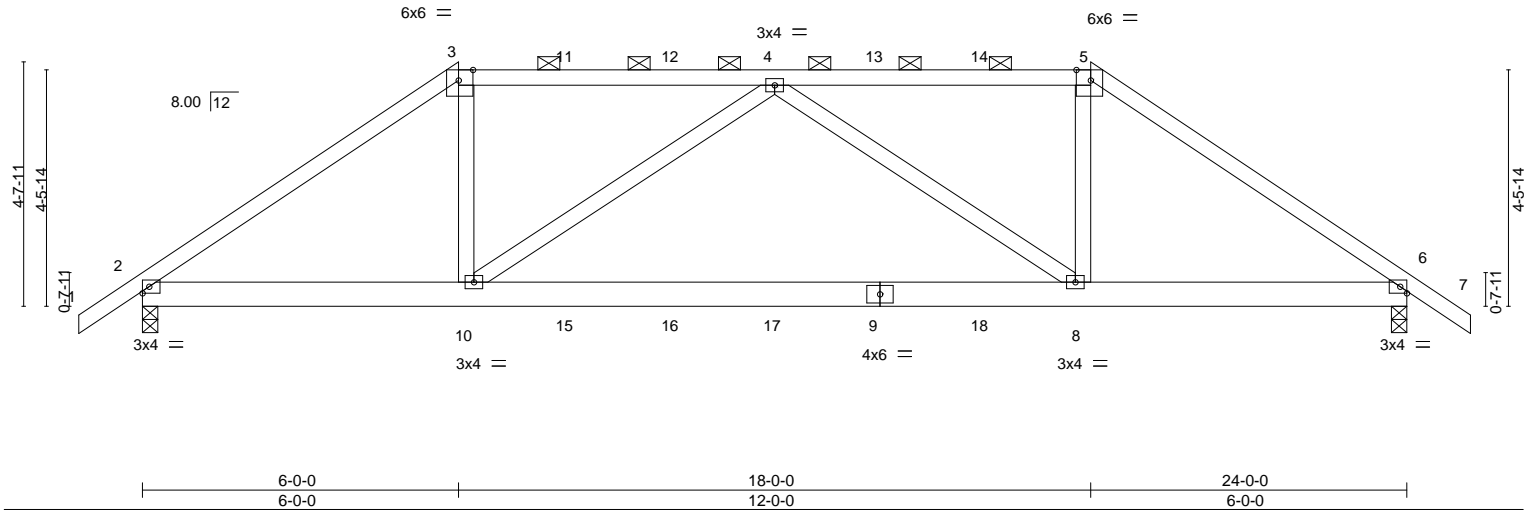


Plate Offsets (X,Y)--	[3:0-3-5,Edge], [5:0-3-5,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.11	8-10	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.24	8-10	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.15	Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	8-10	>999	240	Weight: 263 lb FT = 20%

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=114(LC 7)
 Max Uplift 2=-426(LC 8), 6=-426(LC 9)
 Max Grav 2=1846(LC 1), 6=1846(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2849/635, 3-4=-2276/572, 4-5=-2276/571, 5-6=-2850/635
 BOT CHORD 2-10=-543/2234, 8-10=-834/2854, 6-8=-463/2234
 WEBS 3-10=-150/1121, 4-10=-763/446, 4-8=-763/446, 5-8=-150/1121

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=426, 6=426.
 - 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) 138 lb down and 123 lb up at 6-0-0, 143 lb down and 119 lb up at 8-0-12, 143 lb down and 119 lb up at 10-0-12, 143 lb down and 119 lb up at 12-0-0, 143 lb down and 119 lb up at 13-11-4, and 143 lb down and 119 lb up at 15-11-4, and 138 lb down and 123 lb up at 18-0-0 on top chord, and 357 lb down and 128 lb up at 6-0-0, 76 lb down at 8-0-12, 76 lb down at 10-0-12, 76 lb down at 12-0-0, 76 lb down at 13-11-4, and 76 lb down at 15-11-4, and 357 lb down and 128 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 Continued on page 2



March 27, 2020

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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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss D1GDR	Truss Type HIP GIRDER	Qty 1	Ply 2	Watermark/Lot 60 South Creek/Harnett E14234003 Job Reference (optional)
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:47 2020 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=-104(F) 5=-104(F) 9=-38(F) 10=-357(F) 4=-104(F) 8=-357(F) 11=-104(F) 12=-104(F) 13=-104(F) 14=-104(F) 15=-38(F) 16=-38(F) 17=-38(F) 18=-38(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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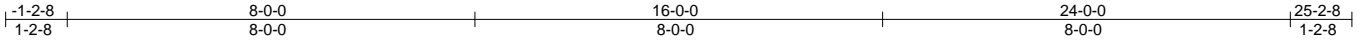
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss D2	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234004
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:47 2020 Page 1

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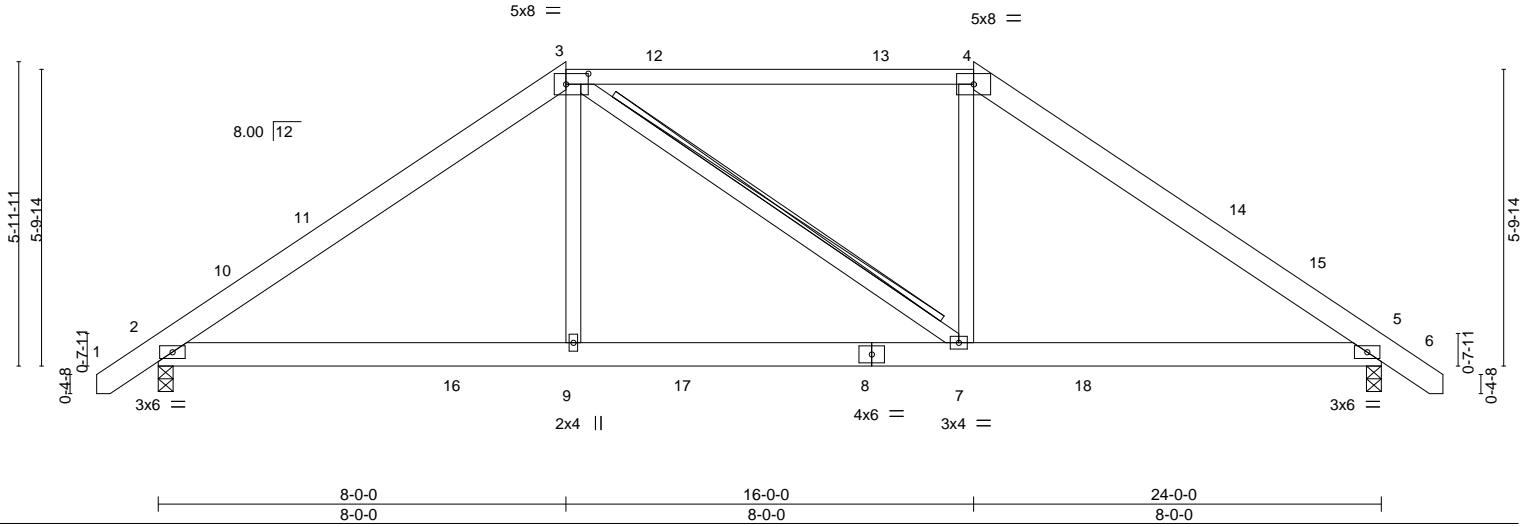


