ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J0522-2642
    Cav&Cates\Lot 153 Anderson Creek

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:
Customer: Project Name: J0522-2642
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014   Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10   Wind Speed: 130 mph
Roof Load: 40.0 psf   Floor Load: N/A psf

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16479616	A1	12/11/2021	21	E16479636	M5	12/11/2021
2	E16479617	A1-GE	12/11/2021	22	E16479637	VC01	12/11/2021
3	E16479618	A2	12/11/2021	23	E16479638	VC02	12/11/2021
4	E16479619	A3	12/11/2021	24	E16479639	VC03	12/11/2021
5	E16479620	A4	12/11/2021	25	E16479640	VC04	12/11/2021
6	E16479621	B1	12/11/2021				
7	E16479622	B1-GE	12/11/2021				
8	E16479623	C1	12/11/2021				
9	E16479624	D1-GE	12/11/2021				
10	E16479625	E1	12/11/2021				
11	E16479626	E1-GE	12/11/2021				
12	E16479627	G01	12/11/2021				
13	E16479628	G02	12/11/2021				
14	E16479629	H01	12/11/2021				
15	E16479630	J01	12/11/2021				
16	E16479631	J02	12/11/2021				
17	E16479632	M1	12/11/2021				
18	E16479633	M2	12/11/2021				
19	E16479634	M3	12/11/2021				
20	E16479635	M4	12/11/2021				

The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Comtech, Inc - Fayetteville.
Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.
North Carolina COA: C-0844

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

December 11, 2021

1 of 1   Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	E16479616
J0522-2642	A1	COMMON	6	1	Job Reference (optional)	

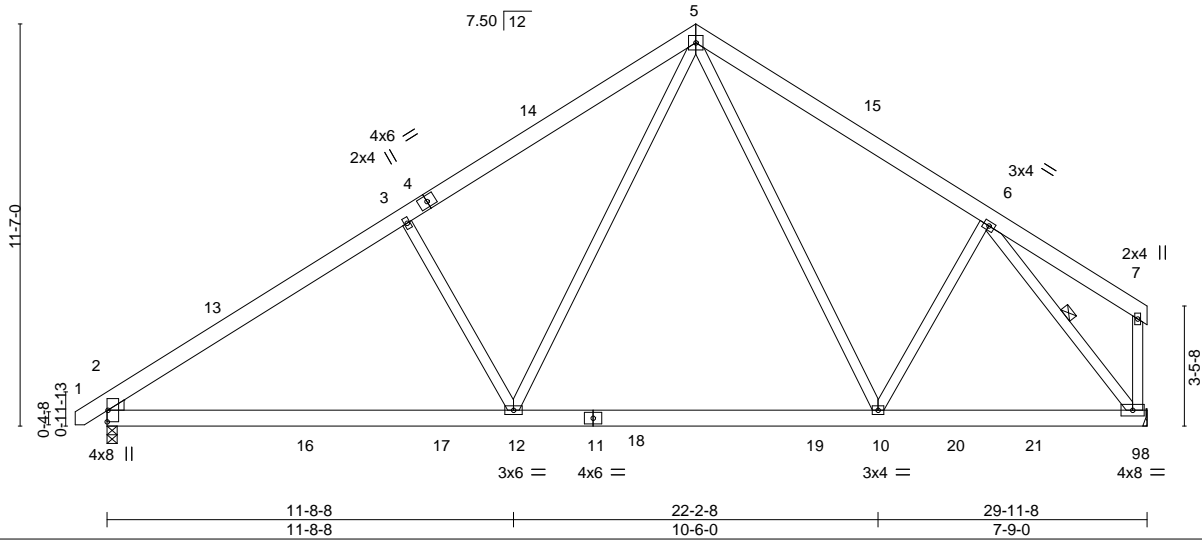Comtech, Inc,   Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:52:47 2021 Page 1
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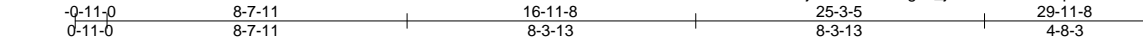
Scale = 1:66.4

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	0.34	Vert(LL)	-0.11	2-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.24	2-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	2-12	>999	240	Weight: 225 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-6-7 oc purlins,
                    except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
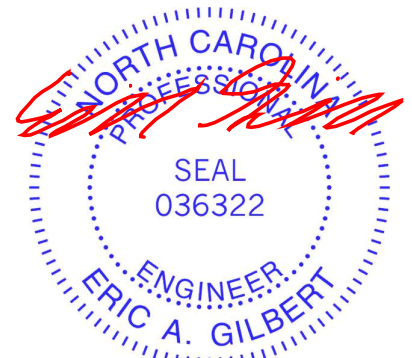WEBS   1 Row at midpt   6-9

REACTIONS.   (size)   2=0-3-8, 9=Mechanical
                    Max Horz 2=262(LC 7)
                    Max Uplift 2=-108(LC 10), 9=-77(LC 11)
                    Max Grav 2=1347(LC 17), 9=1281(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1786/411, 3-5=-1610/491, 5-6=-1243/424
BOT CHORD   2-12=-315/1561, 10-12=-86/926, 9-10=-195/852
WEBS   3-12=-521/315, 5-12=-183/961, 5-10=-94/287, 6-10=-37/264, 6-9=-1404/330

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 25-3-15, Exterior(2) 25-3-15 to 29-8-12 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2 and 77 lb uplift at joint 9.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

December 11,2021

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

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	A1-GE	GABLE	1	1		E16479617
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:52:49 2021 Page 1
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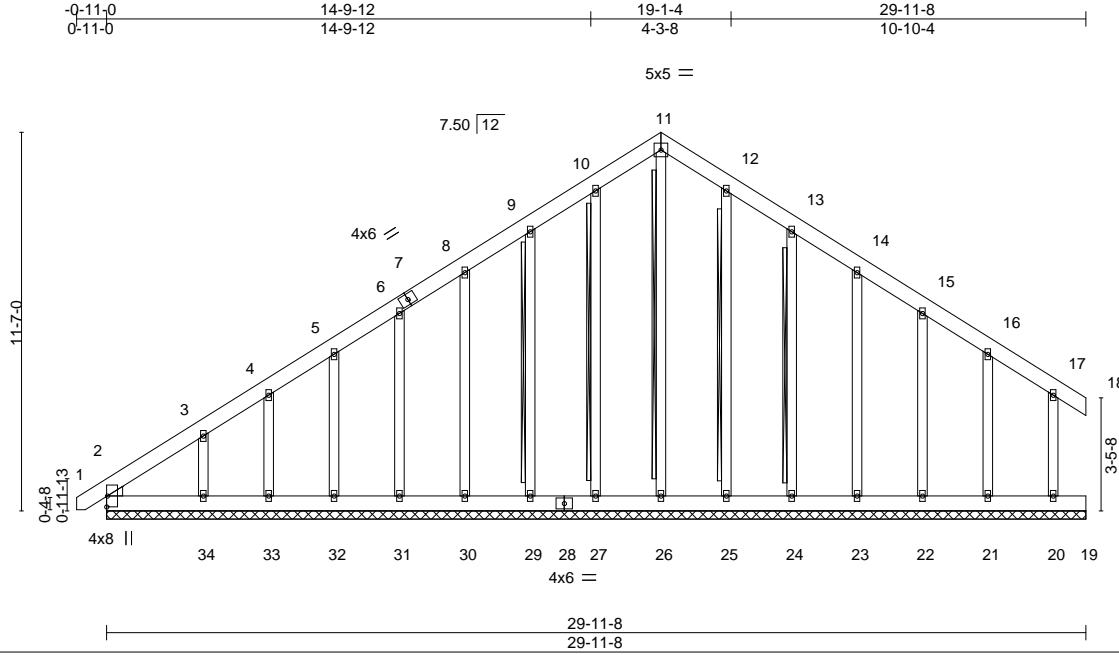
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 288 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
OTHERS   2x4 SP No.2
WEDGE
Left: 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.
WEBS   T-Brace: 2x4 SPF No.2 - 10-27, 9-29, 11-26, 12-25,
                                     13-24
             Fasten (2X) T and I braces to narrow edge of web with 10d
             (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
             Brace must cover 90% of web length.

REACTIONS.   All bearings 29-11-8.
    (lb) - Max Horz 2=322(LC 7)
            Max Uplift   All uplift 100 lb or less at joint(s) 18, 27, 29, 30, 31, 32, 33, 26, 25, 23, 22, 21, 20 except
                         2=-166(LC 6), 34=-176(LC 10), 24=-107(LC 11)
            Max Grav   All reactions 250 lb or less at joint(s) 18, 27, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 19 except
                         2=264(LC 18), 34=289(LC 17), 26=327(LC 11)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-381/368, 3-4=-299/294, 4-5=-276/288, 5-6=-259/284, 6-8=-240/317, 8-9=-227/357,
               9-10=-290/405, 10-11=-316/411, 11-12=-316/397, 12-13=-290/362, 13-14=-227/283
WEBS   11-26=-307/166

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Corner(3) -0-8-15 to 3-7-14, Exterior(2) 3-7-14 to 12-7-3, Corner(3) 12-7-3 to 21-4-13, Exterior(2) 21-4-13 to
   25-7-3, Corner(3) 25-7-3 to 30-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
   DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 27, 29, 30, 31,
   32, 33, 26, 25, 23, 22, 21, 20 except (jt=lb) 2=166, 34=176, 24=107.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

