ENGINEERING BY TRENCO

A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0124-0300
Weaver Homes/38 West Preserve/Harnett

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

Pages or sheets covered by this seal: I63472302 thru I63472338

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

North Carolina COA: C-0844

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A GILBERT
ENGINEER

February 7,2024

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	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	A1-STR	GABLE	1	1		I63472302
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:14 2024 Page 1
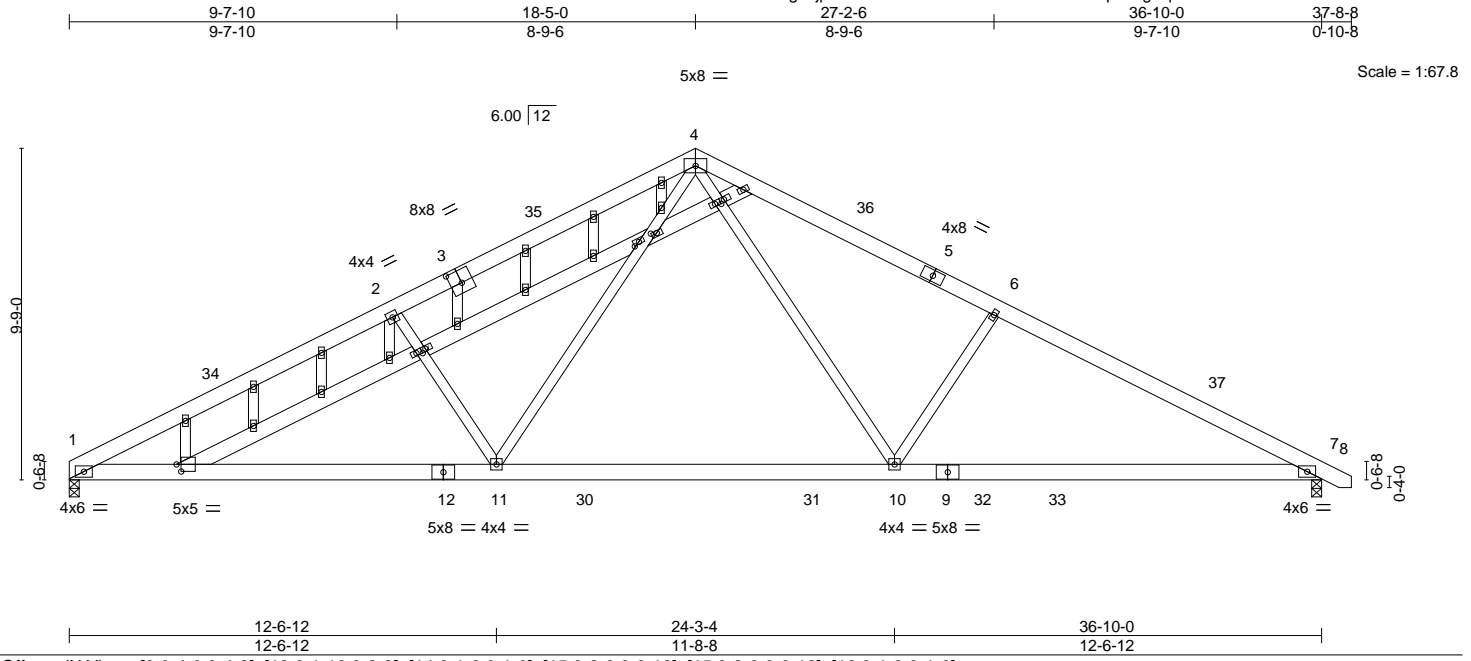ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-7-10	18-5-0	27-2-6	36-10-0	37-8-8
9-7-10	8-9-6	8-9-6	9-7-10	0-10-8

Scale = 1:67.8

12-6-12	24-3-4	36-10-0
12-6-12	11-8-8	12-6-12

Plate Offsets (X,Y)--   [3:0-4-0,0-4-8], [13:0-1-10,0-2-8], [14:0-1-9,0-1-0], [15:0-2-0,0-0-12], [15:0-2-0,0-0-12], [16:0-1-9,0-1-0]

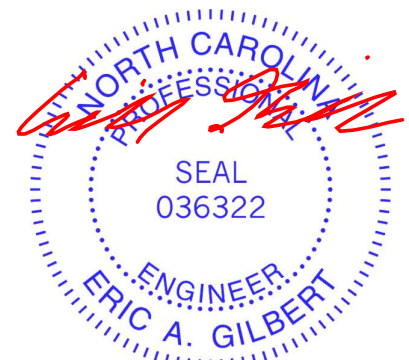| LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.32	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.42	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	7-10	>999	240	Weight: 291 lb	FT = 25%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x6 SP No.1 *Except*
            2-11,4-11,4-10,6-10: 2x4 SP No.2
OTHERS   2x4 SP No.2

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

REACTIONS.   (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-199(LC 17)
Max Uplift 1=-301(LC 12), 7=-325(LC 13)
Max Grav 1=1461(LC 1), 7=1547(LC 2)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-2642/577, 2-4=-2407/593, 4-6=-2479/580, 6-7=-2714/562
BOT CHORD   1-11=-538/2290, 10-11=-164/1549, 7-10=-376/2354
WEBS   2-11=-562/436, 4-11=-262/956, 4-10=-262/1075, 6-10=-559/430

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 18-5-0, Exterior(2) 18-5-0 to 22-9-13, Interior(1) 22-9-13 to
   37-6-6 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 301 lb uplift at joint 1 and 325 lb uplift at
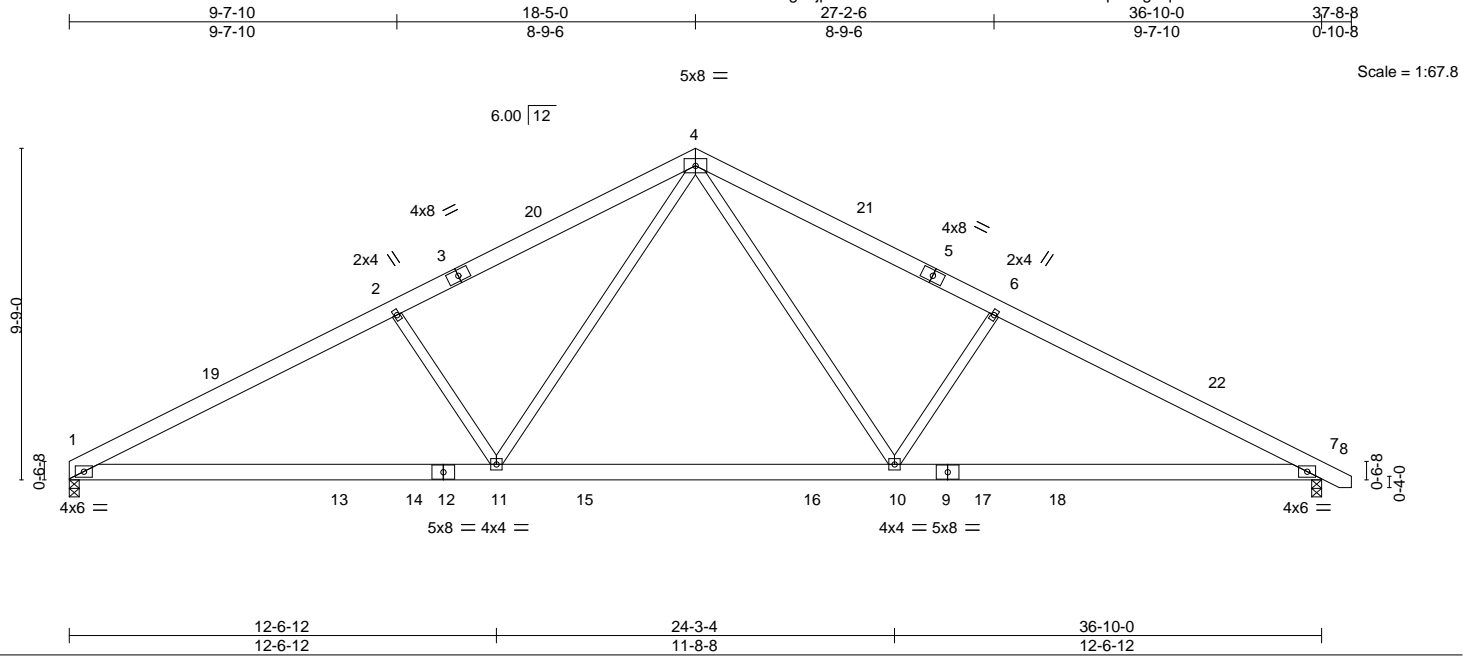   joint 7.

NORTH CAROLINA
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036322
ERIC A. GILBERT
ENGINEER

February 7, 2024

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:16 2024 Page 1
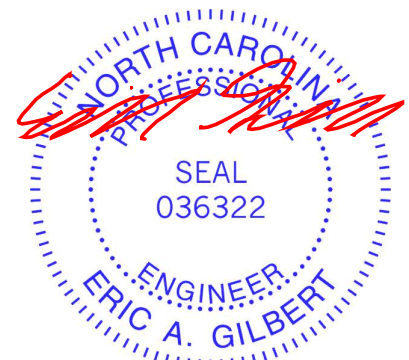ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

	9-7-10		18-5-0		27-2-6		36-10-0	37-8-8
	9-7-10		8-9-6		8-9-6		9-7-10	0-10-8

5x8 =

6.00 [12]

Scale = 1:67.8

	12-6-12		24-3-4		36-10-0	
	12-6-12		11-8-8		12-6-12	

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	0.43	Vert(LL)	-0.28	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.38	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	7-10	>999	240	Weight: 233 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 or 4-2-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-199(LC 17)
Max Uplift 1=-301(LC 12), 7=-325(LC 13)
Max Grav 1=1528(LC 2), 7=1571(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-2763/577, 2-4=-2528/593, 4-6=-2526/580, 6-7=-2761/562
BOT CHORD   1-11=-538/2400, 10-11=-164/1600, 7-10=-376/2397
WEBS   2-11=-562/436, 4-11=-262/1063, 4-10=-262/1059, 6-10=-559/430

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 18-5-0, Exterior(2) 18-5-0 to 22-9-13, Interior(1) 22-9-13 to
   37-6-6 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 301 lb uplift at joint 1 and 325 lb uplift at
   joint 7.

February 7,2024

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	A3	ROOF SPECIAL	9	1		I63472304
					Job Reference (optional)	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:17 2024 Page 1
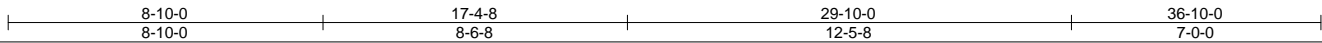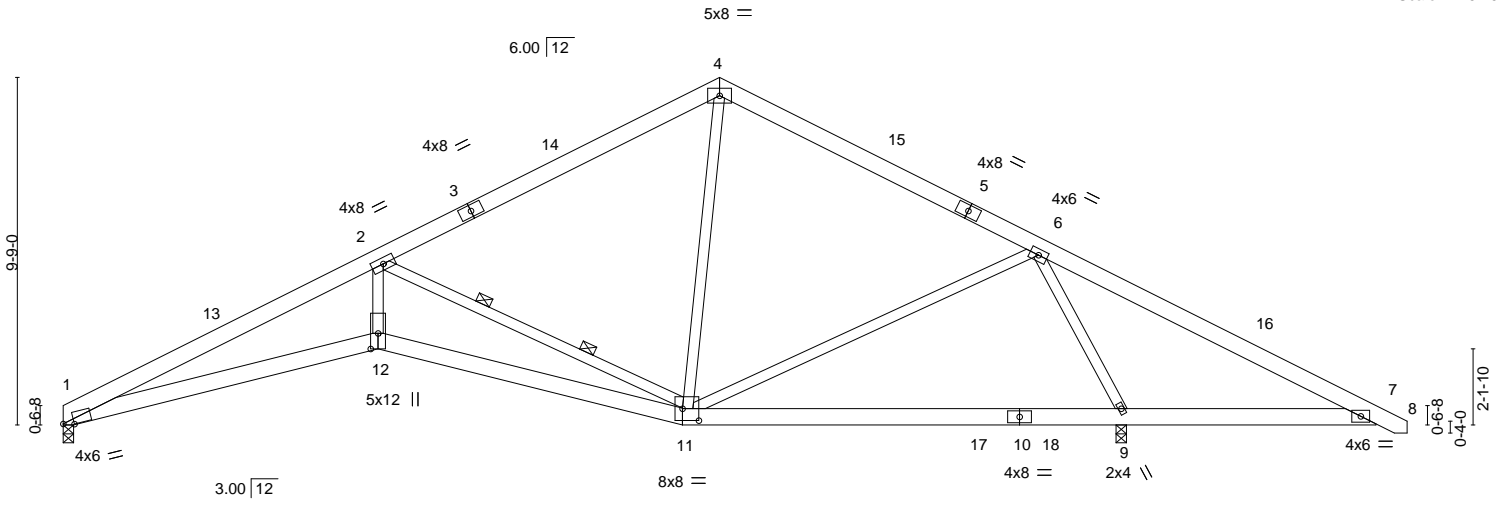ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-10-0	18-5-0	27-2-6	36-10-0	37-8-8
8-10-0	9-7-0	8-9-6	9-7-10	0-10-8
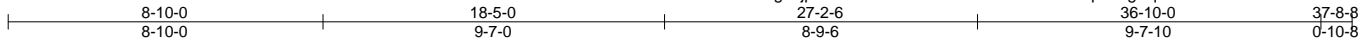
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Plate Offsets (X,Y)--   [1:0-3-10,0-0-15], [11:0-5-8,0-4-0], [12:0-5-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.18	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.36	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	12	>999	240	Weight: 240 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 or 3-8-2 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing,   Except:
            6-0-0 oc bracing: 7-9.
WEBS   2 Rows at 1/3 pts   2-11

REACTIONS.   (size) 1=0-3-8, 9=0-3-8
               Max Horz 1=-126(LC 10)
               Max Uplift 1=-86(LC 12), 9=-122(LC 13)
               Max Grav 1=1110(LC 1), 9=1867(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-3461/540, 2-4=-1077/267, 4-6=-1038/251, 6-7=-662/777
BOT CHORD   1-12=-378/3114, 11-12=-377/3106, 9-11=-7/321, 7-9=-566/691
WEBS   2-12=-84/1663, 2-11=-2437/495, 4-11=0/458, 6-11=-209/650, 6-9=-1769/833

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 18-5-0, Exterior(2) 18-5-0 to 22-9-13, Interior(1) 22-9-13 to 37-6-6 zone;
   cantilever 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, with BCDL = 10.0psf.
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
   capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 1 and 122 lb uplift at
   joint 9.