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8]

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 0.76	Vert(LL)	-0.03	5-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.07	5-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	5-7	>999		
								Weight: 149 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (4-3-8 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 3-7
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=-145(LC 10)
Max Uplift 2=-48(LC 12), 5=-48(LC 13)
Max Grav 2=1022(LC 1), 5=1022(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1320/315, 3-4=-980/351, 4-5=-1302/314
BOT CHORD 2-9=-98/999, 7-9=-96/1008, 5-7=-103/973
WEBS 3-9=0/339, 4-7=0/339

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 16-0-0, Exterior(2) 16-0-0 to 22-2-11, Interior(1) 22-2-11 to 25-0-15 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 27, 2020

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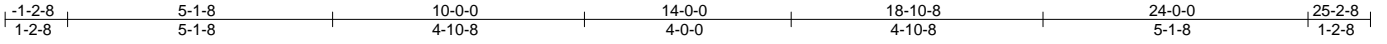
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss D3	Truss Type HIP	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234005
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:48 2020 Page 1

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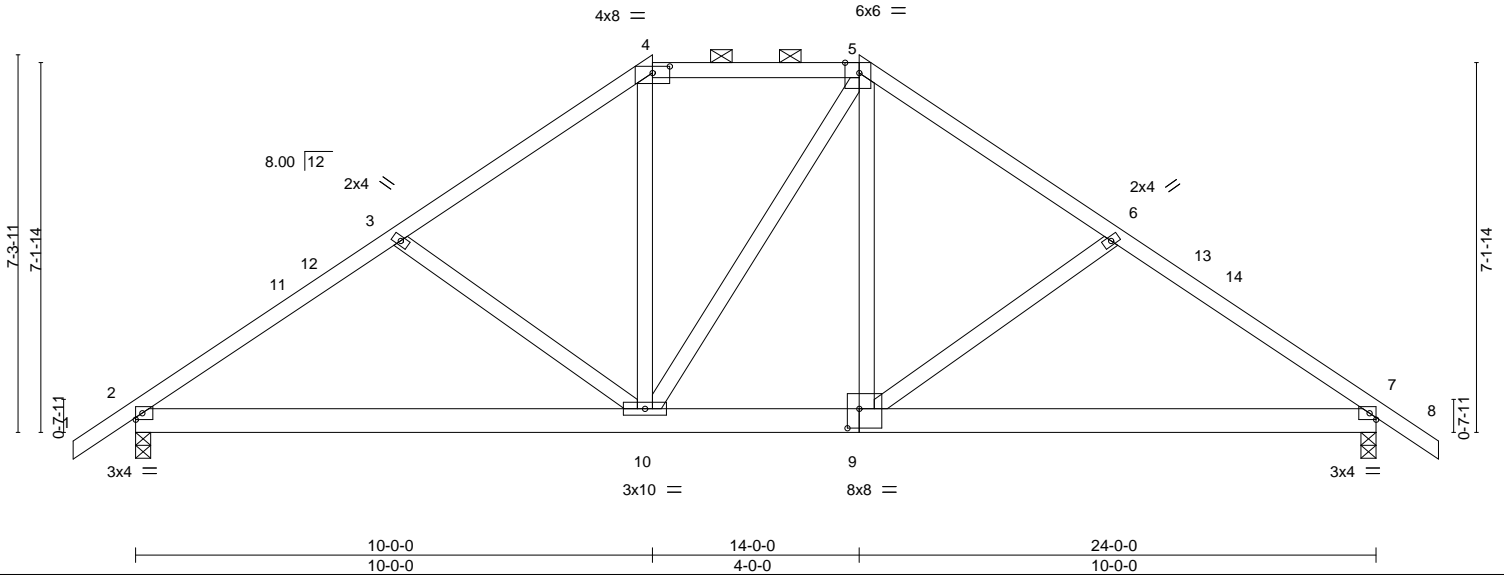


Plate Offsets (X,Y)-- [4:0-4-0,0-1-9], [5:0-3-5,Edge], [9:0-2-12,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.08	7-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.16	7-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.02	7-9	>999	240		
							Weight: 150 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-178(LC 10)
Max Uplift 2=-61(LC 12), 7=-61(LC 13)
Max Grav 2=1030(LC 1), 7=1030(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1322/355, 3-4=-1076/318, 4-5=-854/318, 5-6=-1070/316, 6-7=-1320/356
BOT CHORD 2-10=-186/1006, 9-10=-17/818, 7-9=-193/1004
WEBS 3-10=-312/215, 4-10=-42/343, 5-9=-39/346, 6-9=-314/216

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 10-0-0, Exterior(2) 10-0-0 to 20-2-11, Interior(1) 20-2-11 to 25-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 27, 2020

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818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss D4	Truss Type QUEENPOST	Qty 3	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234006
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Comtech, Inc., Fayetteville, NC - 28314,

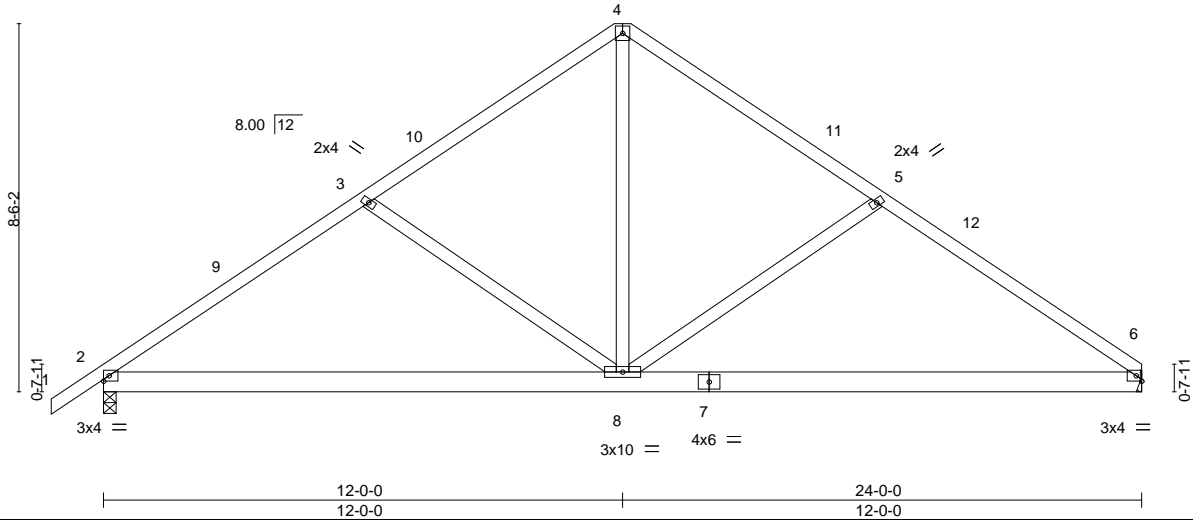
8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:49 2020 Page 1