December 11,2021

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ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	A2	COMMON	5	1		E16479618
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:52:52 2021 Page 1
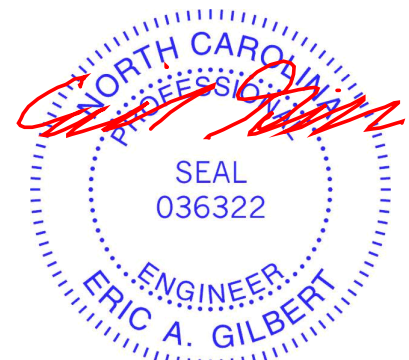ID:RoFQORvmtbuV?DZjm98VbzzKksg-oxW8NIy1CQ9GfcfnzT41Ho4av4EoPmWhQunUL1yASjf
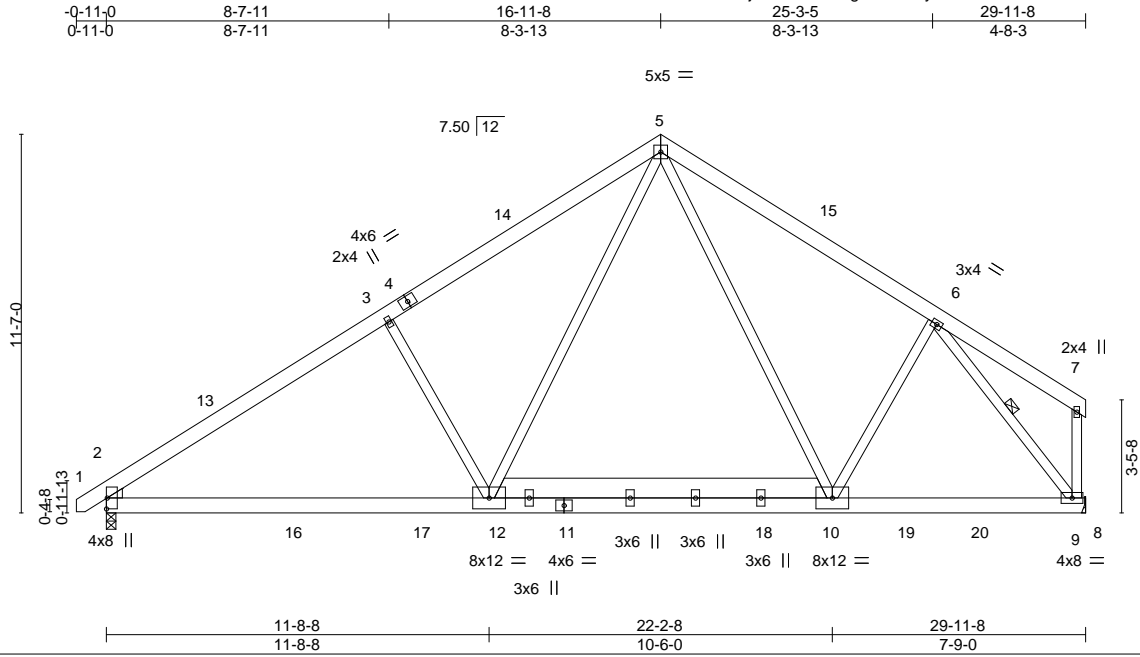
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.13	2-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26	2-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	2-12	>999	240	Weight: 256 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2 *Except*
               10-12: 2x8 SP No.1
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-2-14 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   6-9

REACTIONS.   (size)   2=0-3-8, 9=Mechanical
Max Horz   2=262(LC 7)
Max Uplift   2=-108(LC 10), 9=-77(LC 11)
Max Grav   2=1426(LC 17), 9=1365(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1980/425, 3-5=-1783/492, 5-6=-1357/428
BOT CHORD   2-12=-329/1730, 10-12=-87/1015, 9-10=-203/931
WEBS   3-12=-516/314, 5-12=-182/1098, 5-10=-90/318, 6-10=-36/306, 6-9=-1512/342

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 25-3-15, Exterior(2) 25-3-15 to 29-8-12 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, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=108.

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	A3	COMMON	4	1		E16479619
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:52:54 2021 Page 1
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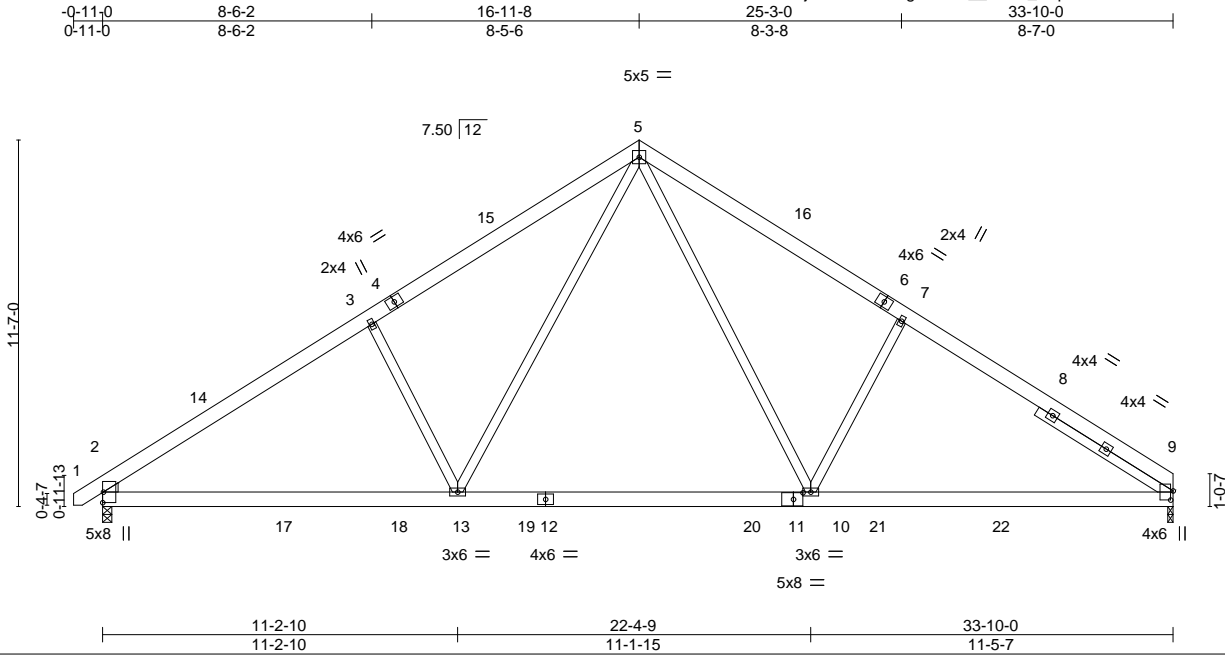
Scale = 1:72.8

Plate Offsets (X,Y)--   [9:0-3-7,0-0-15], [11:0-3-9,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.20	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.27	10-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	2-13	>999	240	Weight: 238 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER   Right 2x4 SP No.2 5-0-1

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   2=0-3-8, 9=0-2-0
Max Horz 2=266(LC 7)
Max Uplift 2=-119(LC 10), 9=-106(LC 11)
Max Grav 2=1637(LC 17), 9=1586(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2297/478, 3-5=-2140/573, 5-7=-2095/563, 7-9=-2269/482
BOT CHORD   2-13=-255/2003, 10-13=-27/1327, 9-10=-253/1782
WEBS   3-13=-506/314, 5-13=-195/1053, 5-10=-186/1034, 7-10=-499/319

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to 29-5-11, Exterior(2) 29-5-11 to 33-10-8 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=119, 9=106.

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Scale = 1:77.7

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	0.42	Vert(LL)	-0.17	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.24	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06	2-18	>999	240	Weight: 285 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2
OTHERS   2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER   Right 2x4 SP No.2 1-6-8

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-1-7 oc purlins.
            Except:
            1 Row at midpt   5-10, 10-14
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS   1 Brace at Jt(s): 10

REACTIONS.   (size)   2=0-3-8, 14=0-3-8
            Max Horz 2=332(LC 7)
            Max Uplift 2=-312(LC 10), 14=-311(LC 11)
            Max Grav 2=1541(LC 17), 14=1596(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2146/453, 3-5=-1993/538, 5-6=-473/273, 5-7=-1503/371, 7-10=-1438/345,
            10-11=-1424/331, 11-14=-1578/513, 6-9=-623/299, 9-13=-558/0
BOT CHORD   2-18=-433/1924, 16-18=-131/1289, 14-16=-236/1659, 13-14=0/389
WEBS   5-18=-274/983, 3-18=-478/389, 5-16=-270/918, 10-16=-450/390, 9-11=-627/497

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 12-7-3, Exterior(2) 12-7-3 to 21-4-13, Interior(1) 21-4-13 to
   29-5-11, Exterior(2) 29-5-11 to 33-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   2=312, 14=311.
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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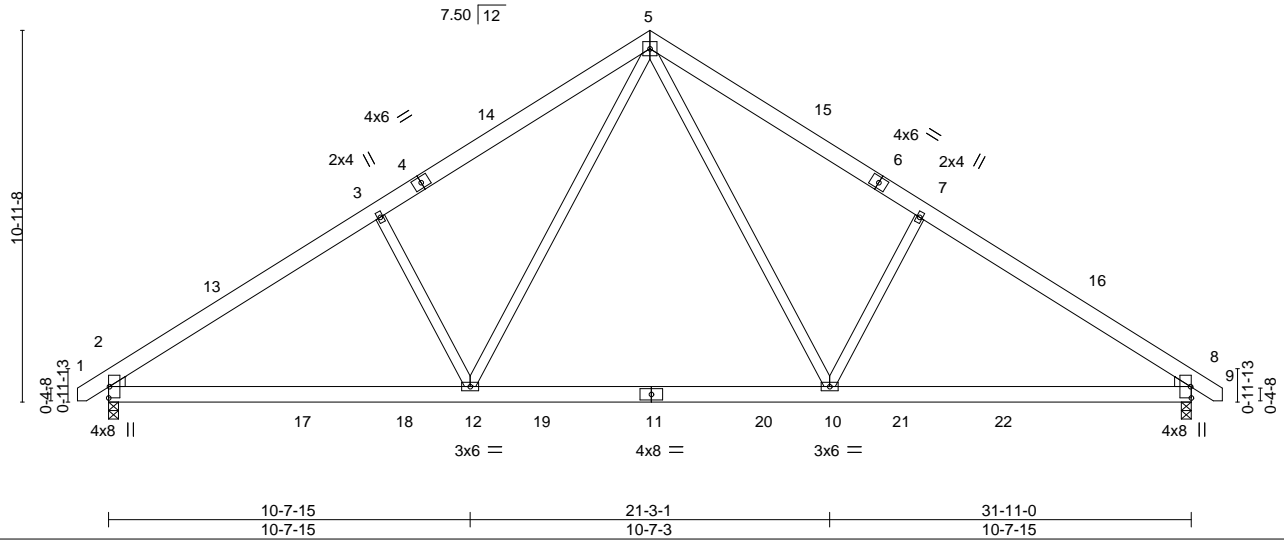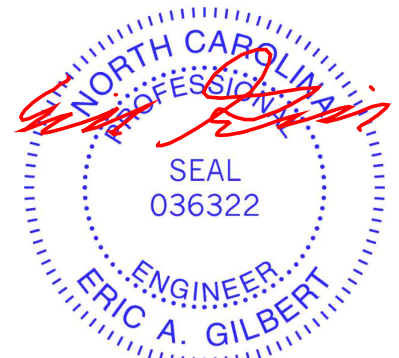| Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	B1	COMMON	5	1	Job Reference (optional)	E16479621

Comtech, Inc, Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:52:57 2021 Page 1
ID:RoFQORvmtbuV?DZjm98VbzzKksg-9vK1R?0A1ynYmOYkm0gC_rnPt5yJ42XQaAVF0EyASja

-0-11-0   8-0-2   15-11-8   23-10-14   31-11-0   32-10-0
0-11-0   8-0-2   7-11-6   7-11-6   8-0-2   0-11-0

5x5 =

7.50 [12]