February 7,2024

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	B1	FINK	6	1		I63472305
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:18 2024 Page 1
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-0-10-8	8-8-2	16-6-0	24-3-14	33-0-0	33-10-8
0-10-8	8-8-2	7-9-14	7-9-14	8-8-2	0-10-8

Scale = 1:68.2

10-11-0	22-1-0	33-0-0
10-11-0	11-2-0	10-11-0
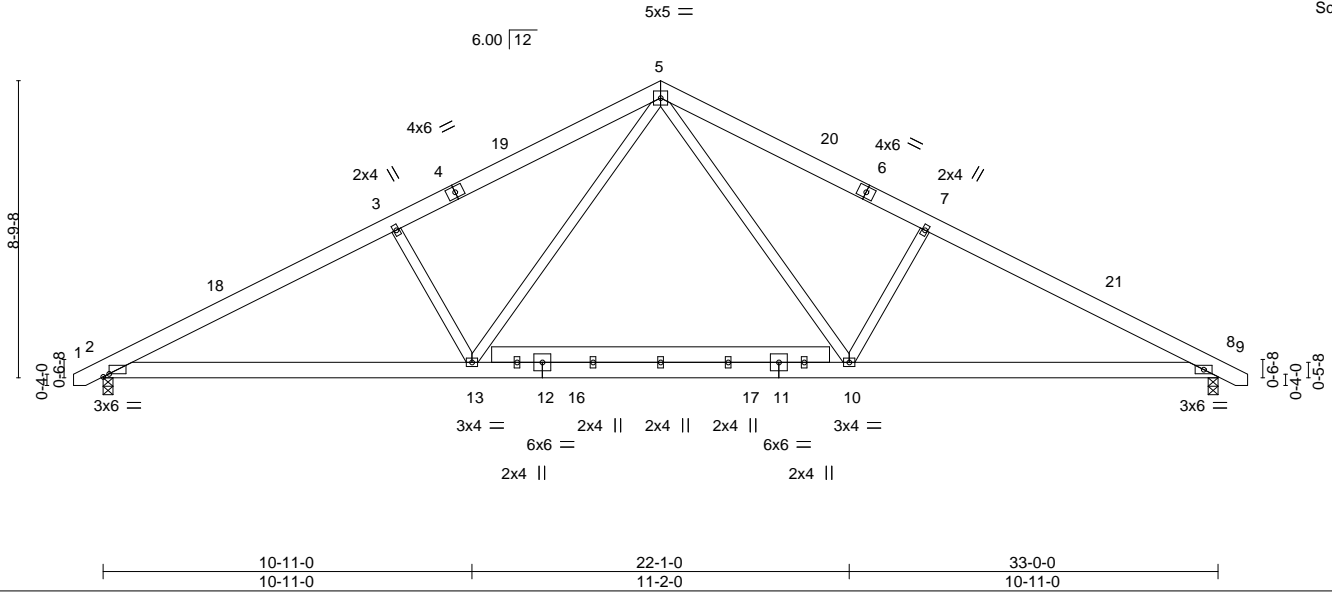
Plate Offsets (X,Y)--   [2:0-2-2,Edge]

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	0.31	Vert(LL)	-0.25	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.35	10-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	2-13	>999	240	Weight: 234 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 or 4-9-6 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=112(LC 11)
Max Uplift 2=-91(LC 12), 8=-91(LC 13)
Max Grav   2=1359(LC 1), 8=1359(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2297/505, 3-5=-2094/540, 5-7=-2094/540, 7-8=-2297/505
BOT CHORD   2-13=-322/2010, 10-13=-106/1315, 8-10=-332/1968
WEBS   3-13=-490/297, 5-13=-151/893, 5-10=-151/893, 7-10=-490/297

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 33-8-6 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 91 lb uplift at joint 2 and 91 lb uplift at
   joint 8.
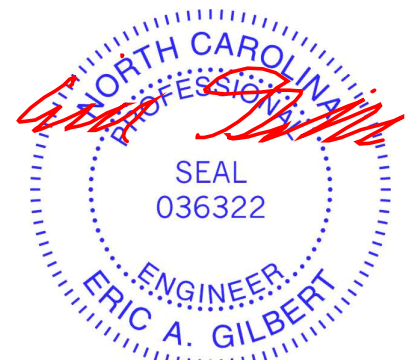
February 7,2024

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:20 2024 Page 1
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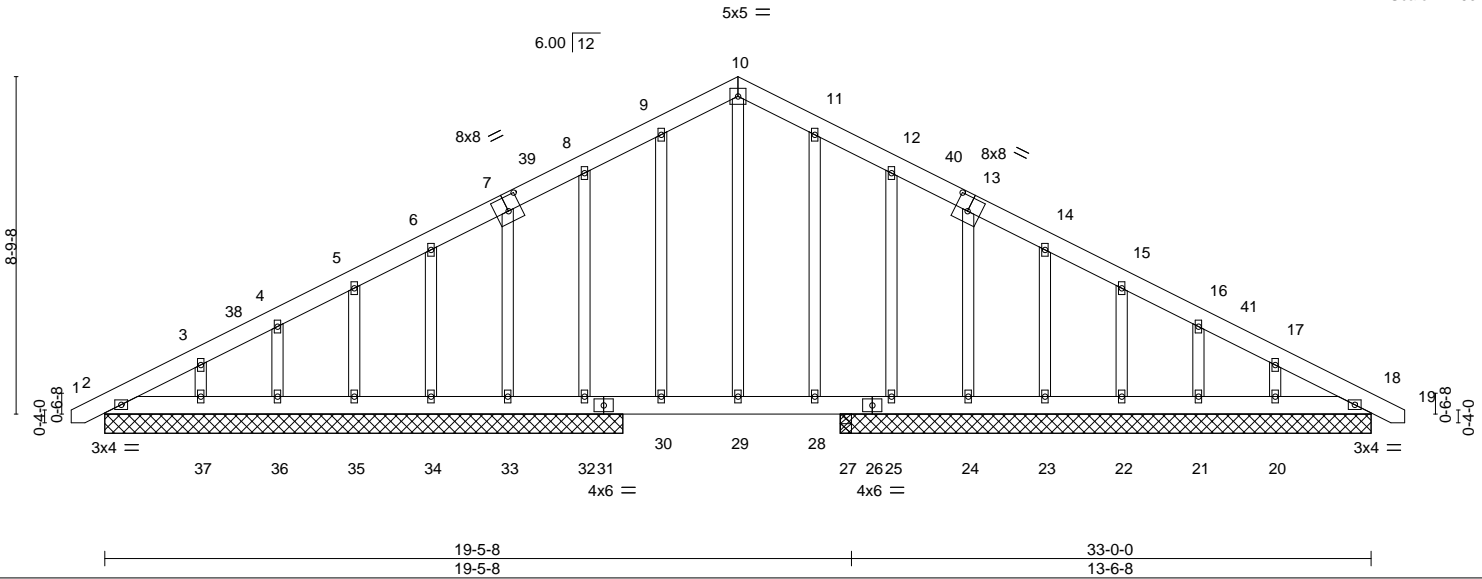
Plate Offsets (X,Y)--   [7:0-4-0,0-4-8], [13:0-4-0,0-4-8]

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	0.05	Vert(LL)	-0.01	29	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	29	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	-0.00	29	>999	240	Weight: 261 lb	FT = 25%

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

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

REACTIONS.   All bearings 13-6-0 except (jt=length) 18=13-10-0, 25=13-10-0, 24=13-10-0, 23=13-10-0, 22=13-10-0, 21=13-10-0,
20=13-10-0, 27=0-3-8.
(lb) - Max Horz 2=174(LC 12)
Max Uplift   All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 24, 23, 22, 21, 20 except 25=-132(LC
13)
Max Grav   All reactions 250 lb or less at joint(s) 2, 18, 33, 34, 35, 36, 37, 25, 24, 23, 22, 21, 20 except
32=387(LC 1), 27=335(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-291/0, 3-4=-258/0, 9-10=-181/277, 10-11=-202/291, 11-12=-195/255,
17-18=-269/0

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
gable end zone and C-C Corner(3) -0-8-6 to 3-8-7, Exterior(2) 3-8-7 to 16-6-0, Corner(3) 16-6-0 to 20-10-13, Exterior(2) 20-10-13 to
33-8-6 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 35, 36,
37, 24, 23, 22, 21, 20 except (jt=lb) 25=132.

February 7,2024

ENGINEERING BY
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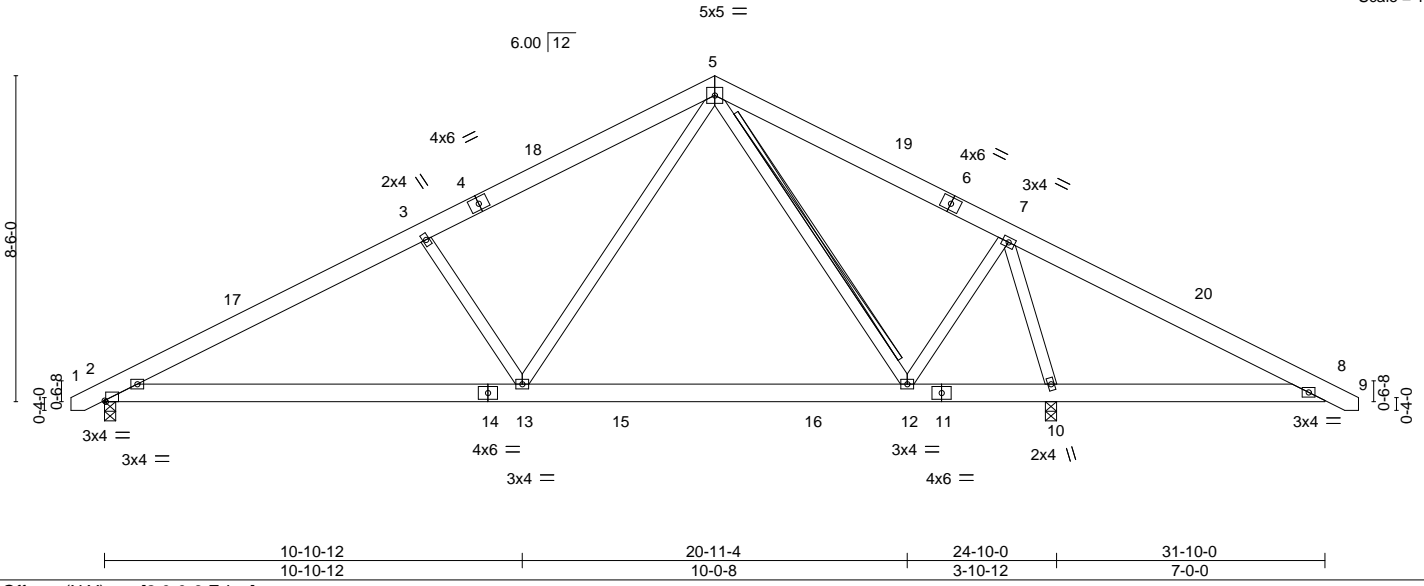818 Soundside Road
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:22 2024 Page 1
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-0-10-8   8-4-10   15-11-0   23-5-6   31-10-0   32-8-8
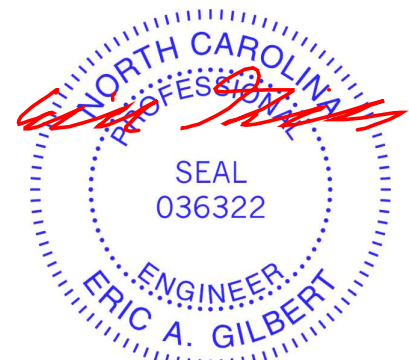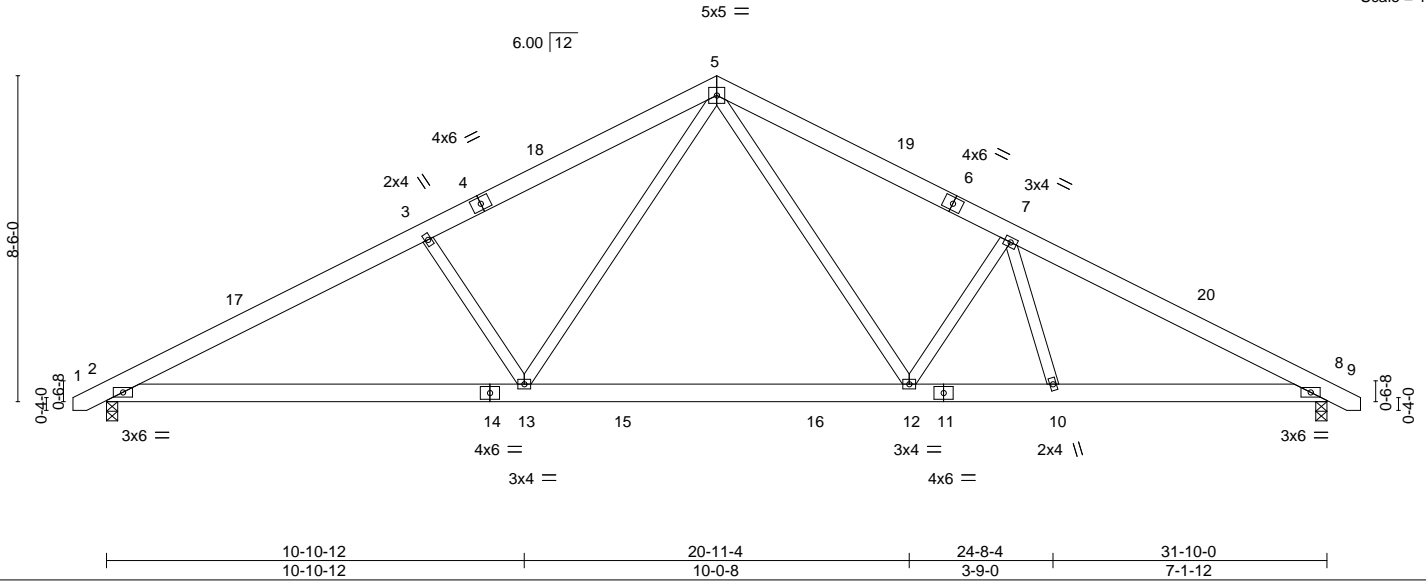0-10-8   8-4-10   7-6-6   7-6-6   8-4-10   0-10-8

Scale = 1:60.1

5x5 =
6.00 ⎯12

10-10-12   20-11-4   24-10-0   31-10-0
10-10-12   10-0-8   3-10-12   7-0-0

Plate Offsets (X,Y)--   [2:0-0-6,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	0.38	Vert(LL)	-0.14	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.20	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	2-13	>999	240	Weight: 209 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 or 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS   T-Brace: 2x4 SPF No.2 - 5-12
             Fasten (2X) T and I braces to narrow edge of web with 10d
             (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
             Brace must cover 90% of web length.

REACTIONS.   (size)   2=0-3-8, 10=0-3-8
Max Horz 2=-108(LC 10)
Max Uplift 2=-86(LC 12), 10=-112(LC 13)
Max Grav 2=942(LC 1), 10=1685(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1419/242, 3-5=-1214/258, 5-7=-528/127, 7-8=-597/758
BOT CHORD   2-13=-146/1286, 12-13=0/618, 10-12=-190/457, 8-10=-561/626
WEBS   3-13=-484/295, 5-13=-142/843, 5-12=-549/344, 7-12=-160/772, 7-10=-1594/621

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 15-11-0, Exterior(2) 15-11-0 to 20-3-13, Interior(1) 20-3-13 to 32-6-6 zone;
   cantilever 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
   10=112.
6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

February 7,2024

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	C2	FINK	1	1		I63472308
					Job Reference (optional)	

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Scale = 1:60.1

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	0.29	Vert(LL)	-0.16	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.26	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	2-13	>999	240	Weight: 209 lb	FT = 25%

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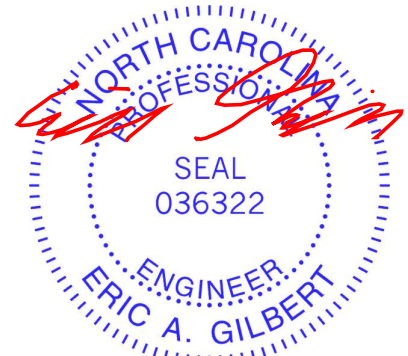WEBS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-10-12 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=-108(LC 10)
            Max Uplift 2=-88(LC 12), 8=-88(LC 13)
            Max Grav 2=1312(LC 1), 8=1312(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2195/493, 3-5=-1981/509, 5-7=-1974/520, 7-8=-2273/475
BOT CHORD   2-13=-316/1926, 12-13=-103/1275, 10-12=-319/1901, 8-10=-306/1933
WEBS   3-13=-474/288, 5-13=-130/825, 5-12=-150/814, 7-12=-552/256

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
    and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 15-11-0, Exterior(2) 15-11-0 to 20-3-13, Interior(1) 20-3-13 to 32-6-6 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) 2, 8.