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4x4 =

Scale = 1:53.3



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL) -0.12	6-8	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(CT) -0.25	6-8	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) -0.04	2-8	>999	240		
	Code IRC2015/TPI2014						Weight: 134 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

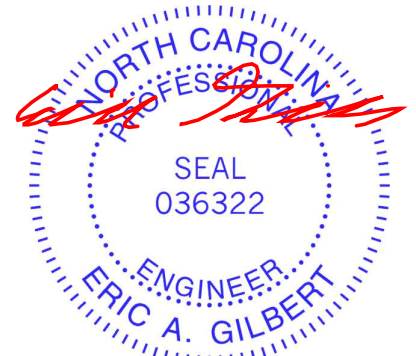
(size) 2=0-3-8, 6=Mechanical
 Max Horz 2=207(LC 9)
 Max Uplift 2=-69(LC 12), 6=-50(LC 13)
 Max Grav 2=1035(LC 1), 6=949(LC 1)

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

TOP CHORD 2-3=-1308/306, 3-4=-1004/269, 4-5=-1004/279, 5-6=-1297/326
 BOT CHORD 2-8=-157/1021, 6-8=-163/1004
 WEBS 3-8=-398/246, 4-8=-129/775, 5-8=-412/257

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 23-11-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 2, 6.



March 27, 2020

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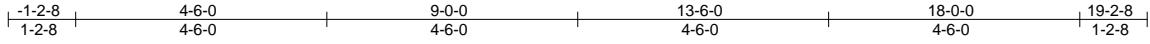


818 Soundside Road
 Edenton, NC 27932

Job J1120-5314	Truss E1	Truss Type COMMON	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234007
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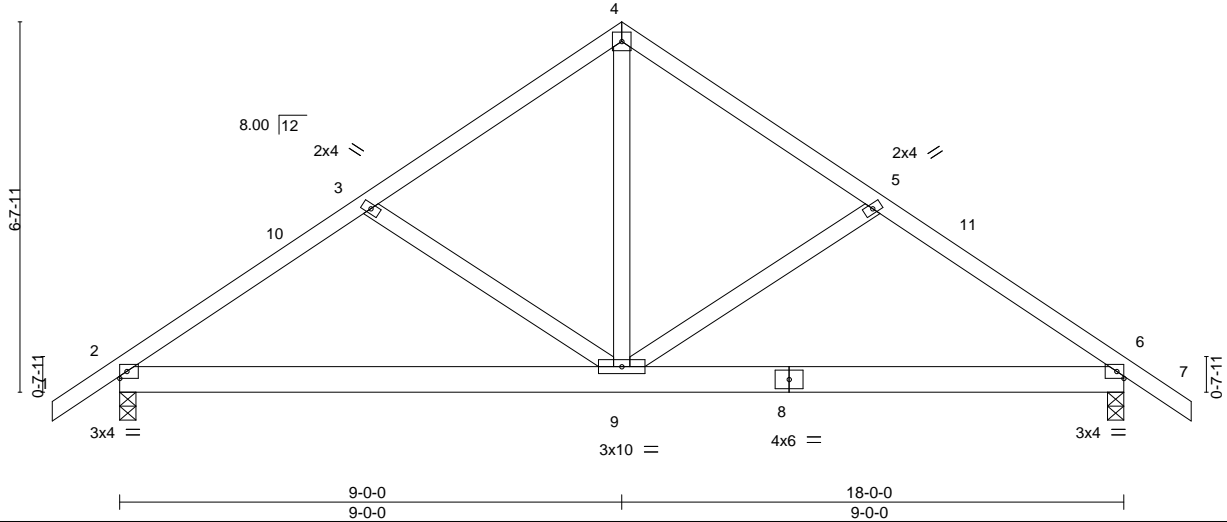
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:49 2020 Page 1
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4x4 =

Scale = 1:41.3



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.04	6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.08	6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.01	6-9	>999	240		
							Weight: 103 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

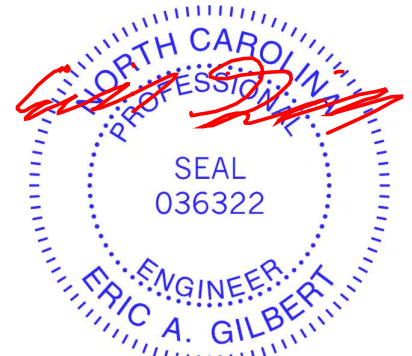
(size) 6=0-3-8, 2=0-3-8
Max Horz 2=-163(LC 10)
Max Uplift 6=-56(LC 13), 2=-56(LC 12)
Max Grav 6=790(LC 1), 2=790(LC 1)

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

TOP CHORD 2-3=-948/232, 3-4=-730/203, 4-5=-730/203, 5-6=-948/232
BOT CHORD 2-9=-85/745, 6-9=-100/708
WEBS 4-9=-81/541, 5-9=-287/193, 3-9=-287/193

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 9-0-0, Exterior(2) 9-0-0 to 13-7-9, Interior(1) 13-7-9 to 19-2-8 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 6, 2.



March 27, 2020

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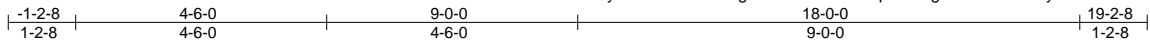


818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss E1GE	Truss Type KINGPOST	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234008
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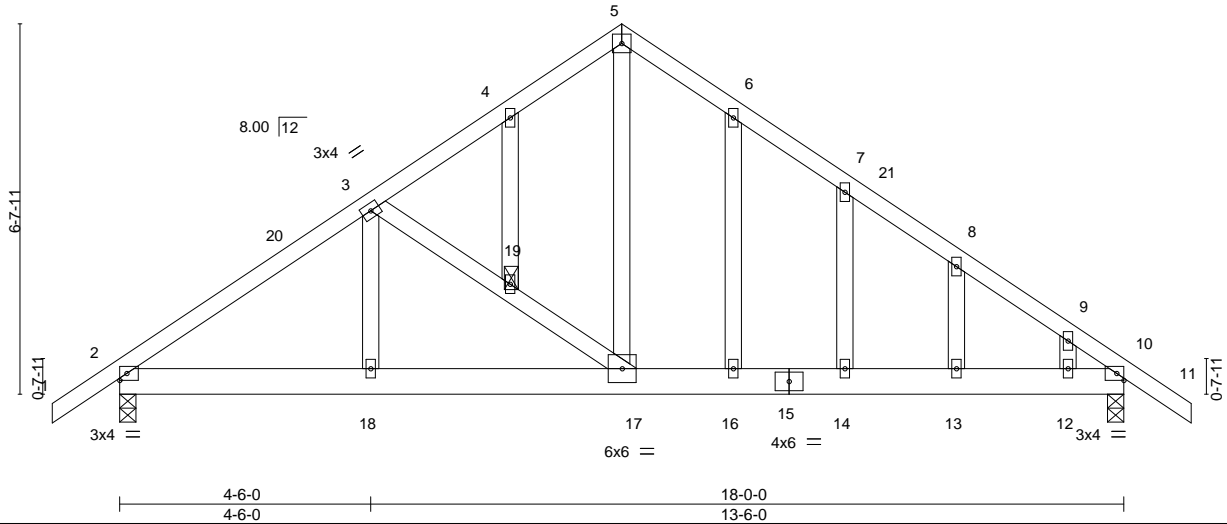
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:50 2020 Page 1
ID:YiSDzf4E19mCCTg2SwIEGVzu5S1-qrkzMHgEFVT9lcY9Gxyfd2mPvZBC66FVwErZ6lzX0VJ



4x4 =

Scale = 1:41.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.06 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.13 13-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.11 13-14 >999 240	Weight: 120 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19

REACTIONS.