Scale = 1:67.9

10-7-15   21-3-1   31-11-0
10-7-15   10-7-3   10-7-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.17	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.23	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	2-12	>999	240	Weight: 220 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-2-4 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   2=0-3-8, 8=0-3-8
Max Horz   2=-251(LC 8)
Max Uplift   2=-112(LC 10), 8=-112(LC 11)
Max Grav   2=1513(LC 17), 8=1513(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2108/449, 3-5=-1955/534, 5-7=-1955/534, 7-8=-2109/449
BOT CHORD   2-12=-242/1838, 10-12=-27/1217, 8-10=-242/1651
WEBS   5-10=-179/965, 7-10=-473/296, 5-12=-179/965, 3-12=-473/296

NOTES-
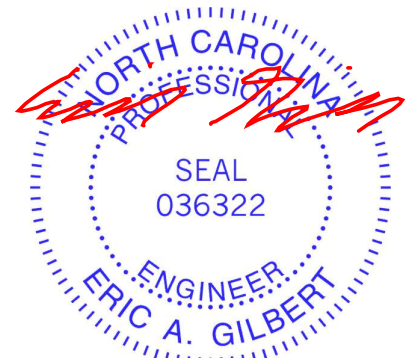1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-7-3, Exterior(2) 11-7-3 to 20-4-13, Interior(1) 20-4-13 to 28-4-2, Exterior(2) 28-4-2 to 32-8-15 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 8=112.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

December 11,2021

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

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	B1-GE	GABLE	1	1		E16479622
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:52:59 2021 Page 1
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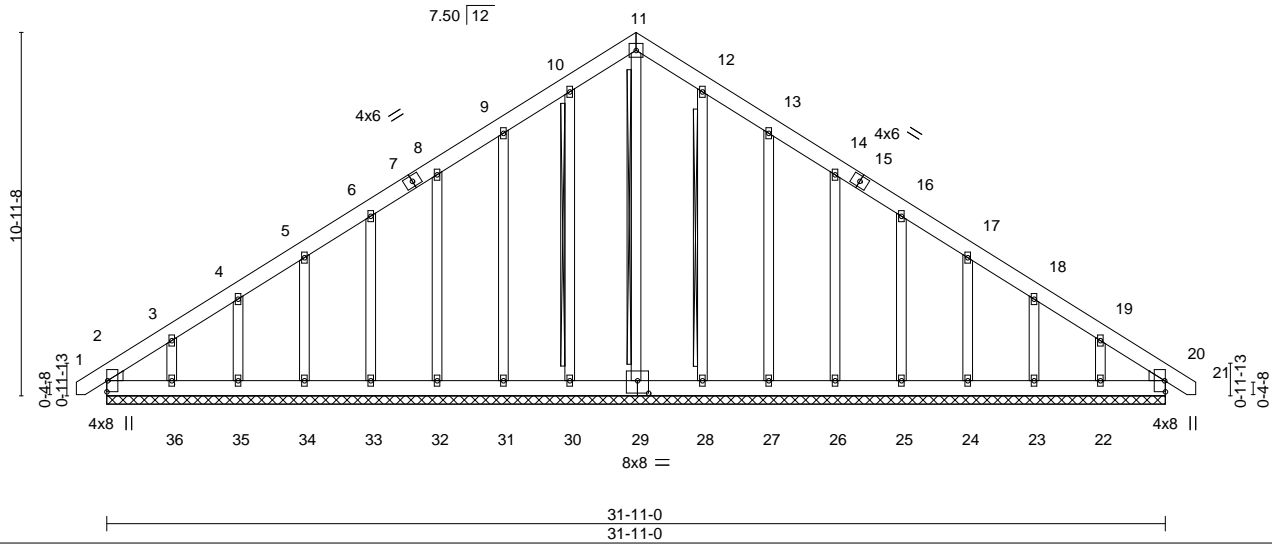
Plate Offsets (X,Y)--   [29:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	20	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	20	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 290 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
OTHERS   2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   T-Brace: 2x4 SP No.3 - 11-29
                                         2x4 SPF No.2 - 10-30, 12-28
Fasten (2X) T and I braces to narrow edge of web with 10d
(0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.   All bearings 31-11-0.
    (lb) - Max Horz 2=314(LC 9)
            Max Uplift All uplift 100 lb or less at joint(s) 20, 30, 31, 32, 33, 34, 35, 28, 26,
                        25, 24, 23 except 36=-160(LC 10), 27=-100(LC 11), 2=-106(LC 6), 22=-145(LC
                        11)
            Max Grav   All reactions 250 lb or less at joint(s) 20, 29, 30, 31, 32, 33, 34, 35,
                        36, 28, 27, 26, 25, 24, 23, 2, 22

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-346/260, 9-10=-216/252, 10-11=-249/277, 11-12=-249/278, 19-20=-265/170

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Corner(3) -0-8-15 to 3-7-14, Exterior(2) 3-7-14 to 11-7-3, Corner(3) 11-7-3 to 20-4-13, Exterior(2) 20-4-13 to
   28-4-2, Corner(3) 28-4-2 to 32-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
   DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 30, 31, 32, 33,
   34, 35, 28, 26, 25, 24, 23 except (jt=lb) 36=160, 27=100, 2=106, 22=145.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

December 11,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	C1	GABLE	1	1	Job Reference (optional)	E16479623

Comtech, Inc,   Fayetteville, NC - 28314,

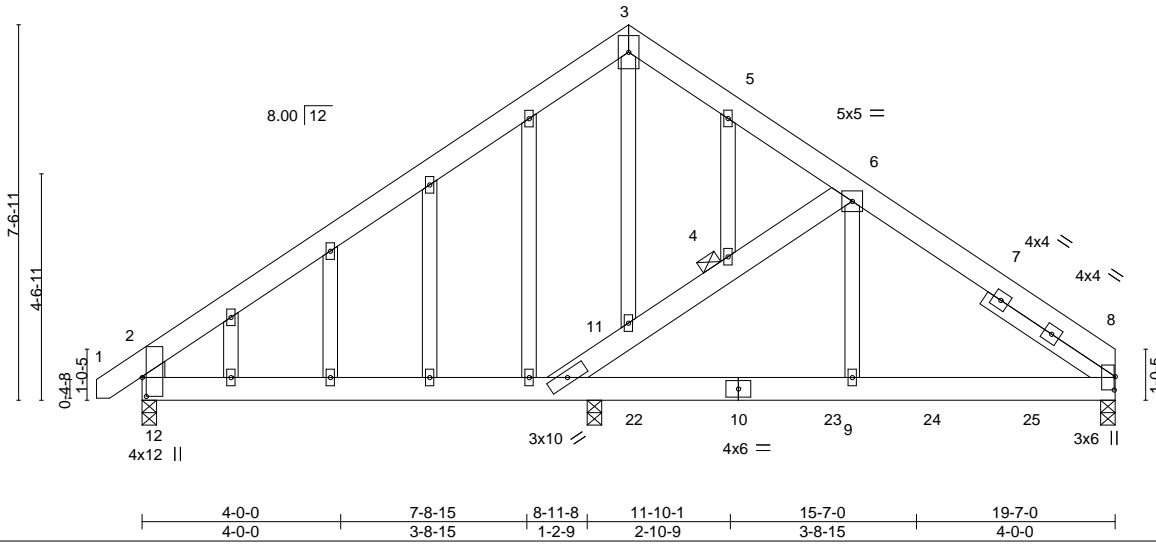8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:01 2021 Page 1
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| Plate Offsets (X,Y)-- | [8:0-3-4,0-0-4], [12:0-4-9,0-1-0] |

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 0.44	Vert(LL) -0.04 11-12 >999 360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.08 11-12 >999 240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.01 8 n/a n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 11-12 >999 240		Weight: 164 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2 *Except*
            2-12: 2x6 SP No.1
OTHERS   2x4 SP No.2
SLIDER   Right 2x4 SP No.2 3-1-0

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.
JOINTS   1 Brace at Jt(s): 4

REACTIONS.   (size)   8=0-3-8, 12=0-3-8, 11=0-3-8
            Max Horz 12=216(LC 7)
            Max Uplift 8=-97(LC 8), 12=-252(LC 27)
            Max Grav 8=883(LC 1), 12=637(LC 15), 11=757(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-567/251, 3-5=-401/304, 5-6=-496/354, 6-8=-1036/187, 4-11=-645/128,
            4-6=-587/131, 2-12=-584/314
BOT CHORD   11-12=-164/442, 9-11=-76/764, 8-9=-76/764
WEBS   6-9=0/451

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Solid blocking is required on both sides of the truss at joint(s), 11.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 12=252.
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) 123 lb down at 9-11-4, 123 lb down at 11-11-4, 123 lb down at 13-11-4, and 123 lb down at 15-11-4, and 123 lb down at 17-11-4 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

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek
J0522-2642	C1	GABLE	1	1	E16479623
					Job Reference (optional)

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:01 2021 Page 2
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LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
        Vert: 1-2=-60, 2-3=-60, 3-6=-60, 6-8=-60, 8-12=-20
    Concentrated Loads (lb)
        Vert: 10=-123(F) 22=-123(F) 23=-123(F) 24=-123(F) 25=-123(F)

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	D1-GE	COMMON SUPPORTED GAB	1	1		E16479624
					Job Reference (optional)	

Comtech, Inc,　　　Fayetteville, NC - 28314,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:02 2021 Page 1
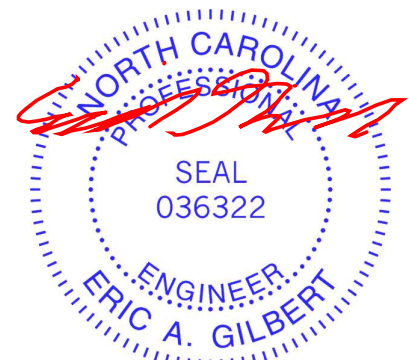ID:RoFQORvmtbuV?DZjm98VbzzKksg-Vs7wUj4JsVPrs9QiZaGNhvUMX6nTlOx9jRC0hSyASjV