SEAL
036322

ERIC A. GILBERT

February 7,2024

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

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	C3	ROOF SPECIAL	1	1		I63472309
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:24 2024 Page 1
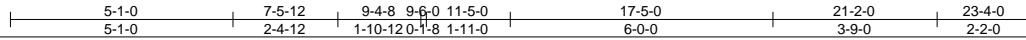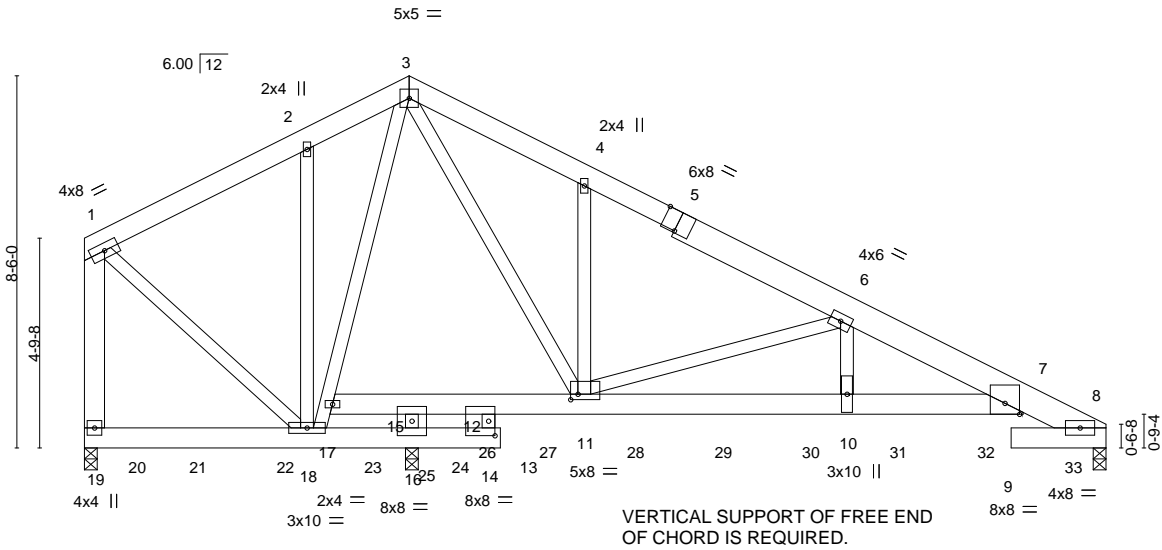ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:63.3

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

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	0.33	Vert(LL)	-0.06	11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.13	11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	11	>999	240	Weight: 215 lb	FT = 25%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1 *Except*
9-11: 2x4 SP No.1
WEBS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 6-0-0 oc bracing,   Except:
10-0-0 oc bracing: 9-11.
WEBS   1 Row at midpt   5-16
T-Brace: 2x4 SPF No.2 - 3-16, 7-14
Fasten (2X) T and I braces to narrow edge of web with 10d
(0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.   (size) 2=0-3-8, 9=0-3-8, 16=0-3-8
Max Horz 2=109(LC 11)
Max Uplift 2=-81(LC 12), 9=-69(LC 13), 16=-21(LC 13)
Max Grav 2=491(LC 23), 9=402(LC 24), 16=1893(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-504/264, 3-5=0/758, 5-7=0/764
BOT CHORD   2-18=-197/368, 16-18=-197/368, 15-16=-551/209, 13-14=-203/709
WEBS   3-18=0/353, 3-16=-814/266, 14-16=-1333/287, 5-14=-1013/193, 7-14=-816/248,
7-12=0/271

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 15-11-0, Exterior(2) 15-11-0 to 20-3-13, Interior(1) 20-3-13 to 32-6-6 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) 2, 9, 16.
6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

February 7,2024

ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	C4GR	ROOF SPECIAL GIRDER	1	**2**		I63472310
					Job Reference (optional)	

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	5-1-0	7-5-0	11-5-0	17-5-0	21-2-0	23-4-0
	5-1-0	2-4-0	4-0-0	6-0-0	3-9-0	2-2-0

5x5 =

Scale = 1:52.6

VERTICAL SUPPORT OF FREE END
OF CHORD IS REQUIRED.

	5-1-0	7-5-12	9-4-8 9-6-0 11-5-0	17-5-0	21-2-0	23-4-0
	5-1-0	2-4-12	1-10-12 0-1-8 1-11-0	6-0-0	3-9-0	2-2-0

Plate Offsets (X,Y)--   [5:0-4-0,Edge], [11:0-2-0,0-1-8], [12:0-1-12,0-4-0]

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	0.76	Vert(LL)	-0.18	10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.36	10-11	>525	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.19	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	10-11	>999	240	Weight: 409 lb	FT = 25%

LUMBER-
TOP CHORD   2x6 SP 2400F 2.0E *Except*
5-8: 2x8 SP 2400F 2.0E
BOT CHORD   2x6 SP 2400F 2.0E
WEBS   2x4 SP No.2 *Except*
1-19: 2x6 SP No.1

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

REACTIONS.   (size)   19=0-3-8, 8=0-3-8, 16=0-3-8
Max Horz 19=-187(LC 28)
Max Uplift 19=-230(LC 9), 8=-276(LC 9), 16=-179(LC 8)
Max Grav 19=2444(LC 21), 8=4016(LC 1), 16=5484(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-663/152, 2-3=-709/185, 3-4=-2484/358, 4-6=-2522/278, 6-7=-7737/557,
7-8=-1262/109, 1-19=-766/170
BOT CHORD   15-17=-19/797, 12-15=-19/797, 11-12=-19/797, 10-11=-464/7286, 7-10=-464/7286
WEBS   2-18=-432/110, 4-11=-284/152, 1-18=-124/587, 6-10=86/3075, 6-11=-5453/405,
17-18=-91/719, 3-17=-1281/104, 3-11=-305/2884, 15-16=-1955/33, 12-14=-871/53

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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph 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
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=230, 8=276, 16=179.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 945 lb down and 54 lb up at 0-6-12, 937 lb down and 60 lb up at 2-6-12, 937 lb down and 60 lb up at 4-6-12, 916 lb down and 60 lb up at 6-6-12, 903 lb down and 60 lb up at 8-6-12, 803 lb down and 52 lb up at 10-6-12, 803 lb down and 52 lb up at 12-6-12, 803 lb down and 52 lb up at 14-6-12, 803 lb down and 52 lb up at 16-6-12, 803 lb down and 52 lb up at 18-6-12, and 803 lb down and 52 lb up at 20-6-12, and 941 lb down and 56 lb up at 22-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
Continued on page 2

February 7,2024

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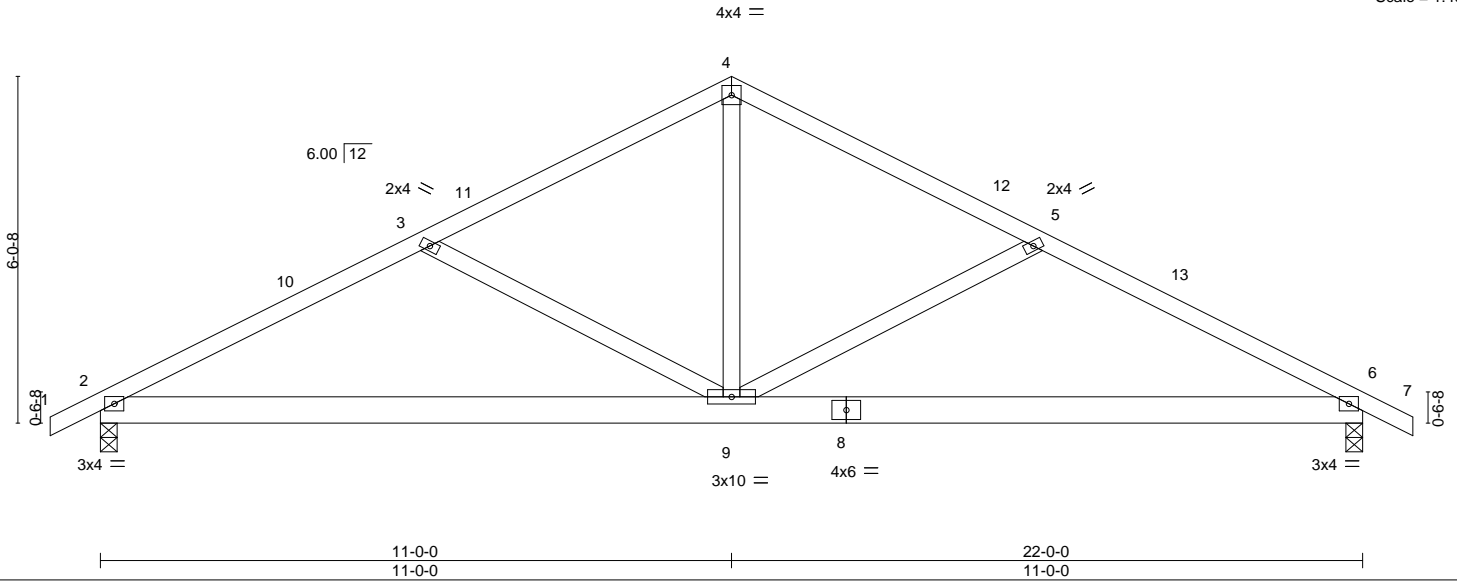| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	C4GR	ROOF SPECIAL GIRDER	1	**2**	Job Reference (optional)	I63472310

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
        Vert: 1-3=-60, 3-8=-60, 13-19=-20, 7-12=-20, 8-9=-20
   Concentrated Loads (lb)
        Vert: 20=-843(F) 21=-836(F) 22=-836(F) 23=-836(F) 24=-836(F) 27=-803(F) 28=-803(F) 29=-803(F) 30=-803(F) 31=-803(F) 32=-803(F) 33=-839(F)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	D1	QUEENPOST	6	1		I63472311
					Job Reference (optional)	

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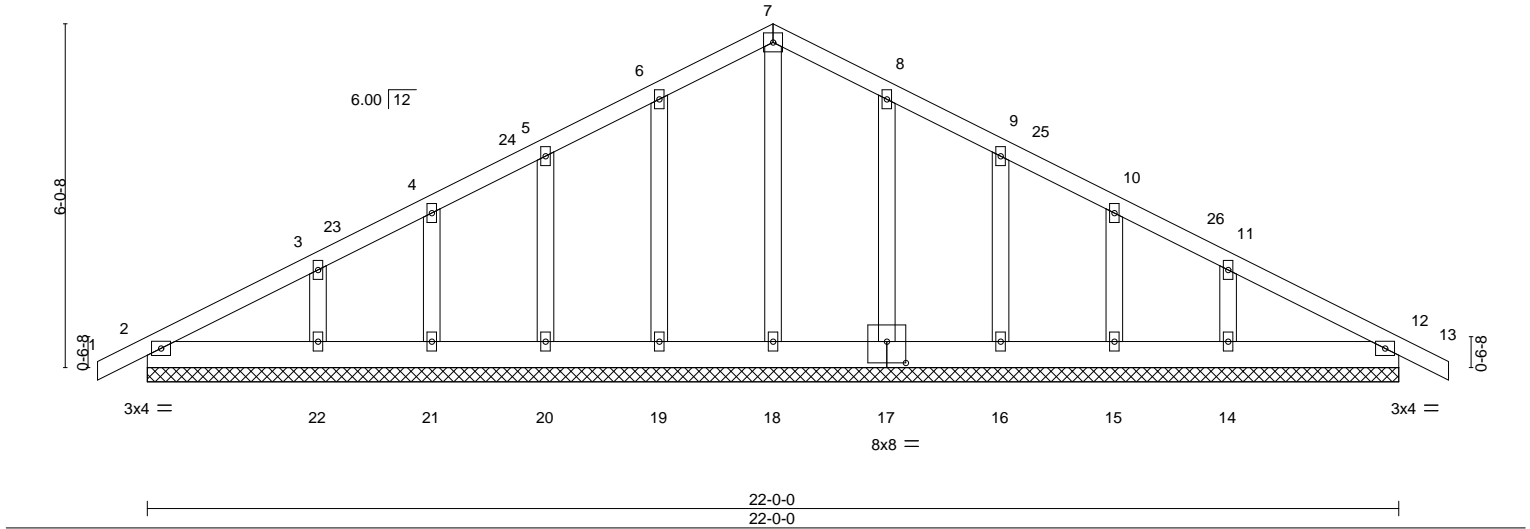ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-10-8 | 5-8-14 | 11-0-0 | 16-3-2 | 22-0-0 | 22-10-8
0-10-8 | 5-8-14 | 5-3-2 | 5-3-2 | 5-8-14 | 0-10-8
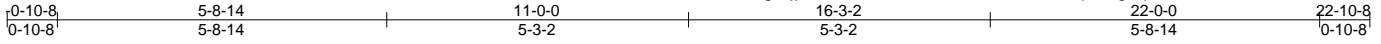
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LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.08	2-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.18	2-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	2-9	>999	240	Weight: 117 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 or 5-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size) 6=0-3-8, 2=0-3-8
              Max Horz 2=77(LC 11)
              Max Uplift 6=-66(LC 13), 2=-66(LC 12)
              Max Grav 6=930(LC 1), 2=930(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1425/377, 3-4=-1076/286, 4-5=-1076/286, 5-6=-1425/377
BOT CHORD   2-9=-249/1194, 6-9=-258/1194
WEBS   3-9=-365/248, 4-9=-76/632, 5-9=-365/248

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-10-8 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.

NORTH CAROLINA
PROFESSIONAL SEAL
SEAL
036322
ENGINEER
ERIC A. GILBERT

February 7,2024

Scale = 1:40.5

Plate Offsets (X,Y)--   [17:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 133 lb	FT = 25%

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

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

REACTIONS.   All bearings 22-0-0.
       (lb) - Max Horz 2=120(LC 16)
               Max Uplift   All uplift 100 lb or less at joint(s) 12, 2, 19, 20, 21, 17, 16, 15 except 22=-108(LC 12),
                            14=-106(LC 13)
               Max Grav   All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 22, 17, 16, 15, 14

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 11-0-0, Corner(3) 11-0-0 to 15-4-13, Exterior(2) 15-4-13 to
   22-10-8 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 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) 12, 2, 19, 20, 21,
   17, 16, 15 except (jt=lb) 22=108, 14=106.

