

RE: J0422-2019  
 Cav&Cates/Lot 52 Anderson Creek

Trenco  
 818 Soundside Rd  
 Edenton, NC 27932

**Site Information:**

Customer: Project Name: J0422-2019  
 Lot/Block: Model:  
 Address: Subdivision:  
 City: State:

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

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

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I50280782	A1	2/17/2022
2	I50280783	A1A	2/17/2022
3	I50280784	A1GE	2/17/2022
4	I50280785	A2	2/17/2022
5	I50280786	A2GE	2/17/2022
6	I50280787	B1	2/17/2022
7	I50280788	B1GE	2/17/2022
8	I50280789	C1GE	2/17/2022
9	I50280790	C2	2/17/2022
10	I50280791	C3	2/17/2022
11	I50280792	M1	2/17/2022
12	I50280793	M1GE	2/17/2022
13	I50280794	P1	2/17/2022
14	I50280795	P1GE	2/17/2022
15	I50280796	VA1	2/17/2022
16	I50280797	VA2	2/17/2022
17	I50280798	VA3	2/17/2022
18	I50280799	VA4	2/17/2022
19	I50280800	VA5	2/17/2022

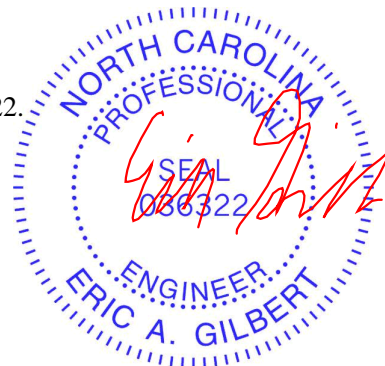
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

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



February 17, 2022

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280782
J0422-2019	A1	ATTIC	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GgvDyT5OZph6hXecf6KEBMzp9rw-0X3Fk1af5WdaeuJfmVF\_P4N3ybrFlylIf3R50zkXZQ

0-11-0 7-2-12 9-5-6 13-11-8 18-5-10 20-8-4 27-11-0 28-10-0  
0-11-0 7-2-12 2-2-10 4-6-2 4-6-2 2-2-10 7-2-12 0-11-0

6x8 =

Scale = 1:83.9

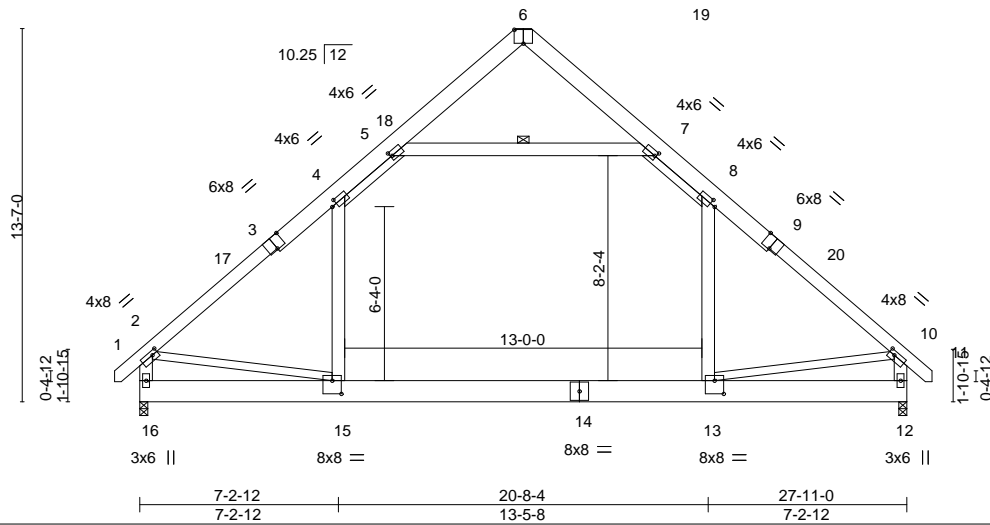


Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [3:0-4-0,Edge], [4:0-2-6,0-2-0], [5:0-0-12,0-2-0], [6:0-4-0,Edge], [7:0-0-12,0-2-0], [8:0-2-6,0-2-0], [9:0-4-0,Edge], [10:0-2-8,0-1-12], [13:0-4-0,0-5-12], [15:0-4-0,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.22	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.36	13-15	>913	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	15	>999	240		
							Weight: 306 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.1 \*Except\*  
1-3,9-11: 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
4-5,7-8,2-15,10-13: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.  
WEBS 1 Row at midpt 5-7

**REACTIONS.**

(size) 16=0-3-8, 12=0-3-8  
Max Horz 16=-346(LC 10)  
Max Grav 16=1798(LC 20), 12=1798(LC 21)

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

TOP CHORD 2-4=-2224/0, 4-5=-1481/142, 7-8=-1481/142, 8-10=-2224/0, 2-16=-1890/48, 10-12=-1891/49  
BOT CHORD 15-16=-375/648, 13-15=0/1595, 12-13=-110/414  
WEBS 5-7=-1600/131, 4-15=0/832, 8-13=0/832, 2-15=0/1372, 10-13=0/1380

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 14-0-0, Exterior(2) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 28-9-1 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



February 17, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



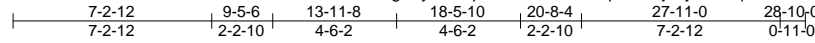
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280783
J0422-2019	A1A	ATTIC	3	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GgvDyT5OZph6hXecf6KEBMz9rw-UjddyNbHsqIRG1urKdMdxHvD7\_BSUPUSuJo?dSzkXZP



6x8 =

Scale = 1:83.9

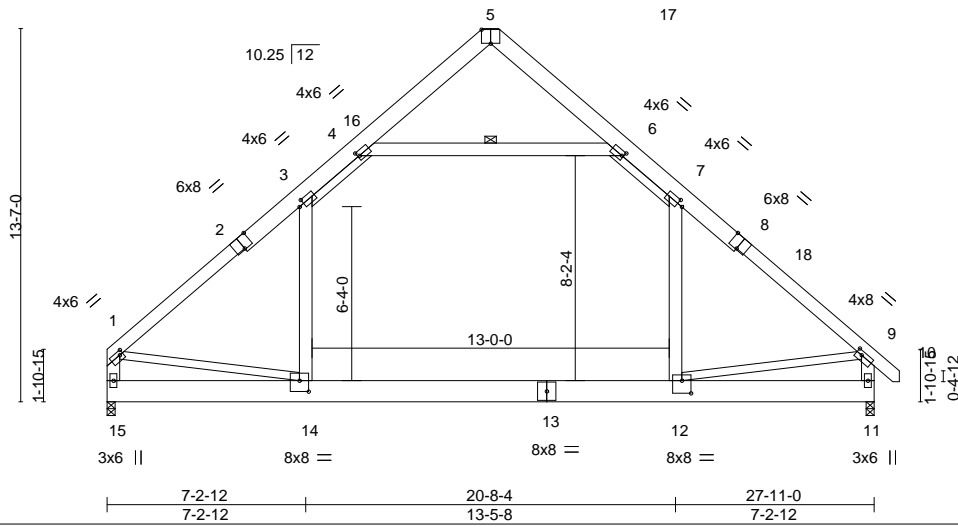


Plate Offsets (X,Y)-- [1:0-1-8,0-1-12], [2:0-4-0,Edge], [3:0-2-6,0-2-0], [4:0-0-12,0-2-0], [5:0-4-0,Edge], [6:0-0-12,0-2-0], [7:0-2-6,0-2-0], [8:0-4-0,Edge], [9:0-2-8,0-1-12], [12:0-4-0,0-5-8], [14:0-4-0,0-4-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.22	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.36	12-14	>904		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	14	>999		
								Weight: 303 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.1 \*Except\*  
1-2,8-10: 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
3-4,6-7,1-14,9-12: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.  
WEBS 1 Row at midpt 4-6

**REACTIONS.**

(size) 15=0-3-8, 11=0-3-8  
Max Horz 15=-339(LC 8)  
Max Grav 15=1740(LC 20), 11=1799(LC 21)

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

TOP CHORD 1-3=-2213/0, 3-4=-1487/148, 6-7=-1482/141, 7-9=-2231/0, 1-15=-1846/0, 9-11=-1898/49  
BOT CHORD 14-15=-347/528, 12-14=0/1600, 11-12=-109/411  
WEBS 4-6=-1620/144, 3-14=0/807, 7-12=0/838, 1-14=0/1456, 9-12=0/1389

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 14-0-0, Exterior(2) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 28-9-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Attic room checked for L/360 deflection.