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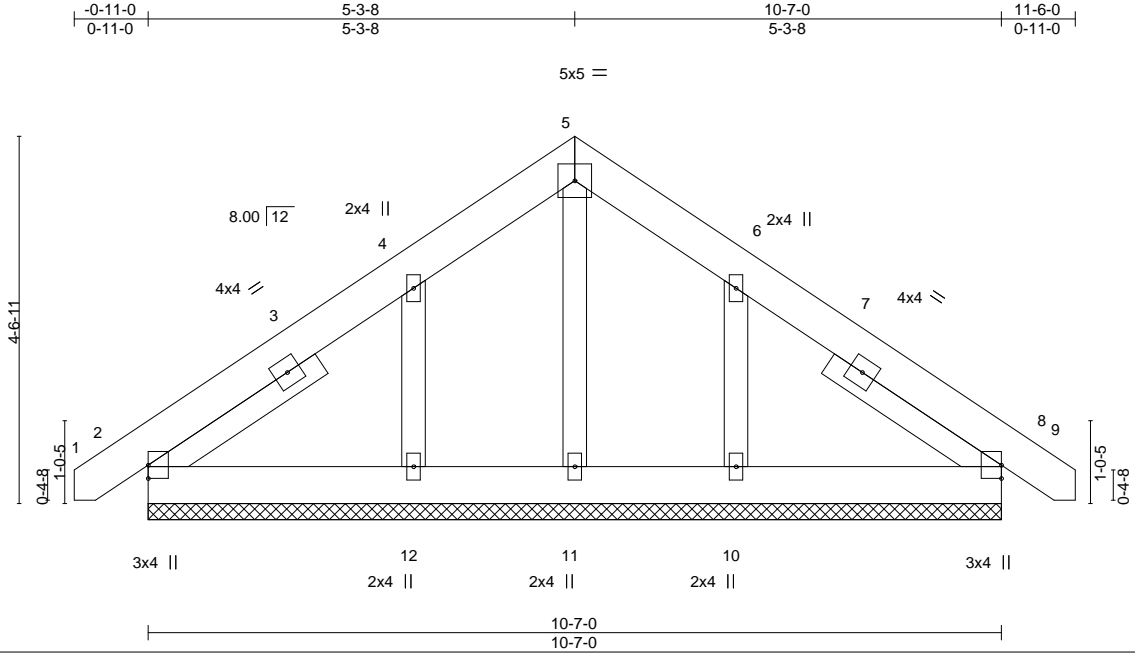
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 80 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS   2x4 SP No.2
SLIDER   Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

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

REACTIONS.　　All bearings 10-7-0.
　　(lb) -　Max Horz 2=121(LC 7)
　　　　　Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 12=-156(LC 10), 10=-150(LC 11)
　　　　　Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11 except 12=284(LC 17), 10=277(LC 18)

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 12=156, 10=150.
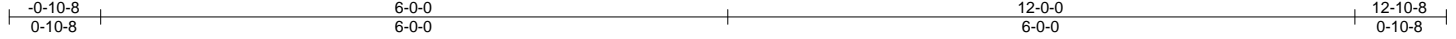
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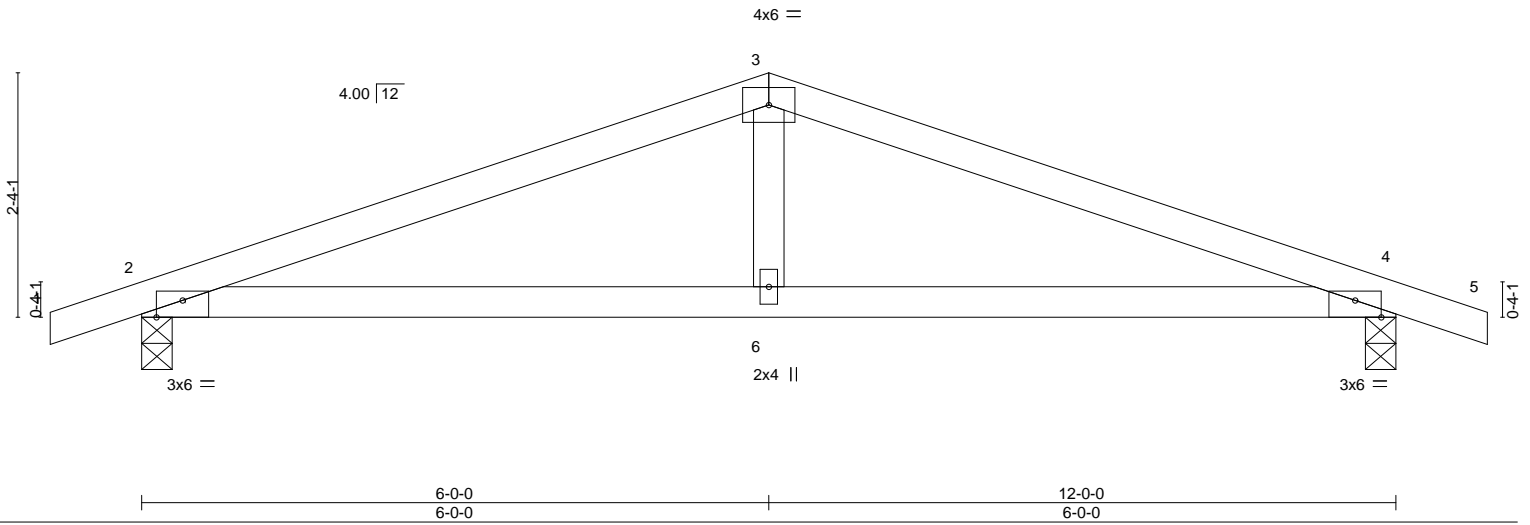| Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	E1	Common	4	1	Job Reference (optional)	E16479625

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:03 2021 Page 1
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Scale = 1:22.0

4x6 ═

4.00 ⎡12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.08	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 42 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-11-14 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 6-5-11 oc bracing.

REACTIONS.   (size)   2=0-3-8, 4=0-3-8
Max Horz 2=-27(LC 15)
Max Uplift 2=-217(LC 6), 4=-217(LC 7)
Max Grav 2=530(LC 1), 4=530(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-859/1008, 3-4=-859/1008
BOT CHORD   2-6=-865/759, 4-6=-865/759
WEBS   3-6=-371/281

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 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) 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) except (jt=lb)
   2=217, 4=217.

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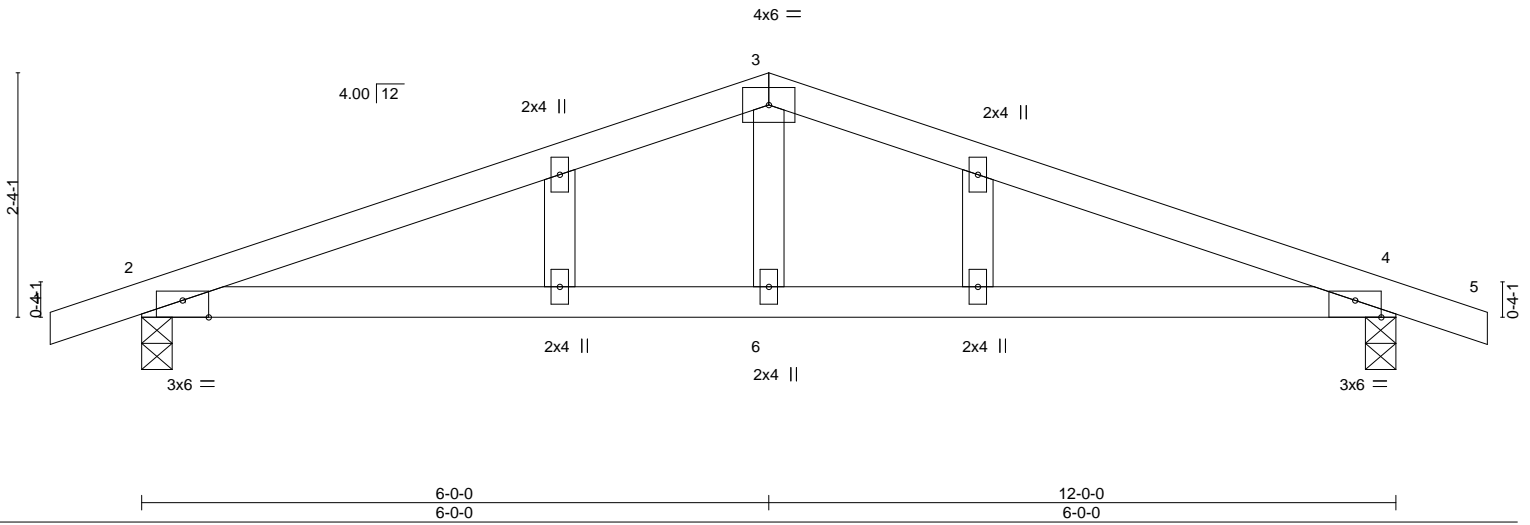| Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	E1-GE	GABLE	1	1	Job Reference (optional)	E16479626

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:04 2021 Page 1
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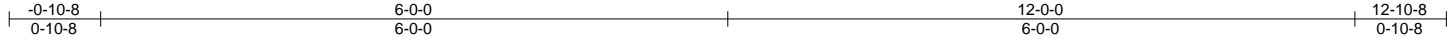
-0-10-8 | 6-0-0 | 12-0-0 | 12-10-8
0-10-8 | 6-0-0 | 6-0-0 | 0-10-8

Scale = 1:22.0

6-0-0			12-0-0	
6-0-0			6-0-0	

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.08	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 46 lb	FT = 20%

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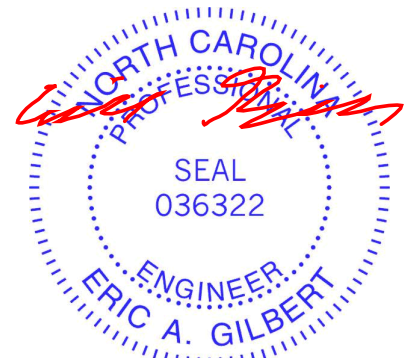OTHERS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-11-14 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 6-5-11 oc bracing.

REACTIONS.   (size) 2=0-3-8, 4=0-3-8
            Max Horz 2=46(LC 10)
            Max Uplift 2=-305(LC 6), 4=-305(LC 7)
            Max Grav 2=530(LC 1), 4=530(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-859/1008, 3-4=-859/1008
BOT CHORD   2-6=-865/759, 4-6=-865/759
WEBS   3-6=-371/281

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 4=305.