February 7,2024

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	D1GR	QUEENPOST	1	**2**		I63472313
					Job Reference (optional)	

Comtech, Inc,　　　Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:30 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
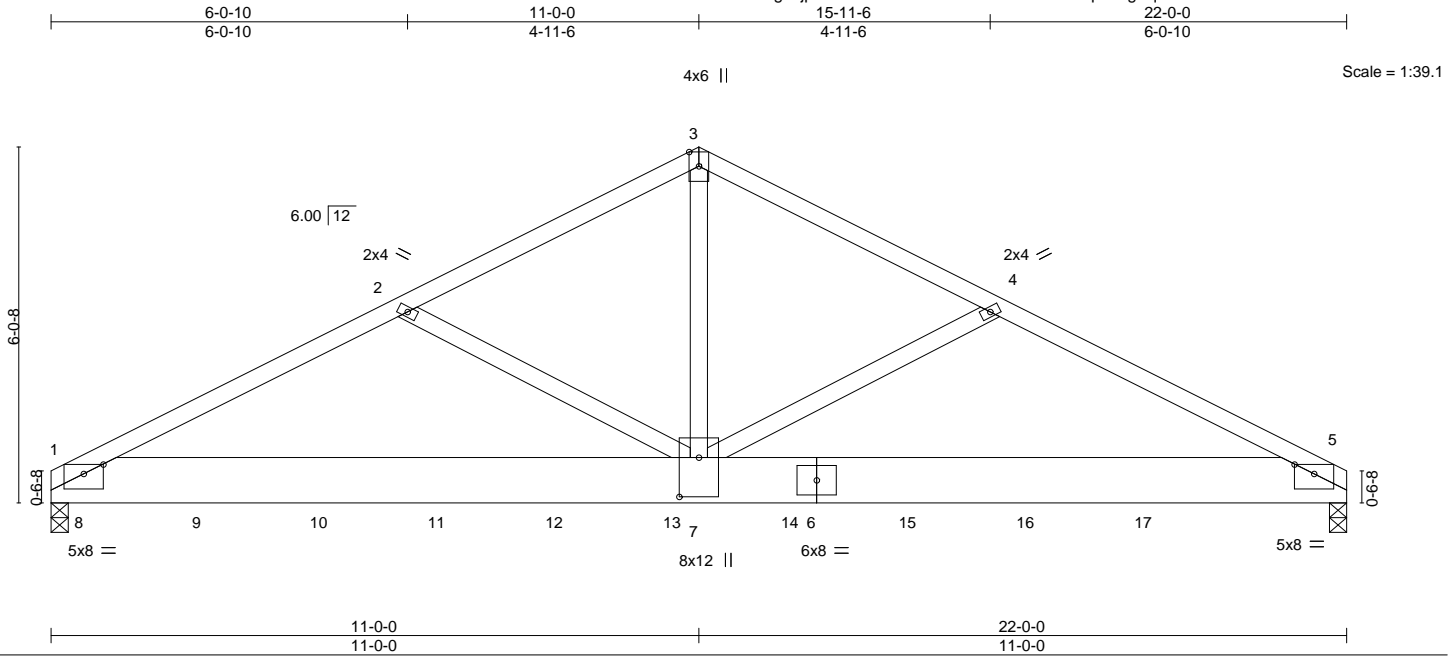
Plate Offsets (X,Y)--　　[1:0-4-0,0-1-15], [5:0-4-0,0-1-15], [7:0-8-0,0-4-0]

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	0.58	Vert(LL)	-0.17	1-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.31	1-7	>852	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	1-7	>999	240	Weight: 294 lb	FT = 25%

LUMBER-
TOP CHORD　2x4 SP No.1
BOT CHORD　2x10 SP 2400F 2.0E
WEBS　　　　2x4 SP No.2

BRACING-
TOP CHORD　Structural wood sheathing directly applied or 4-2-11 oc purlins.
BOT CHORD　Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.　(size)　5=0-3-8, 1=0-3-8
　　　　　Max Horz　1=-72(LC 25)
　　　　　Max Uplift　5=-279(LC 9), 1=-345(LC 8)
　　　　　Max Grav　5=4834(LC 2), 1=6076(LC 2)

FORCES.　(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD　1-2=-7837/499, 2-3=-7578/438, 3-4=-7577/437, 4-5=-7830/499
BOT CHORD　1-7=-452/6944, 5-7=-386/6935
WEBS　　　　2-7=-337/217, 3-7=-312/6493, 4-7=-333/223

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
　Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
　Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-2-0 oc.
　Webs connected as follows: 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph 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
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) 5=279, 1=345.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 943 lb down and 54 lb up at 0-6-12, 937 lb down and 60 lb up at 2-6-12, 937 lb down and 60 lb up at 4-6-12, 937 lb down and 60 lb up at 6-6-12, 937 lb down and 60 lb up at 8-6-12, 937 lb down and 60 lb up at 10-6-12, 940 lb down and 60 lb up at 12-6-12, 940 lb down and 60 lb up at 14-6-12, and 940 lb down and 60 lb up at 16-6-12, and 940 lb down and 60 lb up at 18-6-12 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=-20, 1-3=-60, 3-5=-60

February 7,2024

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

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	D1GR	QUEENPOST	1	**2**	Job Reference (optional)	I63472313

LOAD CASE(S) Standard
    Concentrated Loads (lb)
       Vert: 8=-841(B) 9=-836(B) 10=-836(B) 11=-836(B) 12=-836(B) 13=-836(B) 14=-838(B) 15=-838(B) 16=-838(B) 17=-838(B)

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	E1	COMMON	6	1		I63472314
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:32 2024 Page 1
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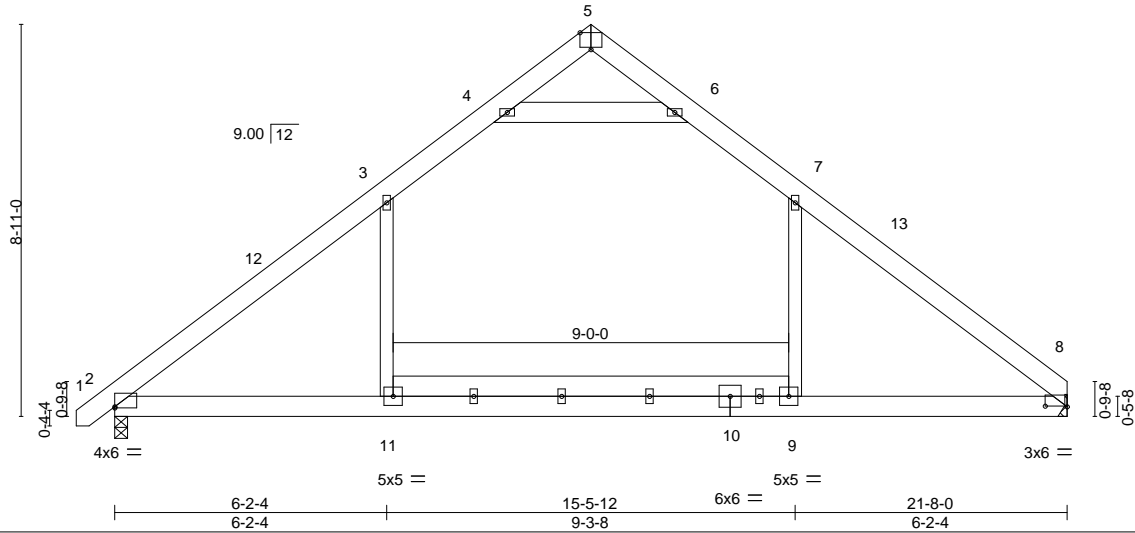
Plate Offsets (X,Y)--   [2:0-0-0,0-0-5], [5:0-3-0,Edge], [8:0-6-0,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.22	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.32	9-11	>795	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	9	>999	240	Weight: 163 lb	FT = 25%

LUMBER-
TOP CHORD   2x6 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2 *Except*
            4-6: 2x6 SP No.1

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-9-13 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   8=Mechanical, 2=0-3-8
              Max Horz 2=206(LC 11)
              Max Uplift 8=-40(LC 13), 2=-52(LC 12)
              Max Grav 8=997(LC 20), 2=1048(LC 19)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1398/207, 3-4=-904/280, 4-5=-81/396, 5-6=-76/397, 6-7=-904/285, 7-8=-1386/205
BOT CHORD   2-11=-30/979, 9-11=-30/979, 8-9=-30/979
WEBS   7-9=0/512, 3-11=0/527, 4-6=-1383/435

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 10-10-0, Exterior(2) 10-10-0 to 15-5-12, Interior(1) 15-5-12 to 21-6-12
   zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
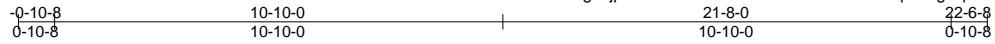
NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

February 7,2024

TRENCO
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818 Soundside Road
Edenton, NC 27932

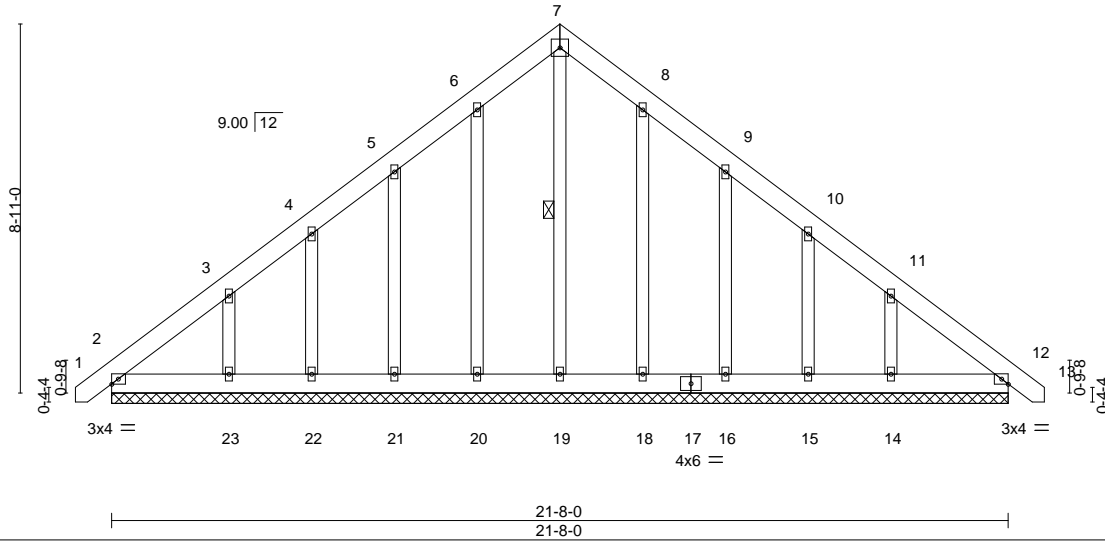| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	E1GE	GABLE	1	1		I63472315
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:33 2024 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	0.04	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 182 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   7-19

REACTIONS.   All bearings 21-8-0.
    (lb) - Max Horz 2=260(LC 11)
            Max Uplift   All uplift 100 lb or less at joint(s) 2, 12, 20, 22, 18, 15 except 21=-110(LC 12), 23=-162(LC 12),
                16=-112(LC 13), 14=-159(LC 13)
            Max Grav   All reactions 250 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 18, 16, 15 except 23=261(LC 19),
                14=257(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-262/196

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Corner(3) -0-8-12 to 3-8-1, Exterior(2) 3-8-1 to 10-10-0, Corner(3) 10-10-0 to 15-2-13, Exterior(2) 15-2-13 to
   22-4-12 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) 2, 12, 20, 22, 18,
   15 except (jt=lb) 21=110, 23=162, 16=112, 14=159.

February 7,2024

TRENCO
ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	I63472316
J0124-0300	E2	COMMON	4	1	Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:34 2024 Page 1
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Scale = 1:52.4

4x6 =

9.00 |12

8-11-0

0-9-8

3x6 =   5x5 =   6x6 =   5x5 =   3x6 =

9-0-0

6-2-4	10-10-0	15-5-12	21-8-0
6-2-4	4-7-12	4-7-12	6-2-4

6-2-4	15-5-12	21-8-0
6-2-4	9-3-8	6-2-4

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

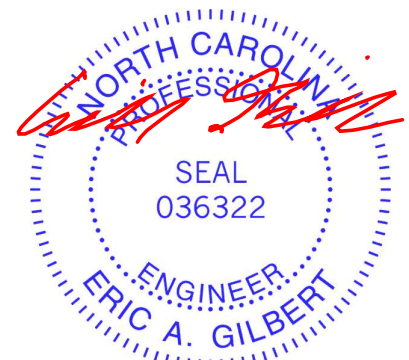| LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.22	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.33	8-10	>786	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	10	>999	240	Weight: 160 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-9-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=Mechanical, 7=Mechanical
        Max Horz 1=201(LC 11)
        Max Uplift 1=-40(LC 12), 7=-40(LC 13)
        Max Grav 1=1000(LC 19), 7=1000(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-1394/207, 2-3=-909/286, 3-4=-84/403, 4-5=-84/404, 5-6=-909/286, 6-7=-1394/207
BOT CHORD   1-10=-32/985, 8-10=-32/985, 7-8=-32/985
WEBS   6-8=0/515, 2-10=0/515, 3-5=-1397/440

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 10-10-0, Exterior(2) 10-10-0 to 15-5-12, Interior(1) 15-5-12 to 21-6-12
   zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
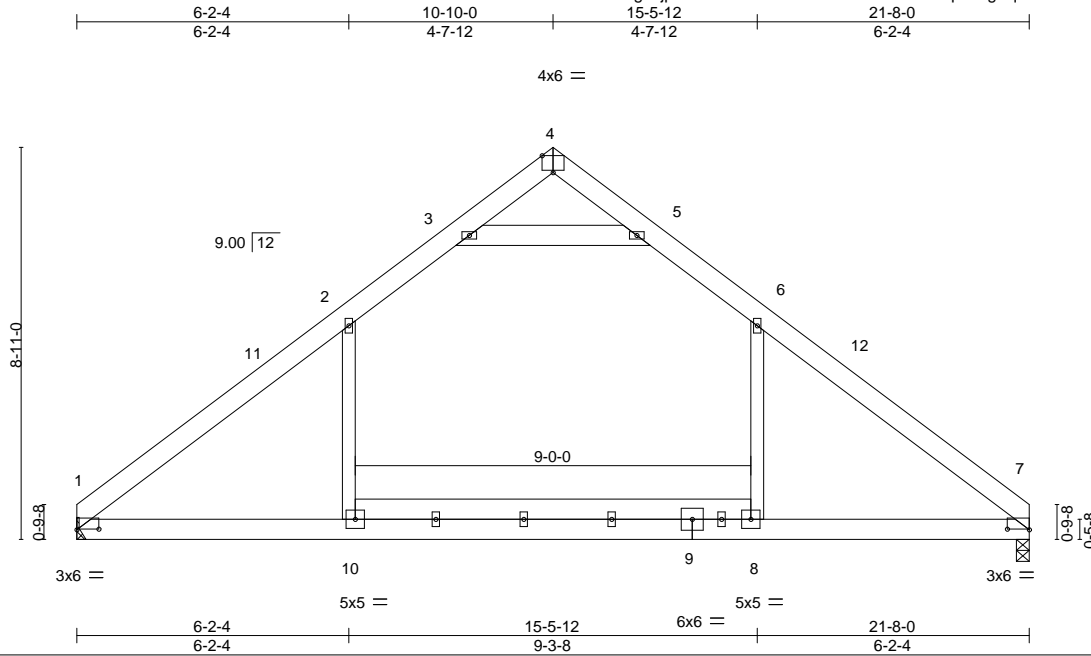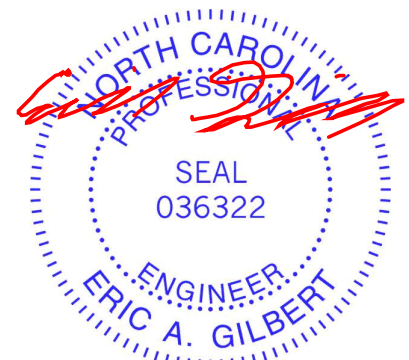
NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

February 7,2024

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Scale = 1:52.4

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.22	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.33	8-10	>787	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	10	>999	240	Weight: 160 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-9-13 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=Mechanical, 7=0-3-8
              Max Horz 1=-201(LC 10)
              Max Uplift 1=-40(LC 12), 7=-40(LC 13)
              Max Grav 1=998(LC 19), 7=998(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-1389/206, 2-3=-905/286, 3-4=-83/401, 4-5=-83/401, 5-6=-906/286, 6-7=-1393/207
BOT CHORD   1-10=-32/982, 8-10=-32/982, 7-8=-32/982
WEBS   6-8=0/517, 2-10=0/514, 3-5=-1389/439