February 17, 2022

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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280784
J0422-2019	A1GE	GABLE	1	1	Job Reference (optional)	

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ID:GvDyT5OZph6hXecf6KEBmzp9rw-ywB09jcvd8ttBT2uwHSUVSTYQghDxRb6zYYAvzkXZO

0-11-0 7-2-12 9-5-6 12-0-1 15-10-15 18-5-10 20-8-4 27-11-0 28-10-0  
0-11-0 7-2-12 2-2-10 2-6-11 3-10-13 2-6-11 2-2-10 7-2-12 0-11-0

Scale = 1:72.7

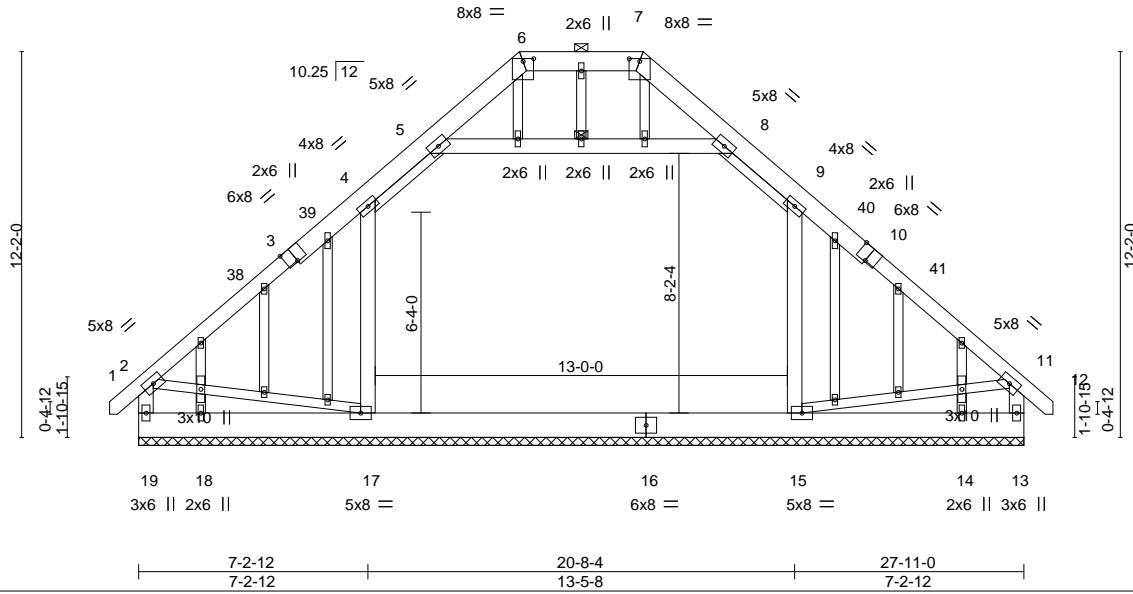


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [6:0-4-0,0-1-0], [7:0-4-0,0-1-0], [10:0-4-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) 0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) 0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.00	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 344 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.1 \*Except\*  
1-3,10-12: 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
4-5,8-9,2-17,11-15: 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-8

**REACTIONS.**

All bearings 27-11-0.  
(lb) - Max Horz 19=-390(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 19, 13 except 17=-257(LC 12), 15=-249(LC 13), 18=-277(LC 18), 14=-277(LC 18)  
Max Grav All reactions 250 lb or less at joint(s) 18 except 19=651(LC 21), 17=1236(LC 20), 15=1222(LC 21), 13=627(LC 20)

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

TOP CHORD 2-4=-532/136, 4-5=-572/153, 5-6=-392/150, 7-8=-392/151, 8-9=-572/151, 9-11=-524/111, 2-19=-525/60, 11-13=-525/57, 6-7=-277/134  
BOT CHORD 18-19=-363/421, 17-18=-363/421, 15-17=-95/387  
WEBS 4-17=-681/318, 9-15=-667/310, 2-17=-182/434, 11-15=-183/435

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) 0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-1-15, Exterior(2) 12-1-15 to 22-0-12, Interior(1) 22-0-12 to 28-9-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s). 4-17, 9-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 13 except (jt=lb) 17=257, 15=249, 18=277, 14=277.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 17, 2022

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280785
J0422-2019	A2	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GgvDyT5OZph6hXecf6KEBMzp9rw-Q6lOM3cXOR?9VL2EReph1i?cDowzyOclLdI6lLzKXZN

0-11-0 7-2-12 9-5-6 13-11-8 18-5-10 20-8-4 27-11-0 28-10-0  
0-11-0 7-2-12 2-2-10 4-6-2 4-6-2 2-2-10 7-2-12 0-11-0

6x8 =

Scale = 1:83.9

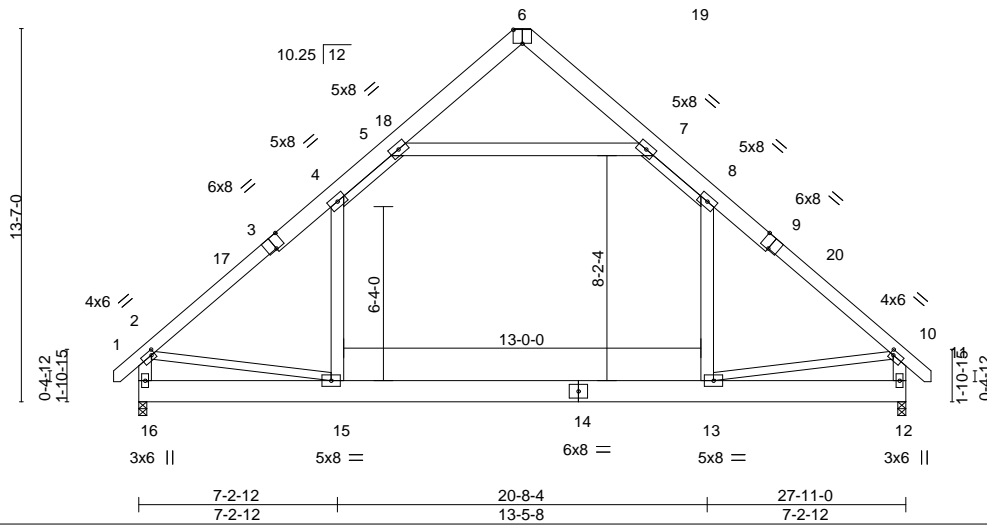


Plate Offsets (X,Y)-- [2:0-1-8,0-2-0], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.14	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.23	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.31	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	15	>999	240		
							Weight: 611 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.1 \*Except\*  
1-3,9-11: 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
4-5,7-8,2-15,10-13: 2x4 SP No.2

**BRACING-**

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

**REACTIONS.**

(size) 16=0-3-8, 12=0-3-8  
Max Horz 16=-433(LC 10)  
Max Grav 16=2247(LC 20), 12=2247(LC 21)

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

TOP CHORD 2-4=-2780/0, 4-5=-1851/178, 7-8=-1852/178, 8-10=-2780/0, 2-16=-2363/61, 10-12=-2364/61  
BOT CHORD 15-16=-469/810, 13-15=0/1993, 12-13=-137/517  
WEBS 5-7=-2000/164, 4-15=0/1040, 8-13=0/1040, 2-15=0/1715, 10-13=0/1725

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 14-0-0, Exterior(2) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 28-9-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



February 17, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280786
J0422-2019	A2GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GgvDyT5OZph6hXecf6KEBMzP9rw-ulJmaPd99l707VdQ?LKwZwXoPCJXhpuaG1fEnzkXZM

0-11-0 7-2-12 9-5-6 12-0-1 15-10-15 18-5-10 20-8-4 27-11-0 28-10-0  
 0-11-0 7-2-12 2-2-10 2-6-11 3-10-13 2-6-11 2-2-10 7-2-12 0-11-0

