

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J0822-4265  
Lot 115 Hidden Lakes

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: I54203506 thru I54203529

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

North Carolina COA: C-0844



September 14, 2022

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	Lot 115 Hidden Lakes	I54203506
J0822-4265	A1	ATTIC	4	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:02 2022 Page 1

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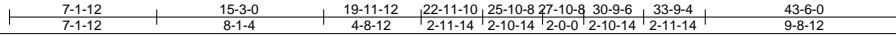
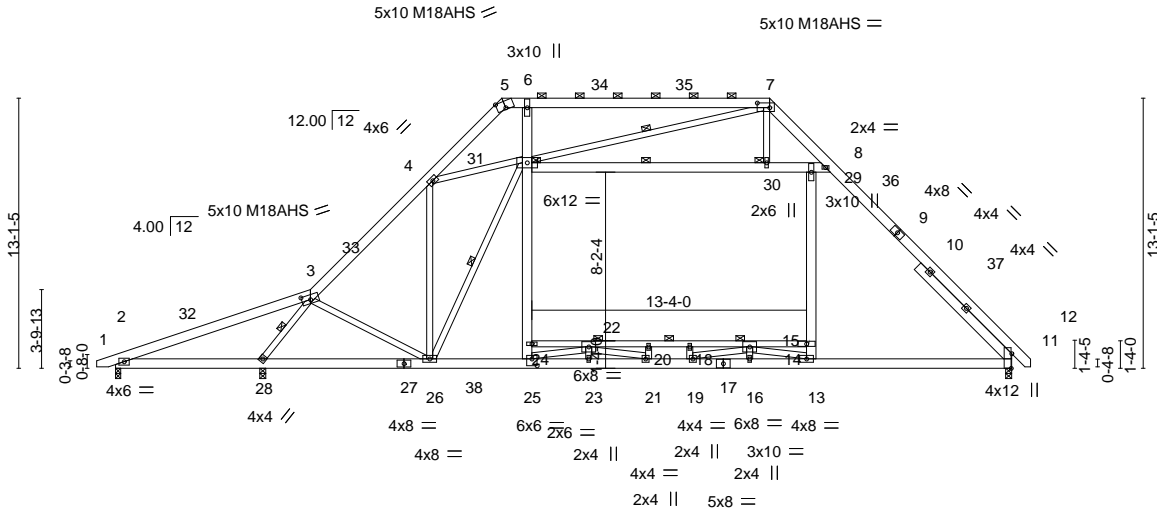


Plate Offsets (X,Y)--	[3:0-5-0,0-2-12], [5:0-5-0,Edge], [7:0-7-4,0-2-12], [11:0-8-9,Edge], [25:0-3-0,0-4-0]
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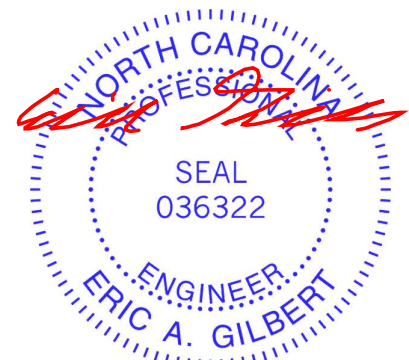
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.19	20-22	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.37	20-22	>999	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.06	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.14	25	>999		
								Weight: 441 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except
BOT CHORD 2x6 SP No.1 *Except* 14-24: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except* 6-25, 13-29, 8-31: 2x6 SP No.1	WEBS 1 Row at midpt 3-28, 30-31, 7-31, 26-31
SLIDER Right 2x6 SP No.1 6-4-14	JOINTS 1 Brace at Jt(s): 30, 31

REACTIONS.
(size) 2=0-3-0, 28=0-3-8 (req. 0-3-11), 11=0-3-8
Max Horz 2=409(LC 9)
Max Uplift 2=-474(LC 20), 28=-222(LC 9)
Max Grav 2=146(LC 9), 28=3126(LC 26), 11=2431(LC 21)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-869/1846, 3-4=-2241/234, 4-5=-1222/151, 5-6=-926/180, 6-7=-954/244, 7-8=-1482/27, 8-11=-2938/138
BOT CHORD	2-28=-1664/444, 26-28=0/738, 25-26=0/1904, 23-25=0/3358, 21-23=0/3358, 19-21=0/4254, 16-19=0/3104, 13-16=0/3104, 11-13=0/1865, 22-24=-150/299, 20-22=-2583/0, 18-20=-2583/0, 15-18=-2583/0, 14-15=-82/440
WEBS	3-28=-3577/560, 3-26=-174/1036, 24-25=0/1012, 24-31=0/1247, 6-31=-323/602, 13-14=0/969, 14-29=0/1201, 30-31=-1204/445, 29-30=-1226/432, 8-29=-1208/433, 7-31=-550/186, 7-30=0/700, 4-26=-308/796, 26-31=-1197/226, 4-31=-1224/517, 18-19=-274/0, 20-21=-265/0, 22-25=-1859/0, 21-22=0/991, 13-15=-1901/0, 15-19=0/1211

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 18-10-2, Exterior(2) 18-10-2 to 23-2-15, Interior(1) 23-2-15 to 31-9-0, Exterior(2) 31-9-0 to 36-1-13, Interior(1) 36-1-13 to 44-3-6 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Ceiling dead load (10.0 psf) on member(s). 8-11, 30-31, 29-30, 8-29; Wall dead load (5.0psf) on member(s). 24-31, 14-29
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 15-18, 14-15
  - WARNING: Required bearing size at joint(s) 28 greater than input bearing size.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



**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

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

Job J0822-4265	Truss A1	Truss Type ATTIC	Qty 4	Ply 1	Lot 115 Hidden Lakes I54203506 Job Reference (optional)
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:02 2022 Page 2  
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**NOTES-**

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

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

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203507
J0822-4265	A1-GR	ATTIC	1	<b>3</b>		

Comtech, Inc. Fayetteville, NC - 28314,

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0-11-0 9-5-8 15-3-0 18-9-0 19-11-12 31-9-0 33-9-4 43-6-0 44-5-0  
 0-11-0 9-5-8 5-9-8 3-6-0 1-2-12 11-9-4 2-0-4 9-8-12 0-11-0

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Scale: 1/8"=1'

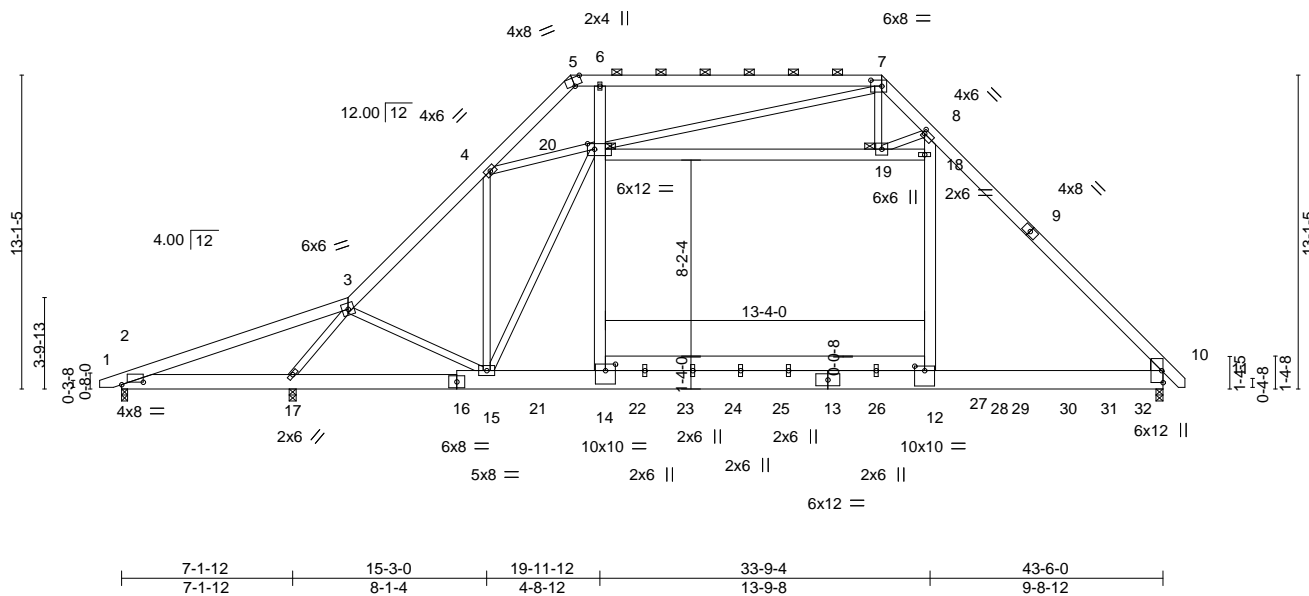


Plate Offsets (X, Y)--	[2:0-10-13,0-1-4], [5:0-4-0,Edge], [7:0-5-8,0-3-0], [8:0-1-0,0-2-0], [12:0-5-0,0-2-4], [14:0-5-0,0-3-4], [20:0-3-8,0-2-12]
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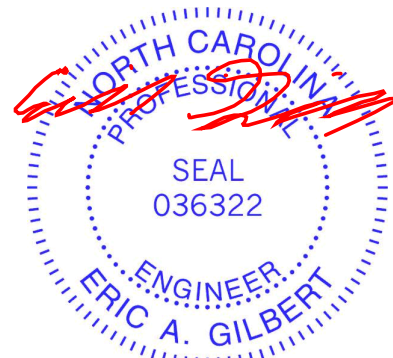
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.20	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.35	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.04	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	14	>999		
								Weight: 1460 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x8 SP No.1 *Except* 10-13,13-16: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except* 6-14,8-12,18-20: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 19, 20
WEDGE Right: 2x6 SP No.1	