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 10-10-0, Exterior(2) 10-10-0 to 15-5-12, Interior(1) 15-5-12 to 21-6-4 zone;C-C
   for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
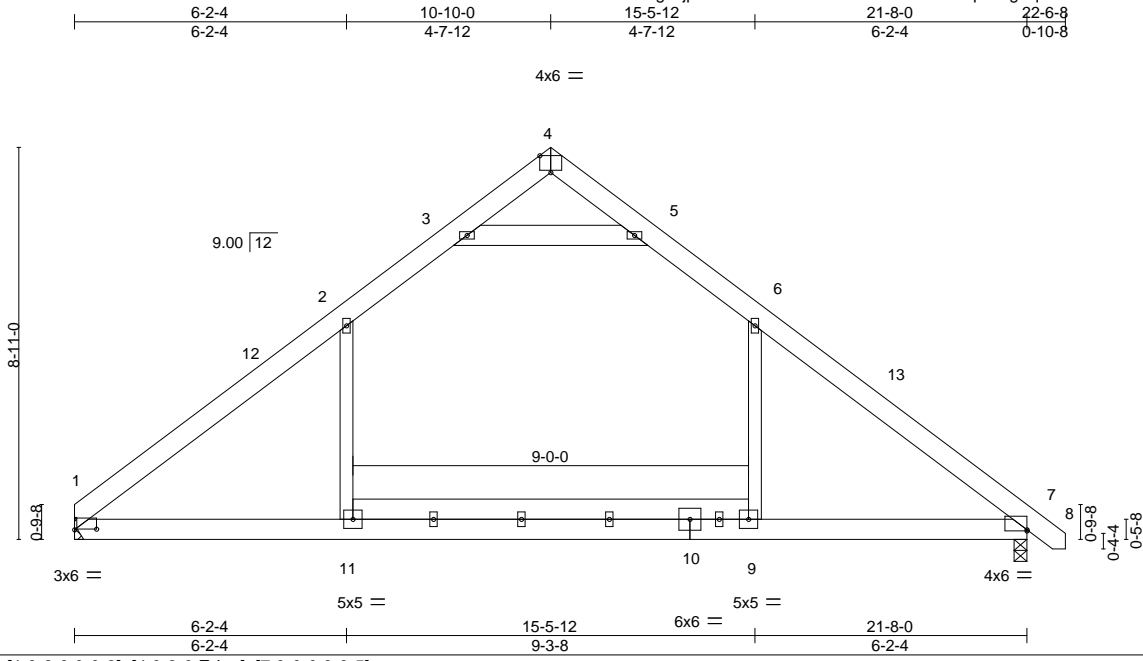
February 7,2024

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	E4	COMMON	5	1		I63472318
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:36 2024 Page 1
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Scale = 1:52.4

Plate Offsets (X,Y)--   [1:0-6-0,0-0-3], [4:0-3-0,Edge], [7:0-0-0,0-0-5]

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	0.56	Vert(LL)	-0.22	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.32	9-11	>795	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	11	>999	240	Weight: 163 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-9-13 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=Mechanical, 7=0-3-8
               Max Horz 1=-206(LC 10)
               Max Uplift 1=-40(LC 12), 7=-52(LC 13)
               Max Grav 1=997(LC 19), 7=1048(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-1386/205, 2-3=-905/285, 3-4=-76/396, 4-5=-82/396, 5-6=-904/280, 6-7=-1398/207
BOT CHORD   1-11=-23/984, 9-11=-23/984, 7-9=-23/984
WEBS   6-9=0/527, 2-11=0/512, 3-5=-1382/435

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 10-10-0, Exterior(2) 10-10-0 to 15-5-12, Interior(1) 15-5-12 to 22-4-12
   zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.

(Seal: NORTH CAROLINA PROFESSIONAL ENGINEER, SEAL 036322, ERIC A. GILBERT)

February 7,2024

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	E4GE	GABLE	1	1		I63472319
					Job Reference (optional)	

10-10-0 | 21-8-0 | 22-6-8
10-10-0 | 10-10-0 | 0-10-8
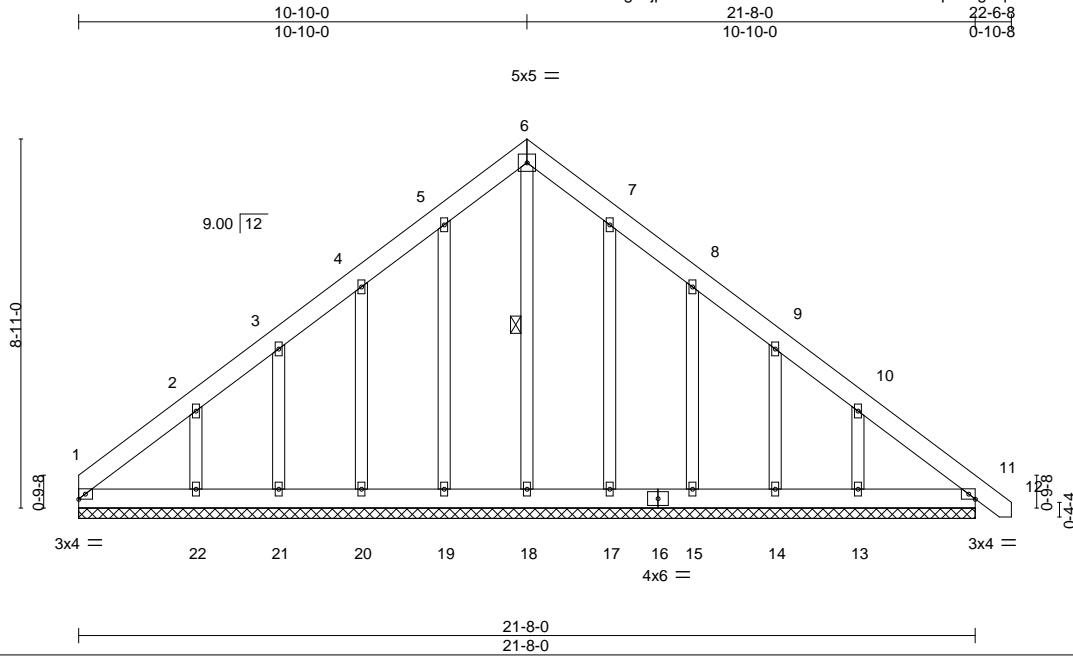
Scale = 1:55.7

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	0.04	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 180 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   6-18

REACTIONS.   All bearings 21-8-0.
(lb) - Max Horz 1=-257(LC 8)
        Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 19, 21, 17, 14 except 20=-110(LC 12), 22=-168(LC 12),
                    15=-112(LC 13), 13=-159(LC 13)
        Max Grav All reactions 250 lb or less at joint(s) 1, 11, 18, 19, 20, 21, 17, 15, 14 except 22=270(LC 19),
                    13=257(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-265/198

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Corner(3) 0-0-0 to 4-4-13, Exterior(2) 4-4-13 to 10-10-0, Corner(3) 10-10-0 to 15-2-13, Exterior(2) 15-2-13
   to 22-4-12 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) 1, 11, 19, 21, 17,
   14 except (jt=lb) 20=110, 22=168, 15=112, 13=159.

NORTH CAROLINA
PROFESSIONAL
SEAL
036322
ERIC A. GILBERT
ENGINEER

February 7,2024

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	E5	ROOF SPECIAL	6	1		I63472320
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:39 2024 Page 1
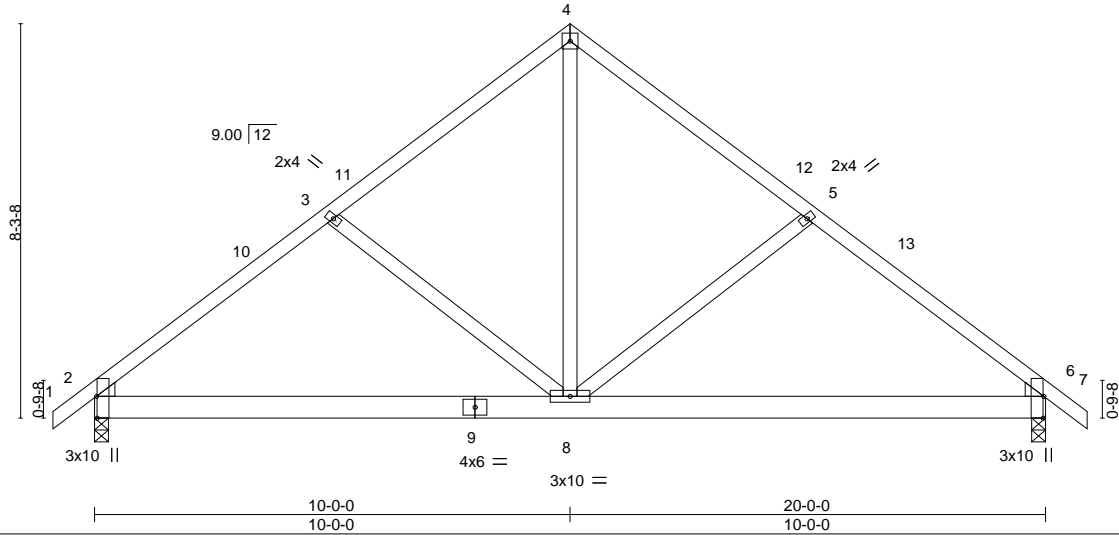ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5x5 =

Scale = 1:57.1

9.00 ⌐12
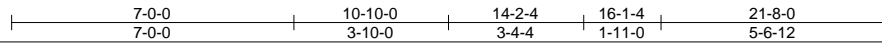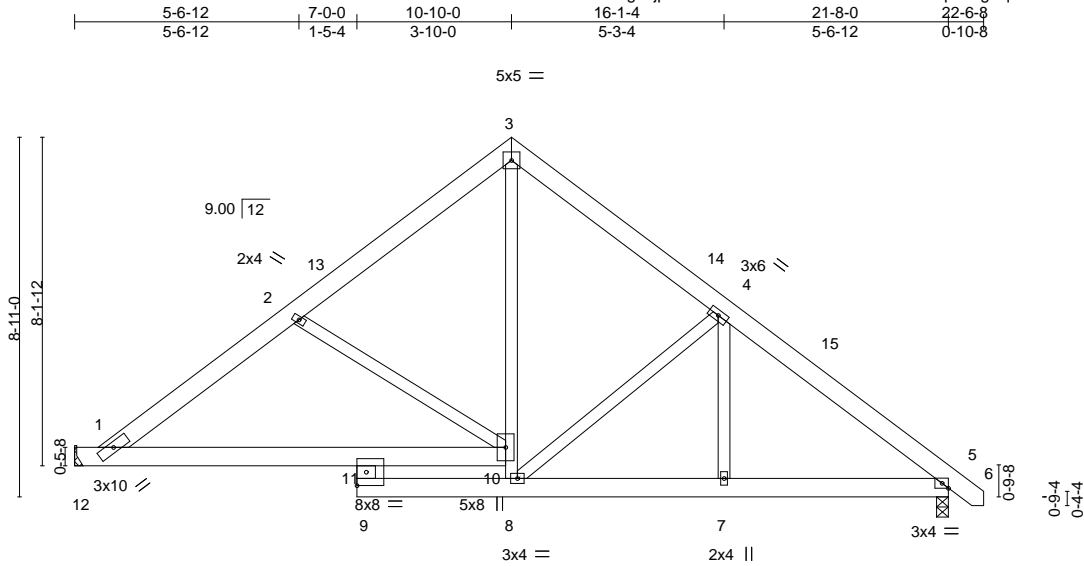
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.11	1-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.27	1-11	>967	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	1-11	>999	240	Weight: 161 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 or 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
                 6-0-0 oc bracing: 9-11.

REACTIONS.   (size)   12=Mechanical, 5=0-3-8
            Max Horz 12=-205(LC 8)
            Max Uplift 12=-32(LC 12), 5=-57(LC 13)
            Max Grav 12=823(LC 1), 5=910(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-1147/322, 2-3=-863/277, 3-4=-852/275, 4-5=-1136/248
BOT CHORD   1-11=-140/956, 10-11=-188/474, 8-9=0/503, 7-8=-87/809, 5-7=-87/809
WEBS   8-10=-43/477, 3-10=-167/723, 4-8=-403/196, 2-10=-468/243

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
    and C-C Exterior(2) 0-7-14 to 5-4-4, Interior(1) 5-4-4 to 10-10-0, Exterior(2) 10-10-0 to 15-2-13, Interior(1) 15-2-13 to 22-4-12
    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.
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) 12, 5.

February 7,2024

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Edenton, NC 27932

Plate Offsets (X,Y)--	[2:0-5-8,Edge], [6:0-5-8,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	0.41	Vert(LL)	-0.05	2-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	2-8	>999	240	Weight: 118 lb	FT = 25%

LUMBER-
TOP CHORD 2x4 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 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=196(LC 11)
Max Uplift 6=-116(LC 8), 2=-71(LC 8)
Max Grav 6=850(LC 1), 2=850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-992/783, 3-4=-759/779, 4-5=-759/779, 5-6=-992/783
BOT CHORD   2-8=-500/696, 6-8=-507/696
WEBS   3-8=-309/203, 4-8=-780/554, 5-8=-309/203

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-10-8 zone; porch left 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) 2 except (jt=lb) 6=116.