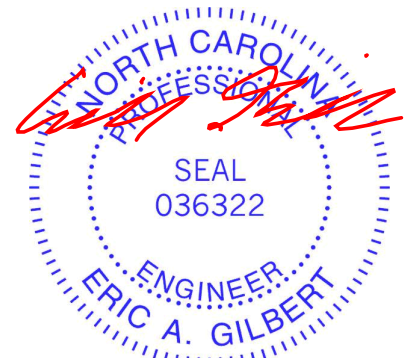
(size) 10=0-3-8, 2=0-3-8
Max Horz 2=-204(LC 10)
Max Uplift 10=-174(LC 13), 2=-174(LC 12)
Max Grav 10=790(LC 1), 2=790(LC 1)

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

TOP CHORD 2-3=-959/180, 3-4=-760/234, 4-5=-745/255, 5-6=-792/268, 6-7=-740/213, 7-8=-721/160,
8-9=-744/107, 9-10=-838/79
BOT CHORD 2-18=-164/779, 17-18=-164/779, 16-17=-29/577, 14-16=-29/577, 13-14=-29/577,
12-13=-29/577, 10-12=-29/577
WEBS 3-19=-266/162, 17-19=-283/177, 5-17=-183/636

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) gable end zone and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 9-0-0, Exterior(2) 9-0-0 to 13-4-13, Interior(1) 13-4-13 to 19-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=174, 2=174.



March 27, 2020

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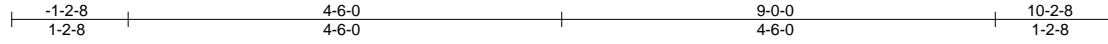


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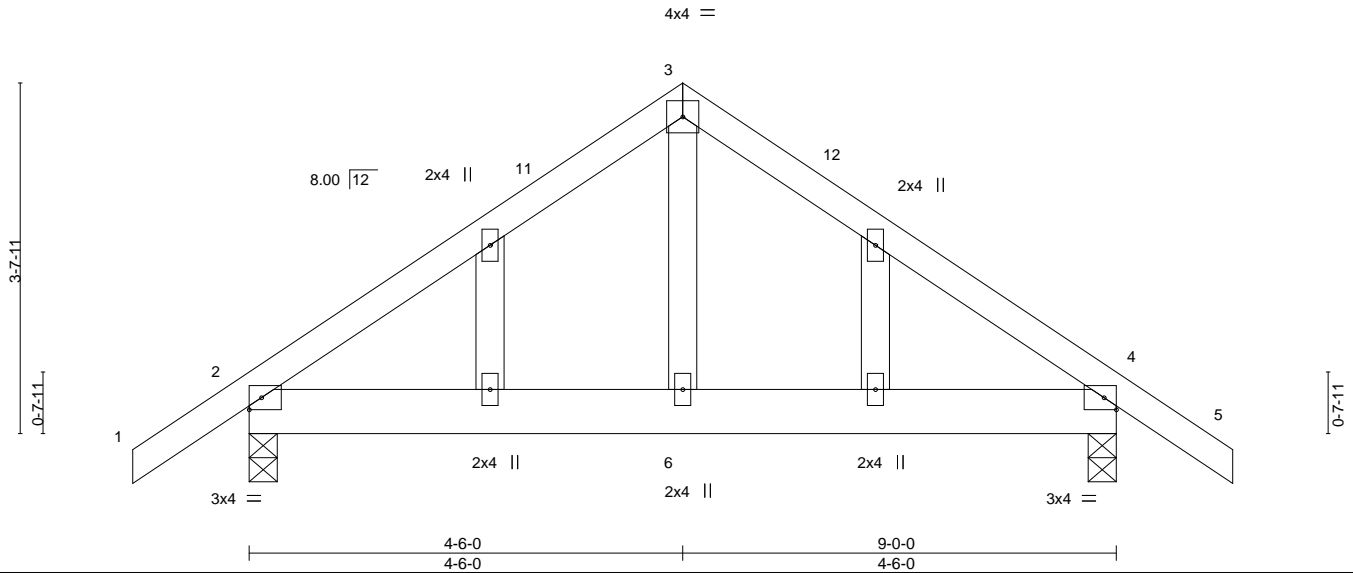
Job J1120-5314	Truss G1GE	Truss Type GABLE	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234009
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:51 2020 Page 1
ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-11ILZdgs0ob0Mm7LpfTuAFIYla1rbmf9ub6fkzX0VI



Scale: 1/2"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.00 2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01 2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S	Wind(LL)	0.00 6	>999	240	Weight: 51 lb	FT = 20%

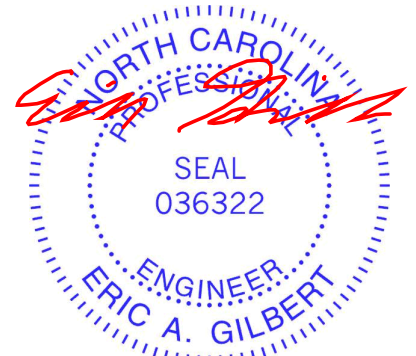
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-114(LC 10)
Max Uplift 2=-106(LC 12), 4=-106(LC 13)
Max Grav 2=430(LC 1), 4=430(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-368/79, 3-4=-368/79

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-6-0, Exterior(2) 4-6-0 to 8-10-4, Interior(1) 8-10-4 to 10-2-8 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.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=106, 4=106.