**REACTIONS.** (size) 2=0-3-0, 17=0-3-8, 10=0-3-8  
 Max Horz 2=410(LC 7)  
 Max Uplift 2=-326(LC 16), 17=-177(LC 5)  
 Max Grav 2=622(LC 14), 17=4570(LC 22), 10=9370(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1517/1533, 3-4=-6050/42, 4-5=-1039/257, 5-6=-791/185, 6-7=-815/242,  
 7-8=-3081/0, 8-10=-10257/0  
 BOT CHORD 2-17=-1214/1396, 15-17=0/4311, 14-15=0/6814, 12-14=0/6880, 10-12=0/6907  
 WEBS 3-17=-5295/294, 3-15=-182/871, 14-20=0/4724, 6-20=-583/591, 12-18=0/7706,  
 8-18=0/7600, 19-20=-4305/324, 18-19=-161/292, 7-20=-2904/259, 7-19=0/2463,  
 4-15=-355/3608, 15-20=-5723/254, 4-20=-4547/444, 8-19=-5164/392

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-5-0 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=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.



September 14, 2022

Continued on page 2

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	A1-GR	ATTIC	1	<b>3</b>	I54203507
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:07 2022 Page 2  
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**NOTES-**

- 6) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #20 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
- 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, with BCDL = 10.0psf.
- 9) Ceiling dead load (10.0 psf) on member(s). 19-20, 18-19; Wall dead load (5.0psf) on member(s).14-20, 12-18
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 17=177.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 375 lb down at 21-4-4, 375 lb down at 23-4-4, 375 lb down at 25-4-4, 1103 lb down at 27-4-4, 1103 lb down at 29-4-4, 1103 lb down at 31-4-4, 1103 lb down at 33-4-4, 1103 lb down at 35-4-4, 1103 lb down at 37-4-4, and 1103 lb down at 39-4-4, and 1103 lb down at 41-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 7-11=-60, 2-14=-20, 12-14=-40, 10-12=-20, 18-20=-20

Drag: 14-20=-10, 12-18=-10

Concentrated Loads (lb)

Vert: 13=-450(F) 22=-251(F) 23=-251(F) 24=-251(F) 25=-450(F) 26=-450(F) 27=-450(F) 28=-450(F) 29=-450(F) 30=-450(F) 32=-450(F)

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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



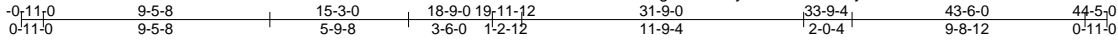
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	154203508
J0822-4265	A1GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:06 2022 Page 1

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Scale: 1/8"=1'

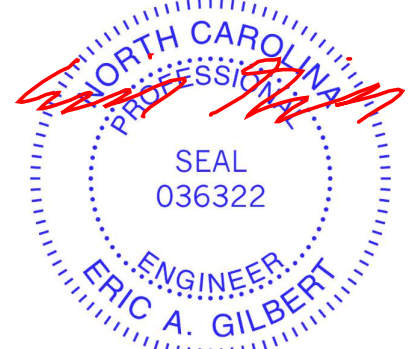
Plate Offsets (X, Y)--	[5:0-4-8,0-2-12], [10:0-4-15,Edge], [16:0-5-12,0-3-4], [16:0-2-0,0-0-4], [24:0-8-9,Edge], [29:0-3-0,0-4-0], [51:0-6-0,0-2-4], [53:0-2-0,0-1-8], [57:0-1-15,0-1-0], [59:0-1-15,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.17 34-36	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.35 36	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.06 24	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.16 26	>999	240	Weight: 548 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except
BOT CHORD 2x6 SP No.1 *Except* 30-40: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-48,47-48,46-47. 3-7-0 oc bracing: 30-40
WEBS 2x4 SP No.2 *Except* 11-41,29-49,18-51: 2x6 SP No.1	WEBS 1 Row at midpt 8-44, 19-28
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 50, 51, 55, 56, 57, 59, 65, 66, 67, 68, 69, 70, 71, 72
SLIDER Right 2x6 SP No.1 3-5-6	

REACTIONS.
(size) 2=0-3-0, 46=0-3-8, 24=0-3-8
Max Horz 2=526(LC 9)
Max Uplift 2=-425(LC 8), 46=-374(LC 12), 24=-121(LC 13)
Max Grav 2=210(LC 9), 46=2865(LC 26), 24=2253(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-840/1353, 3-4=-810/1395, 4-5=-751/1386, 5-6=-2066/408, 6-7=-2057/425, 7-8=-1976/465, 8-9=-1596/548, 9-10=-1252/420, 10-11=-1070/430, 11-12=-1072/483, 12-13=-1072/483, 13-14=-1072/483, 14-15=-1072/483, 15-16=-1075/482, 16-17=-1561/427, 17-18=-1801/305, 18-19=-2556/291, 19-20=-2528/456, 20-22=-2495/367, 22-24=-2804/165
BOT CHORD 2-48=-1121/286, 47-48=-1121/286, 46-47=-1121/286, 44-46=-237/774, 43-44=0/1769, 42-43=0/1769, 41-42=0/1769, 39-41=0/3278, 37-39=0/3278, 35-37=0/4188, 32-35=0/3080, 29-32=0/3080, 28-29=0/1760, 27-28=0/1760, 26-27=0/1760, 24-26=0/1760, 38-40=-39/321, 36-38=-2643/0, 34-36=-2643/0, 31-34=-2643/0, 30-31=-73/367
WEBS 5-46=-2910/477, 5-59=-185/974, 57-59=-179/931, 44-57=-168/944, 40-41=0/691, 40-51=0/935, 11-51=-131/622, 29-30=0/1073, 30-49=0/1304, 51-68=-992/622, 66-68=-993/620, 66-69=-993/620, 69-71=-993/620, 50-71=-993/620, 50-73=-1017/613, 49-73=-1020/613, 18-49=-1005/629, 51-64=-547/407, 64-65=-544/412, 65-67=-532/404, 67-70=-535/407, 70-72=-520/399, 16-72=-542/409, 16-50=-115/776, 8-44=-389/739, 44-56=-982/323, 54-56=-994/319, 51-54=-835/273, 8-55=-1047/801, 51-55=-1050/799, 34-35=-272/0, 36-37=-268/0, 38-41=-2032/0, 37-38=0/988, 29-31=-1944/0, 31-35=0/1167, 9-55=-203/423, 55-56=-192/367, 43-56=-183/340, 4-47=-385/253, 17-73=0/350, 19-28=-304/172, 22-26=-35/322



**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Code and Envelope as applicable, or consult qualified building designer as per ANSI/TPI 1.

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

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**ENGINEERING BY**  
  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

September 14, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203508
J0822-4265	A1GE	GABLE	1	1		
						Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:06 2022 Page 2  
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-dCZDdAIMf5szohbuhPhKco8PM2Y10Va6QrGNT7ydj7V

**NOTES-**

- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Ceiling dead load (10.0 psf) on member(s). 51-68, 66-68, 66-69, 69-71, 50-71, 50-73, 49-73, 18-49; Wall dead load (5.0psf) on member(s).40-51, 30-49
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 38-40, 36-38, 34-36, 31-34, 30-31
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=425, 46=374, 24=121.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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

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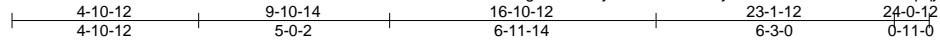
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203509
J0822-4265	A2	ROOF SPECIAL	5	1		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:08 2022 Page 1