February 7,2024

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

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	G1GE	GABLE	1	1		I63472322
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:42 2024 Page 1
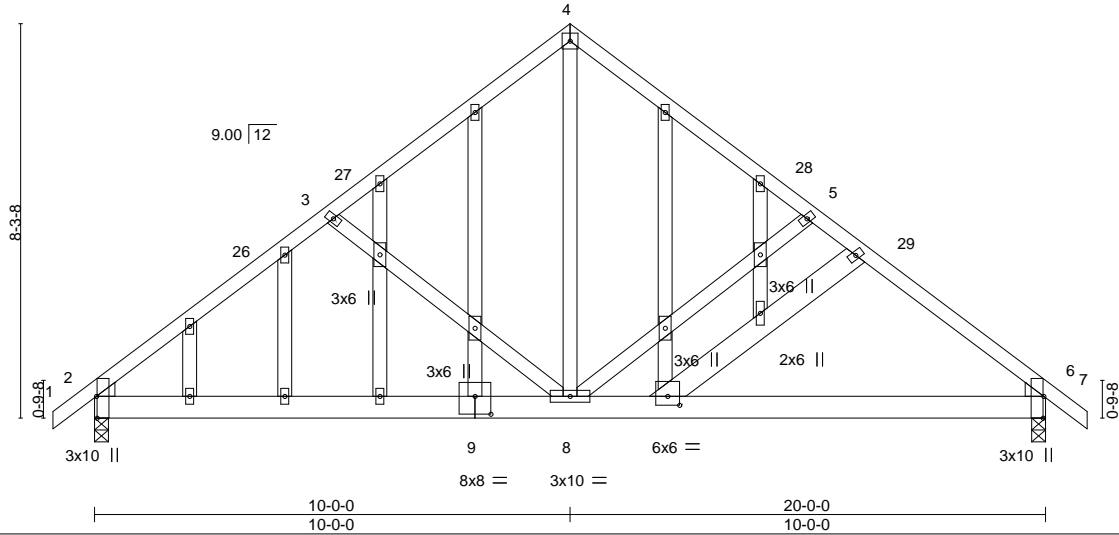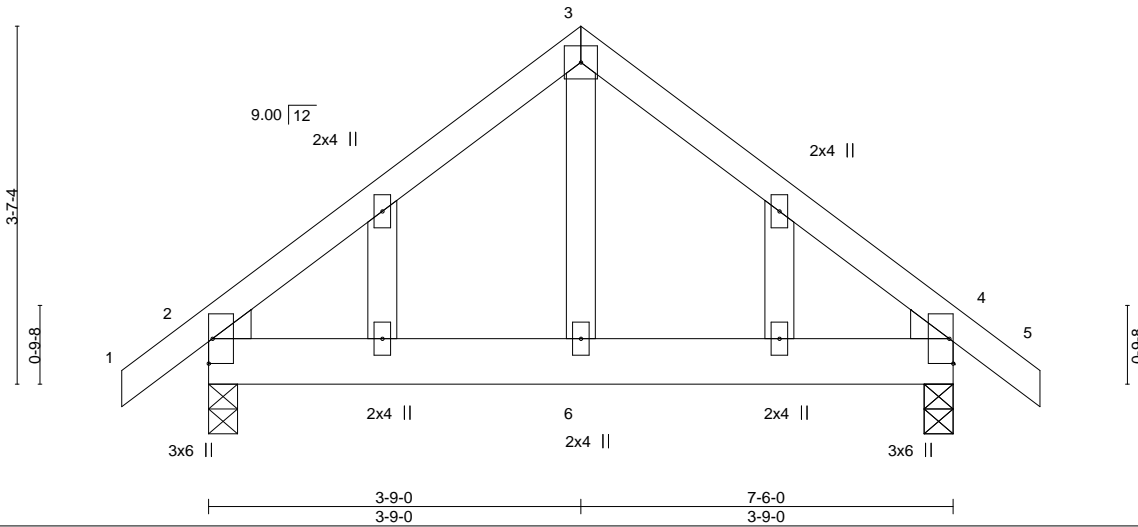ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale: 1/4"=1'

Plate Offsets (X,Y)-- [2:0-5-8,Edge], [6:0-5-8,Edge], [9:0-4-0,0-4-8], [10:0-3-0,0-2-4]

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	0.24	Vert(LL)	-0.05	2-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	2-8	>999	240	Weight: 166 lb	FT = 25%

LUMBER-
TOP CHORD   2x4 SP No.1
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.2 *Except*
            10-11: 2x6 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.   (size)   6=0-3-8, 2=0-3-8
              Max Horz 2=-244(LC 10)
              Max Uplift 6=-172(LC 13), 2=-172(LC 12)
              Max Grav 6=850(LC 1), 2=850(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-992/249, 3-4=-779/242, 4-5=-779/242, 5-6=-992/249
BOT CHORD   2-8=-210/776, 6-8=-89/696
WEBS   3-8=-307/271, 4-8=-129/636, 5-8=-307/271

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to
   20-10-8 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
   6=172, 2=172.
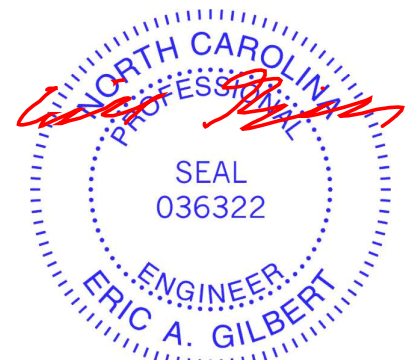
February 7,2024

ENGINEERING BY
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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	H1GE	GABLE	1	1		I63472323
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:43 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 | 3-9-0 | 7-6-0 | 8-4-8
0-10-8 | 3-9-0 | 3-9-0 | 0-10-8

4x4

Scale = 1:23.2

9.00 ⟌12

3-7-4

0-9-8

2x4 ‖   2x4 ‖

2x4 ‖   2x4 ‖   2x4 ‖

2x4 ‖

3x6 ‖   3x6 ‖

0-9-8

3-9-0 | 7-6-0
3-9-0 | 3-9-0

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	6	>999	240	Weight: 45 lb	FT = 25%

LUMBER-
TOP CHORD   2x4 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 , 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.   (size)   2=0-3-8, 4=0-3-8, 4=0-3-8
                    Max Horz 2=-104(LC 10)
                    Max Uplift 2=-80(LC 12), 4=-80(LC 13)
                    Max Grav 2=350(LC 1), 4=350(LC 1), 4=350(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-289/273, 3-4=-289/273

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   gable end zone 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
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) 2, 4.

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL
036322
ERIC A. GILBERT

February 7,2024

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

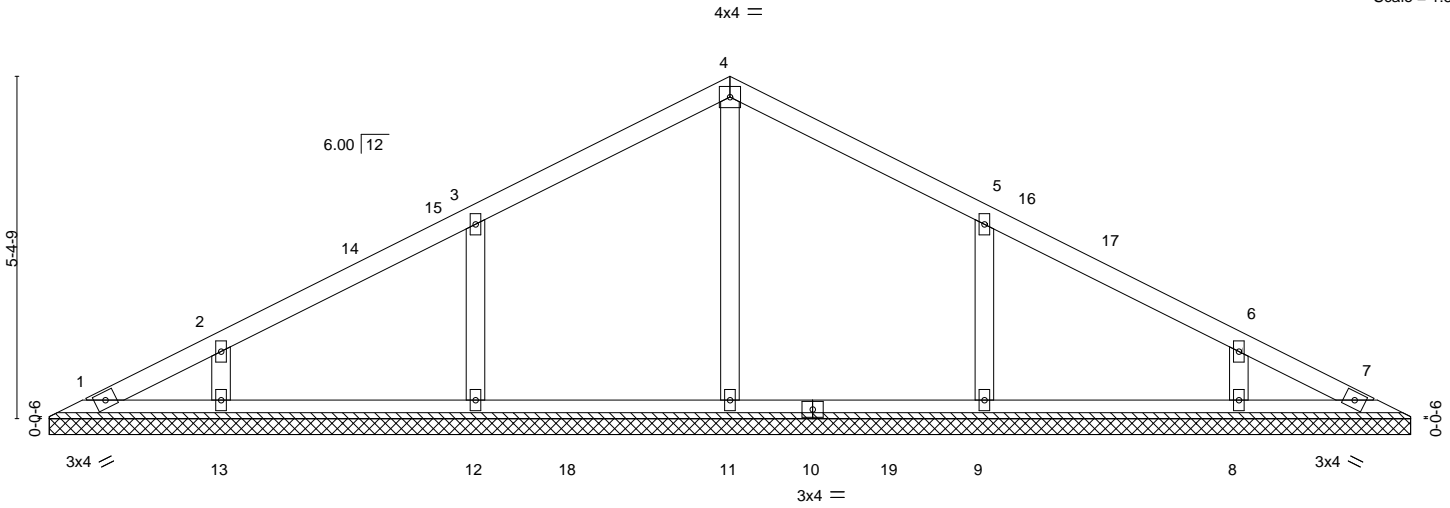| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VC1	VALLEY	1	1		I63472324
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,   8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:44 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

13-9-3   27-6-5
13-9-3   13-9-2
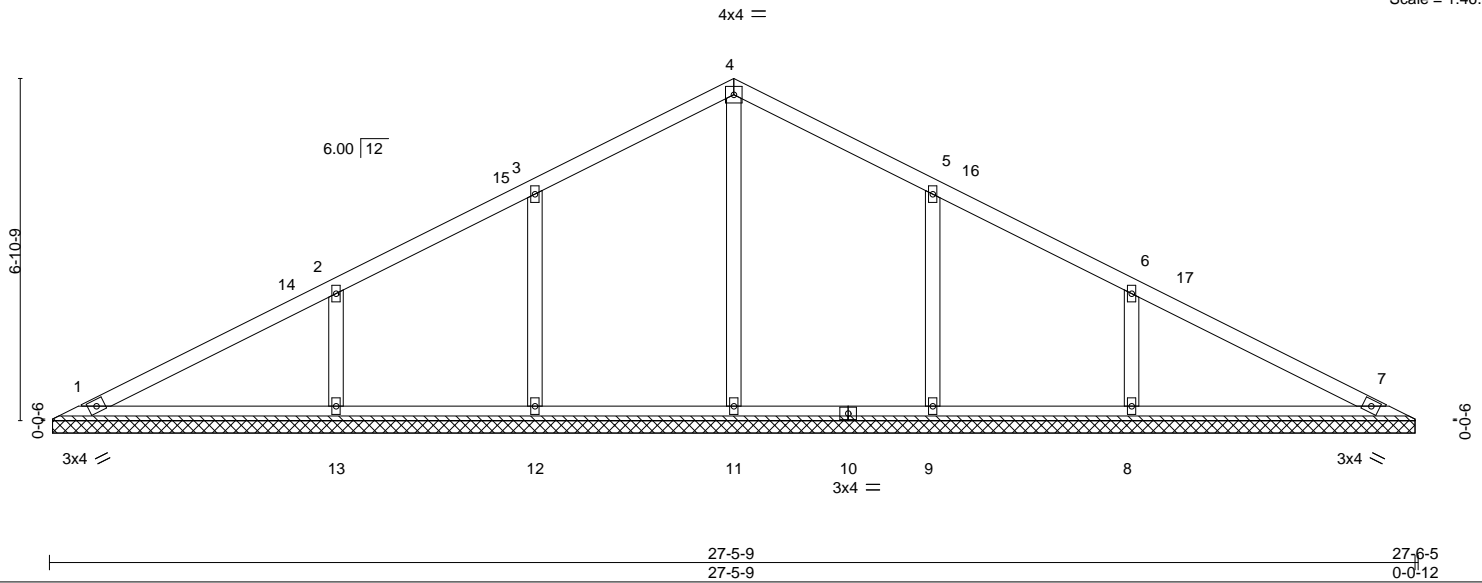
Scale = 1:46.3

27-5-9   27-6-5
27-5-9   0-0-12

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 114 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.   All bearings 27-4-13.
     (lb) -   Max Horz   1=-86(LC 8)
           Max Uplift   All uplift 100 lb or less at joint(s) 1, 12, 13, 9, 8
           Max Grav   All reactions 250 lb or less at joint(s) 1, 7 except 11=471(LC 19), 12=358(LC 19), 13=429(LC 1),
                 9=358(LC 20), 8=429(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-13=-311/220, 6-8=-311/220

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
    and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 13-9-3, Exterior(2) 13-9-3 to 18-1-15, Interior(1) 18-1-15 to 26-10-8
    zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 9, 8.

February 7,2024

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

Scale = 1:36.2

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 83 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.   All bearings 21-4-13.
        (lb) - Max Horz 1=-66(LC 8)
                Max Uplift   All uplift 100 lb or less at joint(s) 1, 12, 13, 9, 8
                Max Grav   All reactions 250 lb or less at joint(s) 1, 7 except 11=422(LC 19), 12=350(LC 23), 13=271(LC 1),
                              9=350(LC 24), 8=271(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   3-12=-268/201, 5-9=-268/201

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 10-9-3, Exterior(2) 10-9-3 to 15-1-15, Interior(1) 15-1-15 to 20-10-8
   zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 9, 8.

February 7,2024

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VC3	VALLEY	1	1		I63472326
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:47 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:26.2

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	0.14	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	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 55 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.   All bearings 15-4-13.
       (lb) - Max Horz 1=-47(LC 8)
               Max Uplift   All uplift 100 lb or less at joint(s) 1, 8, 6
               Max Grav   All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 1), 8=337(LC 23), 6=337(LC 24)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-255/201, 4-6=-255/201

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-9-3, Exterior(2) 7-9-3 to 12-1-15, Interior(1) 12-1-15 to 14-10-8 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, 8, 6.
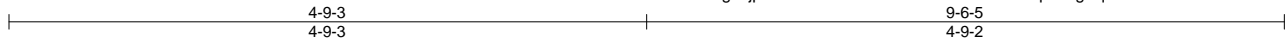
February 7,2024

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Edenton, NC 27932

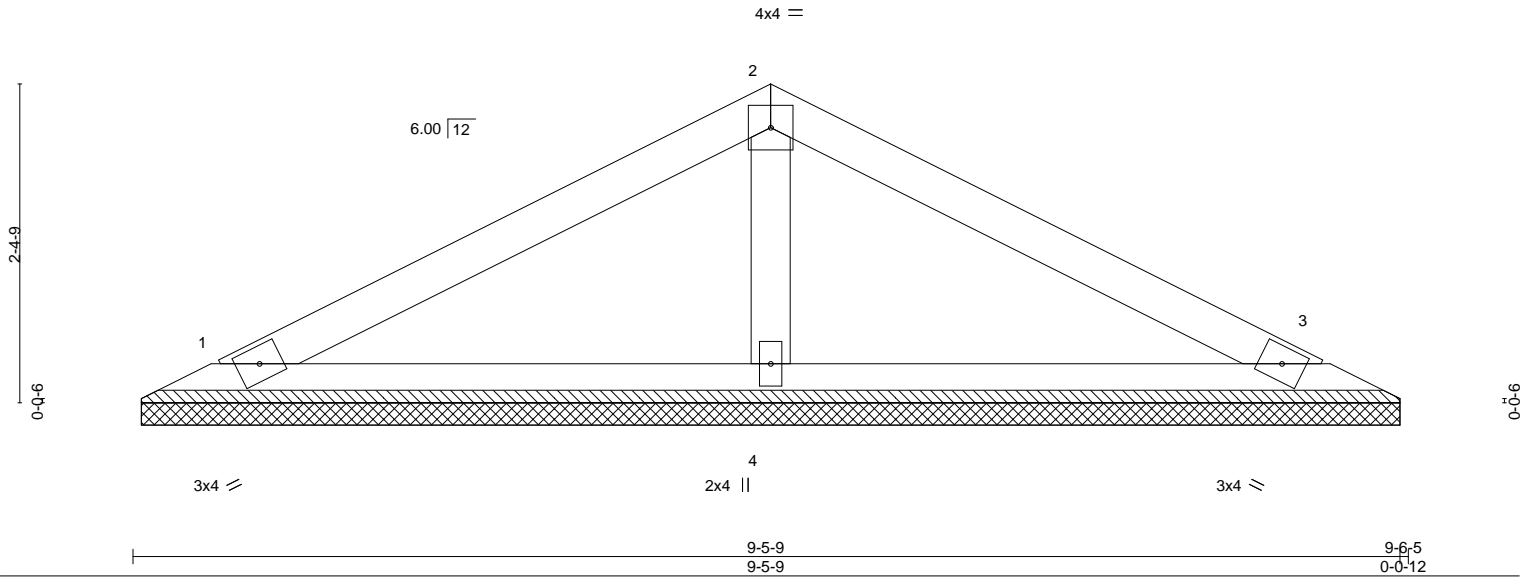| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VC4	VALLEY	1	1		I63472327
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:48 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

	4-9-3		9-6-5	
	4-9-3		4-9-2	

Scale = 1:17.2

4x4 =

6.00 ⌐12

2-4-9

0-0-6

3x4 ⫽   2x4 ‖   3x4 ⟋

	9-5-9		9-6-5
	9-5-9		0-0-12

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	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-S							Weight: 30 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=9-4-13, 3=9-4-13, 4=9-4-13
            Max Horz 1=-27(LC 10)
            Max Uplift 1=-20(LC 12), 3=-25(LC 13)
            Max Grav 1=152(LC 23), 3=152(LC 24), 4=356(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