SEAL
036322
ERIC A. GILBERT
NORTH CAROLINA PROFESSIONAL ENGINEER

December 11,2021

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:05 2021 Page 1
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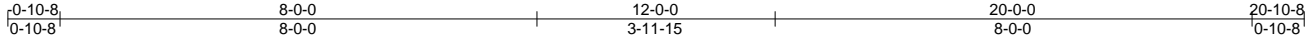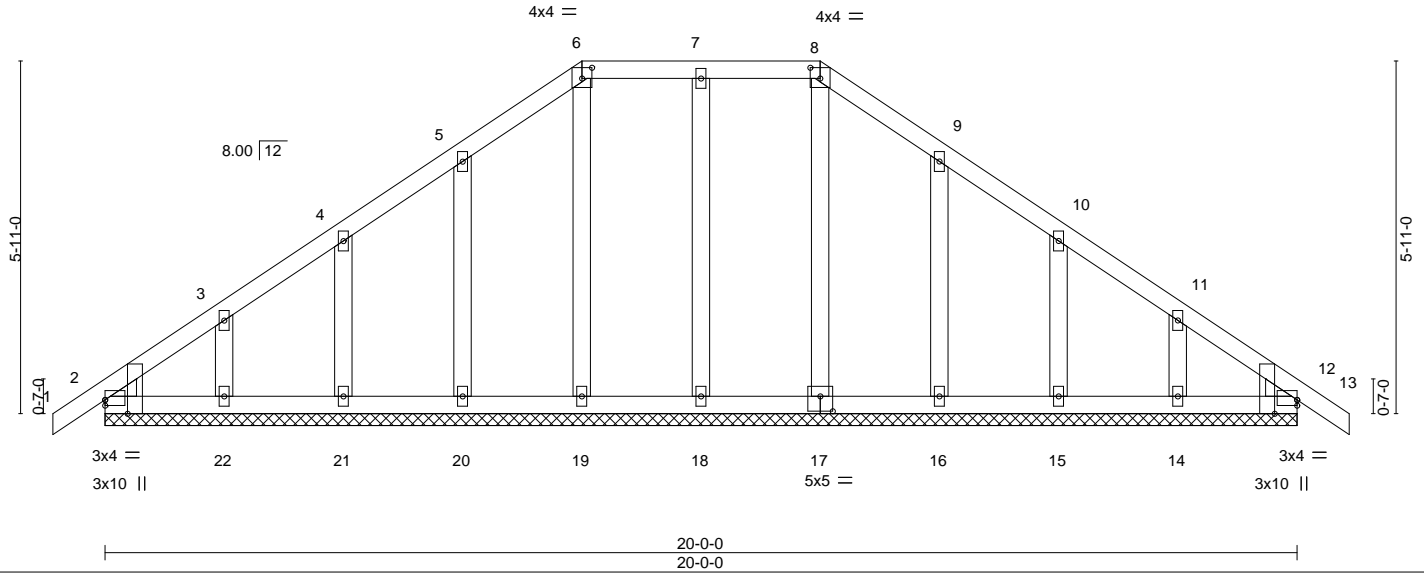
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Plate Offsets (X,Y)--   [2:Edge,0-1-2], [2:0-2-12,Edge], [6:0-2-0,0-2-3], [8:0-2-0,0-2-3], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:Edge,0-1-2], [12:0-2-12,Edge], [17:0-2-8,0-3-0]

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	0.04	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.1
BOT CHORD   2x4 SP No.1
OTHERS   2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS.   All bearings 20-0-0.
     (lb) - Max Horz 2=142(LC 9)
             Max Uplift   All uplift 100 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 16, 15, 14,
                          12
             Max Grav   All reactions 250 lb or less at joint(s) 2, 17, 18, 19, 20, 21, 22, 16, 15,
                          14, 12

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 19, 20, 21,
    22, 16, 15, 14, 12.

December 11,2021

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

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	G02	Common	6	1		E16479628
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:06 2021 Page 1
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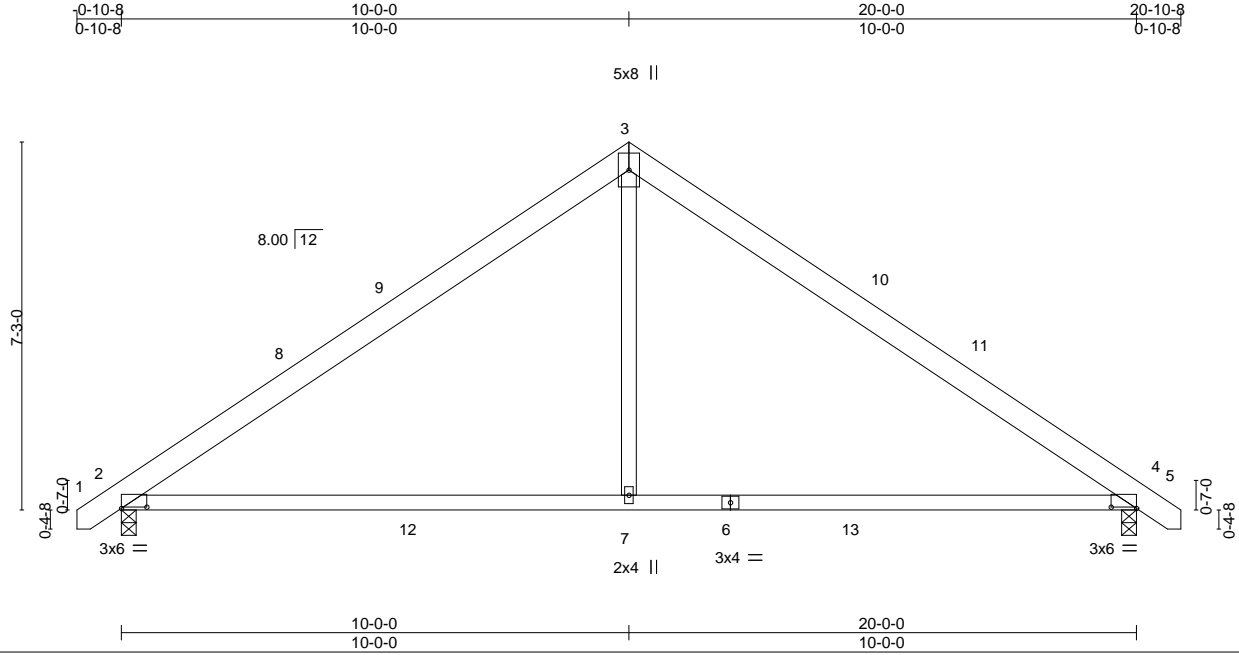
5x8 ||

Scale = 1:45.4

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

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	0.58	Vert(LL)	-0.18	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.36	4-7	>653	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	2-7	>999	240	Weight: 101 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
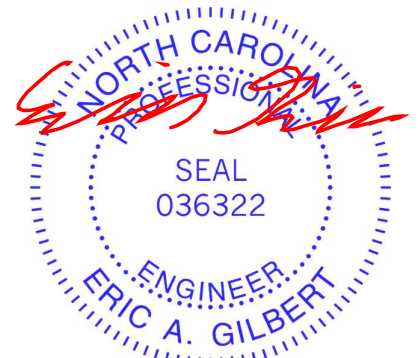
REACTIONS.   (size)   4=0-3-8, 2=0-3-8
               Max Horz   2=172(LC 9)
               Max Uplift   4=-73(LC 11), 2=-73(LC 10)
               Max Grav   4=978(LC 18), 2=978(LC 17)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1164/242, 3-4=-1164/242
BOT CHORD   2-7=-12/912, 4-7=-12/912
WEBS   3-7=0/696

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 5-7-3, Exterior(2) 5-7-3 to 14-4-13, Interior(1) 14-4-13 to 16-4-2, Exterior(2) 16-4-2 to 20-8-15 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

December 11,2021

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

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	H01	FLAT GIRDER	1	**2**	Job Reference (optional)	E16479629

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:09 2021 Page 1
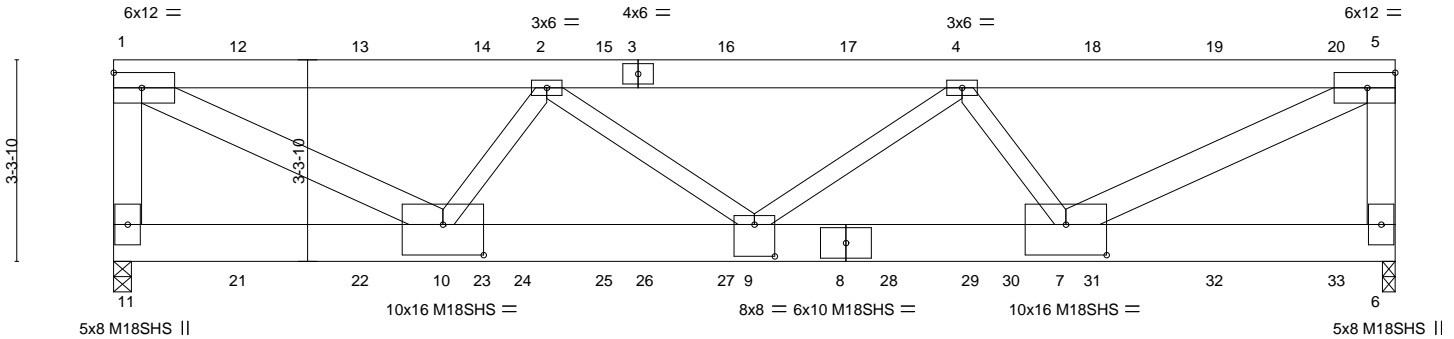ID:RoFQORvmtbuV?DZjm98VbzzKksg-oD2Zy6AiCeIrCET2TYu0TNHQcw30uNtBK1PtRYyASjO

7-1-3 / 13-10-13 / 21-0-0
7-1-3 / 6-9-11 / 7-1-3

Scale = 1:37.8

5-4-12 / 10-6-0 / 15-7-4 / 21-0-0
5-4-12 / 5-1-4 / 5-1-4 / 5-4-12
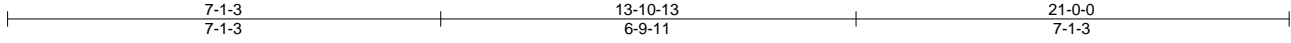
Plate Offsets (X,Y)--   [7:0-8-0,0-6-0], [9:0-4-0,0-6-4], [10:0-8-0,0-6-0]

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	0.56	Vert(LL)	-0.16	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.31	9-10	>806	240	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.11	9	>999	240	Weight: 340 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x8 SP 2400F 2.0E
WEBS   2x6 SP No.1 *Except*
2-10,2-9,4-9,4-7: 2x4 SP No.2

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

REACTIONS.   (size)   11=0-3-8, 6=0-2-8 (req. 0-3-7)
Max Uplift 11=-829(LC 4), 6=-827(LC 4)
Max Grav 11=7598(LC 2), 6=8267(LC 2)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-11=-6477/770, 1-2=-11820/1149, 2-4=-15049/1483, 4-5=-11722/1126, 5-6=-6386/730
BOT CHORD   10-11=-51/324, 9-10=-1392/13065, 7-9=-1379/13010, 6-7=-53/351
WEBS   1-10=-1246/13045, 2-10=-2378/464, 2-9=-118/2560, 4-9=-134/2630, 4-7=-2547/485, 5-7=-1217/12903

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=829, 6=827.