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5x5 =

Scale = 1:60.4

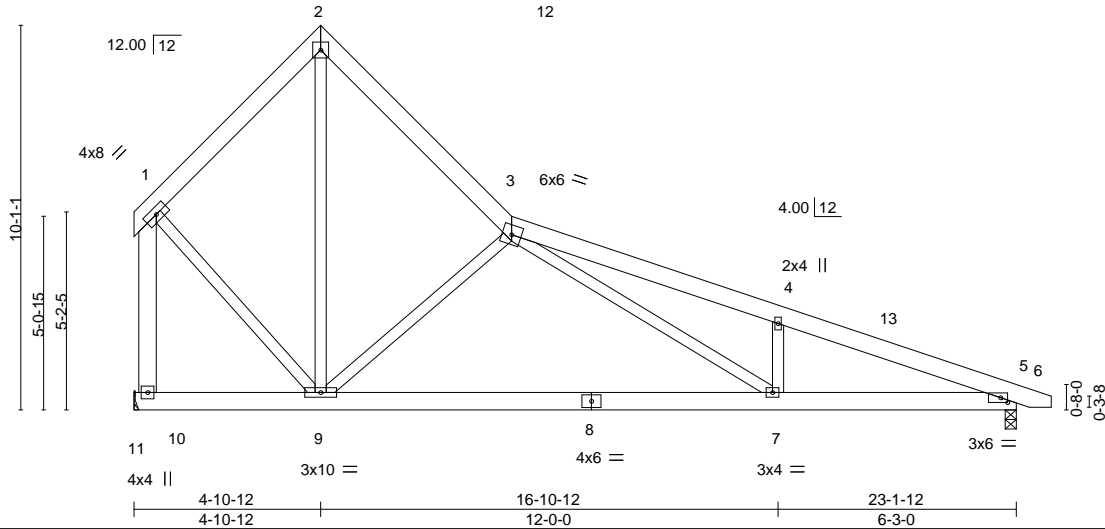


Plate Offsets (X,Y)-- [5:0-2-3,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.12	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.27	7-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	7-9	>999		
								Weight: 182 lb	FT = 20%

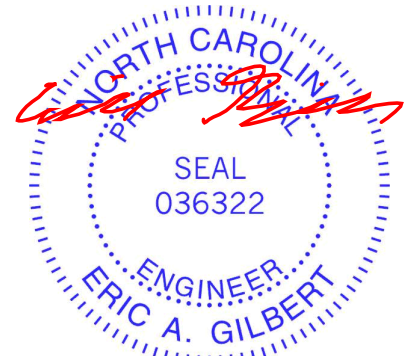
**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
1-10: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.

**REACTIONS.** (size) 10=Mechanical, 5=0-3-8  
Max Horz 10=-306(LC 8)  
Max Uplift 10=-197(LC 13), 5=-211(LC 9)  
Max Grav 10=912(LC 1), 5=953(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-643/311, 2-3=-638/308, 3-4=-2073/755, 4-5=-2087/626, 1-10=-926/373  
BOT CHORD 9-10=-115/307, 7-9=-243/1074, 5-7=-503/1901  
WEBS 2-9=-180/510, 3-7=-333/995, 4-7=-344/307, 1-9=-94/548, 3-9=-954/546

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 9-3-9, Interior(1) 9-3-9 to 23-9-5 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) except (jt=lb) 10=197, 5=211.



September 14, 2022

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

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

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



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Edenton, NC 27932

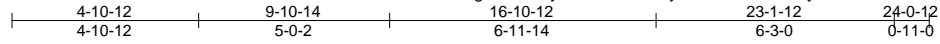


Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203510
J0822-4265	A2SG	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:09 2022 Page 1

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5x5 =

Scale = 1:60.4

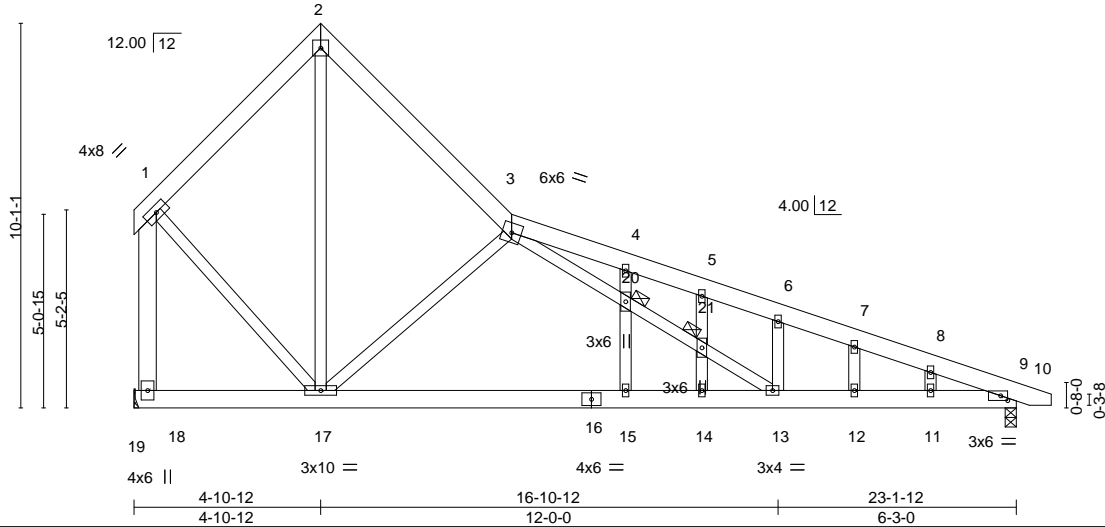


Plate Offsets (X,Y)-- [9:0-2-3,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.07 15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.15 15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 15 >999 240	Weight: 192 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 1-18: 2x6 SP No.1  
 OTHERS 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-9-13 oc bracing.  
 JOINTS 1 Brace at Jt(s): 20, 21

**REACTIONS.** (size) 18=Mechanical, 9=0-3-8  
 Max Horz 18=-434(LC 13)  
 Max Uplift 18=-393(LC 13), 9=-402(LC 9)  
 Max Grav 18=912(LC 1), 9=953(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-631/382, 2-3=-630/375, 3-4=-1918/1122, 4-5=-1975/1080, 5-6=-1978/1048,  
 6-7=-1933/971, 7-8=-1959/937, 8-9=-2033/917, 1-18=-903/482  
 BOT CHORD 17-18=-111/426, 15-17=-321/1095, 14-15=-321/1095, 13-14=-321/1095, 12-13=-795/1834,  
 11-12=-795/1834, 9-11=-795/1834  
 WEBS 2-17=-270/501, 3-20=-578/911, 20-21=-555/859, 13-21=-568/890, 1-17=-205/530,  
 3-17=-1001/717, 15-20=0/293

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) 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) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=393, 9=402.



September 14, 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

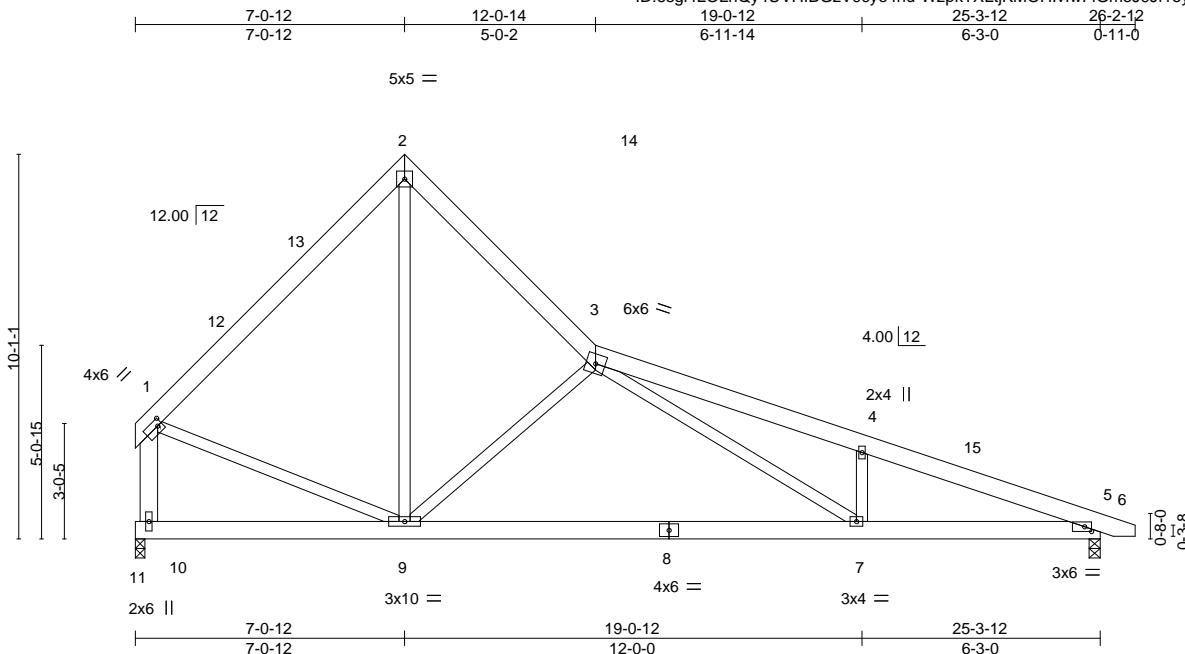


818 Soundside Road  
 Edenton, NC 27932

Job J0822-4265	Truss A3	Truss Type ROOF SPECIAL	Qty 3	Ply 1	Lot 115 Hidden Lakes I54203511
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:10 2022 Page 1  
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Scale = 1:60.4