February 7,2024

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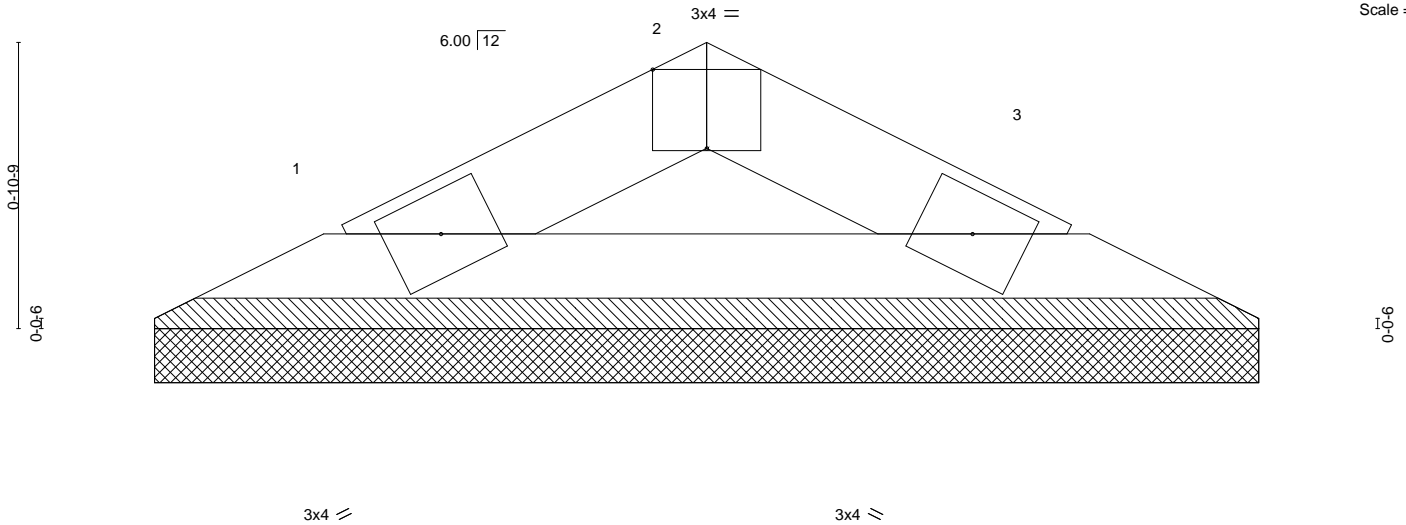
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VC5	VALLEY	1	1		I63472328
					Job Reference (optional)	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:50 2024 Page 1
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Scale = 1:7.1

6.00 ⌐12

3x4 ═

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
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							Weight: 9 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-6-5 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=3-4-13, 3=3-4-13
              Max Horz 1=-7(LC 8)
              Max Uplift 1=-5(LC 12), 3=-5(LC 13)
              Max Grav 1=89(LC 1), 3=89(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
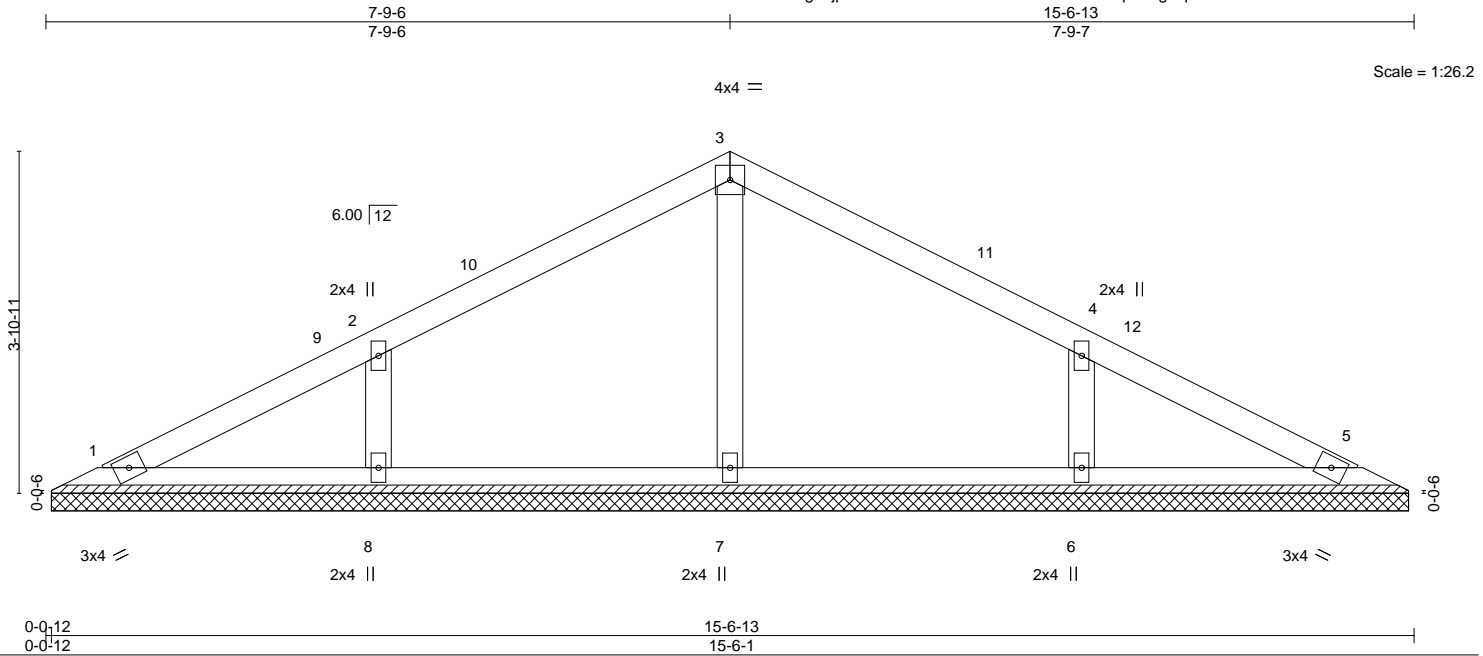
February 7,2024

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Edenton, NC 27932

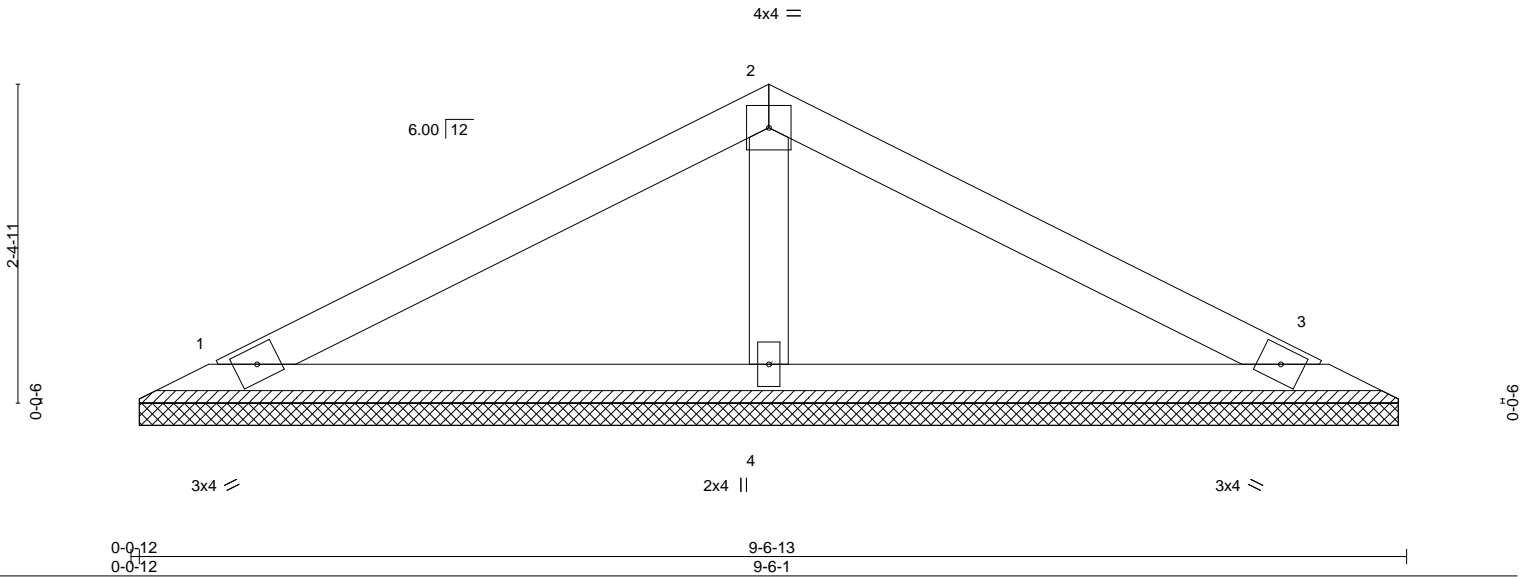| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	I63472329
J0124-0300	VD1	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:51 2024 Page 1
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7-9-6 | 15-6-13
7-9-6 | 7-9-7

Scale = 1:26.2

4x4

6.00 |12

3-10-11

0-0-6

3x4   3x4

8   7   6
2x4   2x4   2x4

0-0-12   15-6-13
0-0-12   15-6-1

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	0.14	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	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 56 lb	FT = 25%

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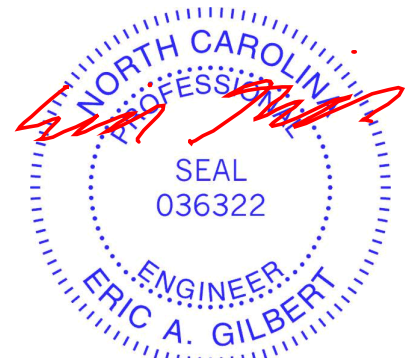BOT CHORD   2x4 SP No.1
OTHERS   2x4 SP No.2

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.   All bearings 15-5-5.
         (lb) - Max Horz 1=47(LC 11)
                Max Uplift   All uplift 100 lb or less at joint(s) 1, 8, 6
                Max Grav   All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 1), 8=338(LC 23), 6=338(LC 24)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-256/201, 4-6=-256/201

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-9-6, Exterior(2) 7-9-6 to 12-2-3, Interior(1) 12-2-3 to 14-11-0 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, 8, 6.

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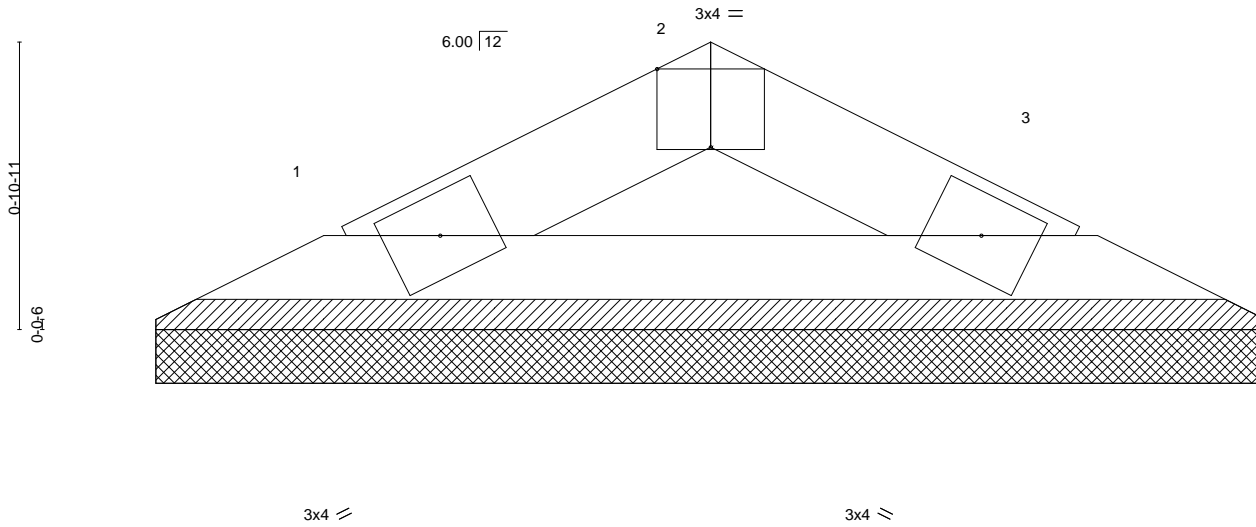| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	I63472330
J0124-0300	VD2	VALLEY	1	1		
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:53 2024 Page 1
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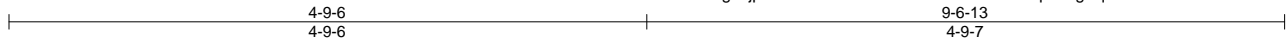
Scale = 1:17.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	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-S							Weight: 30 lb	FT = 25%

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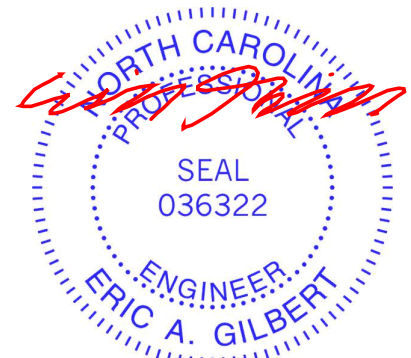BOT CHORD   2x4 SP No.1
OTHERS   2x4 SP No.2

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=9-5-5, 3=9-5-5, 4=9-5-5
              Max Horz 1=27(LC 9)
              Max Uplift 1=-20(LC 12), 3=-25(LC 13)
              Max Grav 1=153(LC 23), 3=153(LC 24), 4=358(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

February 7,2024

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1-9-6 | 3-6-13
1-9-6 | 1-9-7

Scale = 1:7.1

6.00 ⟍12

3x4 ═

0-10-11
0-0-9

3x4 ⫽   3x4 ⟍

0-0-12 | 3-6-13
0-0-12 | 3-6-1

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
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							Weight: 9 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-6-13 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=3-5-5, 3=3-5-5
Max Horz 1=-8(LC 10)
Max Uplift 1=-5(LC 12), 3=-5(LC 13)
Max Grav 1=90(LC 1), 3=90(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

February 7,2024

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818 Soundside Road
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:55 2024 Page 1
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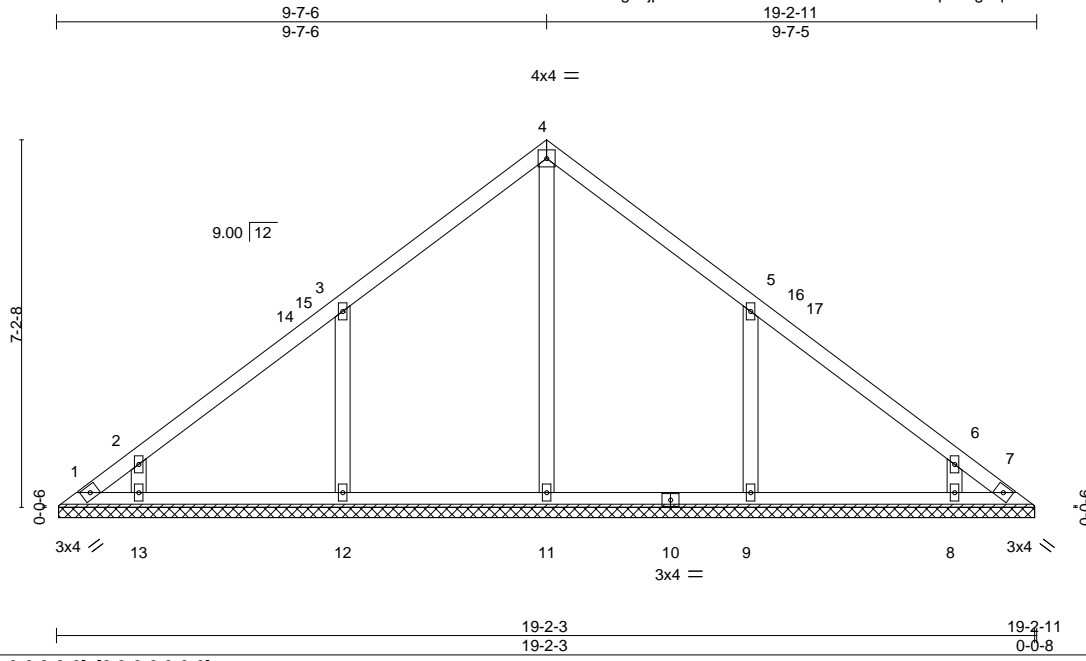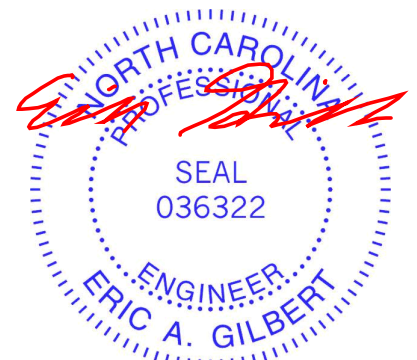

Scale = 1:45.2

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

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 85 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.   All bearings 19-1-11.
       (lb) - Max Horz 1=-165(LC 8)
               Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-122(LC 12), 9=-122(LC 13)
               Max Grav   All reactions 250 lb or less at joint(s) 1, 7 except 11=437(LC 22), 12=468(LC 19), 13=266(LC 19),
                   9=468(LC 20), 8=266(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   3-12=-336/230, 2-13=-259/200, 5-9=-337/230, 6-8=-259/200

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 9-7-6, Exterior(2) 9-7-6 to 14-0-2, Interior(1) 14-0-2 to 18-9-6 zone;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except
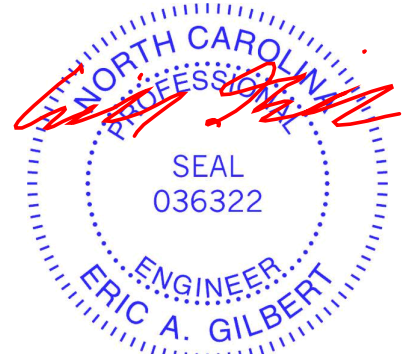   (jt=lb) 12=122, 9=122.