March 27, 2020

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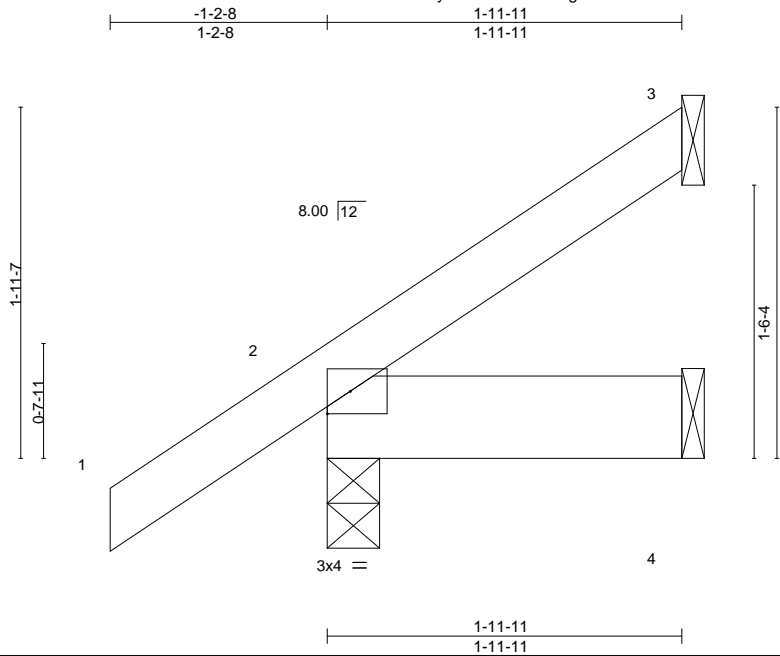


818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss J02	Truss Type JACK-OPEN	Qty 4	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234010
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:52 2020 Page 1
ID:ySiDzf4EI9mCCtG2SwIEGVzu5S1-mDsknzhUn6jt_vhXNM_7iTmmMxBa1loOYKgBBzX0VH



Scale = 1:12.8

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	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-32(LC 12), 2=-13(LC 12)
Max Grav 3=43(LC 19), 2=175(LC 1), 4=39(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 27, 2020

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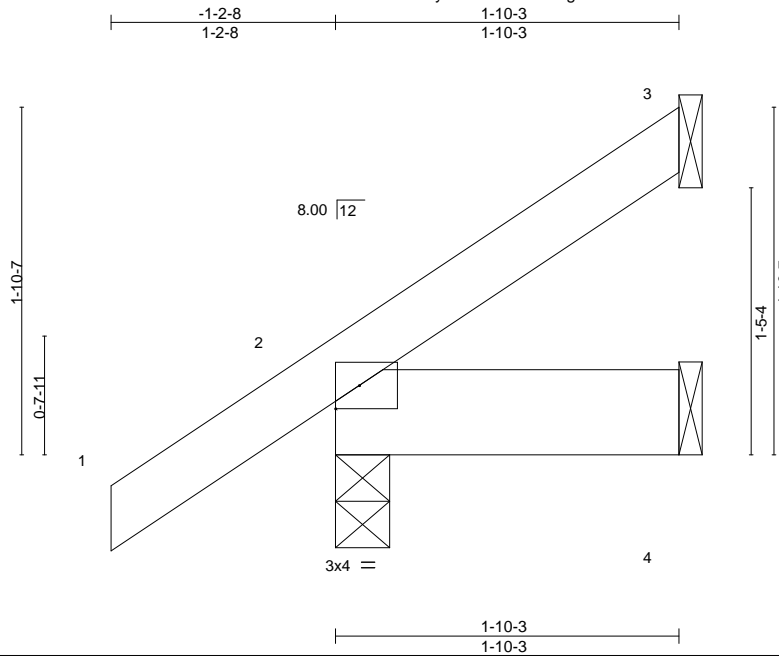


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Job J1120-5314	Truss J02A	Truss Type JACK-OPEN	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234011
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:52 2020 Page 1
ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-mDsknzhUn6jt_vhXNM_7ITrmmMxDa1loOYKgBBzX0VH



Scale = 1:12.4

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 0.07	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

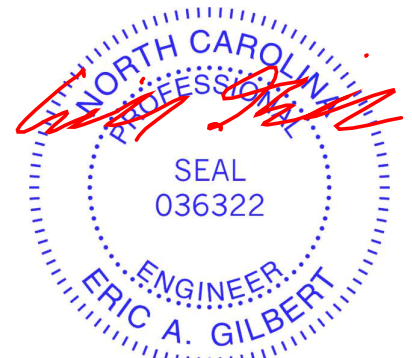
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=62(LC 12)
Max Uplift 3=30(LC 12), 2=14(LC 12)
Max Grav 3=37(LC 19), 2=172(LC 1), 4=36(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 27, 2020

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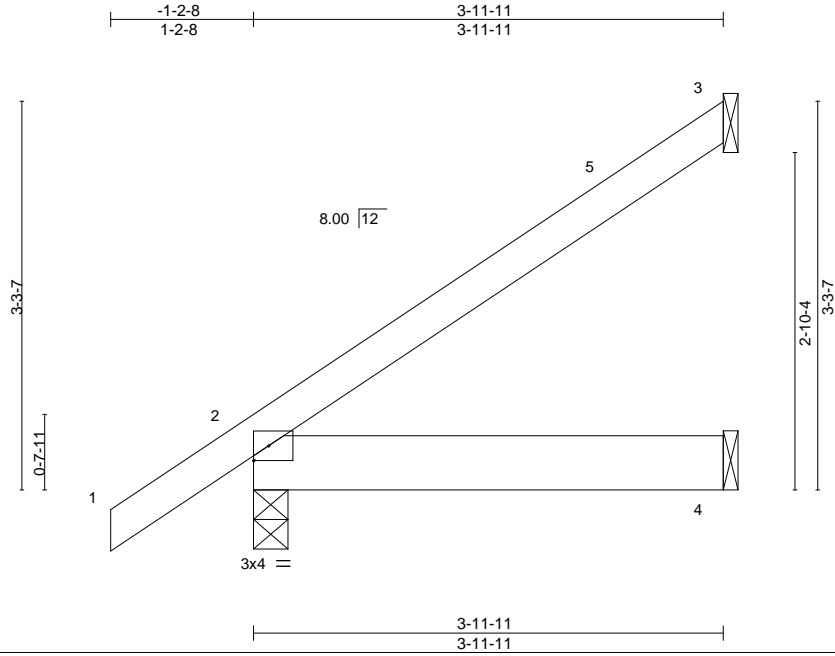
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Job J1120-5314	Truss J04	Truss Type JACK-OPEN	Qty 4	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234012
Comtech, Inc., Fayetteville, NC - 28314,					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:53 2020 Page 1
 ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-EPQ6_li7YQrkc3Gjx4WMFgNvEmHpJU?xcC4DjdzX0VG



Scale = 1:19.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=107(LC 12)
 Max Uplift 3=69(LC 12), 2=4(LC 12)
 Max Grav 3=113(LC 19), 2=246(LC 1), 4=75(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 27, 2020