Plate Offsets (X,Y)--	[1:0-1-8,0-2-0], [5:0-2-3,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.13 7-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Vert(CT) -0.29 7-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 7-9 >999 240	Weight: 190 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-10: 2x6 SP No.1	

**REACTIONS.** (size) 10=0-3-0, 5=0-3-8  
 Max Horz 10=-309(LC 8)  
 Max Uplift 10=-177(LC 13), 5=-220(LC 9)  
 Max Grav 10=999(LC 1), 5=1040(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-911/395, 2-3=-917/435, 3-4=-2313/890, 4-5=-2330/762, 1-10=-970/406  
 BOT CHORD 9-10=-101/323, 7-9=-363/1317, 5-7=-631/2129  
 WEBS 2-9=-268/796, 3-9=-1070/588, 3-7=-326/979, 4-7=-336/303, 1-9=-41/531

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-0-12, Exterior(2) 7-0-12 to 11-5-9, Interior(1) 11-5-9 to 25-11-5 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) except (jt=lb) 10=177, 5=220.



September 14, 2022

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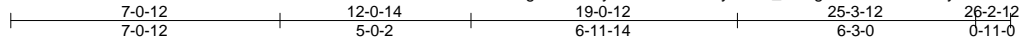
ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203512
J0822-4265	A3SG	GABLE	1	1		
Comtech, Inc. Fayetteville, NC - 28314,						Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:11 2022 Page 1

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5x5 =

Scale = 1:60.4

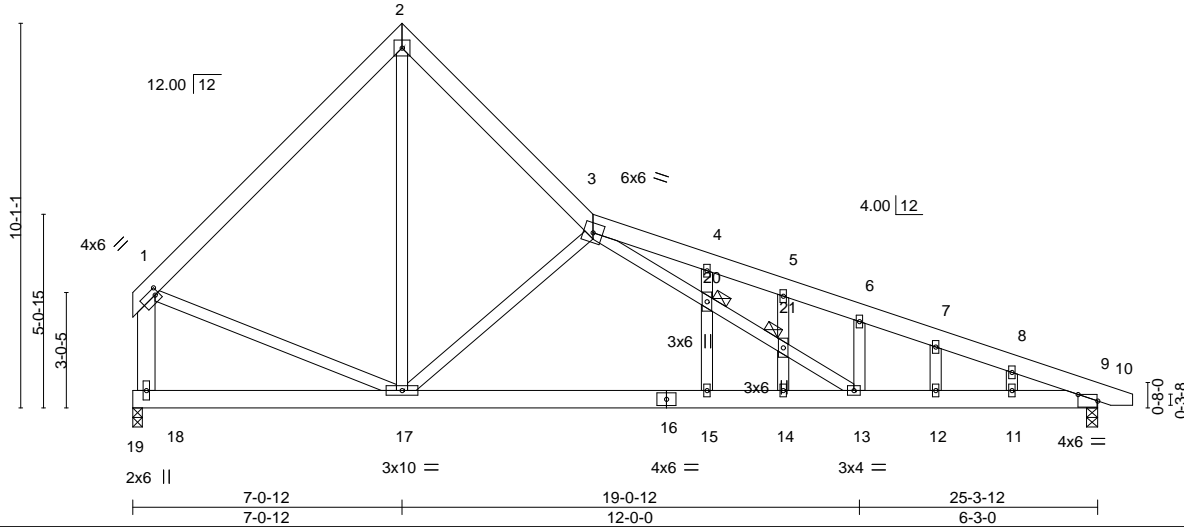


Plate Offsets (X,Y)--	[1:0-1-4,0-2-0], [9:0-6-3,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(LL) -0.08 15 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Vert(CT) -0.17 15 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.03 9 n/a n/a		
			Wind(LL) 0.12 15 >999 240	Weight: 200 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.
WEBS 2x4 SP No.2 *Except*	JOINTS 1 Brace at Jt(s): 20, 21
OTHERS 1-18: 2x6 SP No.1 2x4 SP No.2	

**REACTIONS.** (size) 18=0-3-0, 9=0-3-8  
 Max Horz 18=-401(LC 8)  
 Max Uplift 18=-370(LC 13), 9=-429(LC 13)  
 Max Grav 18=999(LC 1), 9=1040(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-901/495, 2-3=-911/543, 3-4=-2152/1298, 4-5=-2209/1256, 5-6=-2211/1224,  
 6-7=-2169/1148, 7-8=-2195/1114, 8-9=-2274/1097, 1-18=-956/510  
 BOT CHORD 17-18=-173/426, 15-17=-499/1338, 14-15=-499/1338, 13-14=-499/1338, 12-13=-961/2056,  
 11-12=-961/2056, 9-11=-961/2056  
 WEBS 2-17=-407/788, 3-17=-1115/783, 3-20=-565/890, 20-21=-541/838, 13-21=-553/867,  
 1-17=-134/515, 15-20=0/286

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) 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) 18=370, 9=429.



September 14, 2022

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203513
J0822-4265	A4	ATTIC	5	1		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 1

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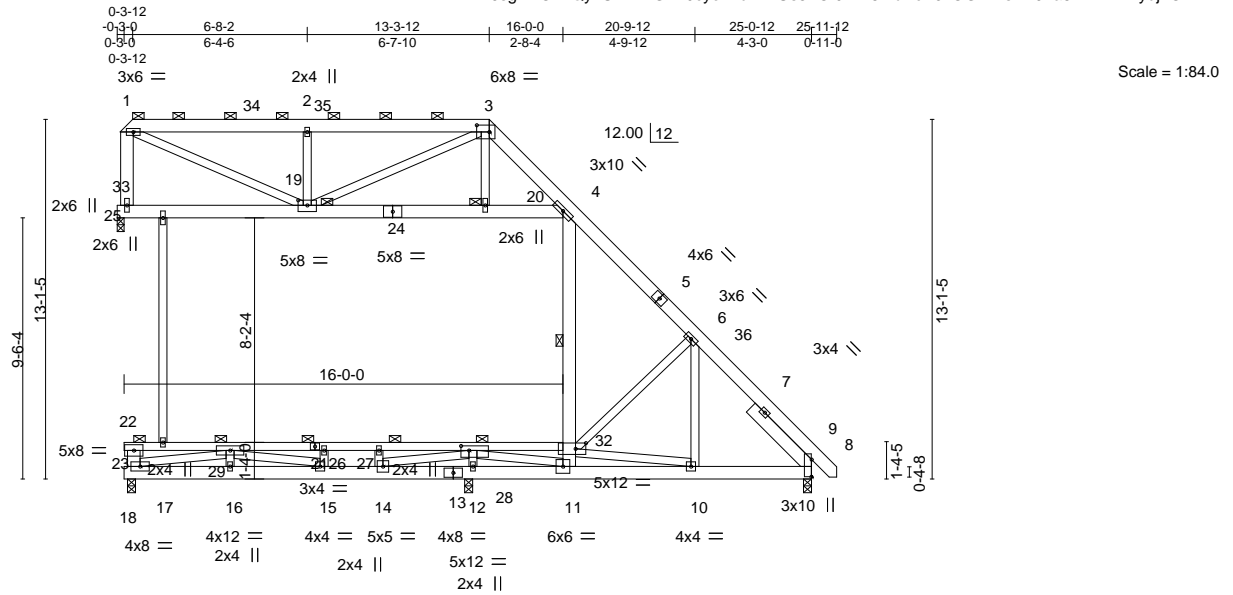


Plate Offsets (X,Y)--	[3:0-5-8,0-3-0], [8:0-7-9,0-0-2], [19:0-4-0,0-2-4], [28:0-3-8,0-2-0], [32:0-4-8,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.07	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.19	15-16	>763		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.75	Horz(CT)	-0.17	25	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12	10-11	>999		
								Weight: 315 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.
WEBS 2x4 SP No.2 *Except* 4-11,17-23,4-24,1-25,24-33: 2x6 SP No.1, 21-22,21-32: 2x4 SP No.1	WEBS 1 Row at midpt 4-11 3-2-0 oc bracing: 23-32
SLIDER Right 2x6 SP No.1 3-1-0	JOINTS 1 Brace at Jt(s): 19, 1, 20, 23