February 7,2024

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VG2	VALLEY	1	1		I63472333
					Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:57 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
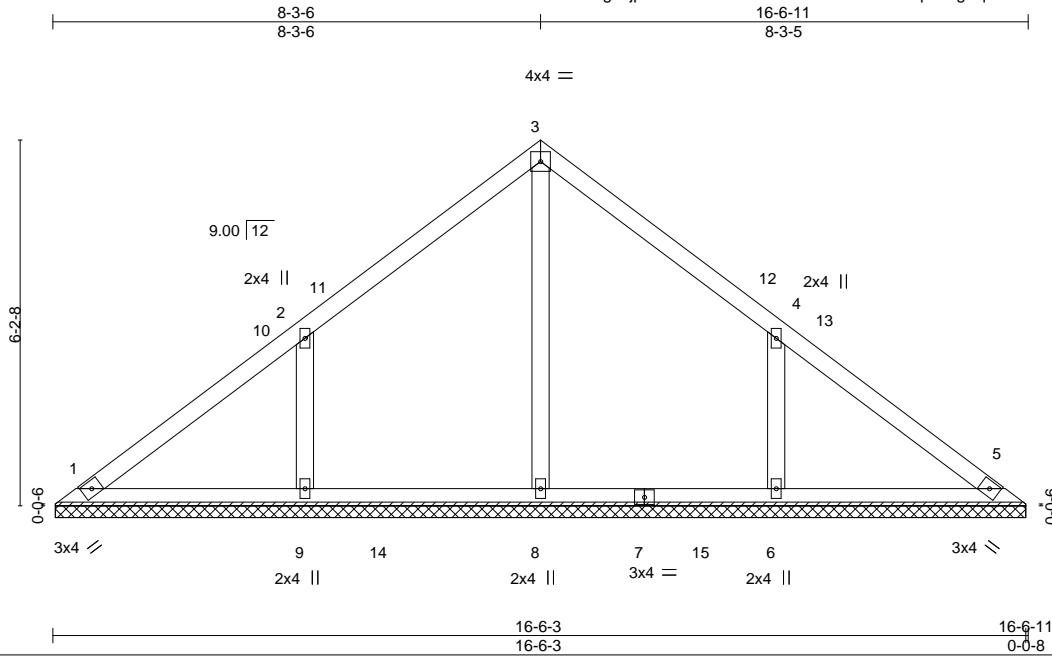
Scale = 1:39.1

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

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 70 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.   All bearings 16-5-11.
   (lb) - Max Horz 1=-141(LC 10)
      Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-130(LC 12), 6=-130(LC 13)
      Max Grav   All reactions 250 lb or less at joint(s) 1, 5 except 8=409(LC 19), 9=439(LC 19), 6=439(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-9=-352/238, 4-6=-352/238

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 8-3-6, Exterior(2) 8-3-6 to 12-8-2, Interior(1) 12-8-2 to 16-1-6 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb)
   9=130, 6=130.

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Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VG3	VALLEY	1	1		I63472334
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:36:58 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
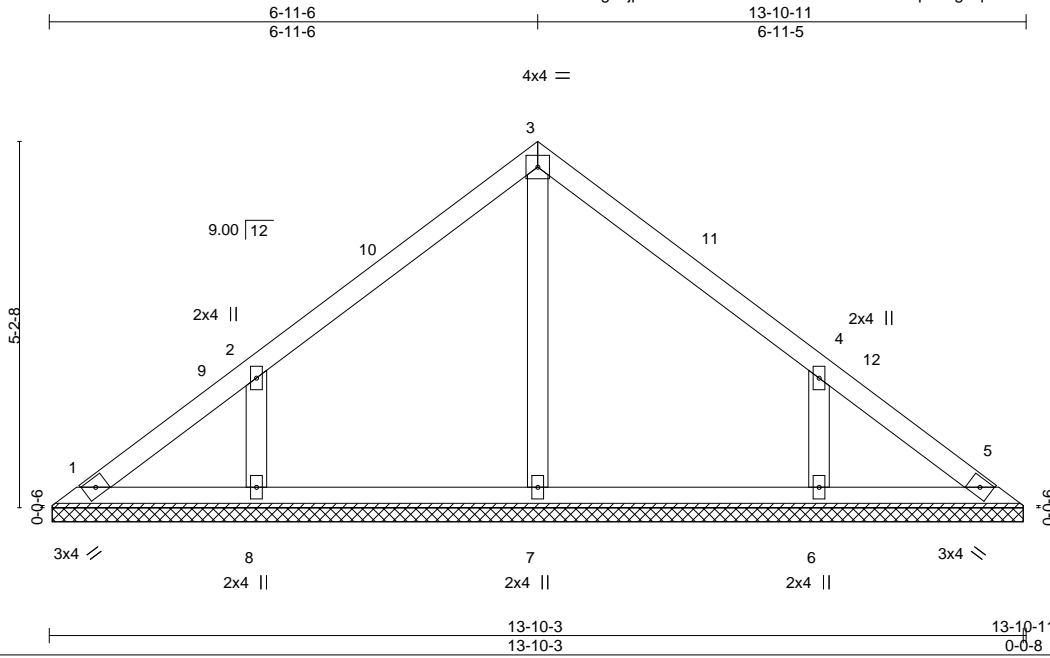
Scale = 1:32.8

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

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	0.13	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	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 56 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.   All bearings 13-9-11.
       (lb) - Max Horz 1=-117(LC 10)
               Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-111(LC 12), 6=-111(LC 13)
               Max Grav   All reactions 250 lb or less at joint(s) 1, 5 except 7=250(LC 1), 8=338(LC 19), 6=338(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-303/218, 4-6=-303/218

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-11-6, Exterior(2) 6-11-6 to 11-4-2, Interior(1) 11-4-2 to 13-5-6 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=111, 6=111.

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Comtech, Inc,   Fayetteville, NC - 28314,

5-7-6 / 11-2-11
5-7-6 / 5-7-5

4x4 ═

Scale = 1:26.9

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

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	0.13	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	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 43 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.   All bearings 11-1-11.
    (lb) - Max Horz 1=-93(LC 8)
            Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-112(LC 12), 6=-112(LC 13)
            Max Grav   All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 1), 8=329(LC 19), 6=329(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-311/240, 4-6=-311/240

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-7-6, Exterior(2) 5-7-6 to 10-0-2, Interior(1) 10-0-2 to 10-9-6 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 except (jt=lb)
   8=112, 6=112.
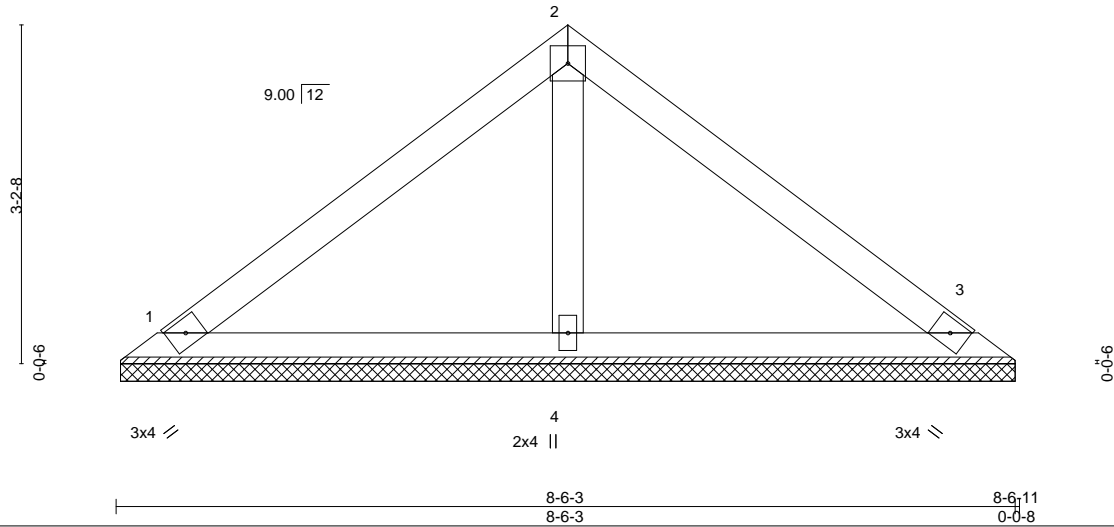
Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:37:00 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	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: 31 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=8-5-11, 3=8-5-11, 4=8-5-11
                    Max Horz 1=-69(LC 10)
                    Max Uplift 1=-27(LC 12), 3=-33(LC 13)
                    Max Grav 1=172(LC 1), 3=172(LC 1), 4=269(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

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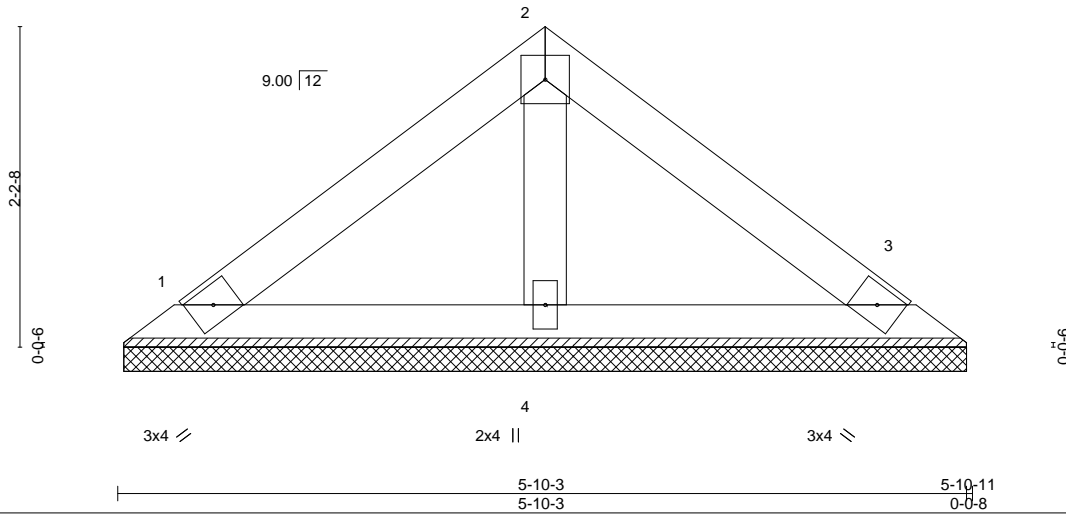| Job	Truss	Truss Type	Qty	Ply	Weaver Homes/38 West Preserve/Harnett	
J0124-0300	VG6	VALLEY	1	1		I63472337
					Job Reference (optional)	

Comtech, Inc,   Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 6 12:37:01 2024 Page 1
ID:sE6vKHgz7jp0i0cmNOmWm0zovJ2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-11-6 / 2-11-6
5-10-11 / 2-11-5

Scale: 3/4"=1'

4x4

2

9.00 | 12

2-2-8

0-0-6

1

3

3x4 //

2x4 ||

3x4 \\

4

0-0-6

5-10-3 / 5-10-3
5-10-11 / 0-0-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	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: 20 lb	FT = 25%

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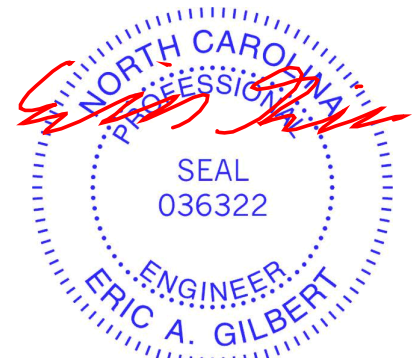BOT CHORD   2x4 SP No.1
OTHERS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-10-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.   (size)   1=5-9-11, 3=5-9-11, 4=5-9-11
                Max Horz   1=-45(LC 10)
                Max Uplift 1=-17(LC 12), 3=-22(LC 13)
                Max Grav   1=112(LC 1), 3=112(LC 1), 4=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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

February 7,2024

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Scale = 1:8.8

3x4 ∥

3x4 ⟍

3-2-3
3-2-3

3-2-11
0-0-8

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
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							Weight: 9 lb	FT = 25%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-2-11 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.　　(size)　1=3-1-11, 3=3-1-11
Max Horz 1=21(LC 9)
Max Uplift 1=-5(LC 12), 3=-5(LC 13)
Max Grav 1=94(LC 1), 3=94(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)
   and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

February 7,2024

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Symbols

PLATE LOCATION AND ORIENTATION

½L
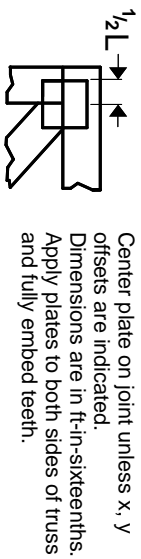
0-¹⁄₁₆"

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.
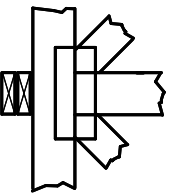
PLATE SIZE

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.
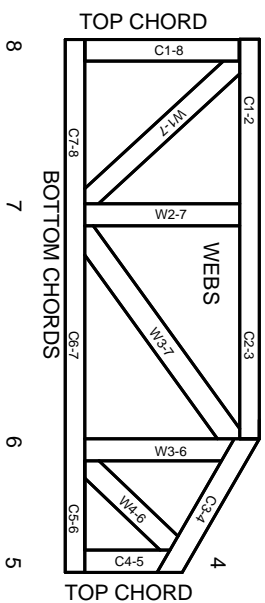
Industry Standards:

ANSI/TPI1: 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.

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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Numbering System

6-4-8

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

3 Joint ID
typ.

TOP CHORD

1   2   TOP CHORDS

C1-8

C1-2

W1-7

C7-8

W2-7

BOTTOM CHORDS

WEBS

C2-3

W3-7

C6-7

C3-4

W3-6

W4-6

C5-6

C4-5

TOP CHORD

8   7   6   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-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/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.