

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0424-2390
LOT 7 OVERHILLS CREEK

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

Pages or sheets covered by this seal: I65132902 thru I65132929

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



April 25, 2024

Gilbert, Eric

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

Job J0424-2390	Truss A1	Truss Type ROOF TRUSS	Qty 3	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132902
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:03 2024 Page 1

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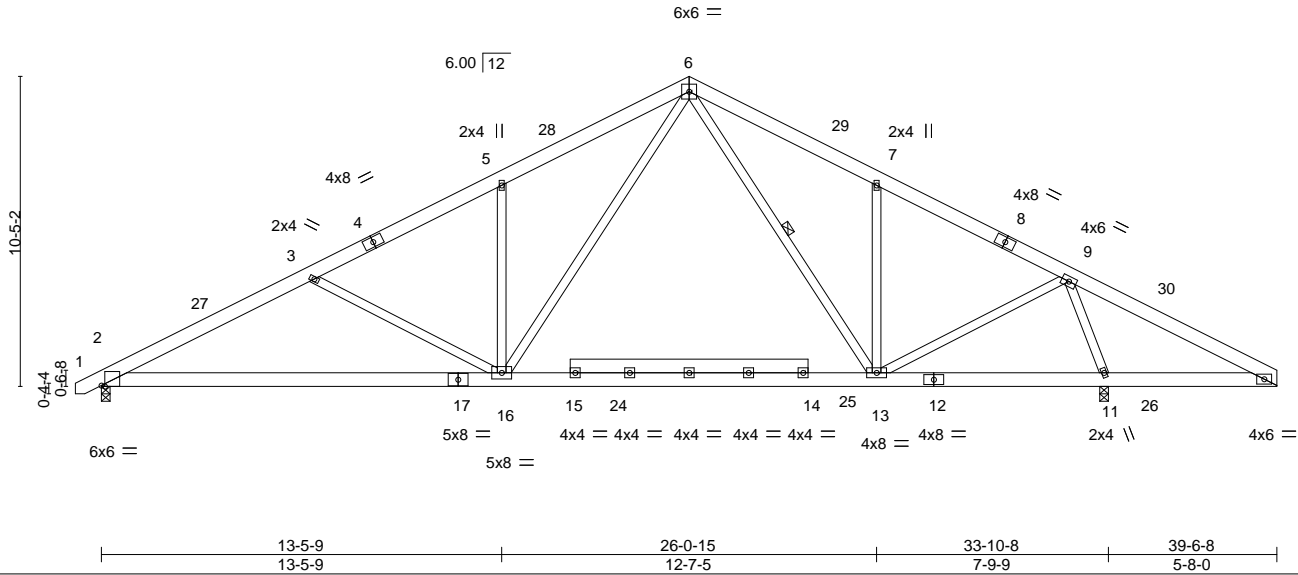


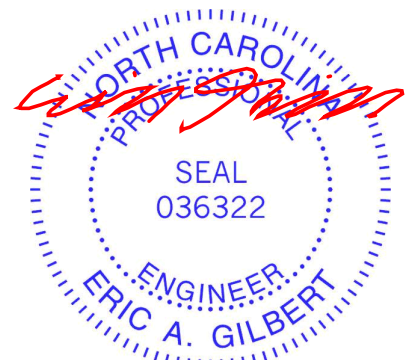
Plate Offsets (X, Y)-- [2:0-1-6,Edge]	13-5-9 13-5-9	26-0-15 12-7-5	33-10-8 7-9-9	39-6-8 5-8-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.13 13-16 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.28 16-20 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.03 11 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.05 16-20 >999 240	Weight: 296 lb FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=135(LC 9)
 Max Uplift 2=-104(LC 12), 11=-112(LC 13)
 Max Grav 2=1517(LC 2), 11=2084(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2595/458, 3-5=-2205/358, 5-6=-2187/489, 6-7=-1523/325, 7-9=-1538/183, 9-10=-537/521
 BOT CHORD 2-16=-297/2385, 13-16=0/1237, 11-13=-7/318, 10-11=-390/534
 WEBS 5-16=-378/260, 7-13=-382/241, 3-16=-506/235, 6-16=-247/1343, 6-13=-111/294, 9-13=-270/1229, 9-11=-1899/676

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 19-9-4, Exterior(2R) 19-9-4 to 24-2-1, Interior(1) 24-2-1 to 39-6-8 zone; cantilever right 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 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 104 lb uplift at joint 2 and 112 lb uplift at joint 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 25, 2024

Job J0424-2390	Truss A2	Truss Type FAN	Qty 3	Ply 1	LOT 7 OVERHILLS CREEK 165132903
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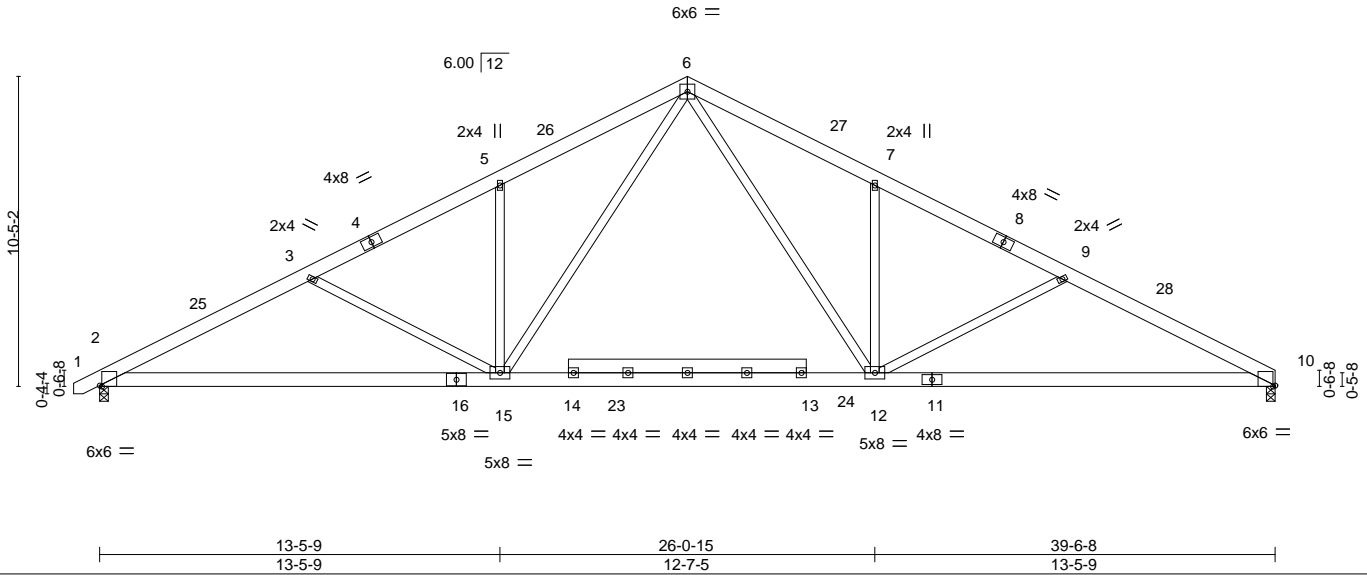
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:04 2024 Page 1

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Scale = 1:77.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.18 12-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.33 12-22 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 10 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.07 15-19 >999 240	Weight: 291 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=135(LC 9)
 Max Uplift 2=-106(LC 12), 10=-96(LC 13)
 Max Grav 2=1819(LC 2), 10=1782(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3253/635, 3-5=-2867/536, 5-6=-2848/671, 6-7=-2848/672, 7-9=-2868/541, 9-10=-3255/645
 BOT CHORD 2-15=-472/2942, 12-15=-151/1819, 10-12=-477/2895
 WEBS 5-15=-376/261, 7-12=-375/260, 3-15=-502/232, 6-15=-247/1308, 6-12=-248/1310, 9-12=-504/240

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 19-9-4, Exterior(2R) 19-9-4 to 24-2-1, Interior(1) 24-2-1 to 39-6-8 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 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 106 lb uplift at joint 2 and 96 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



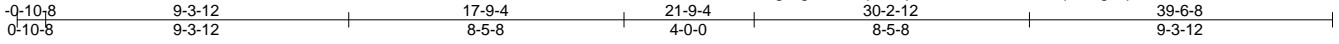
April 25, 2024

Job J0424-2390	Truss A3	Truss Type Hip	Qty 2	Ply 1	LOT 7 OVERHILLS CREEK 165132904
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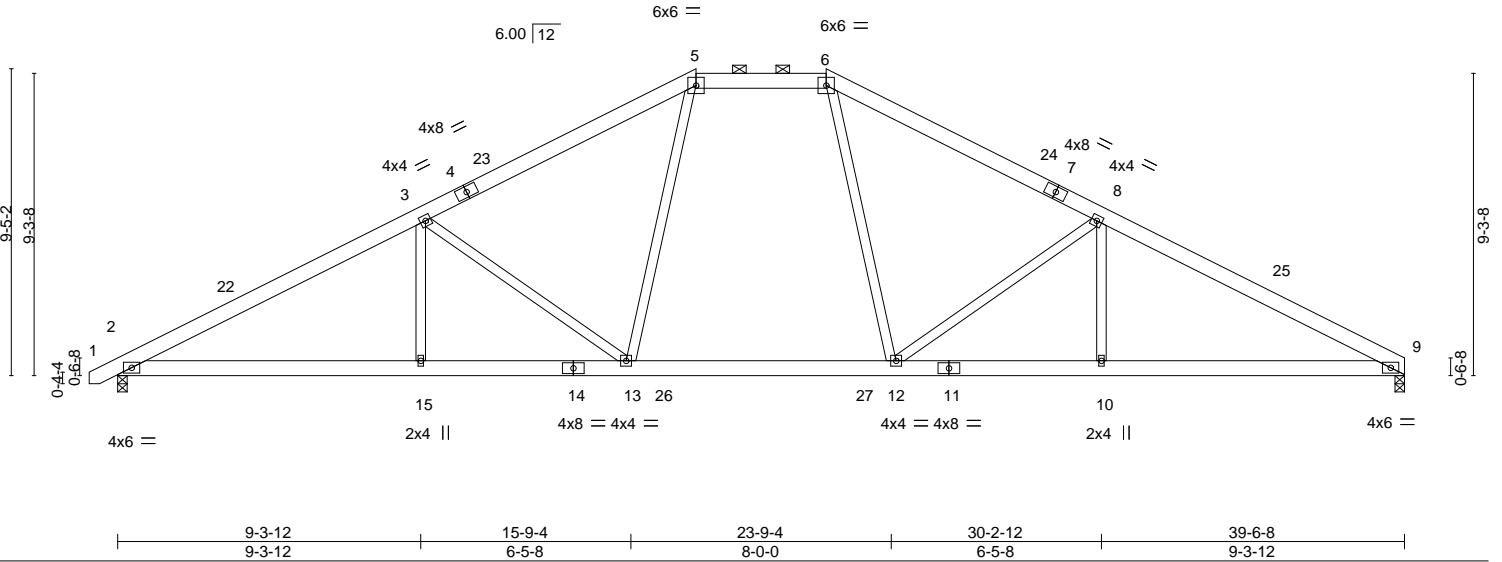
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:05 2024 Page 1

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Scale = 1:70.8



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 0.32	Vert(LL)	-0.18 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.29 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.09 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.10 13-15	>999	240	Weight: 259 lb	FT = 25%

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, except
 2-0-0 oc purlins (5-5-8 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=121(LC 9)
 Max Uplift 2=-96(LC 12), 9=-86(LC 13)
 Max Grav 2=1809(LC 2), 9=1773(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3216/596, 3-5=-2581/554, 5-6=-2034/536, 6-8=-2582/558, 8-9=-3219/594
 BOT CHORD 2-15=-434/2829, 13-15=-434/2829, 12-13=-196/2034, 10-12=-427/2831, 9-10=-427/2831
 WEBS 3-15=0/322, 3-13=-851/277, 5-13=-66/839, 6-12=-68/840, 8-12=-854/279, 8-10=0/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 17-9-4, Exterior(2E) 17-9-4 to 21-9-4, Exterior(2R) 21-9-4 to 27-11-15, Interior(1) 27-11-15 to 39-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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 96 lb uplift at joint 2 and 86 lb uplift at joint 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job J0424-2390	Truss A4	Truss Type HIP	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132905
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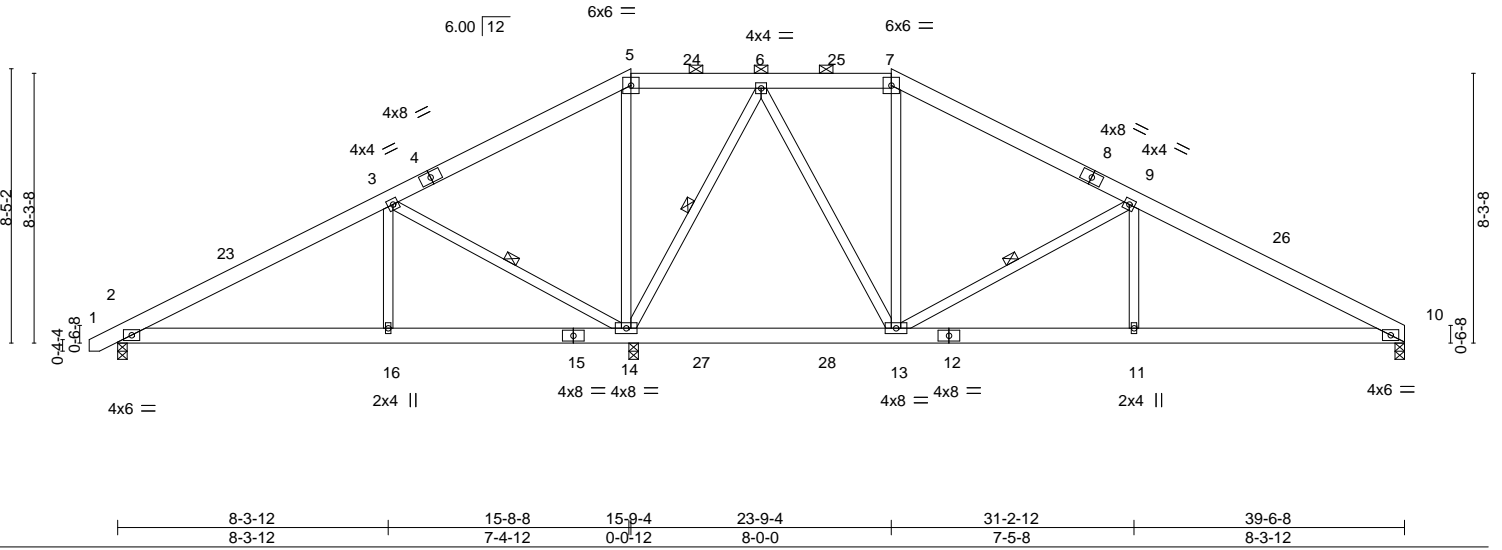
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:05 2024 Page 1