**REACTIONS.** All bearings 0-3-8 except (jt=length) 25=0-3-0.  
 (lb) - Max Horz 17=-547(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 25  
 Max Grav All reactions 250 lb or less at joint(s) except 17=734(LC 3), 8=608(LC 1), 25=648(LC 1), 12=1988(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-908/330, 2-3=-909/328, 3-4=-811/231, 4-6=-404/315, 6-8=-660/0  
 BOT CHORD 16-17=0/2520, 15-16=0/2520, 14-15=0/2229, 12-14=-1722/318, 11-12=-1722/318, 10-11=-999/1711, 8-10=0/386  
 WEBS 1-19=-365/1005, 3-19=-100/407, 11-32=-1232/560, 4-32=-869/533, 23-29=-271/0, 26-29=-1571/0, 26-27=-1549/0, 27-28=-1569/0, 28-32=-2579/1848, 19-20=-240/561, 4-20=-247/557, 1-25=-590/280, 14-28=0/2344, 12-28=-1595/0, 11-28=-1510/3742, 17-29=-1852/0, 15-29=-973/0, 6-32=-892/580, 2-19=-457/357, 6-10=-285/628, 10-32=-1679/1257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=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 13-3-12, Exterior(2) 13-3-12 to 19-6-7, Interior(1) 19-6-7 to 25-10-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25.
  - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 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.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 Continued on page 2



September 14, 2022

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203513
J0822-4265	A4	ATTIC	5	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 2  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOI0Fkz8mdEcNjzOGxhhs?D9ha81RTEDDydj70

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-9=-20, 8-18=-40, 22-32=-90(F), 4-25=-20(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=52, 3-34=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-5=59, 5-8=49, 8-9=-40  
Drag: 2-3=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-35=42, 3-35=52, 3-36=37, 8-36=47, 8-9=78, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-36=49, 8-36=59, 8-9=-90  
Drag: 2-35=0, 3-35=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-49, 8-9=40  
Drag: 2-3=-0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-49, 8-9=-40  
Drag: 2-3=-0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=30, 8-9=-21  
Drag: 2-3=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-1, 8-9=-19  
Drag: 2-3=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=12, 8-9=-21  
Drag: 2-3=0
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-19, 8-9=10  
Drag: 2-3=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=9, 8-9=-18  
Drag: 2-3=0
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203513
J0822-4265	A4	ATTIC	5	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 3  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOI0Fkz8mdEcNjzOGxhhs?D9ha81RTEDDydj70

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=25, 8-9=-34  
Drag: 2-3=0
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=9, 8-9=-16  
Drag: 2-3=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-15, 8-9=8  
Drag: 2-3=0
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=7, 8-9=-14  
Drag: 2-3=0
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=19, 8-9=-26  
Drag: 2-3=0
- 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=52, 3-34=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-5=59, 5-8=49, 8-9=-40  
Drag: 2-3=0
- 29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-35=42, 3-35=52, 3-36=37, 8-36=47, 8-9=78, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-36=49, 8-36=59, 8-9=-90  
Drag: 2-35=0, 3-35=0
- 30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-49, 8-9=40  
Drag: 2-3=0
- 31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-49, 8-9=-40  
Drag: 2-3=0
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=30, 8-9=-21  
Drag: 2-3=0
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-1, 8-9=-19  
Drag: 2-3=0
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	A4	ATTIC	5	1	I54203513
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 4  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOI0Fkz8mdEcNjzOGxhhs?D9ha81RTEDDydj7O

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=12, 8-9=-21  
Drag: 2-3=0
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-19, 8-9=10  
Drag: 2-3=0
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=9, 8-9=-18  
Drag: 2-3=0
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=25, 8-9=-34  
Drag: 2-3=0
- 42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=9, 8-9=-16  
Drag: 2-3=0
- 43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=-15, 8-9=8  
Drag: 2-3=0
- 44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=7, 8-9=-14  
Drag: 2-3=0
- 45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 22-32=-90(F), 4-25=-20(F)  
Horz: 3-8=19, 8-9=-26  
Drag: 2-3=0

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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**

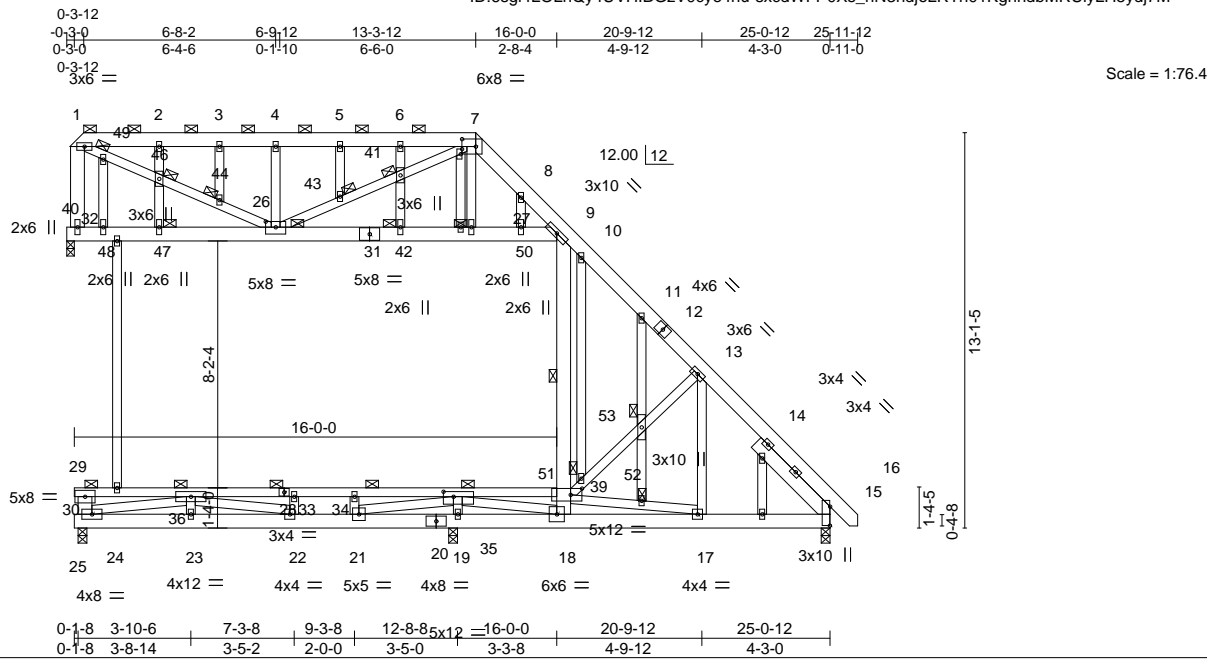


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	154203514
J0822-4265	A4GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:15 2022 Page 1  
ID:6sgI4LOLhQy4UVHIBGzV0cye4nu-sxcdWFP0Xs\_hN3ndjoLRTh01KghhdbMRUlyLH5yj7M



Scale = 1:76.4

Plate Offsets (X,Y)--	[7:0-5-8,0-3-0], [7:0-2-0,0-0-8], [15:0-7-9,0-0-2], [26:0-4-0,0-2-4], [35:0-4-0,0-2-0], [39:0-4-8,0-2-8]
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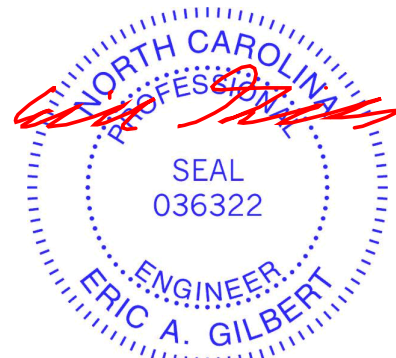
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	Plate Grip DOL 1.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) -0.07 17-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.19 22-23 >762 240		
BCDL 10.0	Rep Stress Incr NO	WB 0.74	Horz(CT) -0.17 32 n/a n/a		
	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12 17-18 >999 240	Weight: 361 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-4-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-18,24-30,9-31,1-32,31-40: 2x6 SP No.1, 28-29,28-39: 2x4 SP No.1	WEBS 1 Row at midpt 9-18 3-2-0 oc bracing: 30-39
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 26, 1, 27, 30, 41, 42, 43, 44, 46, 47, 49, 51, 52, 53
SLIDER Right 2x6 SP No.1 3-5-0	

**REACTIONS.** All bearings 0-3-8 except (jt=length) 32=0-3-0.  
(lb) - Max Horz 24=547(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 32  
Max Grav All reactions 250 lb or less at joint(s) except 24=735(LC 3), 15=618(LC 1), 32=655(LC 1), 19=1969(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-917/401, 2-3=-917/401, 3-4=-917/401, 4-5=-917/401, 5-6=-917/401, 6-7=-919/400, 7-8=-854/375, 8-9=-799/222, 9-10=-254/174, 10-11=-322/235, 11-13=-476/382, 13-15=-677/0  
BOT CHORD 23-24=0/2587, 22-23=0/2587, 21-22=0/2315, 19-21=-1697/390, 18-19=-1697/390, 17-18=-1066/1678, 15-17=0/384  
WEBS 1-49=-460/1056, 46-49=-441/1008, 44-46=-437/997, 26-44=-449/1028, 26-43=-87/377, 41-43=-88/369, 7-41=-87/374, 18-39=-1206/612, 9-39=-650/410, 30-36=-271/0, 33-36=-1594/0, 33-34=-1572/0, 34-35=-1592/0, 35-39=-2538/1991, 26-42=-330/608, 27-42=-330/608, 27-50=-325/597, 9-50=-335/605, 1-32=-635/298, 21-35=0/2342, 19-35=-1582/0, 18-35=-1663/3675, 24-36=-1856/0, 22-36=-963/0, 39-51=-916/673, 51-53=-852/628, 13-53=-893/660, 13-17=-449/792, 39-52=-1638/1325, 17-52=-1690/1366, 52-53=-304/241, 4-26=-409/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-4 to 4-6-1, Exterior(2) 4-6-1 to 13-3-12, Corner(3) 13-3-12 to 17-8-9, Exterior(2) 17-8-9 to 25-10-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide moment-resisting connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32.