Scale = 1:70.2

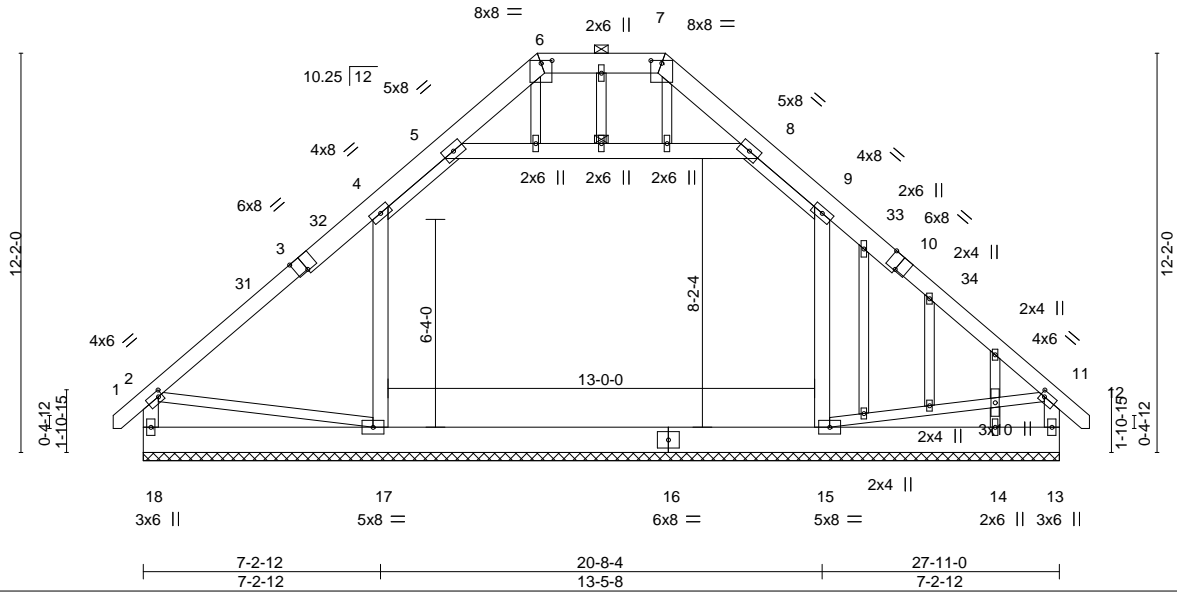


Plate Offsets (X,Y)-- [2:0-1-8,0-2-0], [3:0-4-0,Edge], [6:0-4-0,0-1-0], [7:0-4-0,0-1-0], [10:0-4-0,Edge], [11:0-1-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) 0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) 0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.39	Horz(CT) 0.00	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 328 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.1 \*Except\*  
 1-3,10-12: 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 4-5,8-9,2-17,11-15: 2x4 SP No.2  
 OTHERS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18.  
 WEBS 1 Row at midpt 5-8

**REACTIONS.**

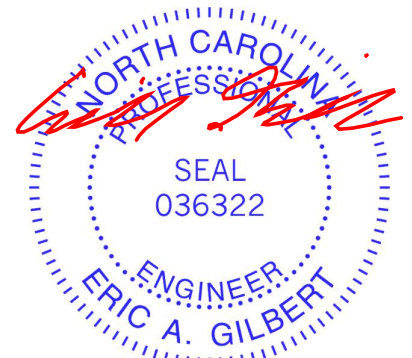
All bearings 27-11-0.  
 (lb) - Max Horz 18=-487(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 13 except 17=-334(LC 12), 15=-310(LC 13), 14=-362(LC 18)  
 Max Grav All reactions 250 lb or less at joint(s) except 18=708(LC 1), 17=1470(LC 20), 15=1549(LC 21), 13=785(LC 20)

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

TOP CHORD 2-4=-659/170, 4-5=-714/192, 5-6=-490/187, 7-8=-490/188, 8-9=-713/189, 9-11=-649/140, 2-18=-659/75, 11-13=-655/72, 6-7=-346/167  
 BOT CHORD 17-18=-472/530, 15-17=-121/479, 14-15=-131/266, 13-14=-131/266  
 WEBS 4-17=-856/397, 9-15=-838/387, 2-17=-223/557, 11-15=-230/544

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) 0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-1-15, Exterior(2) 12-1-15 to 22-0-12, Interior(1) 22-0-12 to 28-9-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s). 4-17, 9-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 13 except (jt=lb) 17=334, 15=310, 14=362.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 17, 2022

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**ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



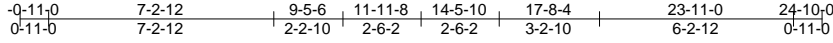
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280787
J0422-2019	B1	ATTIC	10	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:35:52 2022 Page 1

ID:GgvDyT5OZph6hXecf6KEBMzp9rw-MVs8nlenw3FtkCdZ2r9674uaccqQlw2ownCmEzXZL



6x8 =

Scale = 1:74.0

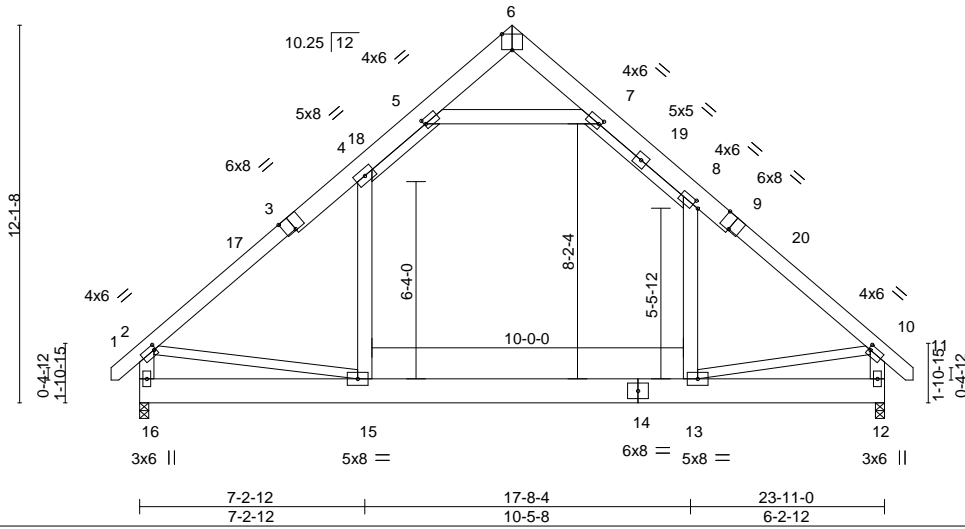


Plate Offsets (X,Y)-- [2:0-0-12,0-2-0], [3:0-4-0,Edge], [5:0-0-8,0-2-0], [6:0-4-0,Edge], [7:0-1-0,0-2-0], [8:0-2-6,0-2-0], [9:0-4-0,Edge], [10:0-0-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.11	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.20	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	15	>999	240	Weight: 264 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x8 SP No.1 \*Except\*  
1-3,9-11: 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
2-15,10-13,4-5,7-8: 2x4 SP No.2

**BRACING-**

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

**REACTIONS.**

(size) 16=0-3-8, 12=0-3-8  
Max Horz 16=308(LC 11)  
Max Grav 16=1473(LC 20), 12=1519(LC 21)

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

TOP CHORD 2-4=-1733/1, 4-5=-1089/153, 5-6=-12/359, 6-7=-22/294, 7-8=-1187/142, 8-10=-1750/0,  
2-16=-1487/87, 10-12=-1543/60  
BOT CHORD 15-16=-323/589, 13-15=0/1231, 12-13=-88/378  
WEBS 5-7=-1540/217, 4-15=0/647, 8-13=0/580, 2-15=0/1005, 10-13=0/1000

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 24-9-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



February 17, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932





Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280789
J0422-2019	C1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