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Scale = 1:70.8



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 0.28	Vert(LL) -0.07	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT) -0.10	11-22	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT) 0.02	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL) 0.03	11-22	>999	Weight: 279 lb	FT = 25%

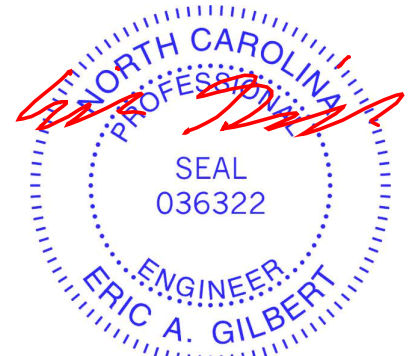
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 3-14, 9-13, 6-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 10=0-3-8
 Max Horz 2=108(LC 9)
 Max Uplift 2=-56(LC 12), 14=-48(LC 12), 10=-82(LC 13)
 Max Grav 2=471(LC 25), 14=2253(LC 2), 10=873(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-401/114, 3-5=-19/661, 5-6=0/522, 6-7=-459/249, 7-9=-606/214, 9-10=-1321/280
 BOT CHORD 2-16=-76/310, 14-16=-76/310, 11-13=-157/1143, 10-11=-157/1143
 WEBS 3-16=0/325, 3-14=-838/254, 5-14=-577/180, 9-13=-822/252, 9-11=0/326,
 6-14=-1089/243, 6-13=-135/900

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-9-4, Exterior(2R) 15-9-4 to 21-11-15, Interior(1) 21-11-15 to 23-9-4, Exterior(2R) 23-9-4 to 29-11-15, Interior(1) 29-11-15 to 39-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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 56 lb uplift at joint 2, 48 lb uplift at joint 14 and 82 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

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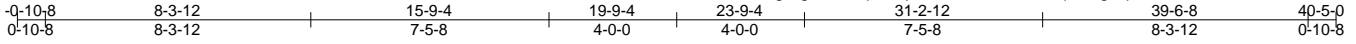
818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss A4A	Truss Type HIP	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK 165132906
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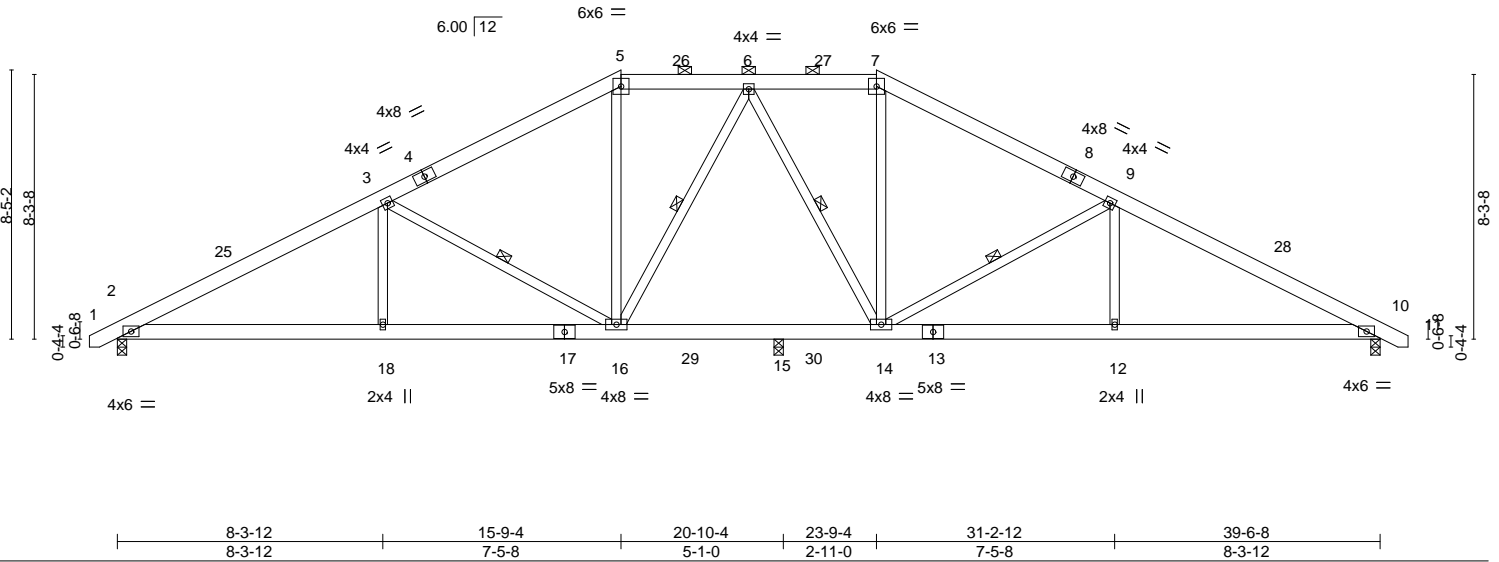
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Apr 24 10:14:06 2024 Page 1

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Scale = 1:72.1



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)	-0.11 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.22 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.07 12-14	>999	240	Weight: 281 lb	FT = 25%

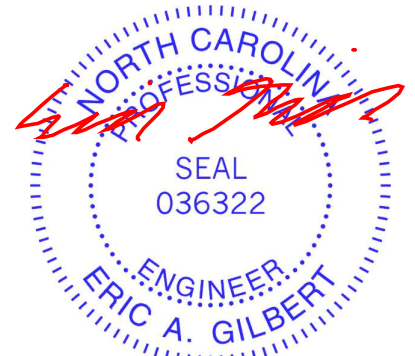
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 3-16, 9-14, 6-16, 6-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 15=0-3-8
 Max Horz 2=106(LC 10)
 Max Uplift 2=93(LC 12), 10=98(LC 13)
 Max Grav 2=1420(LC 2), 10=1385(LC 2), 15=744(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2455/535, 3-5=-1687/467, 5-6=-1426/476, 6-7=-1340/466, 7-9=-1590/456, 9-10=-2387/527
 BOT CHORD 2-18=-366/2151, 16-18=-366/2151, 15-16=-167/1425, 14-15=-167/1425, 12-14=-365/2089, 10-12=-365/2089
 WEBS 3-18=0/373, 3-16=-858/249, 5-16=-37/418, 7-14=-33/380, 9-14=-884/252, 9-12=0/393, 6-14=-334/104

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-9-4, Exterior(2R) 15-9-4 to 21-11-15, Interior(1) 21-11-15 to 23-9-4, Exterior(2R) 23-9-4 to 29-11-15, Interior(1) 29-11-15 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 98 lb uplift at joint 10.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

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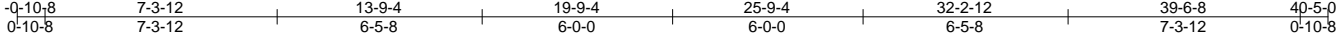
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132907
J0424-2390	A5	HIP	1	1		

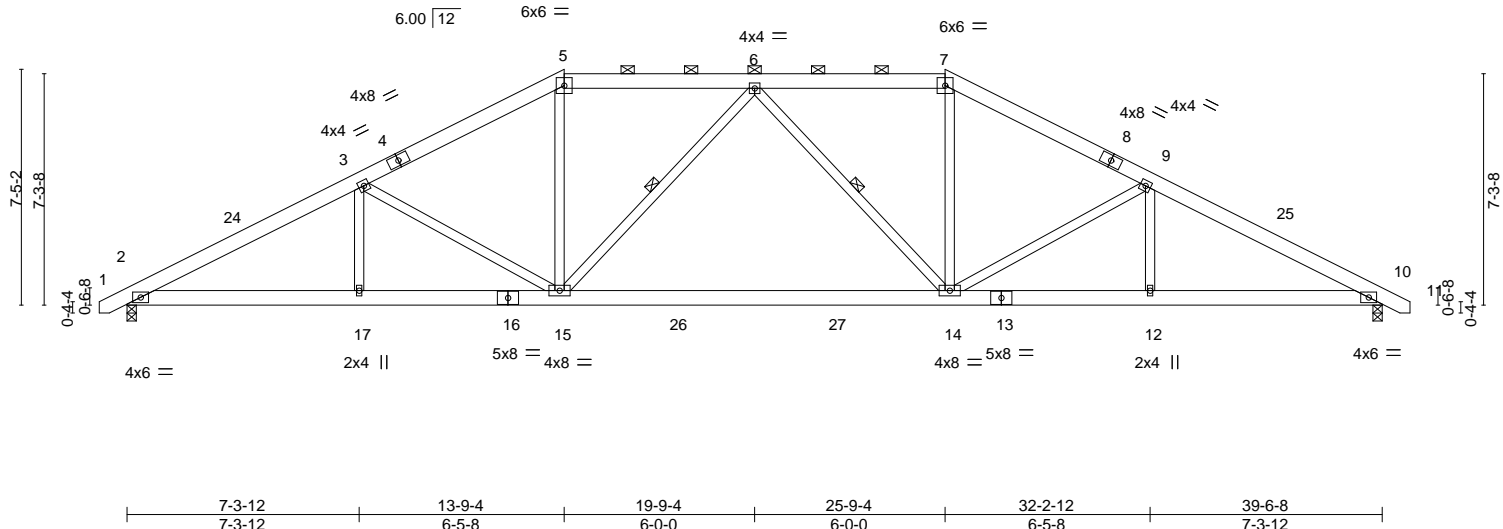
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:07 2024 Page 1

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Scale = 1:72.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.33 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.53 14-15	>888	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.07 14-15	>999	240	Weight: 273 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-11-12 max.): 5-7.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 6-15, 6-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-93(LC 10)
 Max Uplift 2=-72(LC 12), 10=-72(LC 13)
 Max Grav 2=1791(LC 2), 10=1791(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3262/623, 3-5=-2798/555, 5-6=-2429/547, 6-7=-2429/547, 7-9=-2798/555, 9-10=-3262/623
 BOT CHORD 2-17=-455/2878, 15-17=-455/2878, 14-15=-337/2577, 12-14=-461/2878, 10-12=-461/2878
 WEBS 3-15=-549/228, 5-15=-70/905, 6-15=-403/147, 6-14=-403/147, 7-14=-70/905, 9-14=-549/228

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-9-4, Exterior(2R) 13-9-4 to 19-9-4, Interior(1) 19-9-4 to 25-9-4, Exterior(2R) 25-9-4 to 32-2-12, Interior(1) 32-2-12 to 40-3-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at joint 10.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132908
J0424-2390	A5A	HIP	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