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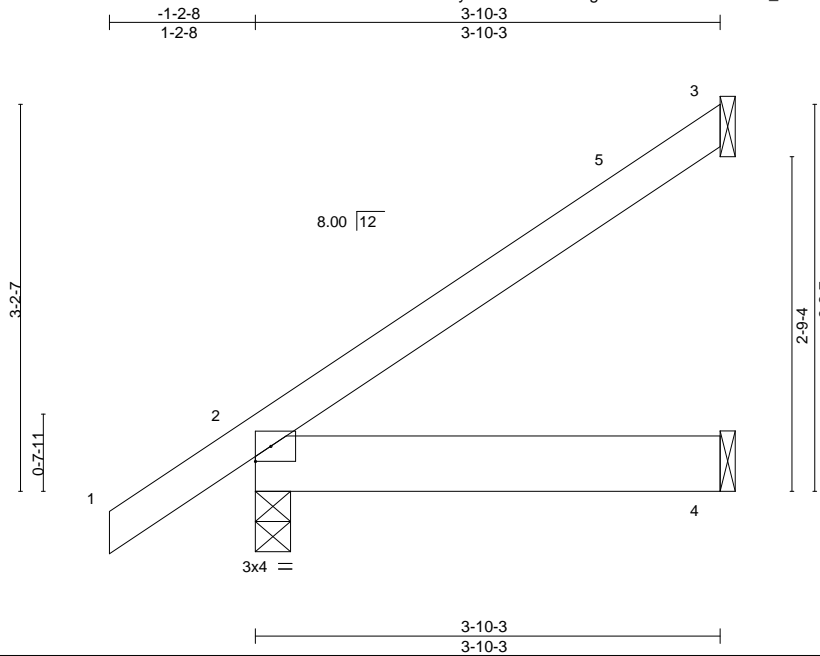


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Job J1120-5314	Truss J04A	Truss Type JACK-OPEN	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234013
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:53 2020 Page 1
ID:ySiDzf4EI9mCCtg2SwIEGVzu5S1-EPQ6_lI7YQrkc3Gjx4WMFgNvSmHJU?xcC4DjdzX0VG



Scale = 1:19.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240		
									Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

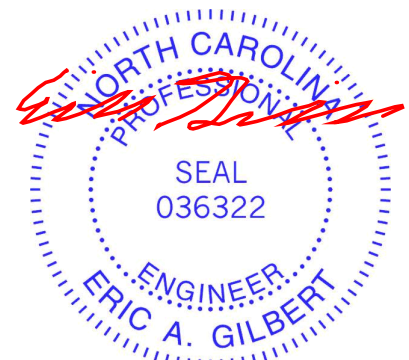
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=105(LC 12)
Max Uplift 3=67(LC 12), 2=5(LC 12)
Max Grav 3=108(LC 19), 2=242(LC 1), 4=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 3-9-7 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 27, 2020

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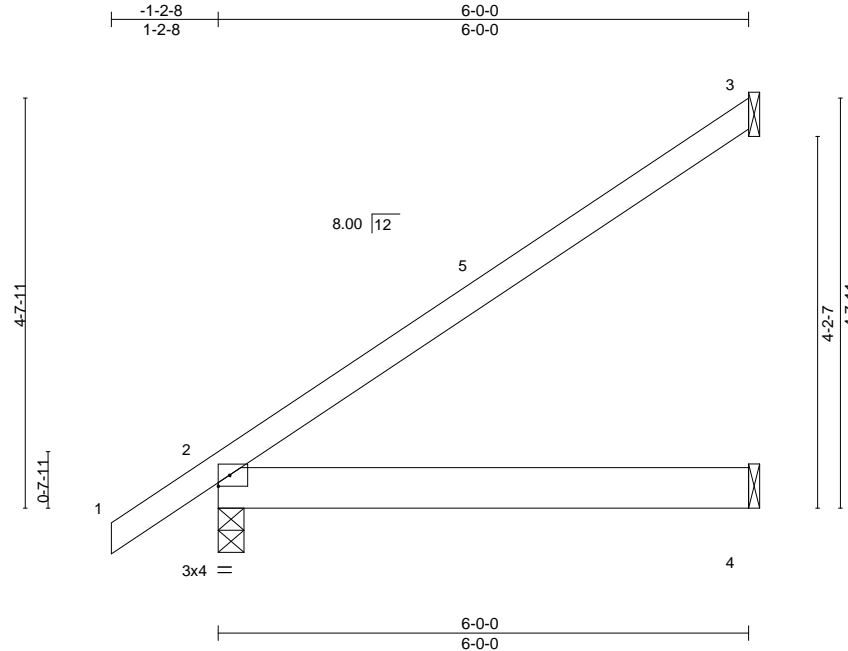
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss J06	Truss Type JACK-OPEN	Qty 14	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234014
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8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:54 2020 Page 1

ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-ic_UBeJlJzbDDrWvN1bouw?LAb02xF5rspnF3zX0VF



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 0.52	Vert(LL)	-0.02 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.03 2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 27 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=151(LC 12)
 Max Uplift 3=106(LC 12)
 Max Grav 3=184(LC 19), 2=322(LC 1), 4=116(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3=106.



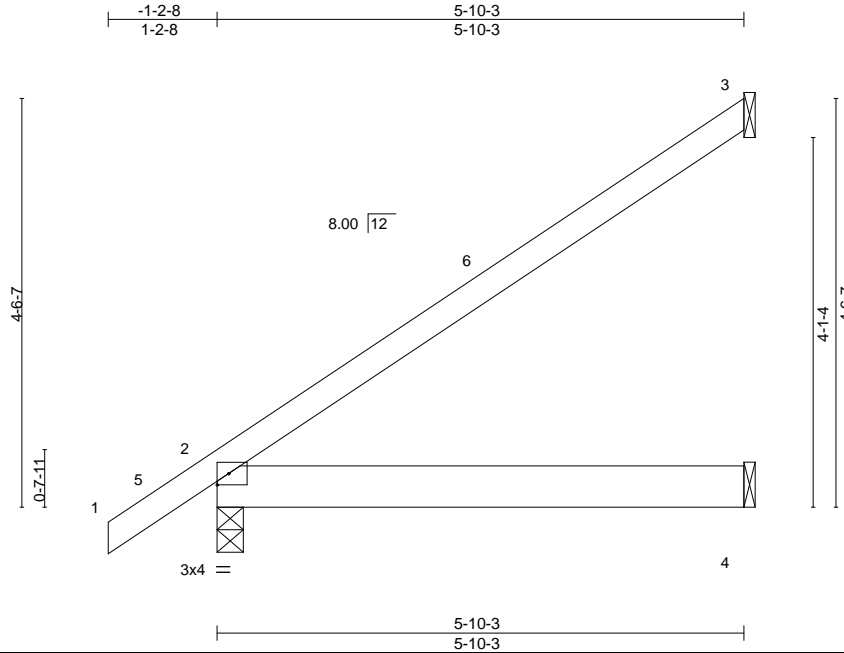
March 27, 2020

Job J1120-5314	Truss J06A	Truss Type JACK-OPEN	Qty 2	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234015
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Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:55 2020 Page 1

ID:ySiDzf4EI9mCCTg2SwIEGVzu5S1-BoYsP_jN415SrNQ62VYqK5TBWay9nOVE4WZKoWzX0VE



Scale = 1:25.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.03	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 27 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 5-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=148(LC 12)
Max Uplift 3=103(LC 12)
Max Grav 3=179(LC 19), 2=317(LC 1), 4=113(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-9-7 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3=103.