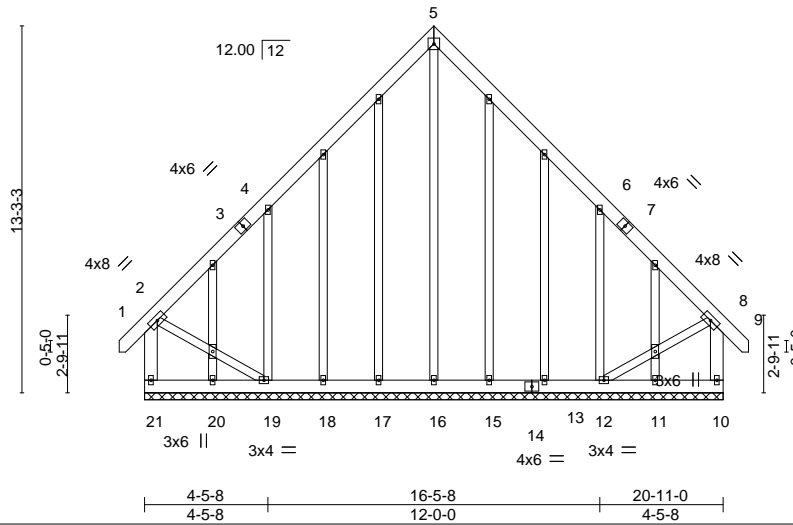
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:35:54 2022 Page 1

ID:GgvDyT5OZph6hXecf6KEBMzp9rw-It\_vCRf2RgWb\_yL?gTtdBY9JqPQ5uAKKGEGJr6zkXZJ

0-11-0 4-5-8 16-5-8 20-11-0 21-10-0  
0-11-0 4-5-8 12-0-0 4-5-8 0-11-0

5x5 =

Scale = 1:83.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) 0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 253 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
2-21,8-10: 2x6 SP No.1  
OTHERS 2x4 SP No.2

**BRACING-**

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

**REACTIONS.**

All bearings 20-11-0.  
(lb) - Max Horz 21=-446(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 21, 10 except 19=-646(LC 12), 12=-646(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 16, 17, 18, 20, 15, 13, 11 except 21=522(LC 20), 10=519(LC 19), 19=529(LC 19), 12=529(LC 20)

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

TOP CHORD 2-21=-491/92, 2-4=-421/151, 4-5=-374/160, 5-6=-374/160, 6-8=-420/149, 8-10=-490/91  
BOT CHORD 20-21=-418/404, 19-20=-418/404, 18-19=-231/352, 17-18=-231/352, 16-17=-231/352,  
15-16=-231/352, 13-15=-231/352, 12-13=-231/352  
WEBS 2-19=-222/375, 4-19=-545/480, 8-12=-224/376, 6-12=-546/479

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-6-0, Exterior(2) 10-6-0 to 16-6-3, Interior(1) 16-6-3 to 21-9-2 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 10 except (jt=lb) 19=646, 12=646.



February 17, 2022

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280790
J0422-2019	C2	ATTIC	5	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:35:55 2022 Page 1

ID:GgvDyT5OZph6hXecf6KEBmzp9rw-n3YHQnggC\_eRb6wCEBOskmiMDpctdQUVU?sNYzkXZI

-0-11-0 4-6-12 7-5-1 10-5-8 13-5-15 16-4-4 20-11-0 21-10-0  
0-11-0 4-6-12 2-10-5 3-0-7 3-0-7 2-10-5 4-6-12 0-11-0

4x6 =

Scale = 1:90.7

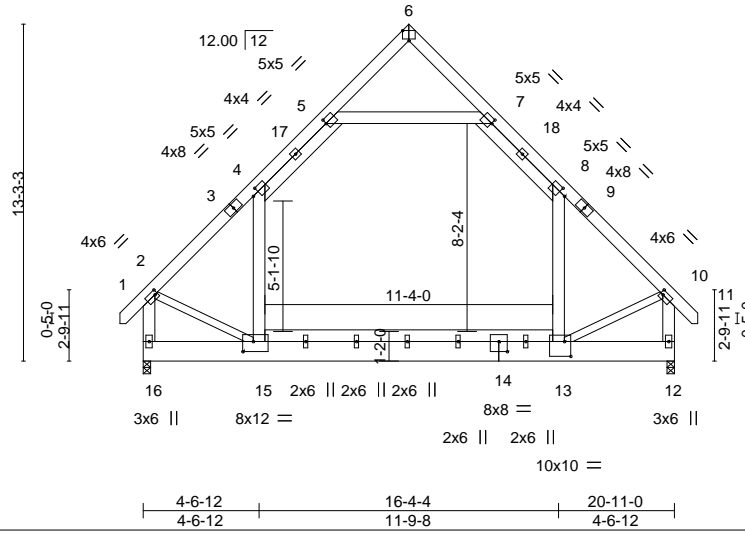


Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [4:0-3-2,0-2-4], [5:0-0-2,0-2-4], [6:0-3-0,Edge], [7:0-0-2,0-2-4], [8:0-3-2,0-2-4], [10:0-1-4,0-2-0], [13:0-3-0,0-7-0], [14:0-4-0,0-4-12], [15:0-5-0,0-4-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.17 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.28 13-15	>888	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05 13-15	>999	240		
								Weight: 271 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
2-15,10-13: 2x4 SP No.2

**BRACING-**

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

**REACTIONS.**

(size) 16=0-3-8, 12=0-3-8  
Max Horz 16=-351(LC 10)  
Max Grav 16=1457(LC 21), 12=1457(LC 20)

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

TOP CHORD 2-4=-1461/0, 4-5=-920/156, 7-8=-920/156, 8-10=-1461/0, 2-16=-1642/9, 10-12=-1642/9  
BOT CHORD 15-16=-315/413, 13-15=0/927  
WEBS 5-7=-973/190, 4-15=-9/605, 8-13=-8/605, 2-15=0/926, 10-13=0/929

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-6-0, Exterior(2) 10-6-0 to 14-10-13, Interior(1) 14-10-13 to 21-9-2 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



February 17, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek
J0422-2019	C3	ATTIC	4	1	150280791

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:35:56 2022 Page 1

ID:GvDyT5OZph6hXecf6KEBMzp9rw-FG6fd6hizHmIDGVOouv5GzFXwDx4M6edjYlQv?zkXZH  
 0-11-0 4-6-12 7-5-1 10-5-8 13-5-15 16-4-4 20-11-0  
 0-11-0 4-6-12 2-10-5 3-0-7 3-0-7 2-10-5 4-6-12

4x6 =

Scale = 1:90.7

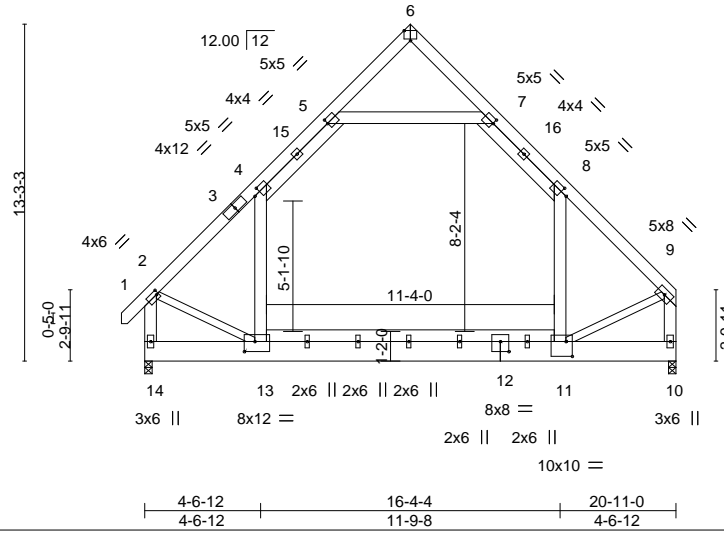


Plate Offsets (X,Y)--	[2:0-1-0,0-2-0], [4:0-3-2,0-2-4], [5:0-0-2,0-2-4], [6:0-3-0,Edge], [7:0-0-2,0-2-4], [8:0-3-2,0-2-4], [11:0-3-0,0-7-0], [12:0-4-0,0-4-12], [13:0-5-0,0-4-12]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.17 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.28 11-13 >881 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.01 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 11-13 >999 240	Weight: 268 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-13,9-11: 2x4 SP No.2	

**REACTIONS.** (size) 14=0-3-8, 10=0-3-8  
 Max Horz 14=-318(LC 10)  
 Max Grav 14=1455(LC 21), 10=1415(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1460/0, 4-5=-917/148, 7-8=-924/159, 8-9=-1452/0, 2-14=-1641/0, 9-10=-1596/0  
 BOT CHORD 13-14=-297/380, 11-13=0/906  
 WEBS 5-7=-982/196, 4-13=-5/609, 8-11=-20/581, 2-13=0/925, 9-11=0/949

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-6-0, Exterior(2) 10-6-0 to 14-10-13, Interior(1) 14-10-13 to 20-8-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-13, 8-11
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
  - Attic room checked for L/360 deflection.