September 14, 2022

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



Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203514
J0822-4265	A4GE	GABLE	1	1		
Job Reference (optional)						

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Sep 14 12:30:16 2022 Page 2  
ID:6sgi4L0LhQy4UVHIBGzV0cye4nu-K7A?jbQelA6Y?DMPHWsg0vZC440wM2cajPhvqYydj7L

**NOTES-**

- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-60, 7-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-50, 7-16=-50, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-7=-20, 7-16=-20, 15-25=-40, 29-39=-90(F), 9-32=-20(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=52, 7-15=47, 15-16=38, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=64, 7-15=59, 15-16=-50
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=52, 7-15=47, 15-16=78, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=64, 7-15=59, 15-16=90
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-39, 7-15=-69, 15-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=-19, 7-15=-49, 15-16=40
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-39, 7-15=-69, 15-16=20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=-19, 7-15=-49, 15-16=-40
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=31, 7-15=18, 15-16=9, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=43, 7-15=30, 15-16=-21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=31, 7-15=-13, 15-16=7, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=43, 7-15=-1, 15-16=-19
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=5, 7-15=-8, 15-16=1, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=25, 7-15=12, 15-16=-21
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=5, 7-15=-39, 15-16=-30, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=25, 7-15=-19, 15-16=10
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=27, 15-16=-18
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=43, 15-16=-34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=27, 15-16=-18
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=43, 15-16=-34
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-11, 7-15=-11, 15-16=-2, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=9, 7-15=9, 15-16=-18
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-11, 7-15=5, 15-16=14, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=9, 7-15=25, 15-16=-34
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-7=-20, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	A4GE	GABLE	1	1	I54203514
					Job Reference (optional)

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8.430 s Jan 6 2022 MITek Industries, Inc. Wed Sep 14 12:30:16 2022 Page 3  
ID:6sgi4LlQy4UVHIBGzV0cye4nu-K7A?jbQelA6Y?DMPHWsg0vZC440wM2cajPhvqYydj7L

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-7=-20, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-31, 7-15=-41, 15-16=-34, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=19, 7-15=9, 15-16=-16
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-31, 7-15=-65, 15-16=-58, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=19, 7-15=15, 15-16=8
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-43, 7-15=-43, 15-16=-36, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=7, 7-15=7, 15-16=14
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-43, 7-15=-31, 15-16=-24, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=7, 7-15=19, 15-16=-26
- 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-60, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-60, 7-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-50, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-50, 7-16=-50, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=52, 7-15=47, 15-16=38, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=64, 7-15=59, 15-16=-50
- 29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=52, 7-15=47, 15-16=78, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=64, 7-15=59, 15-16=-90
- 30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-39, 7-15=-69, 15-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=19, 7-15=-49, 15-16=40
- 31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=-39, 7-15=-69, 15-16=20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=19, 7-15=-49, 15-16=-40
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=31, 7-15=18, 15-16=9, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=43, 7-15=30, 15-16=-21
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=31, 7-15=-13, 15-16=7, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=43, 7-15=-1, 15-16=-19
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=5, 7-15=-8, 15-16=1, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=25, 7-15=12, 15-16=-21
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=5, 7-15=-39, 15-16=-30, 15-25=-20, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=25, 7-15=-19, 15-16=10
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=27, 15-16=-18
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=43, 15-16=-34
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)  
Horz: 6-7=27, 7-15=27, 15-16=-18
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

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J0822-4265	A4GE	GABLE	1	1	I54203514
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

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 ID:6sgi4L0LhQy4UVHIBGzV0cye4nu-K7A?jbQelA6Y?DMpHWsg0vZC440wM2cajPhvqYydj7L

**LOAD CASE(S)** Standard

- Uniform Loads (plf)
  - Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
  - Horz: 6-7=27, 7-15=43, 15-16=-34
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-7=-11, 7-15=-11, 15-16=-2, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    - Horz: 6-7=9, 7-15=9, 15-16=-18
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-7=-11, 7-15=5, 15-16=14, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    - Horz: 6-7=9, 7-15=25, 15-16=-34
- 42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-7=-31, 7-15=-41, 15-16=-34, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    - Horz: 6-7=19, 7-15=9, 15-16=-16
- 43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-7=-31, 7-15=-65, 15-16=-58, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    - Horz: 6-7=19, 7-15=-15, 15-16=8
- 44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-7=-43, 7-15=-43, 15-16=-36, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    - Horz: 6-7=7, 7-15=7, 15-16=-14
- 45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-7=-43, 7-15=-31, 15-16=-24, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
    - Horz: 6-7=7, 7-15=19, 15-16=-26

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

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**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 J0822-4265	Truss A5	Truss Type ATTIC	Qty 3	Ply 1	Lot 115 Hidden Lakes Job Reference (optional)	I54203515
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Sep 14 12:30:17 2022 Page 1  
ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-oJkNxxRG3TEPdNx?rDNvY66NoTMy5Viky3RSM\_ydj7K

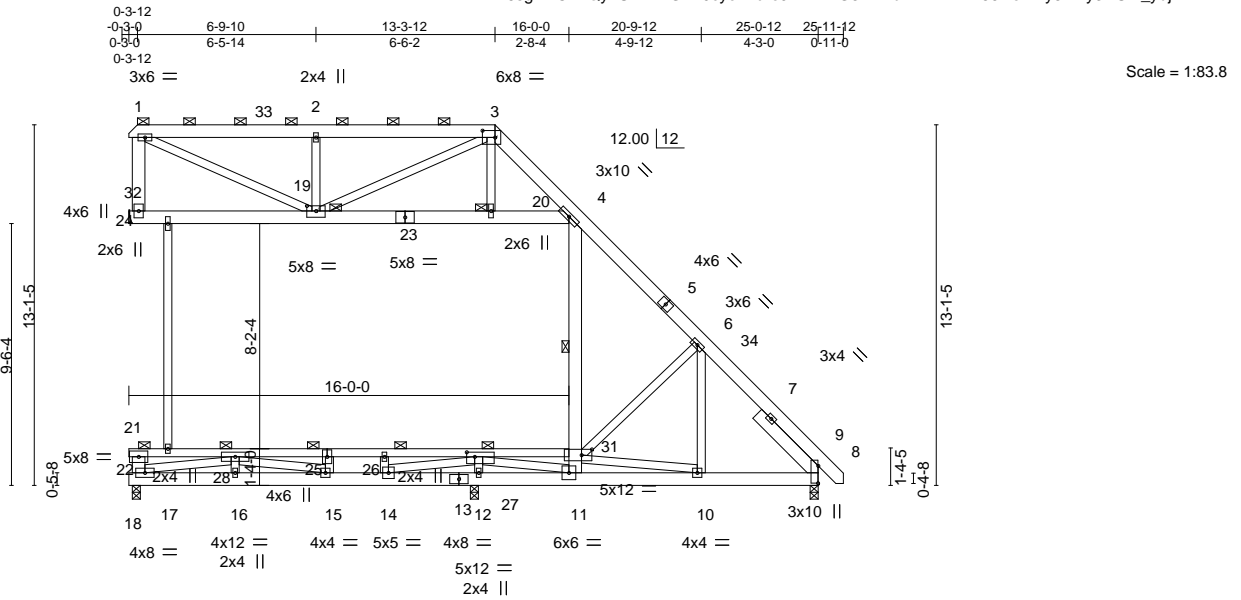


Plate Offsets (X,Y)--	[3:0-5-8,0-3-0], [8:0-7-9,0-0-2], [19:0-4-0,0-2-4], [27:0-3-8,0-2-0], [31:0-4-8,0-2-8]
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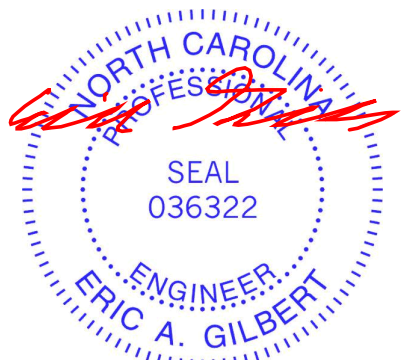
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.07	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.20	15-16	>749		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.75	Horz(CT)	-0.17	24	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12	10-11	>999		
								Weight: 314 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 4-11
SLIDER 4-11,17-22,4-23,1-24,23-32: 2x6 SP No.1, 21-25,25-31: 2x4 SP No.1	3-2-0 oc bracing: 22-31
	JOINTS 1 Brace at Jt(s): 19, 1, 20, 22