March 27, 2020

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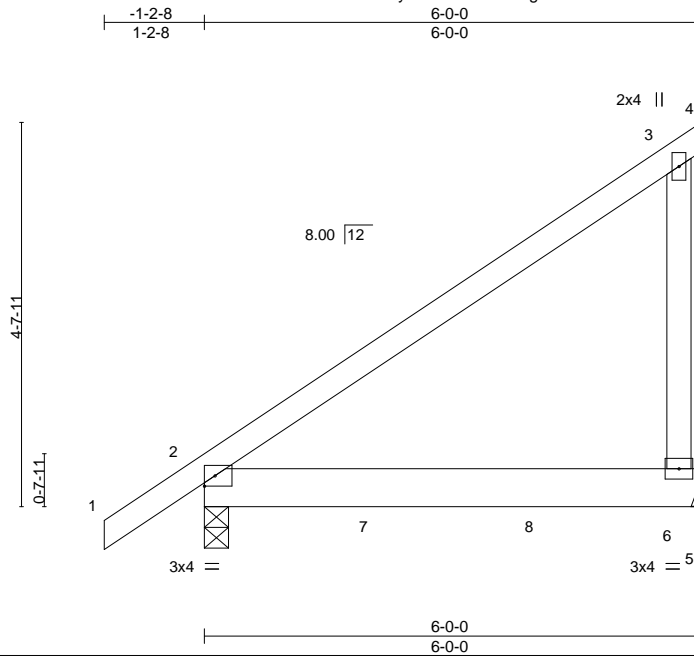


818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss J06GDR	Truss Type JACK-OPEN GIRDER	Qty 1	Ply 2	Watermark/Lot 60 South Creek/Harnett E14234016
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:55 2020 Page 1
ID:ySiDzf4E19mCCTg2SwIEGVzu5S1-BoYsP_jN415SrNQ62VYqK5TFsSanOJE4WZKoWzX0VE



Scale = 1:27.8

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 0.24	Vert(LL)	-0.07	2-6	>905	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.15	2-6	>442		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00		n/a		n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.05	2-6	>999	Weight: 66 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=152(LC 8)
Max Uplift 2=-53(LC 8), 6=-137(LC 8)
Max Grav 2=1202(LC 1), 6=1196(LC 1)

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

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 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 7-10; 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 2 except (jt=lb) 6=137.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 929 lb down and 70 lb up at 2-0-12, and 929 lb down and 70 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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=-20, 2-5=-20
Concentrated Loads (lb)
Vert: 7=-929(B) 8=-929(B)



March 27, 2020

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ENGINEERING BY
TRENCO
A MiTek Affiliate

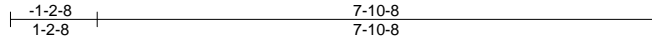
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Watermark/Lot 60 South Creek/Harnett	E14234017
J1120-5314	J08	JACK-OPEN	11	1	Job Reference (optional)	

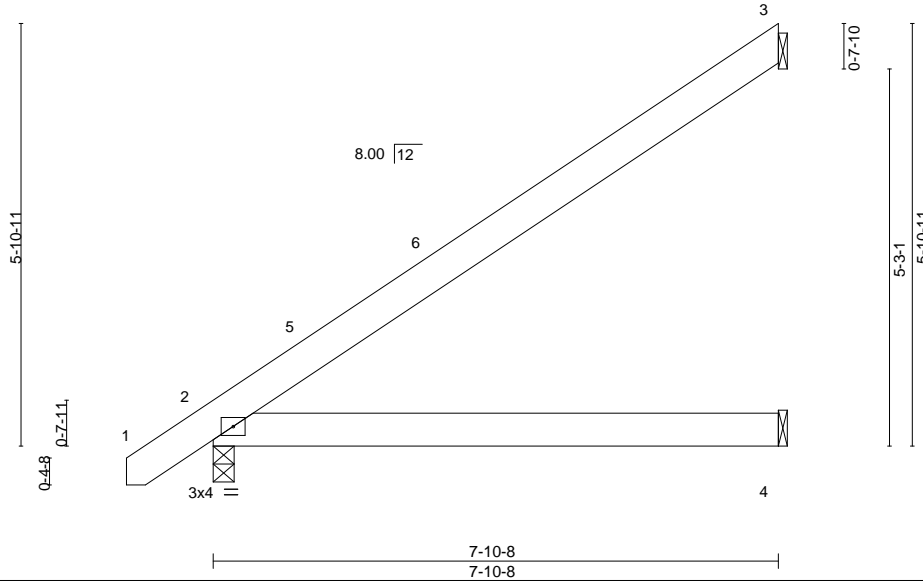
Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:56 2020 Page 1

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Scale: 3/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.09	2-4	>985	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 44 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=189(LC 12)
Max Uplift 3=138(LC 12)
Max Grav 3=248(LC 19), 2=386(LC 1), 4=153(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 7-9-12 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 3=138.



March 27, 2020

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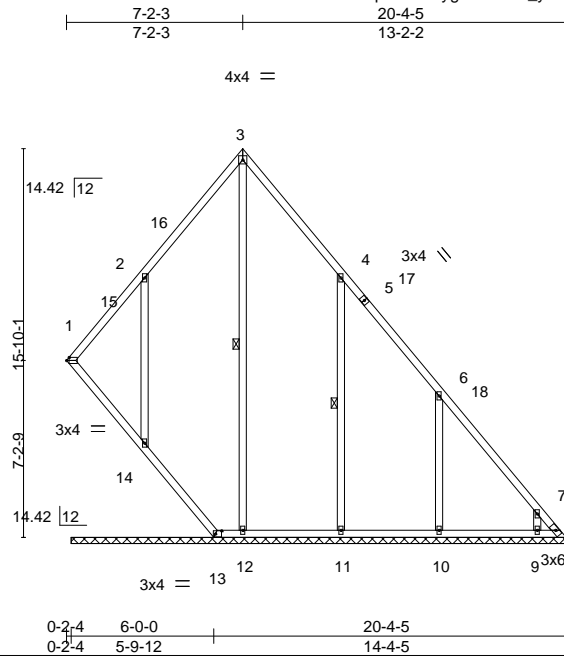


818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss LG1	Truss Type LAY-IN GABLE	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett E14234018
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8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:57 2020 Page 1
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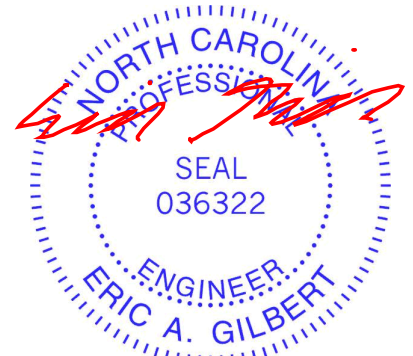
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	in (loc)	l/defl	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(LL)	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Vert(CT)	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Horz(CT)	0.02		
								Weight: 140 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
OTHERS	2x4 SP No.2		8-10-1 oc bracing: 1-14
			9-0-9 oc bracing: 13-14.
		WEBS	1 Row at midpt 3-12, 4-11

REACTIONS. All bearings 20-2-1.
 (lb) - Max Horz 1=-372(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 12 except 13=-357(LC 13), 8=-261(LC 11), 14=-238(LC 12), 11=-235(LC 13), 10=-226(LC 13), 9=-202(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 1=318(LC 13), 8=418(LC 13), 12=352(LC 22), 14=408(LC 19), 11=554(LC 20), 10=462(LC 20), 9=345(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-256/227, 2-3=-315/305, 3-4=-317/303, 6-7=-380/314, 7-8=-651/566
 BOT CHORD 1-14=-508/594, 13-14=-487/593, 12-13=-304/370, 11-12=-304/370, 10-11=-304/370, 9-10=-304/370, 8-9=-304/370
 WEBS 3-12=-320/224, 2-14=-441/371, 4-11=-456/385, 6-10=-445/368, 7-9=-408/363

- 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) 0-2-4 to 4-7-1, Interior(1) 4-7-1 to 7-2-3, Exterior(2) 7-2-3 to 11-6-15, Interior(1) 11-6-15 to 20-0-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 1, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 13=357, 8=261, 14=238, 11=235, 10=226, 9=202.
 - Non Standard bearing condition. Review required.