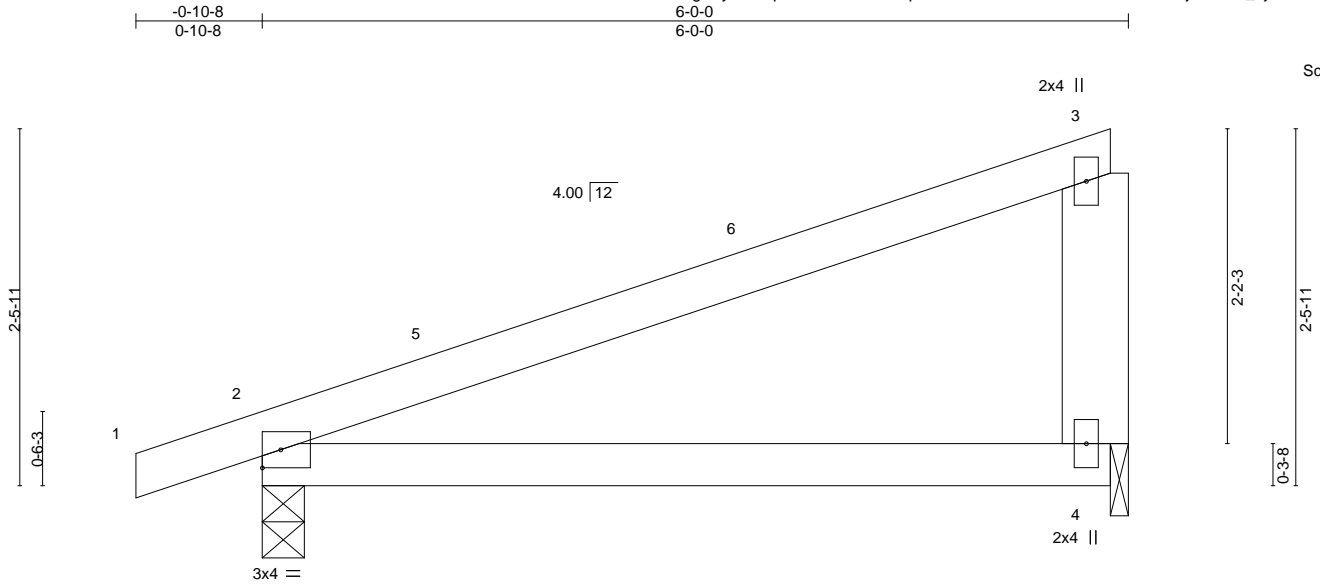


February 17, 2022

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280792
J0422-2019	M1	MONOPITCH	10	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:35:56 2022 Page 1  
 ID:GgvDyT5OZph6hXecf6KEBMzp9rw-FG6fd6hlzHmIDGVOouv5GzFbjD1aMA\_djYQv?zkXZH



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.11	2-4	>642	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.12	2-4	>579	240		
							Weight: 24 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 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) 2=0-3-8, 4=0-1-8  
 Max Horz 2=73(LC 8)  
 Max Uplift 2=114(LC 8), 4=97(LC 8)  
 Max Grav 2=292(LC 1), 4=219(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=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 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=114.



February 17, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



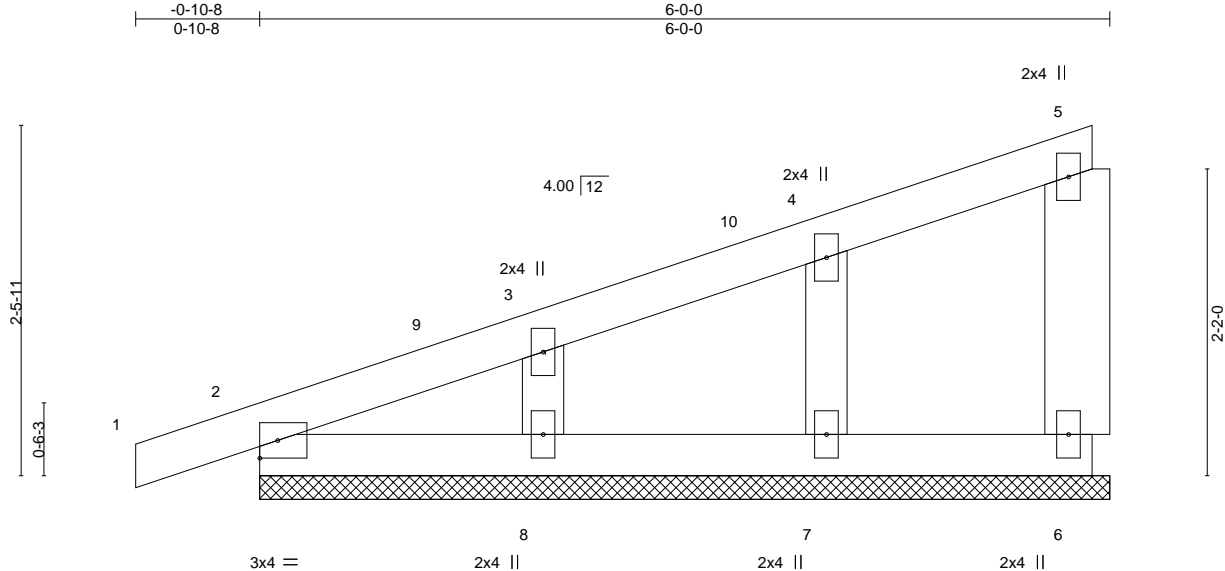
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280793
J0422-2019	M1GE	GABLE	2	1	Job Reference (optional)	

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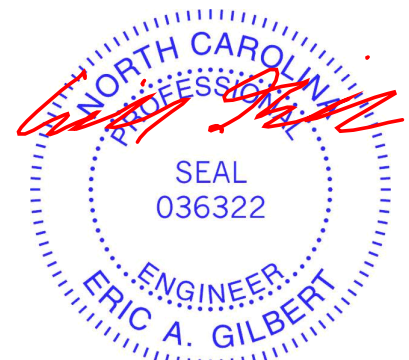
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 27 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

**REACTIONS.** All bearings 6-0-0.  
 (lb) - Max Horz 2=105(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8  
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=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 5-9-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) 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.
  - 3) Gable requires continuous bottom chord bearing.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.



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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280794
J0422-2019	P1	MONOPITCH	4	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:35:57 2022 Page 1

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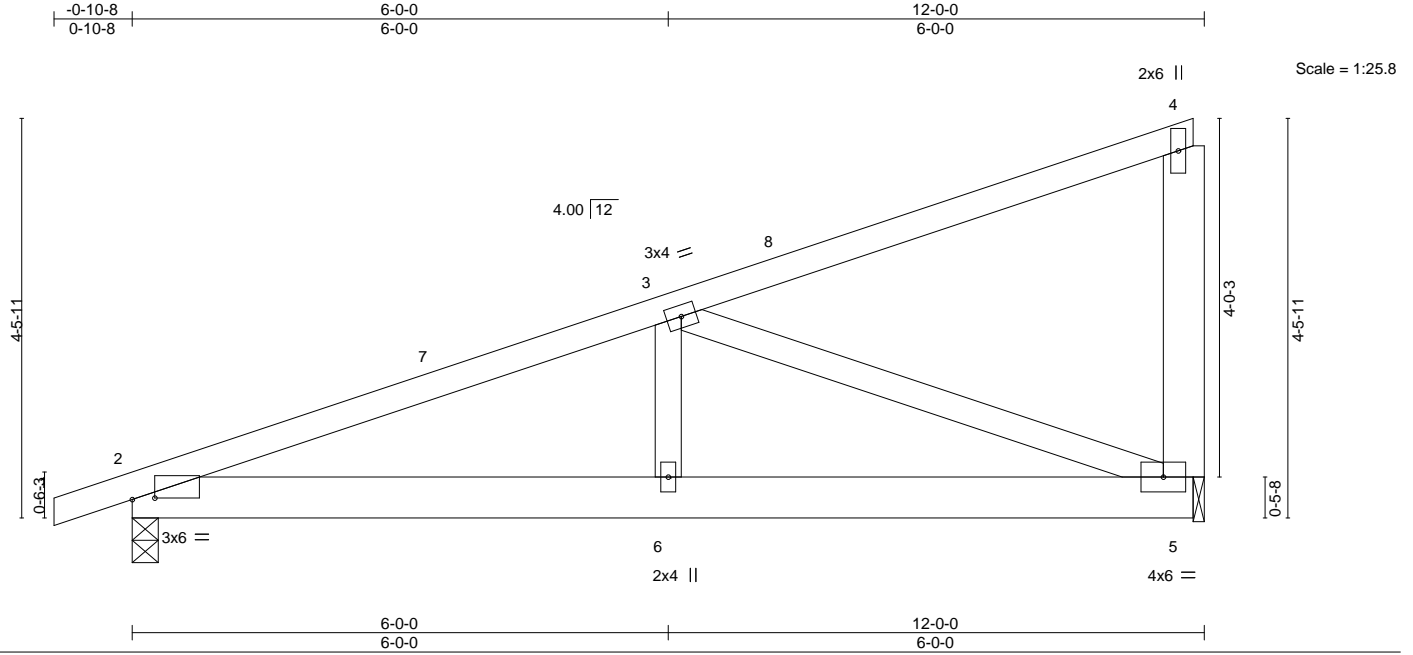