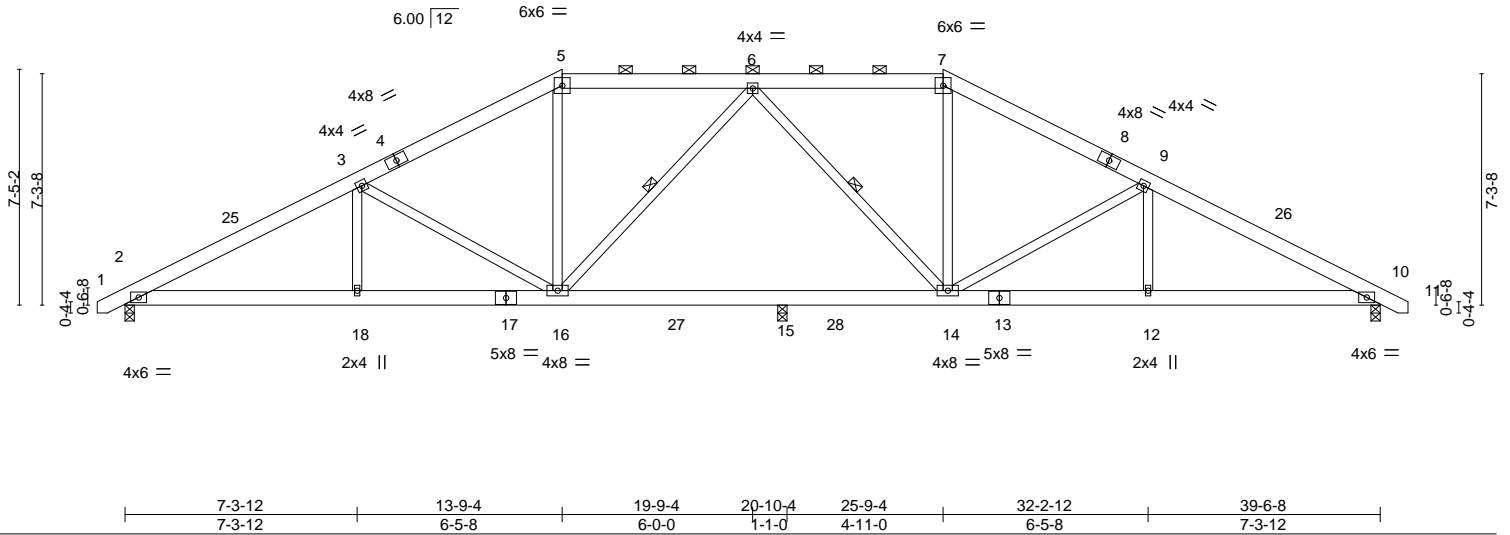
8.430 s Jan 6 2022 MITek Industries, Inc. Wed Apr 24 10:14:07 2024 Page 1

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Job Reference (optional)

0-10-8	7-3-12	13-9-4	19-9-4	25-9-4	32-2-12	39-6-8	40-5-0
0-10-8	7-3-12	6-5-8	6-0-0	6-0-0	6-5-8	7-3-12	0-10-8

Scale = 1:72.6



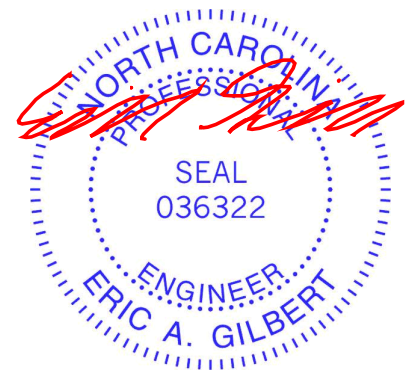
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.11 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.20 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.07 12-14	>999	240	Weight: 273 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-9-9 max.): 5-7.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 6-16, 6-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 15=0-3-8
 Max Horz 2=-93(LC 10)
 Max Uplift 2=-103(LC 12), 10=-108(LC 13)
 Max Grav 2=1518(LC 2), 10=1491(LC 2), 15=578(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2713/645, 3-5=-2092/584, 5-6=-1801/573, 6-7=-1728/576, 7-9=-2009/587,
 9-10=-2664/647
 BOT CHORD 2-18=-476/2385, 16-18=-476/2385, 15-16=-364/1910, 14-15=-364/1910, 12-14=-483/2340,
 10-12=-483/2340
 WEBS 3-18=0/305, 3-16=-694/222, 5-16=-82/593, 6-16=-372/154, 6-14=-430/141,
 7-14=-84/555, 9-14=-727/220, 9-12=0/331

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-9-4, Exterior(2R) 13-9-4 to 19-9-4, Interior(1) 19-9-4 to 25-9-4, Exterior(2R) 25-9-4 to 32-2-12, Interior(1) 32-2-12 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2 and 108 lb uplift at joint 10.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132909
J0424-2390	A6	HIP	1	1		

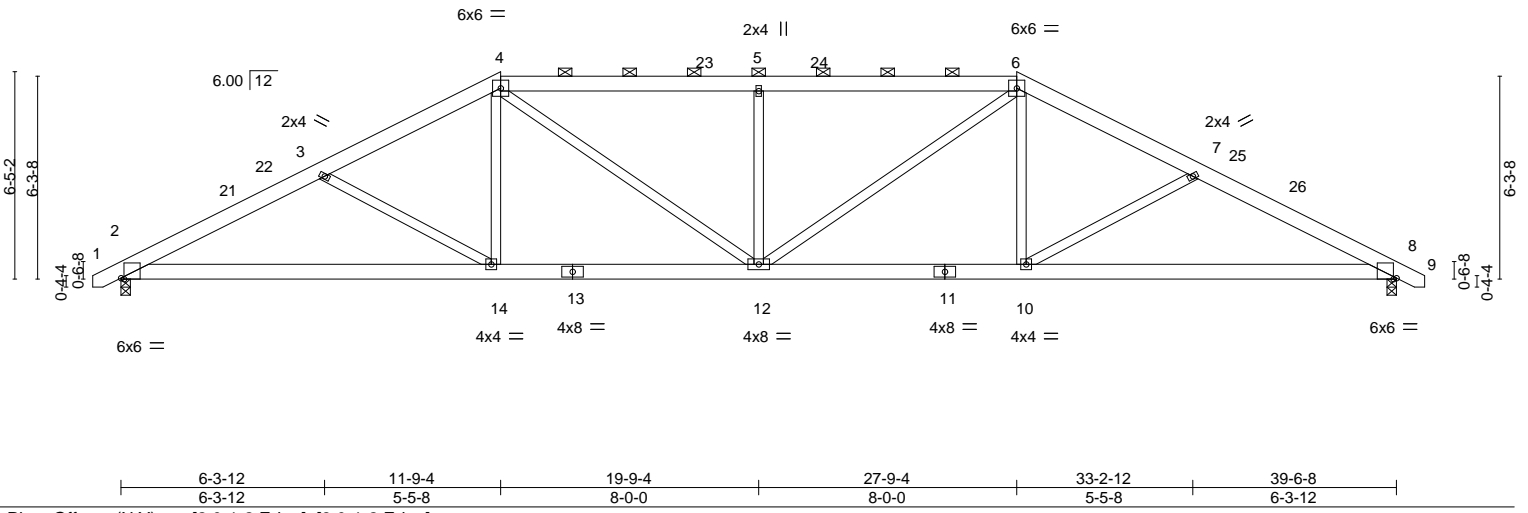
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:08 2024 Page 1

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-0-10-8	6-3-12	11-9-4	19-9-4	27-9-4	33-2-12	39-6-8	40-5-0
0-10-8	6-3-12	5-5-8	8-0-0	8-0-0	5-5-8	6-3-12	0-10-8

Scale = 1:71.4



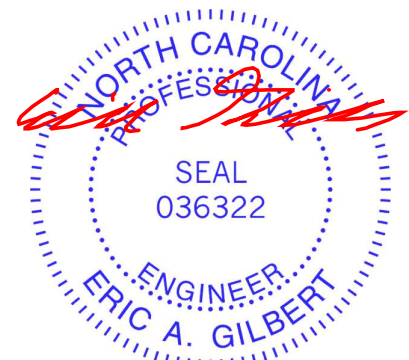
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.15 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.28 14-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.08 12	>999	240	Weight: 267 lb	FT = 25%

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-80(LC 10)
 Max Uplift 2=-58(LC 12), 8=-58(LC 13)
 Max Grav 2=1788(LC 2), 8=1788(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3239/658, 3-4=-2952/569, 4-5=-3073/658, 5-6=-3073/658, 6-7=-2952/569, 7-8=-3239/657
 BOT CHORD 2-14=-492/2880, 12-14=-306/2585, 10-12=-311/2585, 8-10=-499/2880
 WEBS 3-14=-364/215, 4-14=0/612, 4-12=-135/699, 5-12=-552/237, 6-12=-135/699, 6-10=0/612, 7-10=-364/215

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 11-9-4, Exterior(2R) 11-9-4 to 17-11-15, Interior(1) 17-11-15 to 27-9-4, Exterior(2R) 27-9-4 to 33-11-15, Interior(1) 33-11-15 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 58 lb uplift at joint 8.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132910
J0424-2390	A6A	HIP	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:09 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8	6-3-12	11-9-4	19-9-4	27-9-4	33-2-12	39-6-8	40-5-0
0-10-8	6-3-12	5-5-8	8-0-0	8-0-0	5-5-8	6-3-12	0-10-8

Scale = 1:71.6

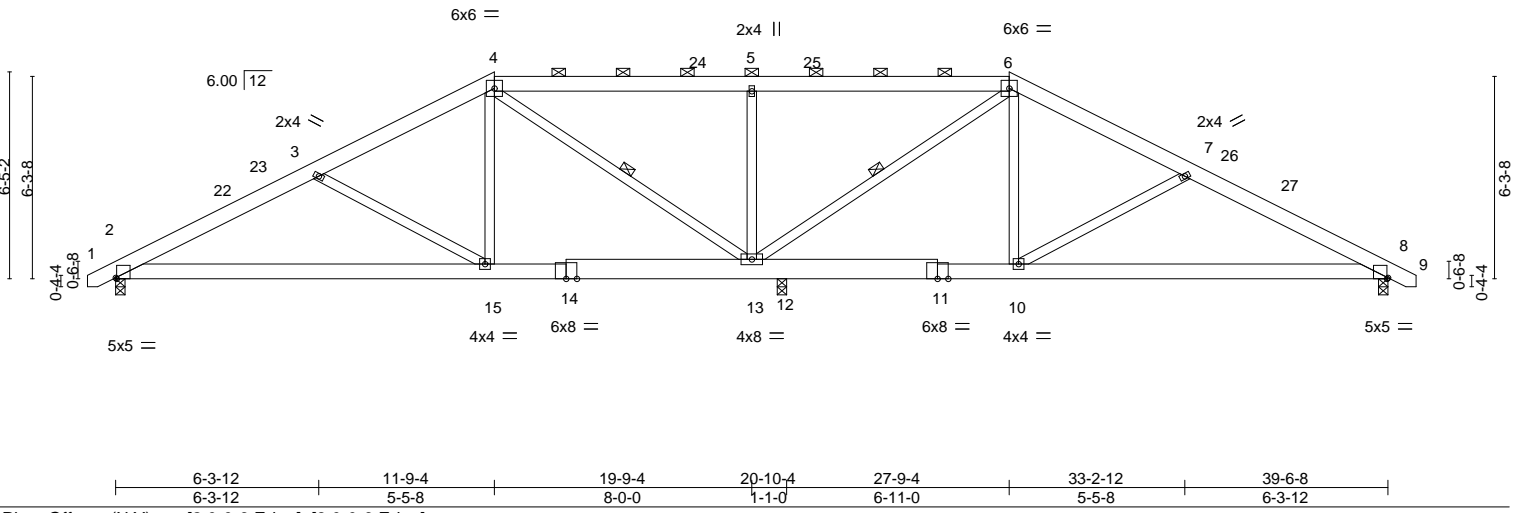


Plate Offsets (X, Y)--	[2:0-0-6,Edge], [8:0-0-6,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.09 10-21 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.19 10-21 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.03 10-21 >999 240	Weight: 275 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP 2400F 2.0E *Except*	2-0-0 oc purlins (6-0-0 max.): 4-6.
11-14: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-13, 6-13

REACTIONS.	(size) 2=0-3-8, 8=0-3-8, 12=0-3-8
	Max Horz 2=-80(LC 10)
	Max Uplift 2=-56(LC 12), 8=-62(LC 13), 12=-67(LC 9)
	Max Grav 2=951(LC 27), 8=870(LC 28), 12=1770(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1424/315, 3-4=-1104/216, 6-7=-885/177, 7-8=-1223/273
BOT CHORD	2-15=-187/1263, 13-15=-3/920, 12-13=0/721, 10-12=0/725, 8-10=-158/1091
WEBS	3-15=-410/228, 4-15=-8/714, 4-13=-958/171, 5-13=-549/237, 6-13=-710/127, 6-10=0/501, 7-10=-440/234

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 11-9-4, Exterior(2R) 11-9-4 to 17-11-15, Interior(1) 17-11-15 to 27-9-4, Exterior(2R) 27-9-4 to 33-11-15, Interior(1) 33-11-15 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2, 62 lb uplift at joint 8 and 67 lb uplift at joint 12.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132911
J0424-2390	A7	HIP	1	1		
Comtech, Inc. Fayetteville, NC - 28314,						Job Reference (optional)