March 27, 2020

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818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss LG2	Truss Type LAY-IN GABLE	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234019
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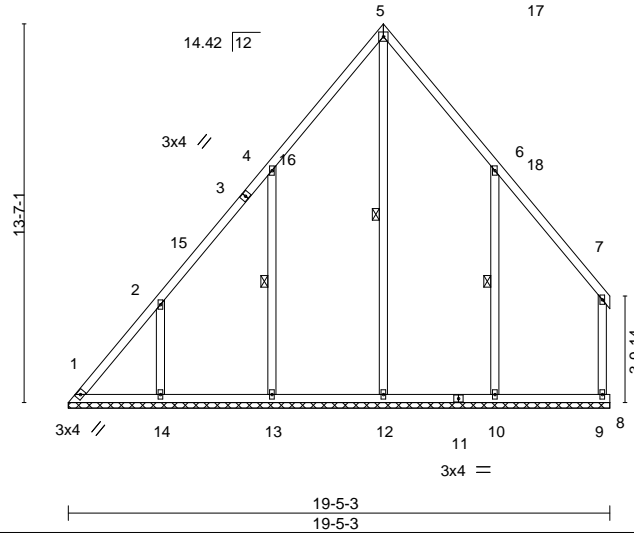
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:58 2020 Page 1
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4x4 =

Scale = 1:82.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 128 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12, 4-13, 6-10

REACTIONS.

All bearings 19-5-3.
(lb) - Max Horz 1=324(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 9 except 1=263(LC 10), 12=193(LC 11), 13=242(LC 12), 14=212(LC 12), 10=262(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 9 except 1=354(LC 9), 12=590(LC 13), 13=557(LC 19), 14=440(LC 19), 10=578(LC 20)

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

TOP CHORD 1-2=-465/448, 2-4=-373/379, 4-5=-464/508, 5-6=-467/515
WEBS 5-12=-641/458, 4-13=-468/397, 2-14=-414/357, 6-10=-494/418

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-12 to 4-8-9, Interior(1) 4-8-9 to 11-3-11, Exterior(2) 11-3-11 to 15-8-7, Interior(1) 15-8-7 to 19-1-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=263, 12=193, 13=242, 14=212, 10=262.
- Non Standard bearing condition. Review required.



March 27, 2020

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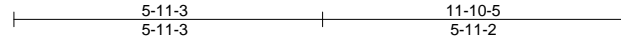
818 Soundside Road
Edenton, NC 27932

Job J1120-5314	Truss LG3	Truss Type LAY-IN GABLE	Qty 1	Ply 1	Watermark/Lot 60 South Creek/Harnett Job Reference (optional)	E14234020
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8,330 s Mar 10 2020 MiTek Industries, Inc. Thu Mar 26 15:50:59 2020 Page 1

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4x4 =

Scale = 1:44.3

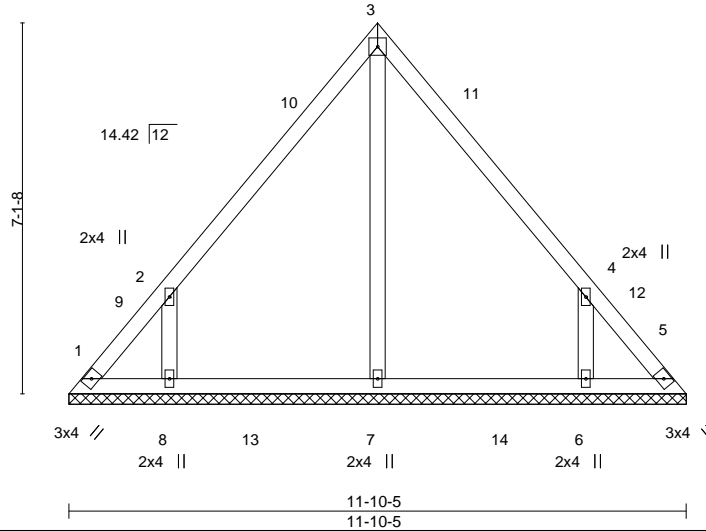


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 59 lb	FT = 20%
	Code IRC2015/TPI2014							

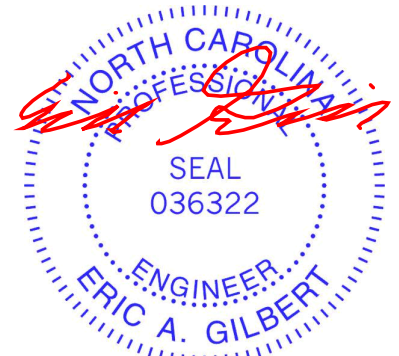
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 11-10-5.
 (lb) - Max Horz 1=-170(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-105(LC 10), 8=-214(LC 12), 6=-214(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=314(LC 19), 8=391(LC 19), 6=391(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-435/406, 4-6=-435/406

- 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) 0-3-12 to 4-8-9, Interior(1) 4-8-9 to 5-11-3, Exterior(2) 5-11-3 to 10-3-15, Interior(1) 10-3-15 to 11-6-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=105, 8=214, 6=214.



March 27, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

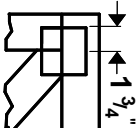
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



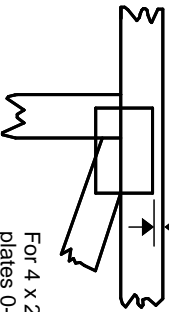
818 Soundside Road
 Edenton, NC 27932

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- 1/16" from outside edge of truss.



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



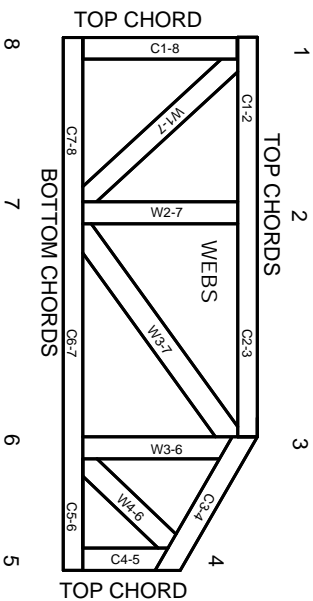
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



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