**REACTIONS.** All bearings 0-3-8 except (jt=length) 24=Mechanical.  
 (lb) - Max Horz 17=547(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 24  
 Max Grav All reactions 250 lb or less at joint(s) except 17=733(LC 3), 8=605(LC 1), 24=645(LC 1), 12=1981(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-878/325, 2-3=-879/323, 3-4=-795/229, 4-6=-404/315, 6-8=-655/0  
 BOT CHORD 16-17=0/2523, 15-16=0/2523, 14-15=0/2223, 12-14=-1735/303, 11-12=-1735/303, 10-11=-1002/1687, 8-10=0/383  
 WEBS 1-19=-361/976, 3-19=-97/388, 11-31=-1226/557, 4-31=-861/530, 22-28=-270/0, 25-28=-1568/0, 25-26=-1543/0, 26-27=-1563/0, 27-31=-2552/1851, 19-20=-238/549, 4-20=-245/546, 1-24=-581/277, 14-27=0/2354, 12-27=-1595/0, 11-27=-1498/3728, 17-28=-1855/0, 15-28=-974/0, 6-31=-888/581, 2-19=-448/354, 6-10=-286/623, 10-31=-1658/1260

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 13-3-12, Exterior(2) 13-3-12 to 19-6-7, Interior(1) 19-6-7 to 25-10-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
  - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 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.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



September 14, 2022

**LOAD CASE(S)** Standard

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

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203515
J0822-4265	A5	ATTIC	3	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Sep 14 12:30:18 2022 Page 2  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-HWII8HRuqnMGEXWCOxv85KeYYtiBqyytBJA?uQyjd7J

### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-9=-20, 8-18=-40, 21-31=-90(F), 4-32=-20(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=52, 3-33=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-5=59, 5-8=49, 8-9=-40  
Drag: 2-3=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=42, 2-3=52, 3-34=37, 8-34=47, 8-9=78, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-34=49, 8-34=59, 8-9=-90  
Drag: 2-3=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-49, 8-9=40  
Drag: 2-3=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-49, 8-9=-40  
Drag: 2-3=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=30, 8-9=-21  
Drag: 2-3=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-1, 8-9=-19  
Drag: 2-3=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=12, 8-9=-21  
Drag: 2-3=0
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-19, 8-9=10  
Drag: 2-3=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=9, 8-9=-18  
Drag: 2-3=0
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203515
J0822-4265	A5	ATTIC	3	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:18 2022 Page 3  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-HWII8HRuqnMGEXWCOxv85KeYYtiBqyytBJA?uQyjd7J

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=25, 8-9=-34  
Drag: 2-3=0
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=9, 8-9=-16  
Drag: 2-3=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-15, 8-9=8  
Drag: 2-3=0
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=7, 8-9=-14  
Drag: 2-3=0
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=19, 8-9=-26  
Drag: 2-3=0
- 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=52, 3-33=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-5=59, 5-8=49, 8-9=-40  
Drag: 2-3=0
- 29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=42, 2-3=52, 3-34=37, 8-34=47, 8-9=78, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-34=49, 8-34=59, 8-9=-90  
Drag: 2-3=0
- 30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-49, 8-9=40  
Drag: 2-3=0
- 31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-49, 8-9=-40  
Drag: 2-3=0
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=30, 8-9=-21  
Drag: 2-3=0
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-1, 8-9=-19  
Drag: 2-3=0
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203515
J0822-4265	A5	ATTIC	3	1		
						Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:18 2022 Page 4  
ID:6sgl4LOLhQy4UVHIBGzV0cye4nu-HWII8HRuqnMGEXWCOxv85KeYYtiBqyytBJA?uQyjd7J

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-3=5, 3-8=8, 8-9=1, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=12, 8-9=-21  
Drag: 2-3=0
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-19, 8-9=10  
Drag: 2-3=0
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=27, 8-9=-18  
Drag: 2-3=0
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=43, 8-9=-34  
Drag: 2-3=0
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=9, 8-9=-18  
Drag: 2-3=0
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=25, 8-9=-34  
Drag: 2-3=0
- 42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=9, 8-9=-16  
Drag: 2-3=0
- 43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=-15, 8-9=8  
Drag: 2-3=0
- 44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=7, 8-9=-14  
Drag: 2-3=0
- 45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 21-31=-90(F), 4-32=-20(F)  
Horz: 3-8=19, 8-9=-26  
Drag: 2-3=0

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

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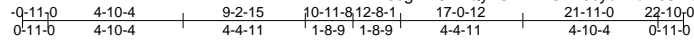
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203516
J0822-4265	B1	ATTIC	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Sep 14 12:30:19 2022 Page 1

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6x8 =

Scale = 1:82.8

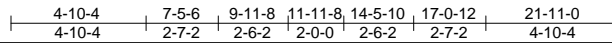
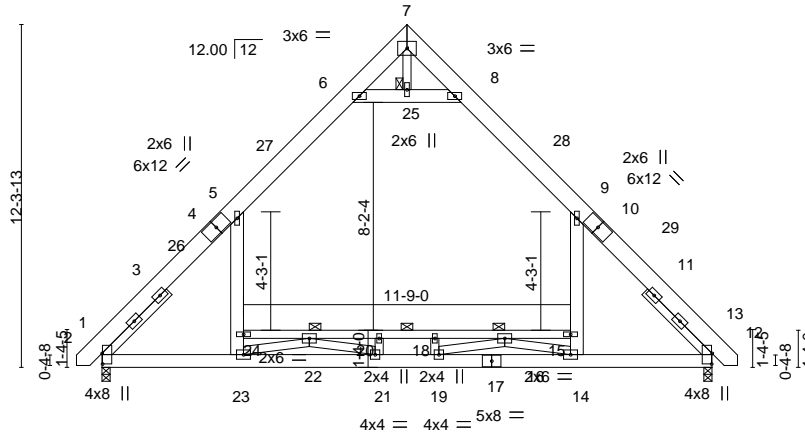


Plate Offsets (X,Y)--	[2:0-4-9,0-0-3], [12:0-4-9,0-0-3]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.18 19-21 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.35 18-20 >743 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.04 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 21-23 >999 240		
				Weight: 235 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x8 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 15-24: 2x4 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 9-14,5-23,6-8: 2x6 SP No.1  
 SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

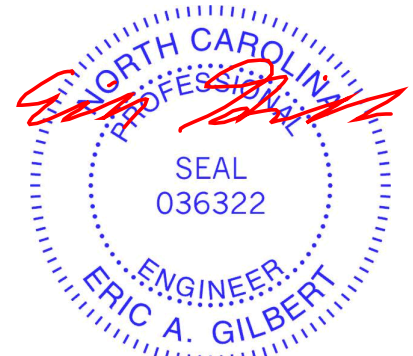
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 3-9-0 oc bracing: 16-22  
 6-0-0 oc bracing: 22-24, 15-16  
**JOINTS**  
 1 Brace at Jt(s): 25, 16, 22

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=372(LC 9)  
 Max Grav 2=1606(LC 21), 12=1606(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-5=-1910/6, 5-6=-1054/266, 6-7=-71/499, 7-8=-71/498, 8-9=-1055/266, 9-12=-1911/6  
 BOT CHORD 2-23=0/1167, 21-23=0/2844, 19-21=0/3367, 14-19=0/2649, 12-14=0/1078,  
 22-24=-460/330, 20-22=-2538/0, 18-20=-2538/0, 16-18=-2538/0, 15-16=-482/351  
 WEBS 14-15=0/797, 9-15=0/977, 23-24=0/797, 5-24=0/977, 6-25=-1802/438, 8-25=-1802/438,  
 18-19=-254/7, 20-21=-253/5, 16-19=0/840, 14-16=-1777/0, 21-22=0/841, 22-23=-1777/0

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 3-8-11, Interior(1) 3-8-11 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 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.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s). 9-15, 5-24
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 16-18, 15-16
- 8) Attic room checked for L/360 deflection.