December 11,2021

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	H01	FLAT GIRDER	1	**2**	Job Reference (optional)	E16479629

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:09 2021 Page 2
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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 67 lb up at 0-2-12, 96 lb down and 70 lb up at 2-0-12, 96 lb down and 70 lb up at 4-0-12, 96 lb down and 70 lb up at 6-0-12, 96 lb down and 70 lb up at 8-0-12, 96 lb down and 70 lb up at 10-0-12, 98 lb down and 73 lb up at 12-0-12, 98 lb down and 73 lb up at 14-0-12, 98 lb down and 73 lb up at 16-0-12, and 98 lb down and 73 lb up at 18-0-12, and 95 lb down and 72 lb up at 20-0-12 on top chord, and 30 lb down at 2-0-12, 1221 lb down and 97 lb up at 2-0-12, 30 lb down at 4-0-12, 1221 lb down and 97 lb up at 4-0-12, 1221 lb down and 97 lb up at 5-4-4, 30 lb down at 6-0-12, 1221 lb down and 97 lb up at 6-8-12, 30 lb down at 8-0-12, 1221 lb down and 97 lb up at 8-8-12, 30 lb down at 10-0-12, 1221 lb down and 97 lb up at 10-8-12, 31 lb down at 12-0-12, 1305 lb down and 97 lb up at 12-8-12, 31 lb down at 14-0-12, 1305 lb down and 97 lb up at 14-8-12, 31 lb down at 16-0-12, 1305 lb down and 97 lb up at 16-0-12, 31 lb down at 18-0-12, 1305 lb down and 97 lb up at 18-0-12, and 37 lb down at 20-0-12, and 1308 lb down and 94 lb up at 20-0-12 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: 1-5=-60, 6-11=-20
   Concentrated Loads (lb)
        Vert: 1=-73(F) 8=-16(F) 10=-1166(B) 9=-1166(B) 4=-47(F) 12=-38(F) 13=-38(F) 14=-38(F) 15=-38(F) 16=-38(F) 17=-47(F) 18=-47(F) 19=-47(F) 20=-56(F)
        21=-1181(F=-15, B=-1166) 22=-1181(F=-15, B=-1166) 23=-15(F) 24=-1166(B) 25=-15(F) 26=-1166(B) 27=-15(F) 28=-1166(B) 29=-16(F) 30=-1166(B)
        31=-1182(F=-16, B=-1166) 32=-1182(F=-16, B=-1166) 33=-1188(F=-19, B=-1169)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	J01	JACK-OPEN	6	1		E16479630
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,   8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:10 2021 Page 1
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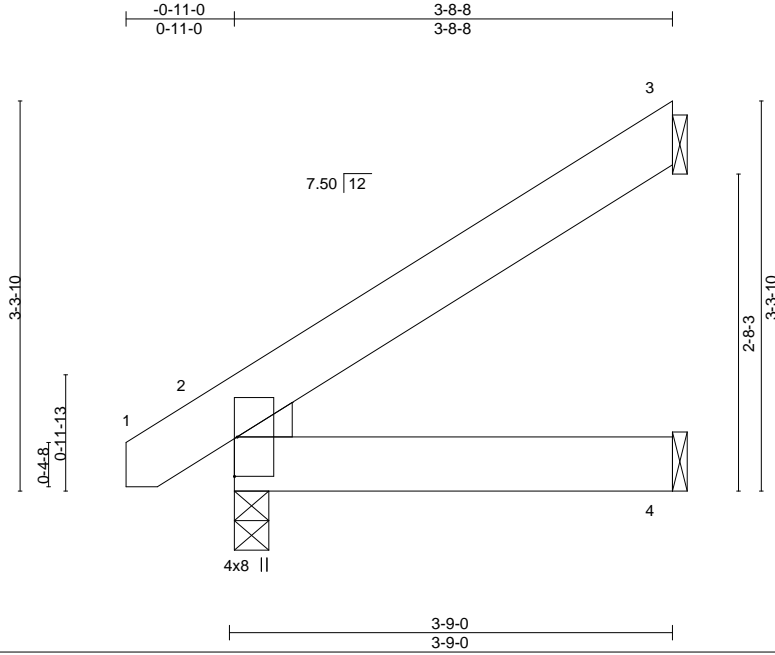
-0-11-0 / 0-11-0
3-8-8 / 3-8-8

Scale = 1:19.5

7.50 |12

3-3-10
0-4-8
0-11-13
2-8-3
3-3-10

4x8 ||

3-9-0 / 3-9-0

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	0.08	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 23 lb	FT = 20%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-9-0 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=90(LC 10)
        Max Uplift 3=-70(LC 10)
        Max Grav 3=112(LC 17), 2=203(LC 1), 4=70(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 3.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

December 11,2021

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	J02	JACK-OPEN	5	1		E16479631
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:11 2021 Page 1
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3-7-8
3-7-8

7.50 ⟌12

4x4 ∥

3-3-10

1-0-7

2-8-3

3-3-10

3x6 ∥

3-7-8
3-7-8
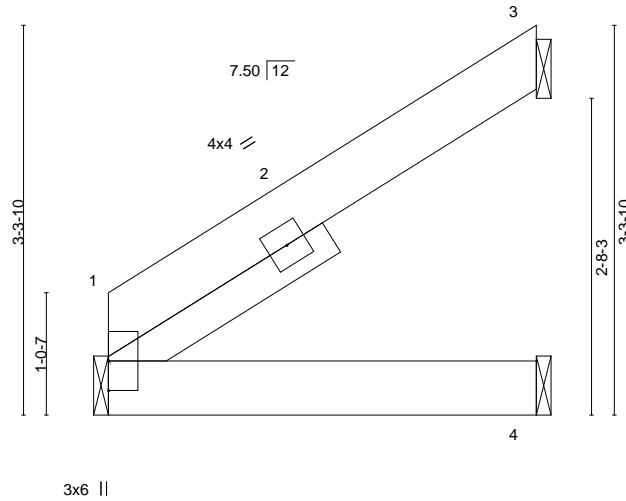
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	1-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	1	****	240	Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
SLIDER   Left 2x4 SP No.2 2-1-14

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-7-8 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=Mechanical, 3=Mechanical, 4=Mechanical
          Max Horz 1=90(LC 10)
          Max Uplift 3=-72(LC 10)
          Max Grav 1=143(LC 1), 3=120(LC 17), 4=71(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 3.

SEAL
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NORTH CAROLINA
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ENGINEER
ERIC A. GILBERT

December 11,2021

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	M1	MONOPITCH	6	1		E16479632
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:11 2021 Page 1
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-1-3-8 | 5-0-0
1-3-8 | 5-0-0

Scale = 1:15.5

0-1-12 | 5-0-0
0-1-12 | 4-10-4
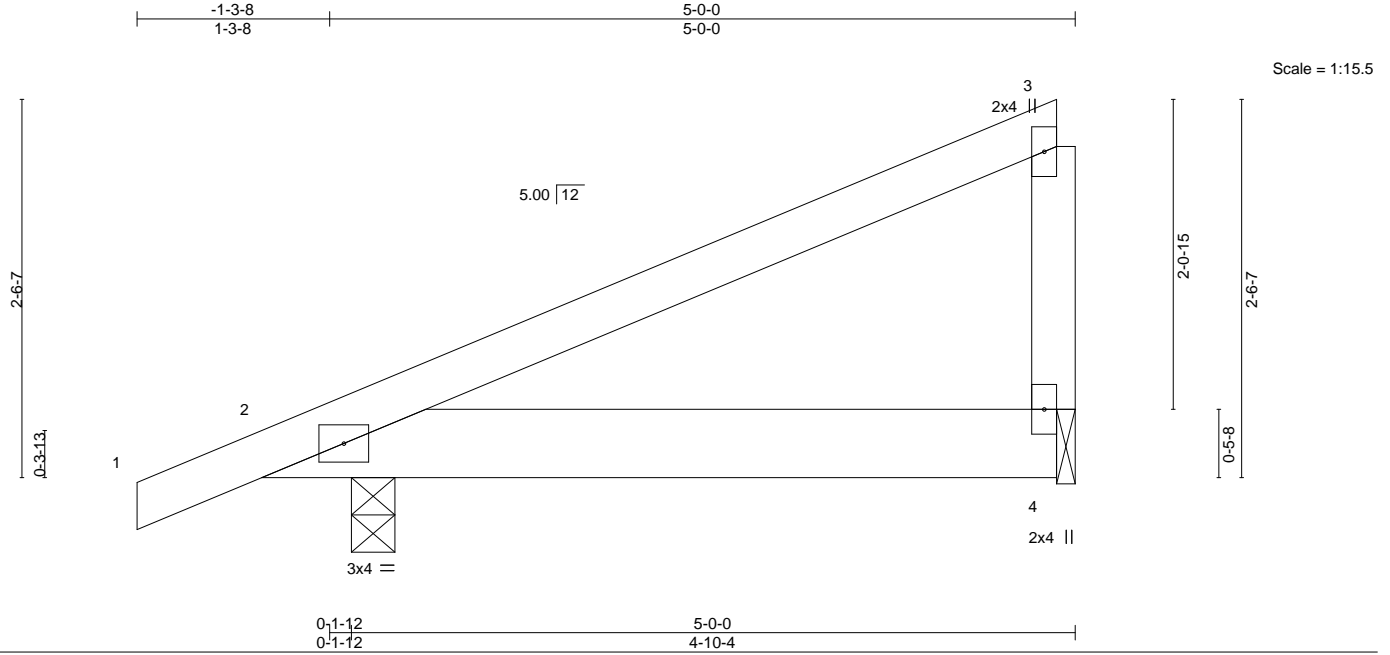
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.02	2-4	>999	240	Weight: 25 lb	FT = 20%

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

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

REACTIONS.   (size)   4=0-1-8, 2=0-3-8
Max Horz 2=80(LC 10)
Max Uplift 4=-69(LC 6), 2=-82(LC 6)
Max Grav 4=199(LC 1), 2=271(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