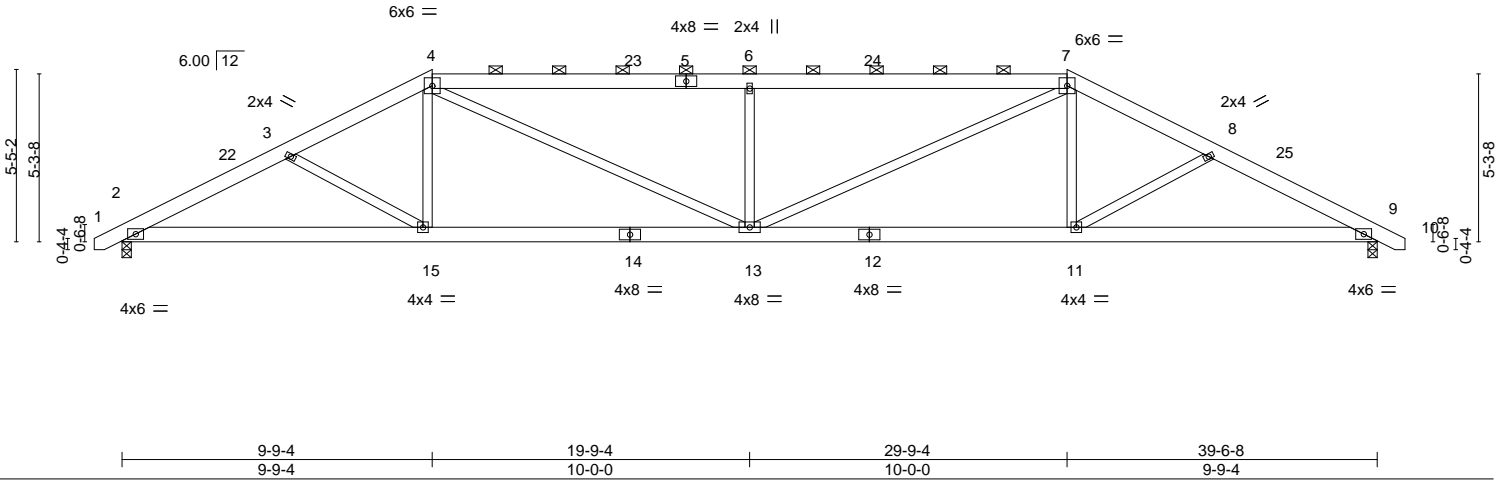
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:09 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-10-8	5-3-12	9-9-4	19-9-4	29-9-4	34-2-12	39-6-8	40-5-0
0-10-8	5-3-12	4-5-8	10-0-0	10-0-0	4-5-8	5-3-12	0-10-8

Scale = 1:72.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.16	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.32	11-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.09	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.11	13	>999	Weight: 262 lb	FT = 25%

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, except
 2-0-0 oc purlins (3-9-12 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=67(LC 10)
 Max Uplift 2=65(LC 9), 9=65(LC 8)
 Max Grav 2=1625(LC 1), 9=1625(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3000/641, 3-4=-2782/587, 4-6=-3373/739, 6-7=-3374/739, 7-8=-2781/586,
 8-9=-3001/643
 BOT CHORD 2-15=-487/2644, 13-15=-361/2474, 11-13=-356/2472, 9-11=-496/2645
 WEBS 4-15=0/445, 7-11=0/446, 6-13=-686/293, 4-13=-192/1113, 7-13=-192/1115

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 9-9-4, Exterior(2R) 9-9-4 to 15-11-15, Interior(1) 15-11-15 to 29-9-4, Exterior(2R) 29-9-4 to 35-11-15, Interior(1) 35-11-15 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2 and 65 lb uplift at joint 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss A7A	Truss Type HIP	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132912
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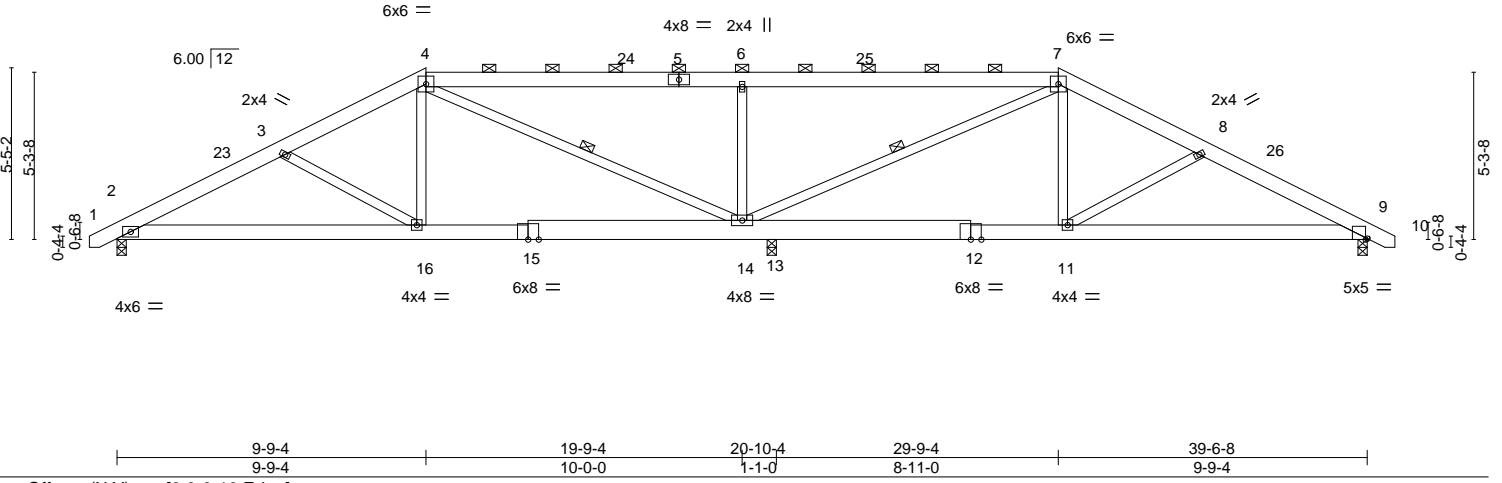
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:10 2024 Page 1

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0-10-8	5-3-12	9-9-4	19-9-4	29-9-4	34-2-12	39-6-8	40-5-0
0-10-8	5-3-12	4-5-8	10-0-0	10-0-0	4-5-8	5-3-12	0-10-8

Scale = 1:72.9



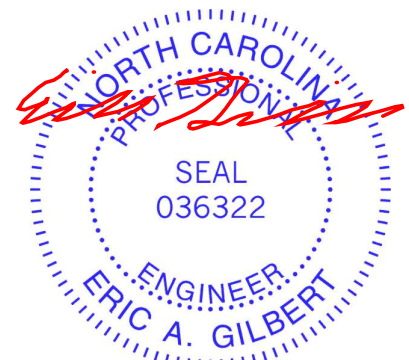
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.05 14-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.12 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.04 14-16 >999 240	Weight: 272 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP 2400F 2.0E *Except*	2-0-0 oc purlins (6-0-0 max.): 4-7.
12-15: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 7-14, 4-14

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 13=0-3-8
 Max Horz 2=-67(LC 10)
 Max Uplift 2=-53(LC 12), 9=-57(LC 13), 13=-96(LC 9)
 Max Grav 2=898(LC 25), 9=827(LC 26), 13=1526(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1437/337, 3-4=-1191/272, 4-6=-324/133, 6-7=-325/134, 7-8=-983/232, 8-9=-1252/298
 BOT CHORD 2-16=-216/1255, 14-16=-75/1019, 13-14=-33/834, 11-13=-33/836, 9-11=-190/1101
 WEBS 3-16=-260/173, 4-16=0/510, 7-14=-579/128, 7-11=0/376, 8-11=-301/183, 6-14=-684/293, 4-14=-780/173

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 9-9-4, Exterior(2R) 9-9-4 to 15-11-15, Interior(1) 15-11-15 to 29-9-4, Exterior(2R) 29-9-4 to 35-11-15, Interior(1) 35-11-15 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2, 57 lb uplift at joint 9 and 96 lb uplift at joint 13.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

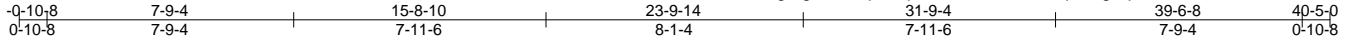
Job J0424-2390	Truss A8	Truss Type HIP	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK 165132913
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Comtech, Inc. Fayetteville, NC - 28314,

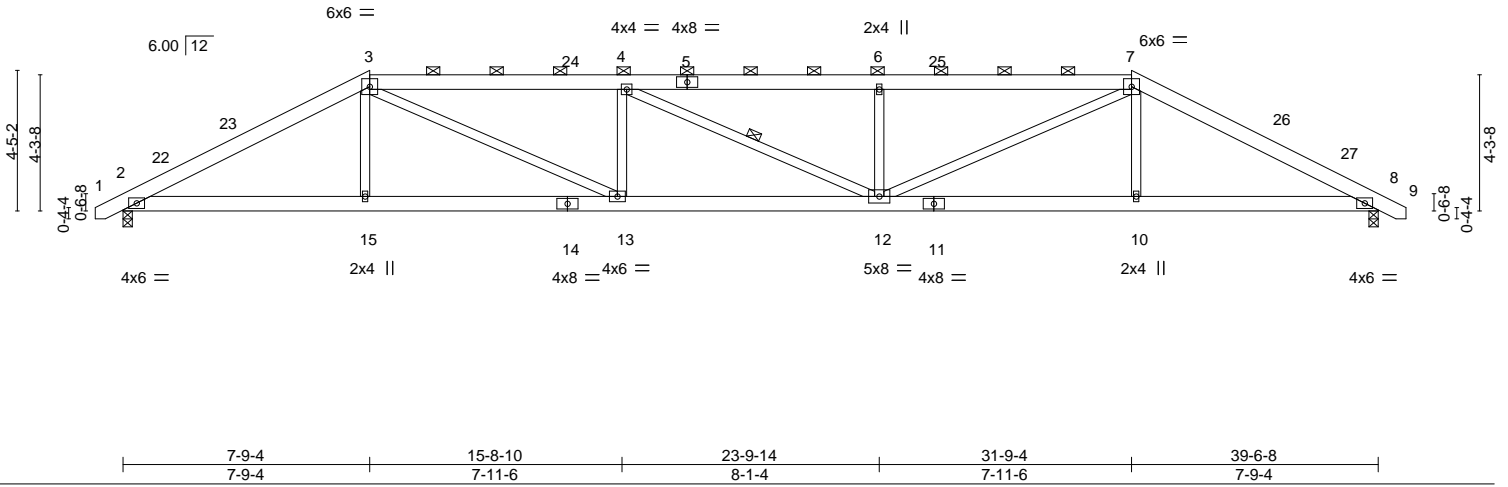
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:10 2024 Page 1

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Job Reference (optional)



Scale = 1:72.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.22 12-13	>999	360	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.45 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.10 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.17 12-13	>999	240	Weight: 253 lb	FT = 25%

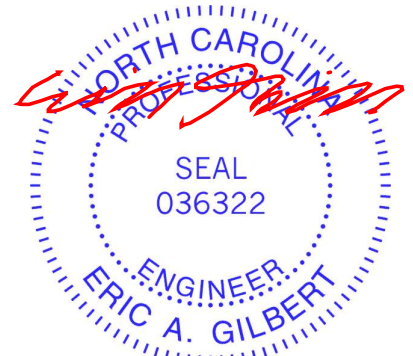
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-4 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-12

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-54(LC 10)
 Max Uplift 2=-90(LC 9), 8=-90(LC 8)
 Max Grav 2=1625(LC 1), 8=1625(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3020/599, 3-4=-3993/824, 4-6=-3989/821, 6-7=-3991/823, 7-8=-3021/599
 BOT CHORD 2-15=-415/2640, 13-15=-418/2632, 12-13=-651/3991, 10-12=-412/2633, 8-10=-409/2640
 WEBS 3-15=0/329, 3-13=-260/1618, 4-13=-549/216, 6-12=-522/226, 7-12=-257/1616,
 7-10=0/329

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 7-9-4, Exterior(2R) 7-9-4 to 13-11-15, Interior(1) 13-11-15 to 31-9-4, Exterior(2R) 31-9-4 to 37-11-15, Interior(1) 37-11-15 to 40-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 90 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

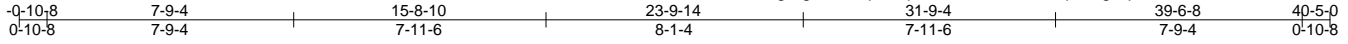
Job J0424-2390	Truss A8A	Truss Type HIP	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK 165132914
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Comtech, Inc. Fayetteville, NC - 28314,

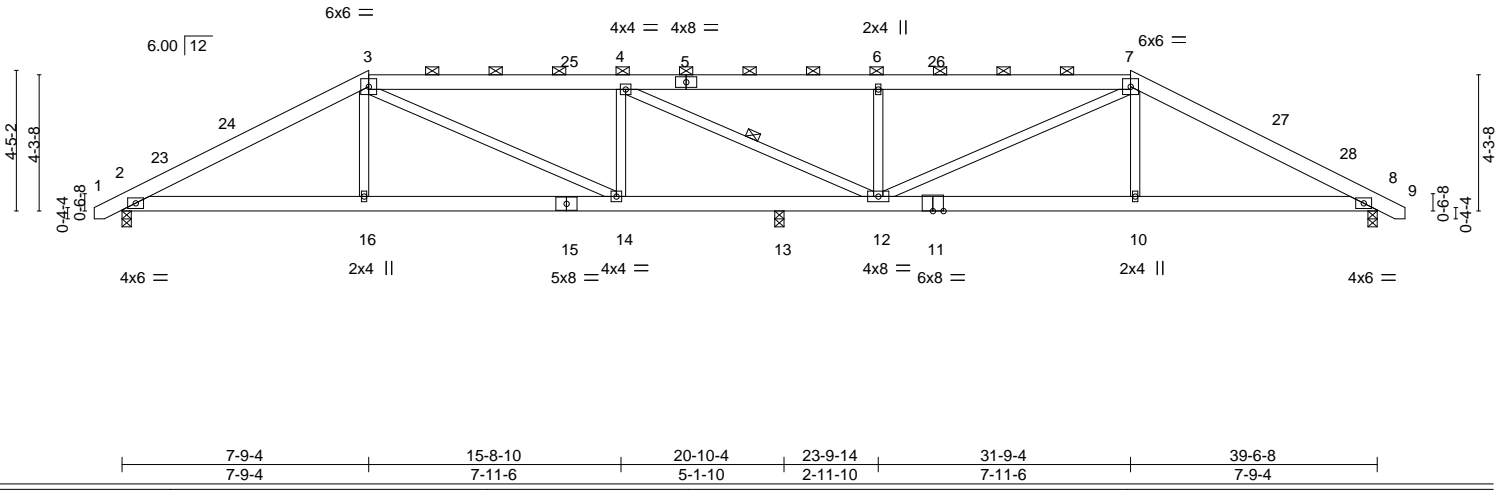
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:11 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:72.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.12 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.26 10-12	>879	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.05 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.10 10-12	>999	240	Weight: 253 lb	FT = 25%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (5-3-8 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-12

REACTIONS.