Plate Offsets (X,Y)-- [2:0-3-0,0-0-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.02	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.04	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	2-6	>999	240	Weight: 68 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 4-5: 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 8-5-11 oc bracing.

**REACTIONS.**

(size) 2=0-3-8, 5=0-1-8  
 Max Horz 2=140(LC 8)  
 Max Uplift 2=-195(LC 8), 5=-201(LC 8)  
 Max Grav 2=529(LC 1), 5=462(LC 1)

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

TOP CHORD 2-3=-839/715  
 BOT CHORD 2-6=-808/736, 5-6=-808/736  
 WEBS 3-6=-336/267, 3-5=-755/825

**NOTES-**

- 1) 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 11-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=195, 5=201.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 17, 2022

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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

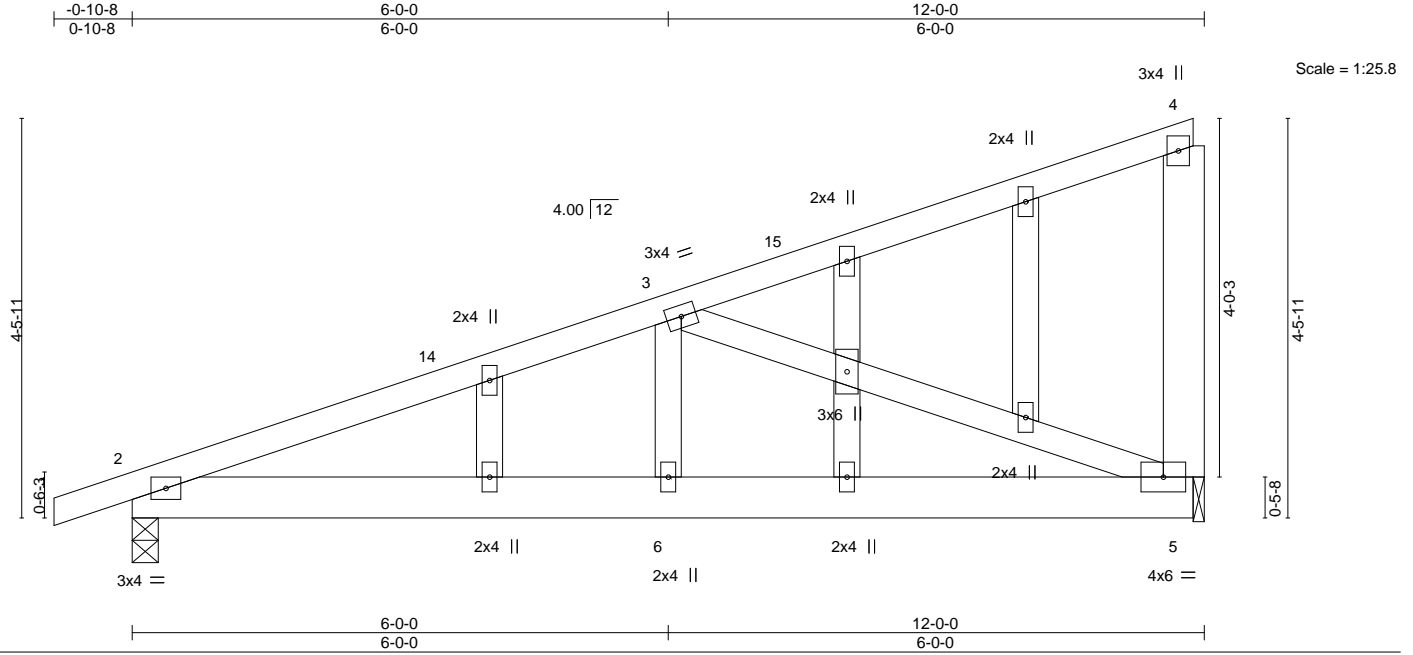


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280795
J0422-2019	P1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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ID:GgvDyT5OZph6hXecf6KEBMzp9rw-BeEP2ojYVv00SafmvJyZLOKzK0ltqz4wBsEX\_tzkXZF



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.02	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.04	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	2-6	>999	240	Weight: 76 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 4-5: 2x6 SP No.1  
 OTHERS 2x4 SP No.2

**BRACING-**

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

**REACTIONS.**

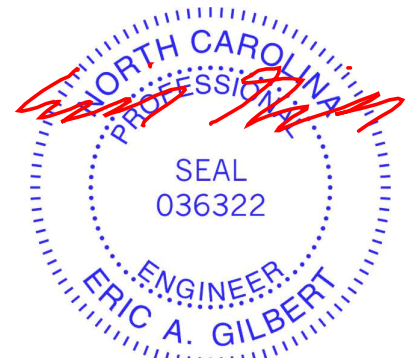
(size) 2=0-3-8, 5=0-1-8  
 Max Horz 2=200(LC 8)  
 Max Uplift 2=-153(LC 8), 5=-164(LC 12)  
 Max Grav 2=529(LC 1), 5=462(LC 1)

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

TOP CHORD 2-3=-839/280  
 BOT CHORD 2-6=-477/736, 5-6=-477/736  
 WEBS 3-6=0/267, 3-5=-755/475

**NOTES-**

- 1) 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 11-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=153, 5=164.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 17, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280796
J0422-2019	VA1	GABLE	1	1	Job Reference (optional)	