December 11,2021

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	M2	ROOF SPECIAL	4	1		E16479633
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:12 2021 Page 1
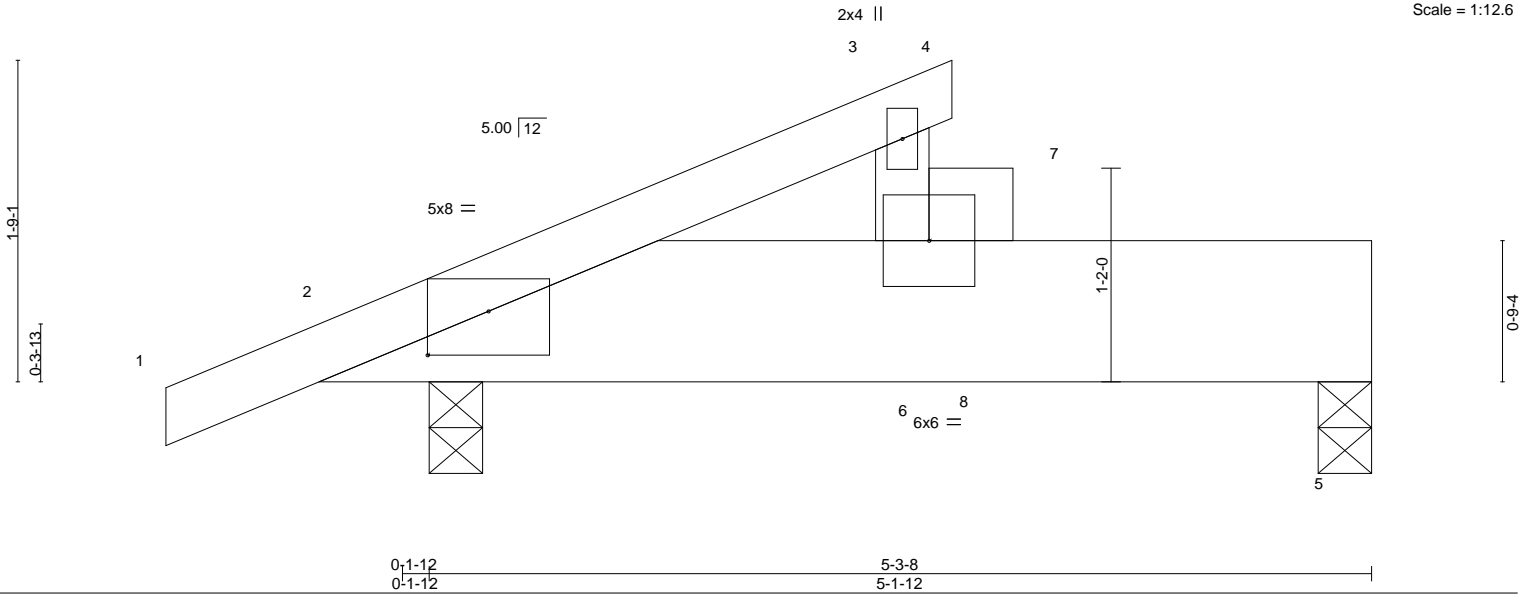ID:RoFQORvmtbuV?DZjm98VbzzKksg-Cnkha7CaVZgQ3hBd8gRj50v?q85J5wtd0?dX2tyASjL

Scale = 1:12.6

Plate Offsets (X,Y)--   [2:0-4-0,0-2-14]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.03	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.07	6	>946	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.06	6	>999	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.1
BOT CHORD   2x10 SP 2400F 2.0E
WEBS   2x4 SP No.2 *Except*
            6-7: 2x6 SP No.1

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-0-0 oc purlins,
              except end verticals.
BOT CHORD   Rigid ceiling directly applied or 9-0-12 oc bracing.

REACTIONS.   (size)   5=0-3-8, 2=0-3-8
                Max Horz 2=54(LC 10)
                Max Uplift 5=-217(LC 10), 2=-146(LC 10)
                Max Grav 5=1784(LC 1), 2=1122(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   5=217, 2=146.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such
   connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
        Vert: 1-3=-60, 3-4=-20, 2-6=-20, 5-6=-130
   Concentrated Loads (lb)
        Vert: 8=-2300

December 11,2021

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	E16479634
J0522-2642	M3	MONOPITCH TRUSS	6	1	Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:13 2021 Page 1
ID:RoFQORvmtbuV?DZjm98VbzzKksg-h_l4nTDCGtoHhrmpiNyydDRDkXXGqN7mFfN5aJyASjK

-1-3-8 3-0-0
1-3-8 3-0-0

Scale = 1:11.4

5.00 ⌐12

2x4 ||
3

1-4-15
1-8-7
1-8-7

0-6-1
2

0-3-8
1

4
2x4 ||

3-0-0
2x4 ||
2x4 =

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	0.10	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.01	2-4	>999	240	Weight: 13 lb	FT = 20%

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

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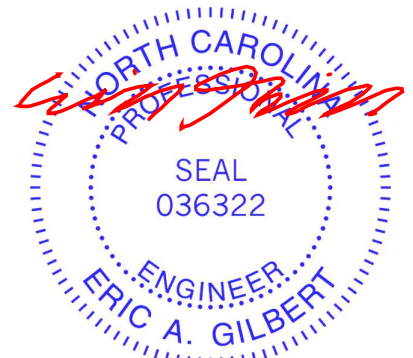BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   2=0-3-8, 4=0-1-8
Max Horz 4=54(LC 10)
Max Uplift 2=-75(LC 6), 4=-29(LC 6)
Max Grav 2=217(LC 1), 4=83(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

December 11,2021

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	M4	MONOPITCH TRUSS	5	1		E16479635
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,   8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:14 2021 Page 1
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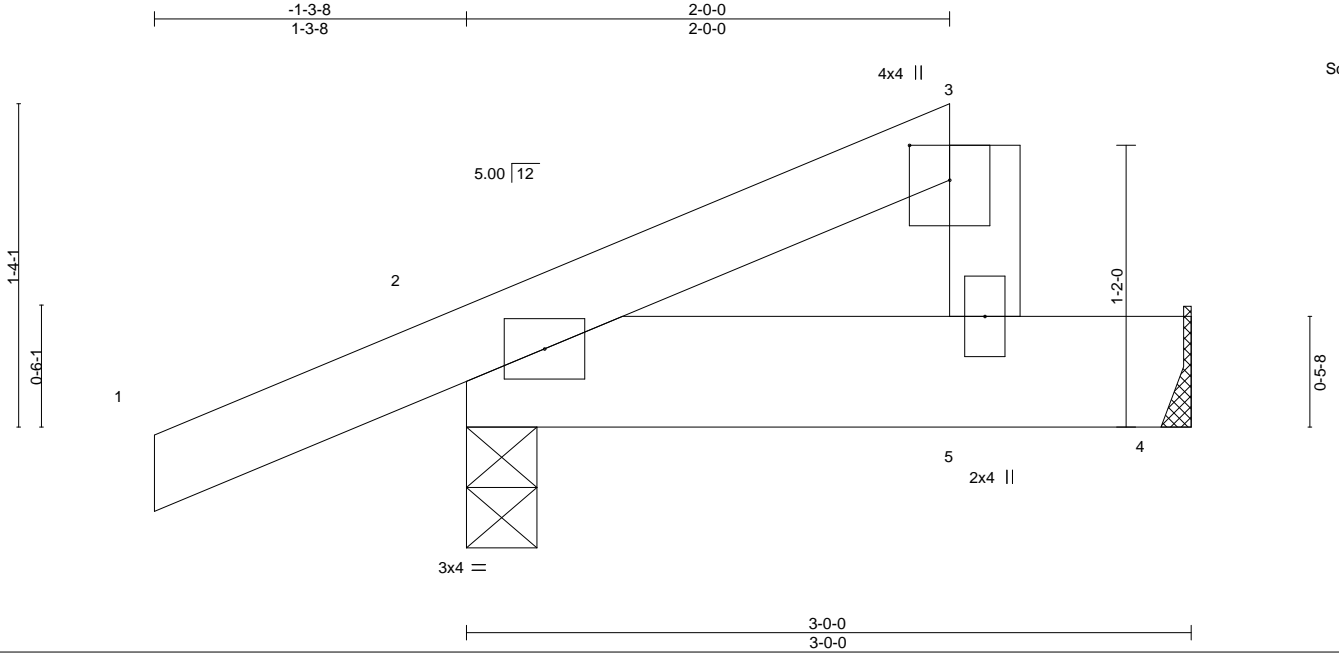
Scale = 1:9.5

Plate Offsets (X,Y)--   [3:0-1-12,0-2-0]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	2-5	>999	240	Weight: 14 lb	FT = 20%

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

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

REACTIONS.   (size)   4=Mechanical, 2=0-3-8
Max Horz 4=44(LC 10)
Max Uplift 4=-176(LC 6), 2=-128(LC 6)
Max Grav 4=569(LC 1), 2=382(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) except (jt=lb) 4=176, 2=128.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . 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, 2-5=-20, 4-5=-130
   Concentrated Loads (lb)
        Vert: 5=-600

December 11,2021

ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	M5	MONOPITCH TRUSS	2	1		E16479636
					Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:14 2021 Page 1
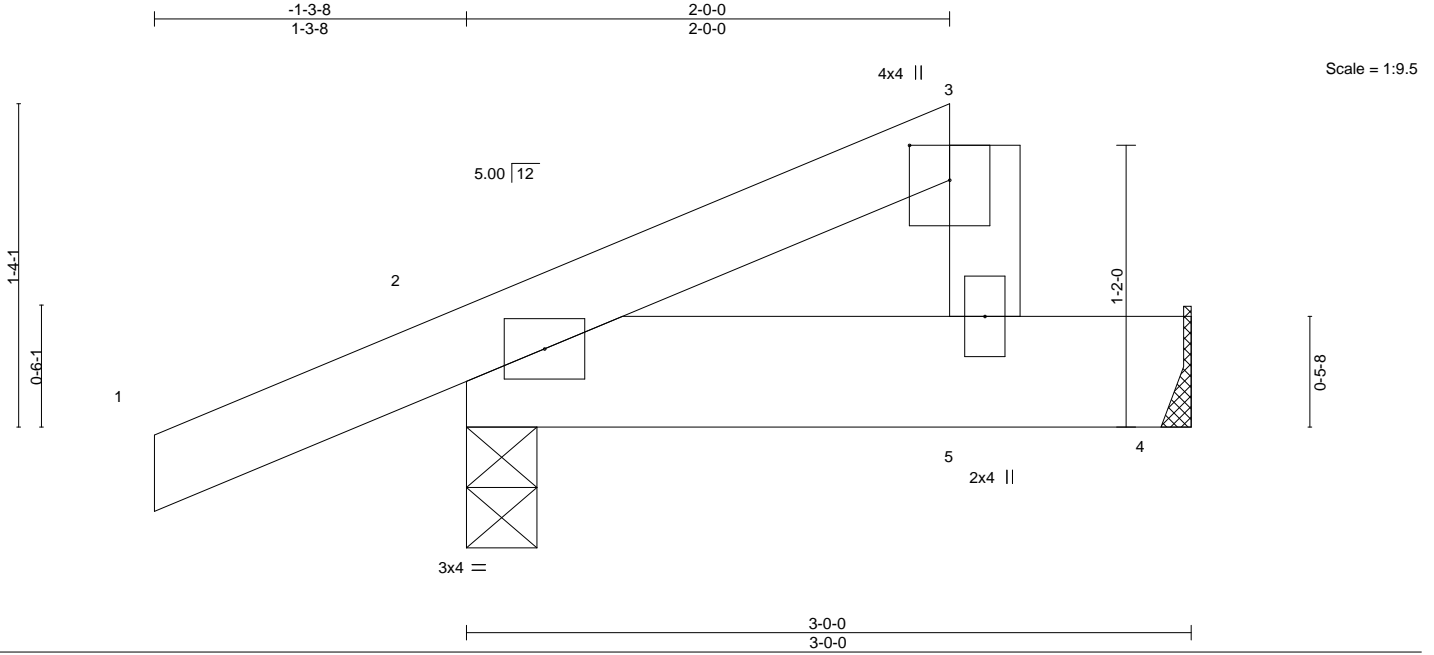ID:RoFQORvmtbuV?DZjm98VbzzKksg-9AsS?pDq1Bw8I?L?G5UBAR_OXxpHZq9wUJ6e6lyASjJ