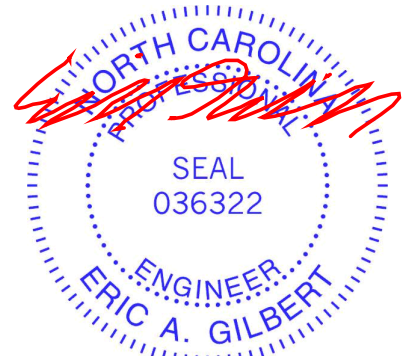
(size) 2=0-3-8, 8=0-3-8, 13=0-3-8
 Max Horz 2=-54(LC 10)
 Max Uplift 2=-60(LC 9), 8=-58(LC 8), 13=-63(LC 9)
 Max Grav 2=1174(LC 1), 8=1130(LC 1), 13=945(LC 1)

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

TOP CHORD 2-3=-2056/434, 3-4=-2030/487, 4-6=-1811/446, 6-7=-1813/447, 7-8=-1967/418
 BOT CHORD 2-16=-266/1771, 14-16=-268/1760, 13-14=-313/2029, 12-13=-313/2029, 10-12=-247/1678,
 8-10=-246/1690
 WEBS 3-16=0/412, 3-14=-134/451, 4-14=-444/197, 4-12=-292/69, 6-12=-520/226,
 7-12=-119/309, 7-10=0/434

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 7-9-4, Exterior(2R) 7-9-4 to 13-11-15, Interior(1) 13-11-15 to 31-9-4, Exterior(2R) 31-9-4 to 37-11-15, Interior(1) 37-11-15 to 40-3-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2, 58 lb uplift at joint 8 and 63 lb uplift at joint 13.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) 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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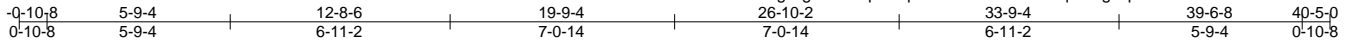
818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss A9AL	Truss Type HIP GIRDER	Qty 1	Ply 2	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132915
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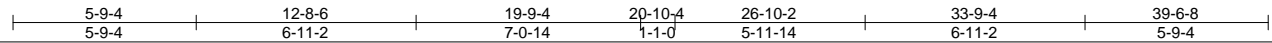
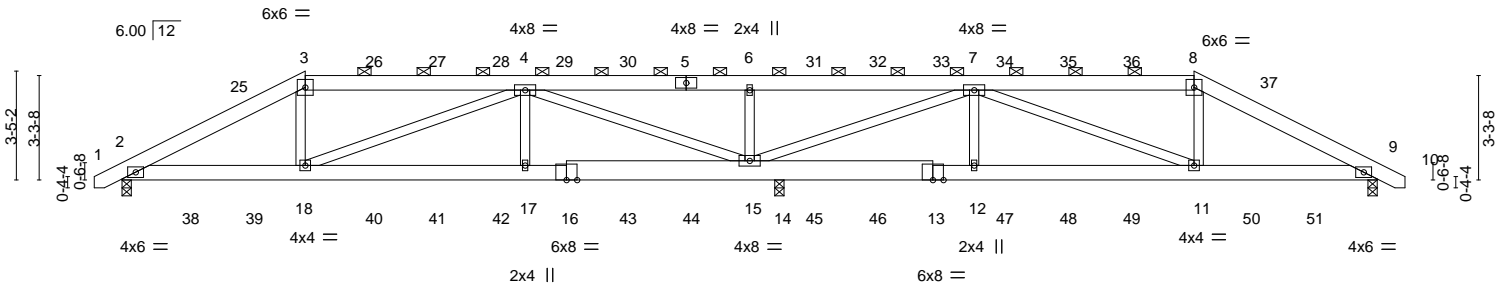
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:14 2024 Page 1

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Scale = 1:72.6



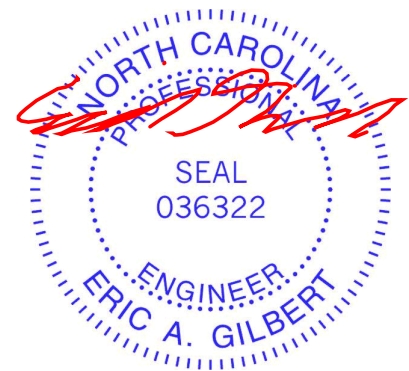
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.04 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Horz(CT)	-0.08 15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.61	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL)	0.03 15-17	>999	240		
								Weight: 524 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP 2400F 2.0E *Except*	2-0-0 oc purlins (6-0-0 max.): 3-8.
13-16: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 14=0-3-8
 Max Horz 2=-41(LC 27)
 Max Uplift 2=-148(LC 8), 9=-141(LC 9), 14=-305(LC 5)
 Max Grav 2=1526(LC 1), 9=1371(LC 22), 14=3262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2570/235, 3-4=-2261/239, 4-6=0/251, 6-7=0/251, 7-8=-1991/218, 8-9=-2268/211
 BOT CHORD 2-18=-196/2288, 17-18=-242/2453, 15-17=-242/2454, 14-15=-143/1639, 12-14=-144/1647,
 11-12=-143/1639, 9-11=-141/2012
 WEBS 3-18=0/627, 4-18=-279/82, 4-17=0/623, 4-15=-2899/292, 6-15=-761/288,
 7-15=-2029/206, 7-11=-32/379, 8-11=0/539

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2, 141 lb uplift at joint 9 and 305 lb uplift at joint 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

Continued on page 2

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Job J0424-2390	Truss A9AL	Truss Type HIP GIRDER	Qty 1	Ply 2	LOT 7 OVERHILLS CREEK Job Reference (optional)	I65132915
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:14 2024 Page 2
ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 31 lb up at 4-0-12, 93 lb down and 74 lb up at 5-9-4, 74 lb down and 74 lb up at 7-10-0, 74 lb down and 74 lb up at 9-10-0, 74 lb down and 74 lb up at 11-10-0, 74 lb down and 74 lb up at 13-10-0, 74 lb down and 74 lb up at 15-10-0, 74 lb down and 74 lb up at 17-10-0, 74 lb down and 74 lb up at 19-9-4, 74 lb down and 74 lb up at 21-8-8, 74 lb down and 74 lb up at 23-8-8, 74 lb down and 74 lb up at 25-8-8, 74 lb down and 74 lb up at 27-8-8, 74 lb down and 74 lb up at 29-8-8, 74 lb down and 74 lb up at 31-8-8, and 93 lb down and 74 lb up at 33-9-4, and 34 lb down and 31 lb up at 35-5-12 on top chord, and 216 lb down and 42 lb up at 2-0-12, 156 lb down and 30 lb up at 4-0-12, 79 lb down at 5-10-0, 79 lb down at 7-10-0, 79 lb down at 9-10-0, 79 lb down at 11-10-0, 79 lb down at 13-10-0, 79 lb down at 15-10-0, 79 lb down at 17-10-0, 79 lb down at 19-9-4, 79 lb down at 21-8-8, 79 lb down at 23-8-8, 79 lb down at 25-8-8, 79 lb down at 27-8-8, 79 lb down at 29-8-8, 79 lb down at 31-8-8, 79 lb down at 33-8-8, and 156 lb down and 30 lb up at 35-5-12, and 216 lb down and 42 lb up at 37-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 19-22=-20

Concentrated Loads (lb)

Vert: 3=-74(B) 5=-74(B) 16=-71(B) 18=-71(B) 15=-71(B) 6=-74(B) 11=-71(B) 8=-74(B) 13=-71(B) 26=-74(B) 27=-74(B) 28=-74(B) 29=-74(B) 30=-74(B) 31=-74(B) 32=-74(B) 33=-74(B) 34=-74(B) 35=-74(B) 36=-74(B) 38=-216(B) 39=-156(B) 40=-71(B) 41=-71(B) 42=-71(B) 43=-71(B) 44=-71(B) 45=-71(B) 46=-71(B) 47=-71(B) 48=-71(B) 49=-71(B) 50=-156(B) 51=-216(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job J0424-2390	Truss A9L	Truss Type HIP GIRDER	Qty 1	Ply 2	LOT 7 OVERHILLS CREEK Job Reference (optional)	I65132916
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:18 2024 Page 2
ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 31 lb up at 4-0-12, 93 lb down and 74 lb up at 5-9-4, 74 lb down and 74 lb up at 7-10-0, 74 lb down and 74 lb up at 9-10-0, 74 lb down and 74 lb up at 11-10-0, 74 lb down and 74 lb up at 13-10-0, 74 lb down and 74 lb up at 15-10-0, 74 lb down and 74 lb up at 17-10-0, 74 lb down and 74 lb up at 19-9-4, 74 lb down and 74 lb up at 21-8-8, 74 lb down and 74 lb up at 23-8-8, 74 lb down and 74 lb up at 25-8-8, 74 lb down and 74 lb up at 27-8-8, 74 lb down and 74 lb up at 29-8-8, 74 lb down and 74 lb up at 31-8-8, and 93 lb down and 74 lb up at 33-9-4, and 34 lb down and 31 lb up at 35-5-12 on top chord, and 216 lb down and 42 lb up at 2-0-12, 156 lb down and 30 lb up at 4-0-12, 79 lb down at 5-10-0, 79 lb down at 7-10-0, 79 lb down at 9-10-0, 79 lb down at 11-10-0, 79 lb down at 13-10-0, 79 lb down at 15-10-0, 79 lb down at 17-10-0, 79 lb down at 19-9-4, 79 lb down at 21-8-8, 79 lb down at 23-8-8, 79 lb down at 25-8-8, 79 lb down at 27-8-8, 79 lb down at 29-8-8, 79 lb down at 31-8-8, 79 lb down at 33-8-8, and 156 lb down and 30 lb up at 35-5-12, and 216 lb down and 42 lb up at 37-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 18-21=-20

Concentrated Loads (lb)

Vert: 3=-74(F) 5=-74(F) 15=-71(F) 17=-71(F) 14=-71(F) 6=-74(F) 11=-71(F) 8=-74(F) 13=-71(F) 25=-74(F) 26=-74(F) 27=-74(F) 28=-74(F) 29=-74(F) 30=-74(F) 31=-74(F) 32=-74(F) 33=-74(F) 34=-74(F) 35=-74(F) 37=-216(F) 38=-156(F) 39=-71(F) 40=-71(F) 41=-71(F) 42=-71(F) 43=-71(F) 44=-71(F) 45=-71(F) 46=-71(F) 47=-71(F) 48=-71(F) 49=-156(F) 50=-216(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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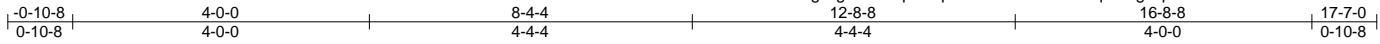
818 Soundside Road
Edenton, NC 27932

Job J0424-2390	Truss B1L	Truss Type HIP GIRDER	Qty 1	Ply 2	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132917
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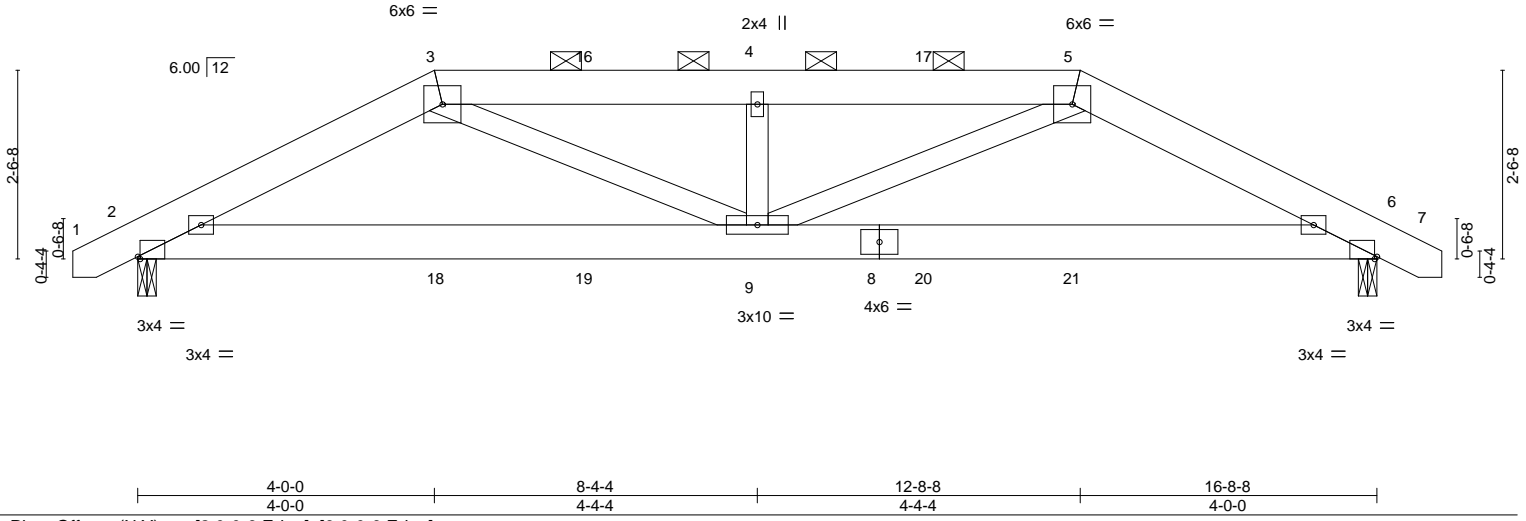
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:19 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:31.1