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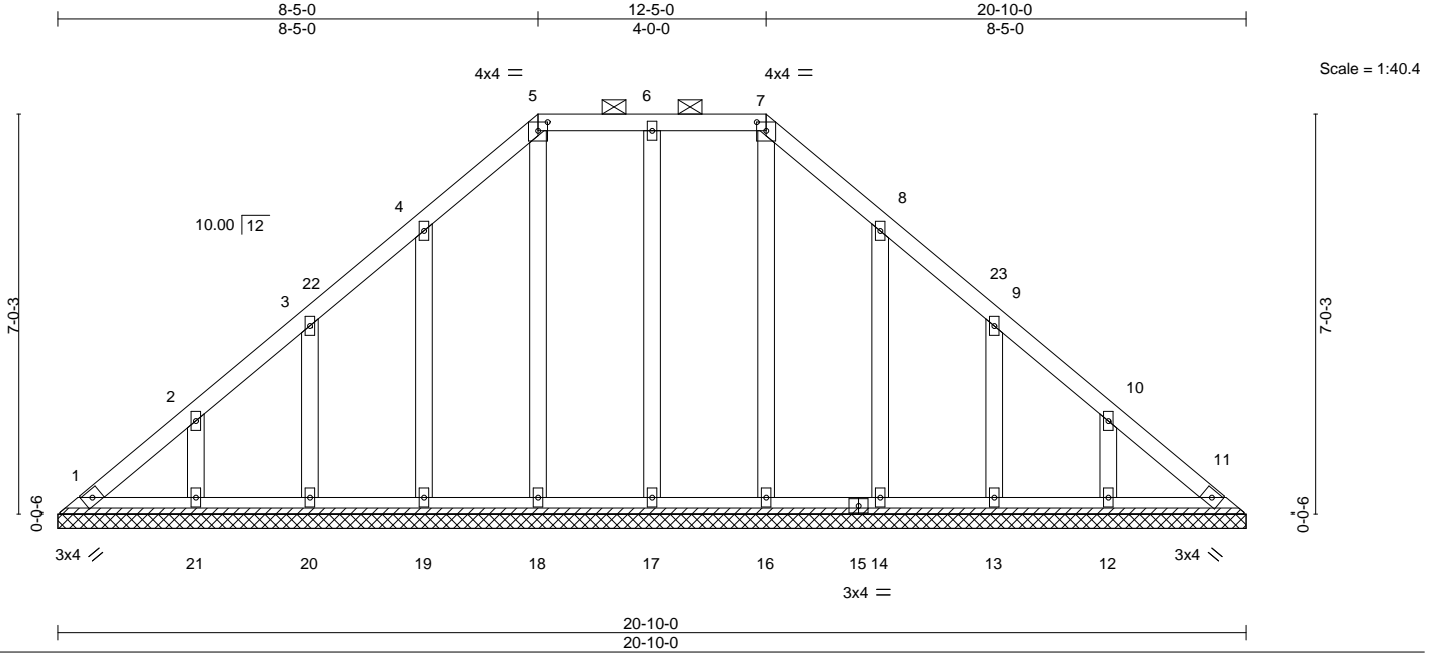


Plate Offsets (X,Y)-- [5:0-2-0,0-1-13], [7:0-2-0,0-1-13], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

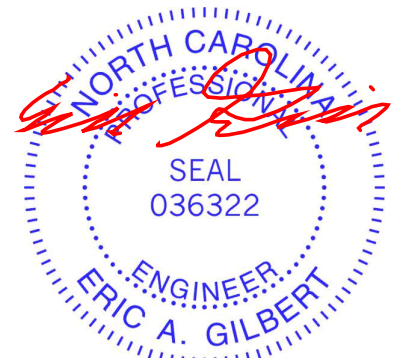
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.00	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 125 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except
BOT CHORD 2x4 SP No.1	2'-0-0 oc purlins (6'-0-0 max.); 5-7.
OTHERS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

**REACTIONS.** All bearings 20-10-0.  
 (lb) - Max Horz 1=201(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 17, 18 except 19=119(LC 12), 20=107(LC 12), 21=126(LC 12), 14=118(LC 13), 13=107(LC 13), 12=125(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 17, 18, 19, 20, 21, 16, 14, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-5-0, Exterior(2) 8-5-0 to 18-5-0, Interior(1) 18-5-0 to 20-5-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 17, 18 except (jt=lb) 19=119, 20=107, 21=126, 14=118, 13=107, 12=125.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280797
J0422-2019	VA2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:36:00 2022 Page 1  
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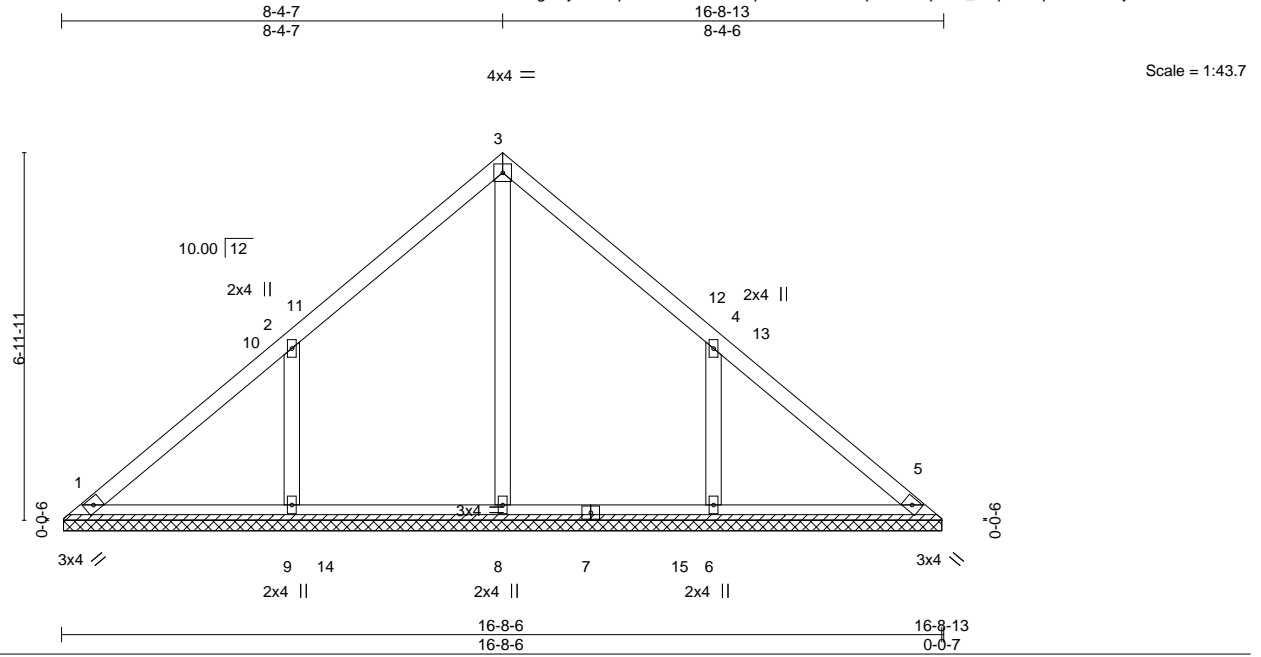


Plate Offsets (X,Y)-- [4:0-0-0-0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	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 0.13	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 74 lb	FT = 20%

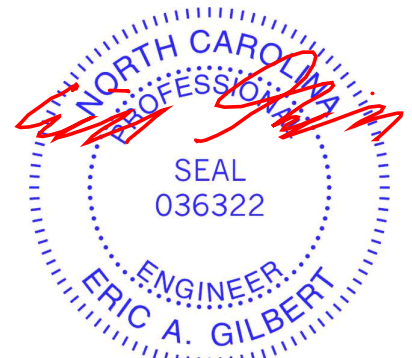
**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.2

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

**REACTIONS.** All bearings 16-7-15.  
 (lb) - Max Horz 1=159(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=152(LC 12), 6=152(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=349(LC 22), 9=457(LC 19), 6=457(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-9=379/265, 4-6=379/265

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-4-7, Exterior(2) 8-4-7 to 12-9-3, Interior(1) 12-9-3 to 16-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=152, 6=152.



February 17, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



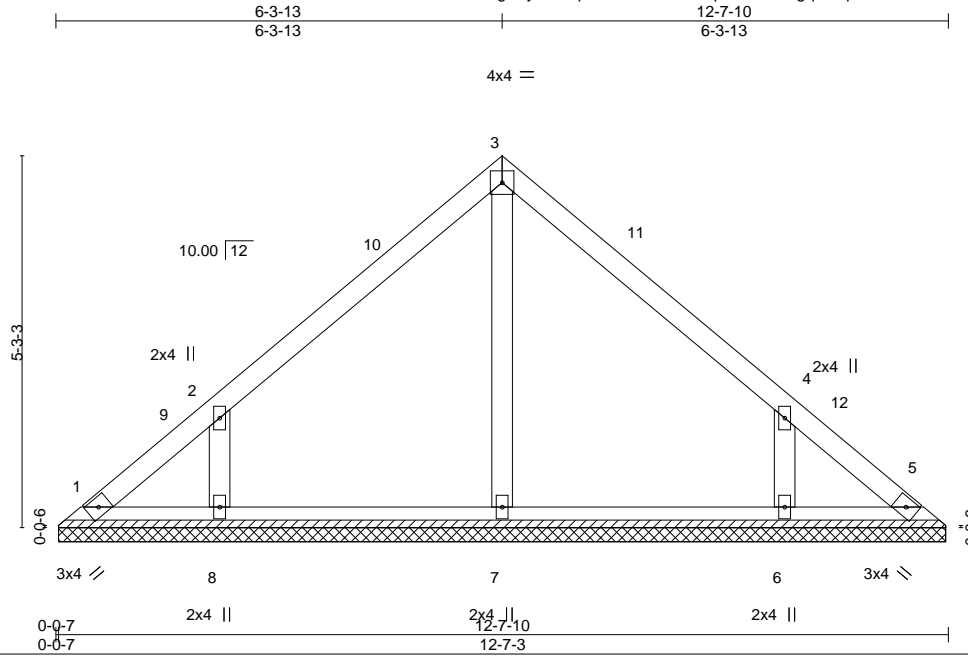
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280798
J0422-2019	VA3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:36:01 2022 Page 1

ID:GgvDyT5OZph6hXecf6KEBMzp9rw-bDvYgqIRoqObJ1OLbRVGz1yWDEoz1QCMTqSBbCzkXZC



Scale = 1:32.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 53 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** All bearings 12-6-11.  
 (lb) - Max Horz 1=118(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=123(LC 12), 6=123(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=327(LC 19), 6=327(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=312/240, 4-6=312/240

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-3-13, Exterior(2) 6-3-13 to 10-8-10, Interior(1) 10-8-10 to 12-2-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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=123, 6=123.