Scale = 1:9.5

Plate Offsets (X,Y)--   [3:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	2-5	>999	240	Weight: 14 lb	FT = 20%

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

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

REACTIONS.   (size)   4=Mechanical, 2=0-3-8
Max Horz 4=44(LC 10)
Max Uplift 4=-178(LC 6), 2=-128(LC 6)
Max Grav 4=576(LC 1), 2=383(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) except (jt=lb) 4=178, 2=128.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . 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, 2-5=-20, 4-5=-140
   Concentrated Loads (lb)
        Vert: 5=-600

December 11,2021

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	VC01	Valley	1	1		E16479637
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:16 2021 Page 1
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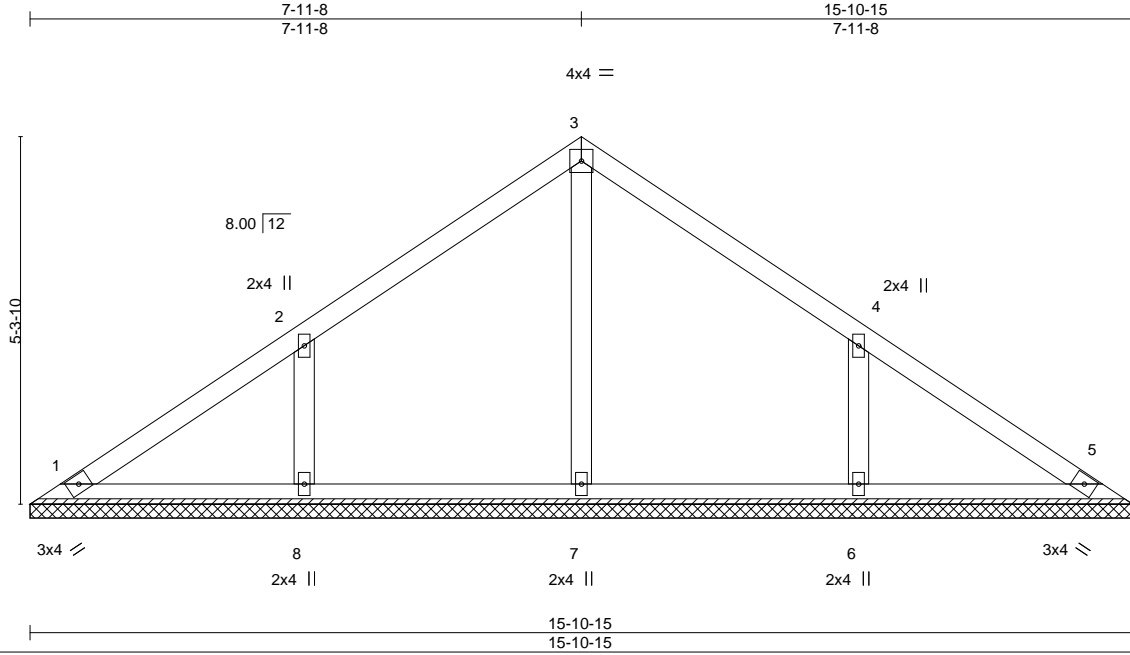
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 64 lb	FT = 20%

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

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

REACTIONS.   All bearings 15-10-15.
(lb) - Max Horz   1=119(LC 9)
        Max Uplift   All uplift 100 lb or less at joint(s) 1 except 8=-115(LC 10), 6=-115(LC 11)
        Max Grav   All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=378(LC 17), 6=378(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-317/225, 4-6=-317/225

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb)
   8=115, 6=115.

December 11,2021

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	VC02	Valley	1	1		E16479638
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:17 2021 Page 1
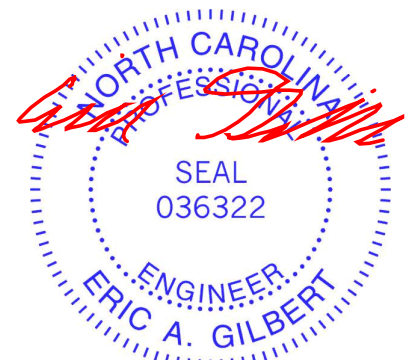ID:RoFQORvmtbuV?DZjm98VbzzKksg-ZlXadrGjK6lj9S4axD1uo3cuB9u?mAPMAHLlj4yASjG

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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 46 lb	FT = 20%

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

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

REACTIONS.   All bearings 12-1-15.
  (lb) - Max Horz 1=90(LC 7)
          Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
          Max Grav   All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=314(LC 17), 6=314(LC 18)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-279/206, 4-6=-279/206

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.

December 11,2021

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	E16479639
J0522-2642	VC03	Valley	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:18 2021 Page 1
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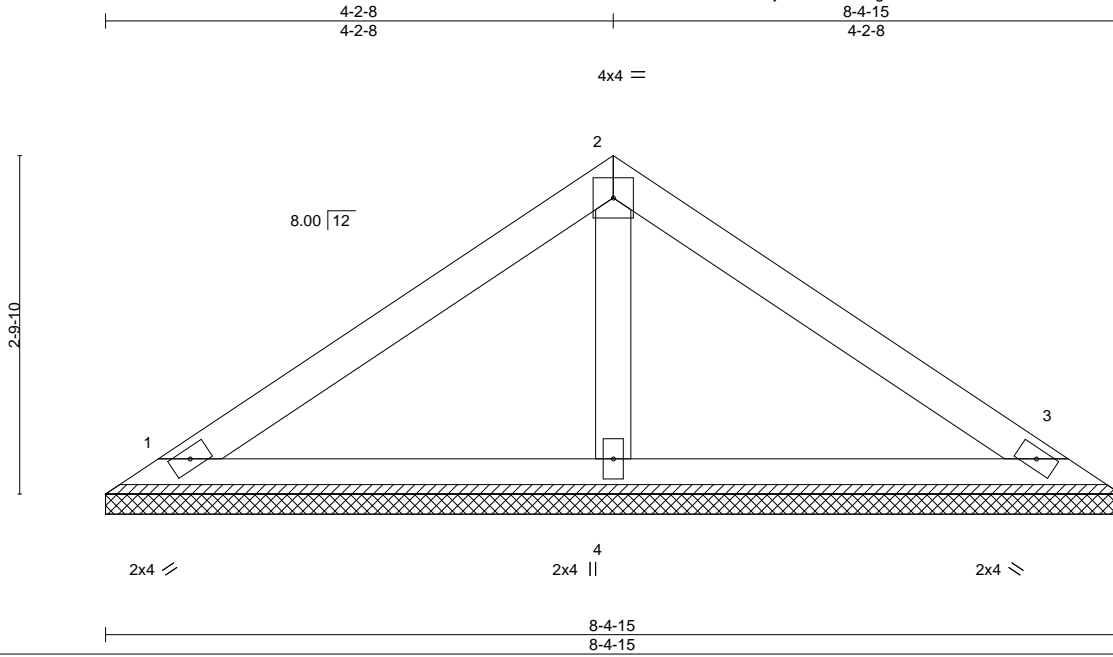
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 29 lb	FT = 20%

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=8-4-15, 3=8-4-15, 4=8-4-15
Max Horz 1=-60(LC 6)
Max Uplift 1=-28(LC 10), 3=-34(LC 11)
Max Grav 1=162(LC 1), 3=162(LC 1), 4=272(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

December 11,2021

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

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\Lot 153 Anderson Creek	
J0522-2642	VC04	Valley	1	1		E16479640
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Dec 10 05:53:18 2021 Page 1
ID:RoFQORvmtbuV?DZjm98VbzzKksg-1x5zrBHL5PQancfnVxY7KH95NYFEVdCWPx4sFXyASjF

2-4-0
2-4-0
4-7-15
2-4-0

Scale = 1:10.5

8.00 ⌐12

4x4 ═

1-6-10

2x4 ⁄⁄   2x4 ‖   2x4 ⟍

4-7-15
4-7-15

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%

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 4-7-15 oc purlins.
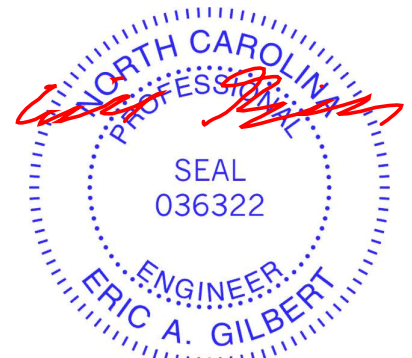BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size) 1=4-7-15, 3=4-7-15, 4=4-7-15
        Max Horz 1=30(LC 7)
        Max Uplift 1=-14(LC 10), 3=-17(LC 11)
        Max Grav 1=80(LC 1), 3=80(LC 1), 4=135(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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.

1 ¾"

0- ⅟₁₆"

For 4 x 2 orientation, locate plates 0- ⅟₁₆" from outside edge of truss.

=

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

* Plate location details available in MiTek 20/20 software or upon request.
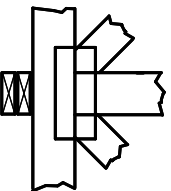
PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION

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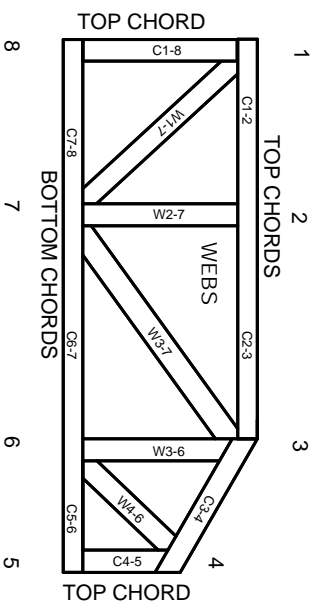
BEARING

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

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.

BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

Numbering System

6-4-8

dimensions shown in ft-in-sixteenths
(Drawings not to scale)

TOP CHORD

1

2

TOP CHORDS

3

WEBS

BOTTOM CHORDS

4

TOP CHORD

8   7   6   5

C1-8   C1-2   W1-7   C7-8   W2-7   C2-3   C6-7   W3-7   W3-6   C3-4   W4-6   C5-6   C4-5

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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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⚠ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.

2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.

3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.

4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

5. Cut members to bear tightly against each other.

6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.

11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.

13. Top chords must be sheathed or purlins provided at spacing indicated on design.

14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

15. Connections not shown are the responsibility of others.

16. Do not cut or alter truss member or plate without prior approval of an engineer.

17. Install and load vertically unless indicated otherwise.

18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.

19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.