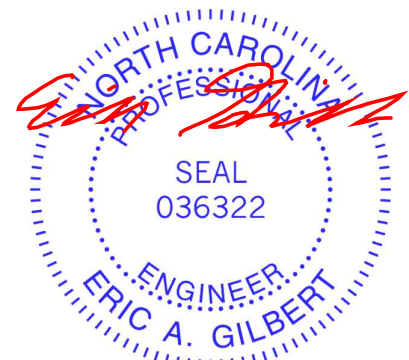
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.03	9-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.05	9-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 203 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 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=0-3-0, 6=0-3-0
 Max Horz 2=-31(LC 27)
 Max Uplift 2=-316(LC 5), 6=-316(LC 4)
 Max Grav 2=999(LC 1), 6=999(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1644/578, 3-4=-2222/814, 4-5=-2222/814, 5-6=-1644/579
 BOT CHORD 2-9=-507/1470, 6-9=-484/1470
 WEBS 3-9=-338/870, 4-9=-314/141, 5-9=-339/870

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 2 and 316 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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) 69 lb down and 54 lb up at 4-0-10, 39 lb down and 52 lb up at 6-0-12, 39 lb down and 52 lb up at 8-0-12, 39 lb down and 52 lb up at 8-7-12, and 39 lb down and 52 lb up at 10-7-12, and 69 lb down and 54 lb up at 12-7-14 on top chord, and 110 lb down and 26 lb up at 4-0-12, 43 lb down and 49 lb up at 6-0-12, 43 lb down and 49 lb up at 8-0-12, 43 lb down and 49 lb up at 8-7-12, and 43 lb down and 49 lb up at 10-7-12, and 110 lb down and 26 lb up at 12-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



April 25, 2024

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITEK Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss B1L	Truss Type HIP GIRDER	Qty 1	Ply 2	LOT 7 OVERHILLS CREEK I65132917 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:19 2024 Page 2
ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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, 10-13=-20

Concentrated Loads (lb)

Vert: 3=-35(F) 5=-35(F) 9=-85(F) 4=-58(F) 16=-29(F) 17=-29(F) 18=-110(F) 19=-43(F) 20=-43(F) 21=-110(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



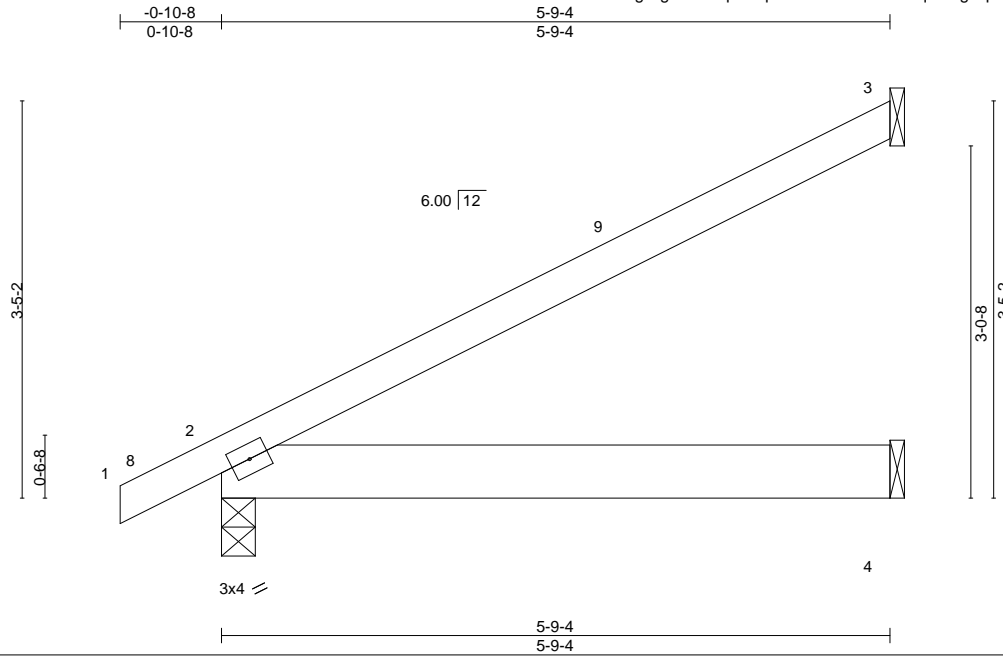
818 Soundside Road
Edenton, NC 27932

Job J0424-2390	Truss J1	Truss Type JACK-OPEN	Qty 30	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	I65132919
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:20 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.02	4-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	-0.03	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.03	4-7	>999		
	Code IRC2018/TPI2014						Weight: 25 lb	FT = 25%

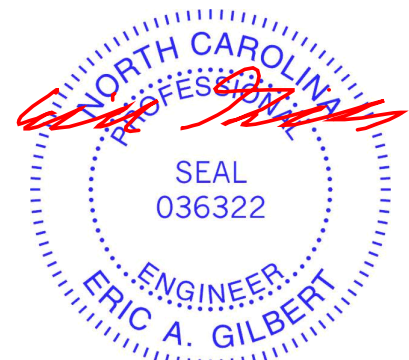
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=104(LC 12)
 Max Uplift 3=61(LC 12), 2=12(LC 12)
 Max Grav 3=134(LC 1), 2=285(LC 1), 4=119(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; 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(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-8-8 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 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 3 and 12 lb uplift at joint 2.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 25, 2024

Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132920
J0424-2390	J2	HALF HIP	4	1		

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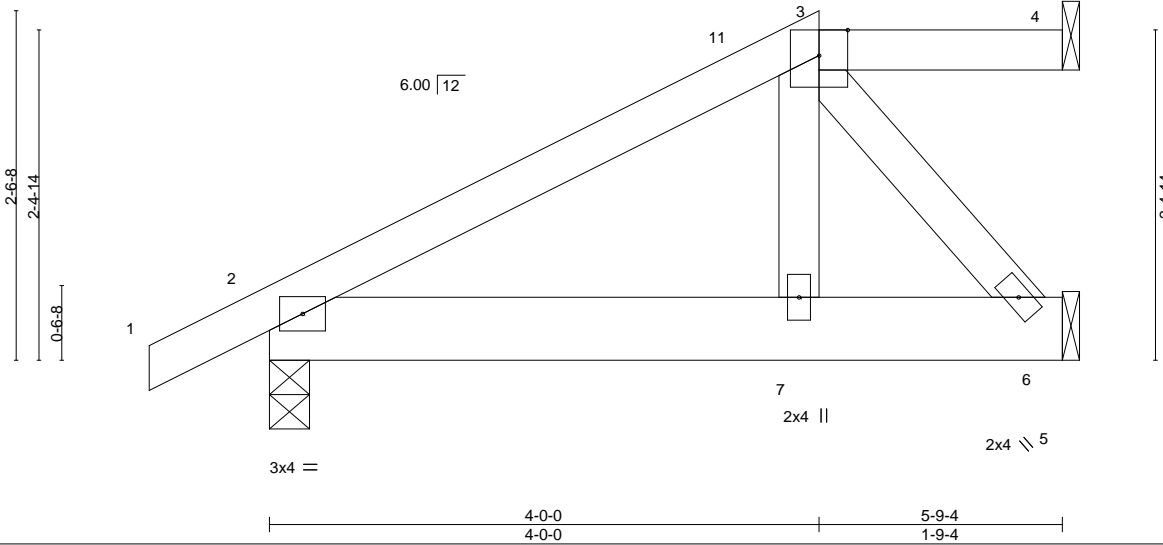
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:20 2024 Page 1

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5x5 =

Scale = 1:16.8



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 0.12	Vert(LL)	-0.00 7-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01 7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.01 7-10	>999	240	Weight: 31 lb	FT = 25%

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

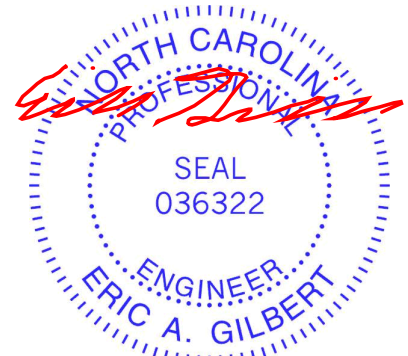
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 6=Mechanical
 Max Horz 2=73(LC 12)
 Max Uplift 4=18(LC 8), 2=23(LC 12), 6=10(LC 12)
 Max Grav 4=51(LC 1), 2=283(LC 1), 6=176(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-0-0, Exterior(2E) 4-0-0 to 5-8-8 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 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4, 23 lb uplift at joint 2 and 10 lb uplift at joint 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

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818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss J3	Truss Type HALF HIP GIRDER	Qty 4	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132921
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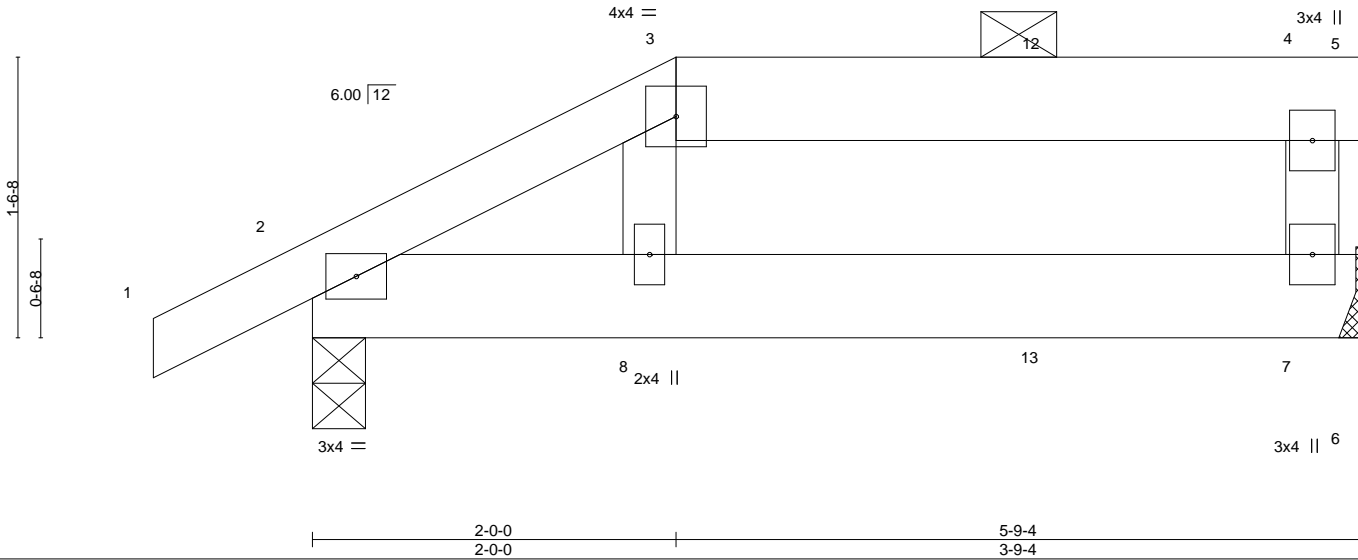
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:21 2024 Page 1

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Scale = 1:12.7



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 0.08	Vert(LL)	-0.02	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.04	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP	Wind(LL)	0.01	7-8	>999	Weight: 29 lb	FT = 25%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=43(LC 29)
Max Uplift 7=-22(LC 5), 2=-22(LC 8)
Max Grav 7=236(LC 1), 2=284(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 7 and 22 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) 15 lb down and 23 lb up at 2-0-0, and 15 lb down and 21 lb up at 4-0-12 on top chord, and 15 lb down at 2-0-12, and 15 lb down at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-20, 6-9=-20
Concentrated Loads (lb)
Vert: 8=-8(F) 13=-8(F)