February 17, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

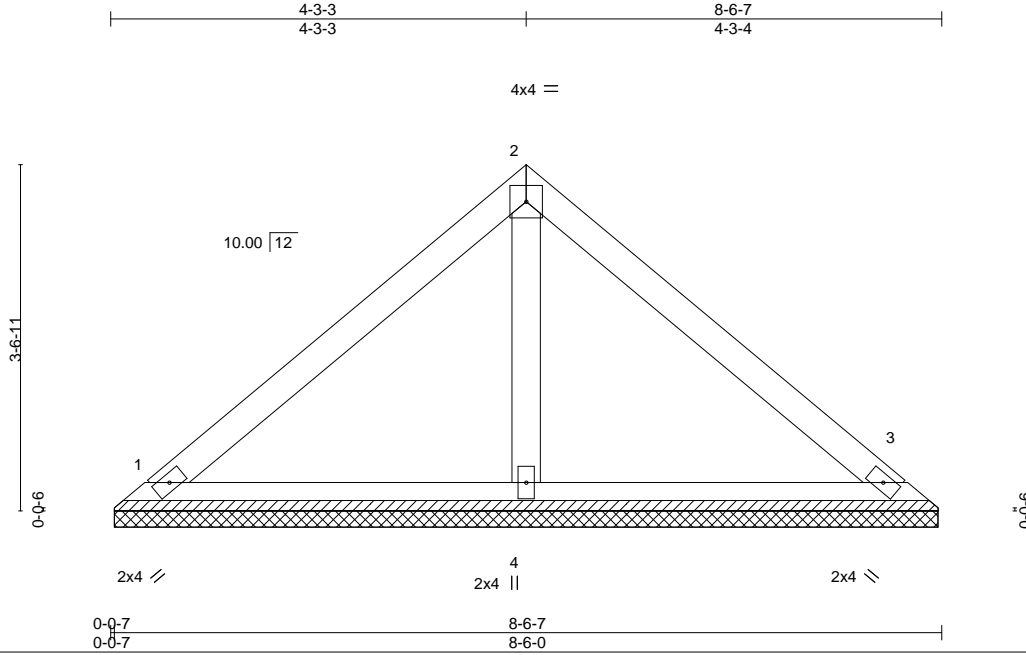


818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280799
J0422-2019	VA4	VALLEY	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:36:01 2022 Page 1  
ID:GgvDyT5OZph6hXecf6KEBMzp9rw-bDvYgqIqRoqObJ1OLbRVGz1yVoEod1RkMtqSBbCzkXZC



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 32 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 1=8-5-8, 3=8-5-8, 4=8-5-8  
Max Horz 1=77(LC 9)  
Max Uplift 1=-27(LC 13), 3=-34(LC 13)  
Max Grav 1=179(LC 1), 3=179(LC 1), 4=261(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



February 17, 2022

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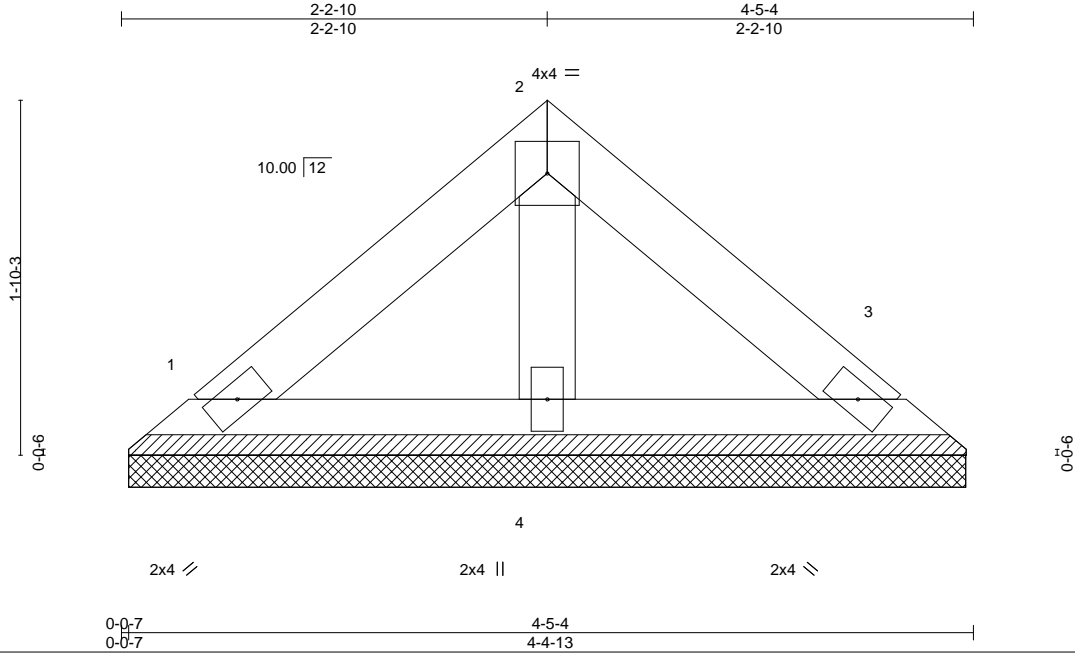
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 52 Anderson Creek	150280800
J0422-2019	VA5	VALLEY	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 16 14:36:02 2022 Page 1

ID:GgvDyT5OZph6hXecf6KEBMzp9rw-3QTwuAm3Z7WSxByY890VWEVjle9DmuKW6UCk7ezkXZB



Scale: 1"=1'

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a	-	n/a	999		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) n/a	-	n/a	999			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00	3	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 15 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 1=4-4-5, 3=4-4-5, 4=4-4-5  
 Max Horz 1=-36(LC 8)  
 Max Uplift 1=-13(LC 13), 3=-16(LC 13)  
 Max Grav 1=84(LC 1), 3=84(LC 1), 4=123(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



February 17, 2022

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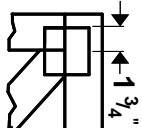
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



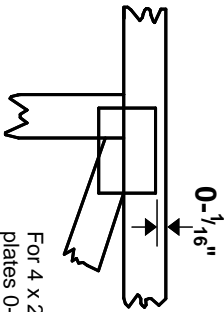
818 Soundside Road  
 Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

4 X 4

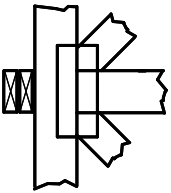
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



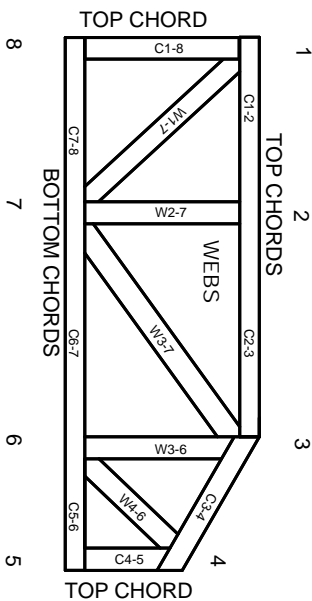
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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