April 25, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job J0424-2390	Truss J4	Truss Type JACK-OPEN	Qty 10	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	I65132922
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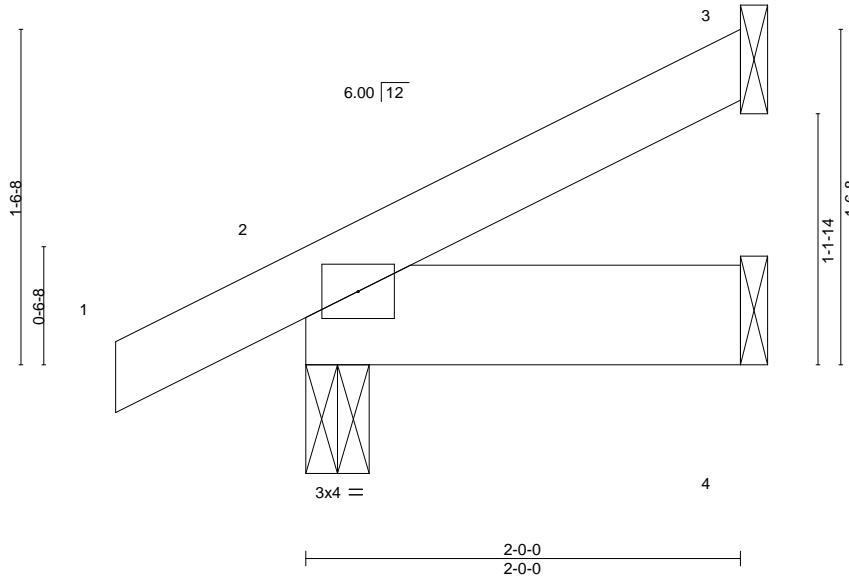
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:21 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:10.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>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 IRC2018/TPI2014		Matrix-MP							
									Weight: 10 lb	FT = 25%

LUMBER-

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

BRACING-

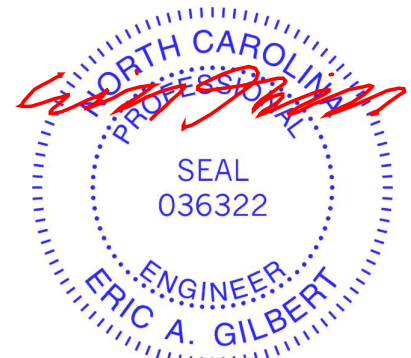
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=44(LC 12)
Max Uplift 3=-18(LC 12), 2=-21(LC 8), 4=-15(LC 9)
Max Grav 3=40(LC 1), 2=144(LC 1), 4=40(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3, 21 lb uplift at joint 2 and 15 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 25, 2024

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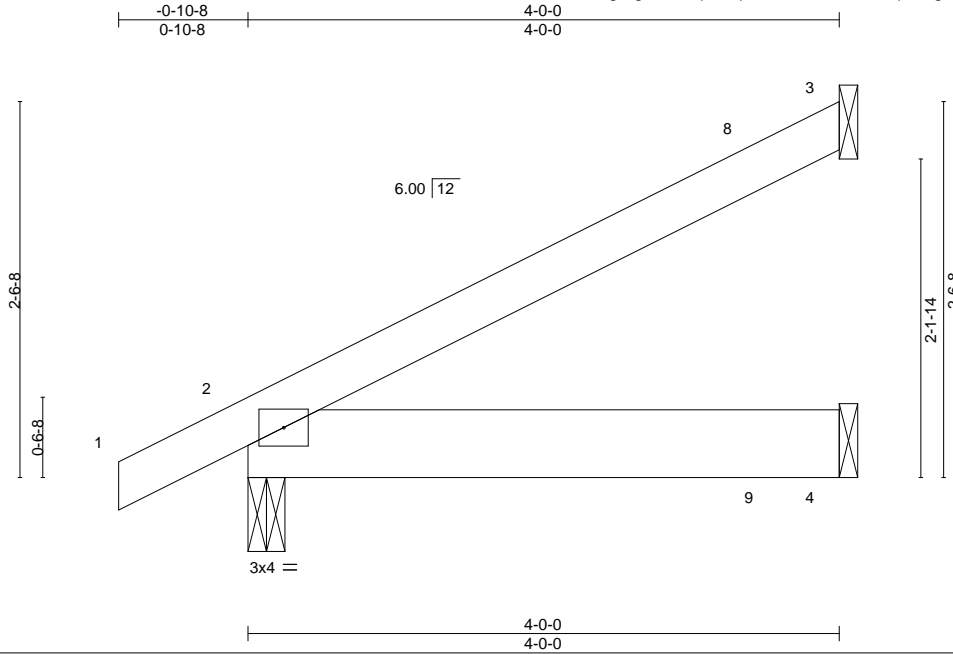
818 Soundside Road
Edenton, NC 27932

Job J0424-2390	Truss J5	Truss Type JACK-OPEN	Qty 4	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	I65132923
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:22 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	-0.01	4-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	-0.01	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.02	4-7	>999	Weight: 18 lb	FT = 25%
	Code IRC2018/TPI2014							

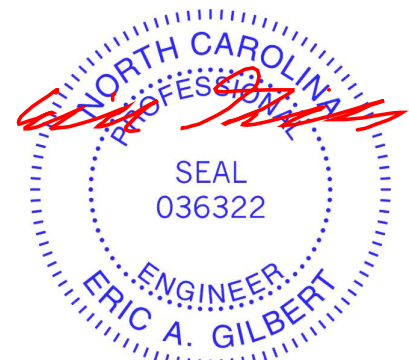
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=75(LC 12)
Max Uplift 3=-41(LC 12), 2=-34(LC 9), 4=-29(LC 9)
Max Grav 3=89(LC 1), 2=216(LC 1), 4=82(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; 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(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 3, 34 lb uplift at joint 2 and 29 lb uplift at joint 4.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



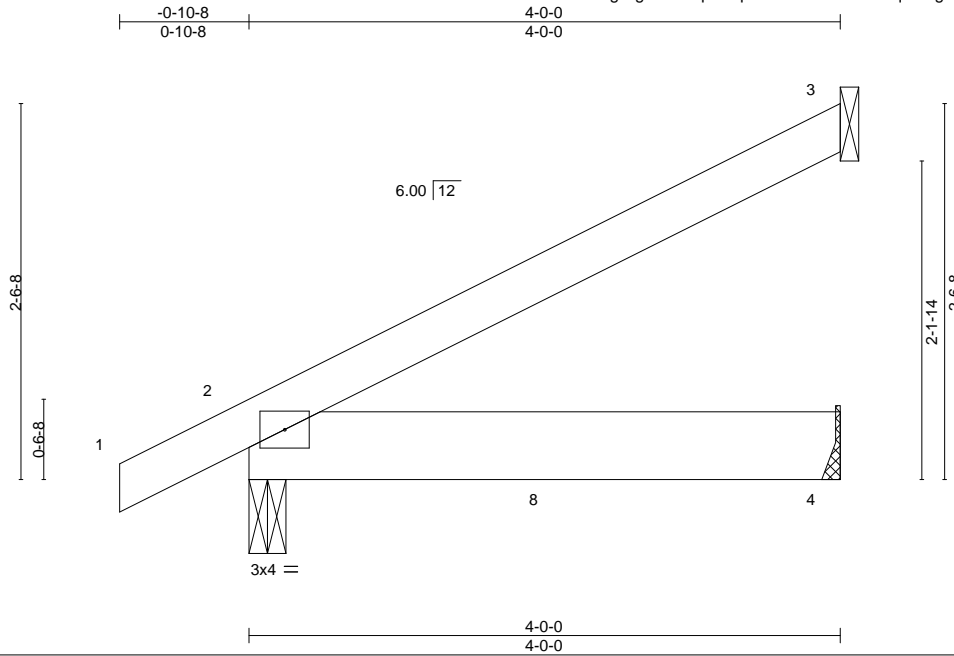
April 25, 2024

Job J0424-2390	Truss J6	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	I65132924
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8.430 s Jan 6 2022 MITek Industries, Inc. Wed Apr 24 10:14:22 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:15.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.01 4-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	-0.02 4-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Wind(LL)	0.01 4-7	>999	240		
	Code IRC2018/TPI2014						Weight: 18 lb	FT = 25%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=75(LC 8)
Max Uplift 3=43(LC 8), 2=-44(LC 8), 4=-26(LC 8)
Max Grav 3=95(LC 1), 2=282(LC 1), 4=130(LC 1)

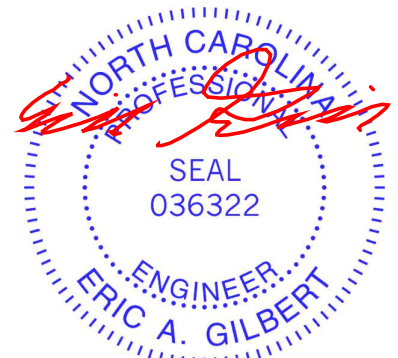
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; 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 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3, 44 lb uplift at joint 2 and 26 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 76 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 8=-139(F)



April 25, 2024

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ENGINEERING BY
TRENCO
A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LOT 7 OVERHILLS CREEK	165132925
J0424-2390	J7	HALF HIP	2	1	Job Reference (optional)	

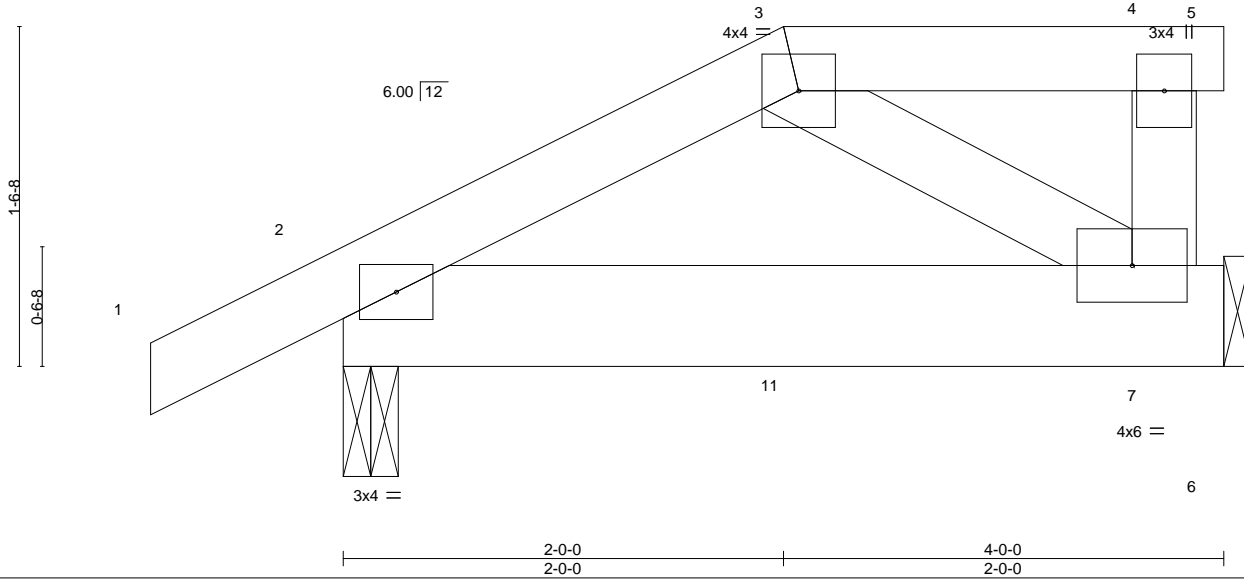
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:23 2024 Page 1

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Scale = 1:10.5



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 0.07	Vert(LL)	-0.00 7-10	>999	360	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00 7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.01 7-10	>999	240		
								Weight: 21 lb	FT = 25%

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, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 7=Mechanical
 Max Horz 2=44(LC 12)
 Max Uplift 2=44(LC 9), 7=56(LC 9)
 Max Grav 2=211(LC 1), 7=159(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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(2E) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2 and 56 lb uplift at joint 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 15 lb down and 60 lb up at 2-0-7 on top chord, and 109 lb down at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-5=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 11=-8(F)



April 25, 2024

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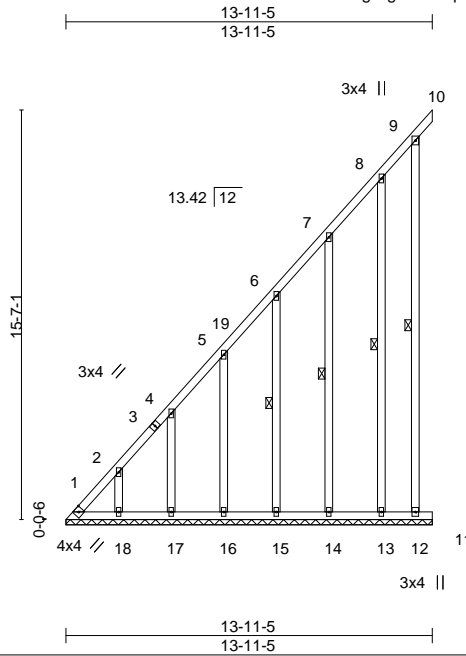
818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss LG1	Truss Type GABLE	Qty 4	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132926
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:23 2024 Page 1

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Scale = 1:87.7

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 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.02	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 137 lb	FT = 25%

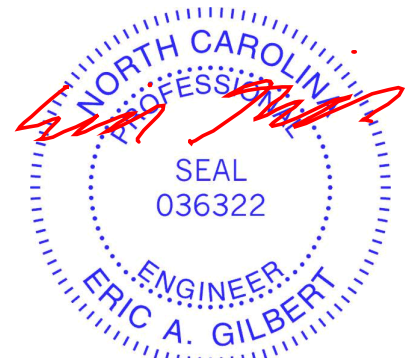
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

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 9-12, 8-13, 7-14, 6-15

REACTIONS. All bearings 13-11-5.
 (lb) - Max Horz 1=496(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 12, 13, 15, 16, 17 except 1=-217(LC 10), 14=-102(LC 12), 18=-101(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 10, 12, 11, 13, 14, 15, 16, 17, 18 except 1=523(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-981/855, 2-4=-826/728, 4-5=-661/597, 5-6=-504/466, 6-7=-362/337

- NOTES-**
- 1) Wind: ASCE 7-16; 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 Corner(3) 0-3-15 to 6-6-9, Exterior(2R) 6-6-9 to 13-11-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are 2x4 MT20 unless otherwise indicated.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 12, 13, 15, 16, 17 except (jt=lb) 1=217, 14=102, 18=101.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 25, 2024

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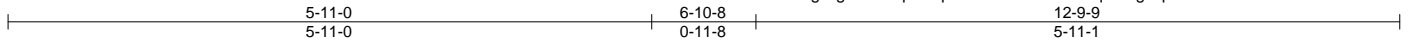
818 Soundside Road
 Edenton, NC 27932

Job J0424-2390	Truss VB1	Truss Type GABLE	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132927
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:24 2024 Page 1

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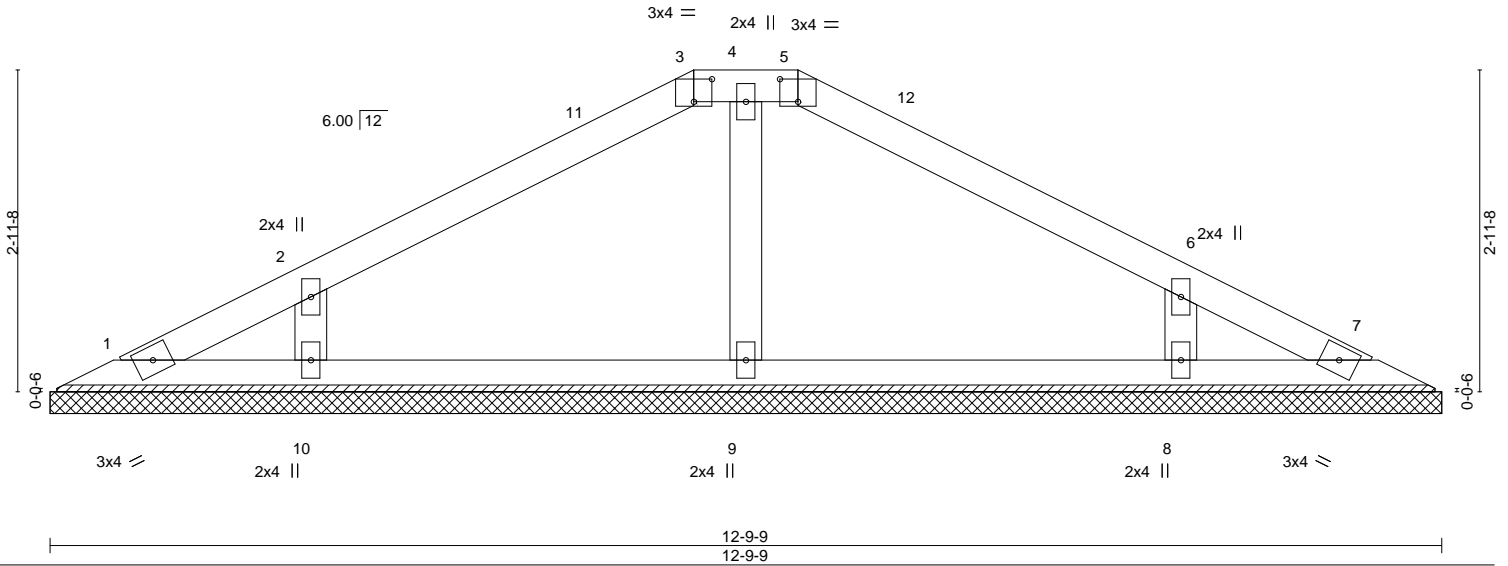


Plate Offsets (X,Y)--	[3:0-2-0,0-2-8], [5:0-2-0,0-2-8], [6:0-0-0,0-0-0]
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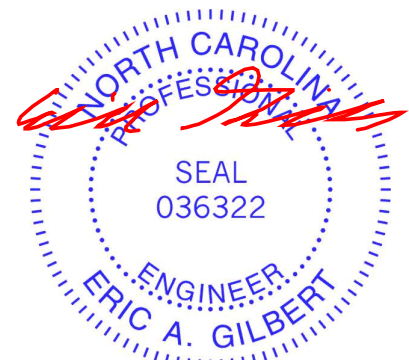
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 43 lb	FT = 25%

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

REACTIONS. All bearings 12-9-9.
 (lb) - Max Horz 1=35(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=279(LC 1), 10=284(LC 25), 8=284(LC 26)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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(2E) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-11-0, Exterior(2E) 5-11-0 to 12-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 25, 2024

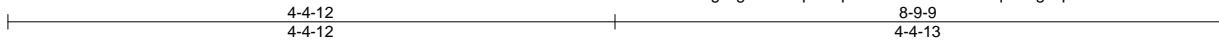
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0424-2390	Truss VB2	Truss Type VALLEY	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132928
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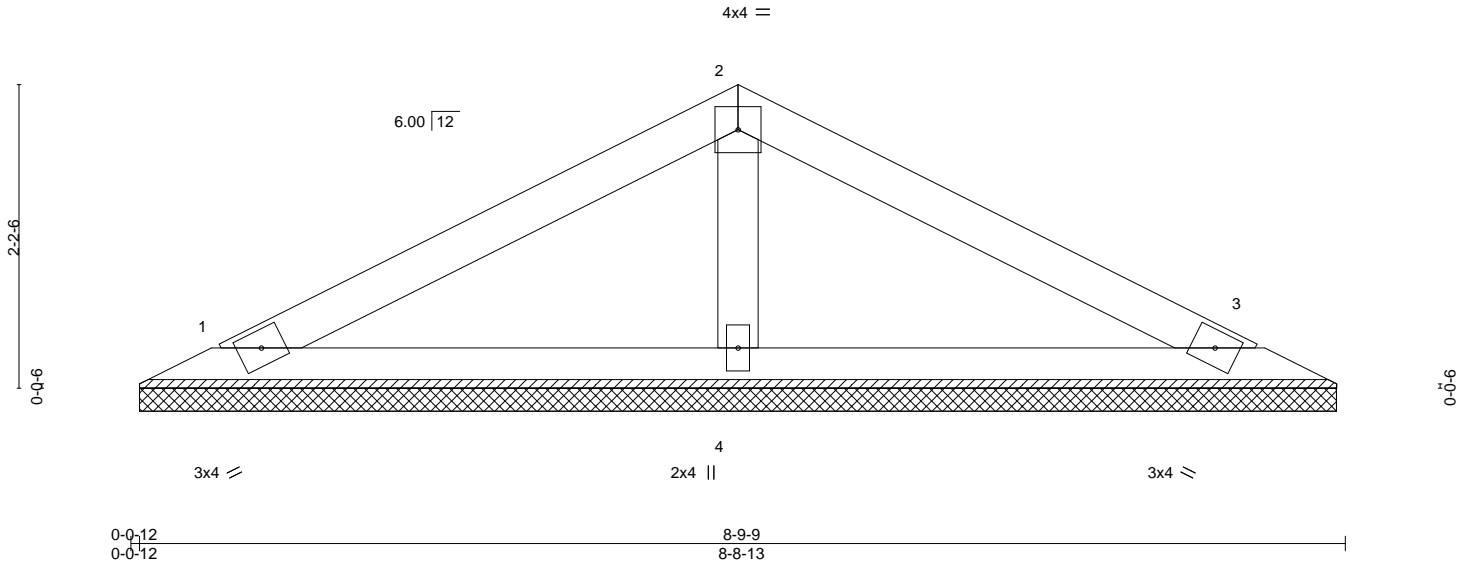
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:24 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:16.7



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 0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 28 lb	FT = 25%

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. (size) 1=8-8-1, 3=8-8-1, 4=8-8-1
Max Horz 1=25(LC 11)
Max Uplift 1=24(LC 12), 3=29(LC 13)
Max Grav 1=153(LC 1), 3=153(LC 1), 4=294(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 25, 2024

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818 Soundside Road
Edenton, NC 27932

Job J0424-2390	Truss VB3	Truss Type VALLEY	Qty 1	Ply 1	LOT 7 OVERHILLS CREEK Job Reference (optional)	165132929
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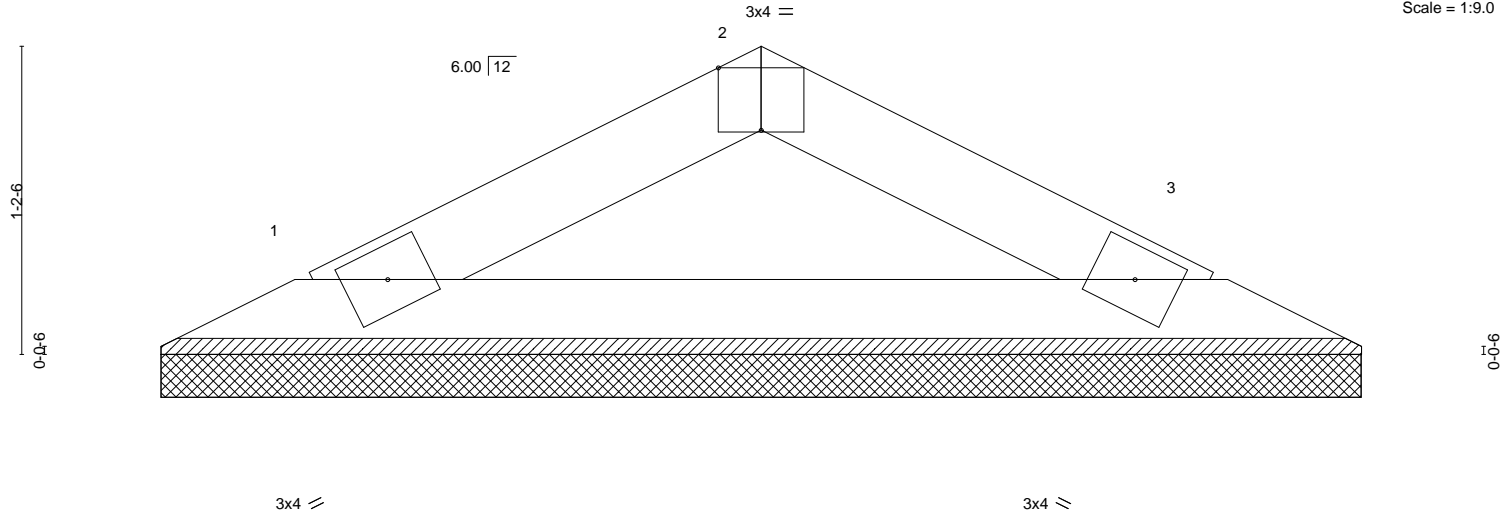
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Apr 24 10:14:25 2024 Page 1

ID:zoUQX3c2JgWgXsGFzqR1zqzNot4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:9.0



0-0-12	4-9-9
0-0-12	4-8-13

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

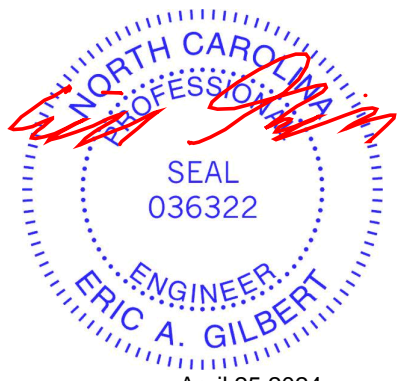
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 13 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-8-1, 3=4-8-1
 Max Horz 1=-12(LC 8)
 Max Uplift 1=-8(LC 12), 3=-8(LC 13)
 Max Grav 1=140(LC 1), 3=140(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; 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(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 6) Non Standard bearing condition. Review required.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

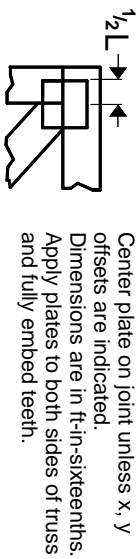


April 25, 2024

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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

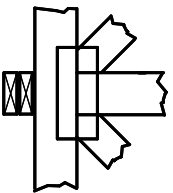
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur. Min size shown is for crushing only.

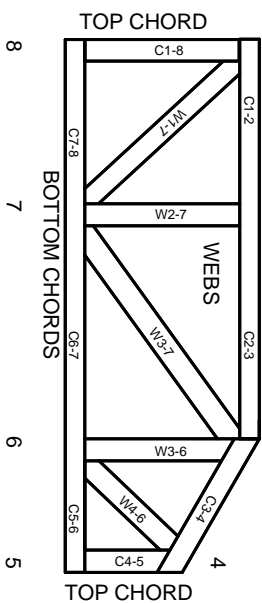
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 Joint ID
3 typ.



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023