September 14, 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

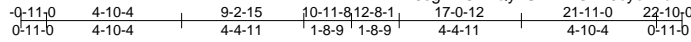


Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203517
J0822-4265	B1GE	ATTIC	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:20 2022 Page 1

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6x8 =

Scale = 1:82.8

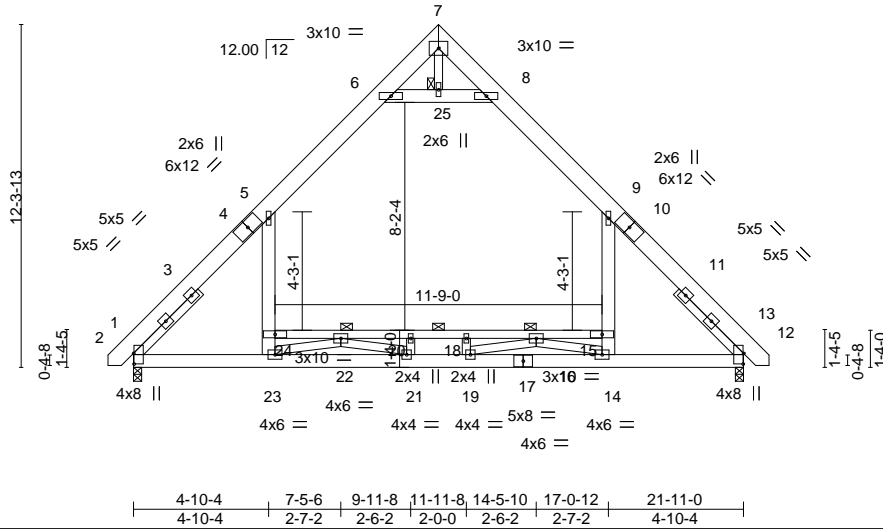


Plate Offsets (X,Y)--	[2:0-4-9,0-0-3], [12:0-4-9,0-0-3]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.18 19-21 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.35 18-20 >743 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.04 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 21-23 >999 240	Weight: 235 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 15-24: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-9-0 oc bracing: 16-22 6-0-0 oc bracing: 22-24, 15-16
WEBS 2x4 SP No.2 *Except* 9-14,5-23,6-8: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 25, 16, 22
SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10	

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=465(LC 9)  
 Max Uplift 2=-26(LC 13), 12=-26(LC 12)  
 Max Grav 2=1597(LC 21), 12=1597(LC 20)

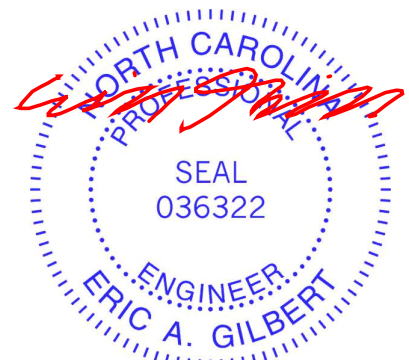
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-1922/50, 5-6=-1061/309, 6-7=-115/511, 7-8=-114/510, 8-9=-1063/309, 9-12=-1922/50

BOT CHORD 2-23=-17/1211, 21-23=0/2908, 19-21=0/3367, 14-19=0/2649, 12-14=0/1099, 22-24=-539/433, 20-22=-2538/0, 18-20=-2538/0, 16-18=-2538/0, 15-16=-566/451

WEBS 14-15=0/797, 9-15=0/977, 23-24=0/797, 5-24=0/977, 6-25=-1802/571, 8-25=-1802/571, 18-19=-265/22, 20-21=-263/19, 16-19=-46/879, 14-16=-1777/0, 21-22=-47/880, 22-23=-1777/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s).9-15, 5-24
  - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 16-18, 15-16
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
  - 8) Attic room checked for L/360 deflection.



September 14, 2022

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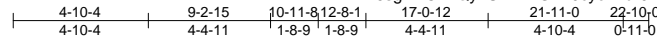
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203518
J0822-4265	B2	ATTIC	3	1		
Comtech, Inc. Fayetteville, NC - 28314,						Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:22 2022 Page 1



6x8 =

Scale = 1:82.8

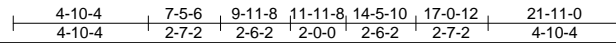
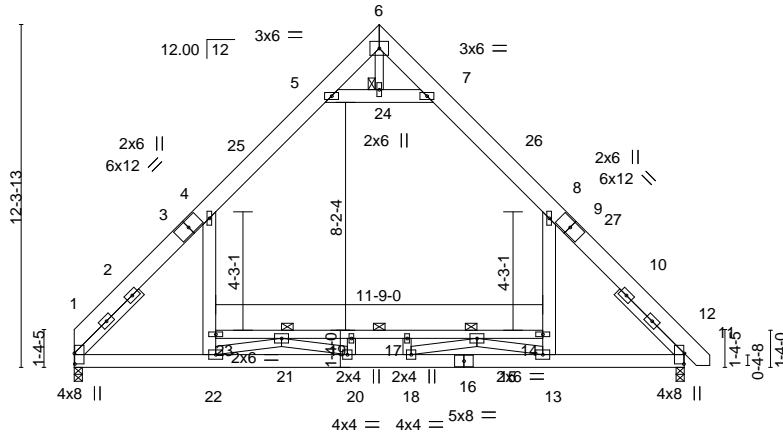


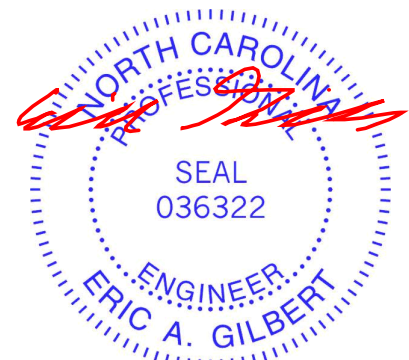
Plate Offsets (X,Y)--	[1:0-4-9,0-0-3], [11:0-4-9,0-0-3]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL 1.15		TC 0.78	Vert(LL) -0.18	18-20	>999	360
TCDL 10.0	Lumber DOL 1.15		BC 0.96	Vert(CT) -0.35	17-19	>743	240
BCLL 0.0 *	Rep Stress Incr YES		WB 0.31	Horz(CT) 0.04	11	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.10	20-22	>999	240
							Weight: 232 lb FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD 2x8 SP No.1		TOP CHORD	Structural wood sheathing directly applied or 4-9-4 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 14-23: 2x4 SP No.1		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-9-0 oc bracing: 15-21 6-0-0 oc bracing: 21-23, 14-15
WEBS 2x4 SP No.2 *Except* 8-13,4-22,5-7: 2x6 SP No.1		JOINTS	1 Brace at Jt(s): 24, 15, 21
SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10			

**REACTIONS.** (size) 1=0-3-8, 11=0-3-8  
 Max Horz 1=373(LC 9)  
 Max Grav 1=1582(LC 21), 11=1606(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-4=-1908/6, 4-5=-1054/268, 5-6=-72/500, 6-7=-74/498, 7-8=-1056/266, 8-11=-1912/6  
 BOT CHORD 1-22=0/1169, 20-22=0/2849, 18-20=0/3369, 13-18=0/2650, 11-13=0/1078,  
 21-23=-462/330, 19-21=-2540/0, 17-19=-2540/0, 15-17=-2540/0, 14-15=-482/351  
 WEBS 13-14=0/798, 8-14=0/977, 22-23=0/794, 4-23=0/974, 5-24=-1804/446, 7-24=-1804/446,  
 17-18=-255/8, 19-20=-252/5, 15-18=0/843, 13-15=-1778/0, 20-21=0/841, 21-22=-1778/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 4x6 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.
  - 6) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-24, 7-24; Wall dead load (5.0psf) on member(s). 8-14, 4-23
  - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 14-15
  - 8) Attic room checked for L/360 deflection.



September 14, 2022

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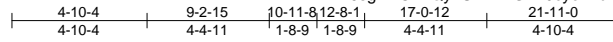
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	B3	ATTIC	6	1	I54203519

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:23 2022 Page 1

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6x8 =

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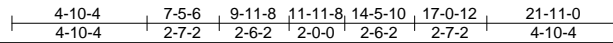
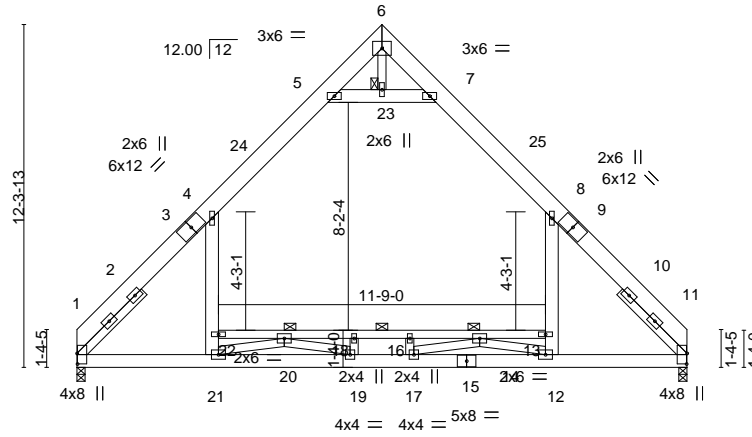


Plate Offsets (X,Y)--	[1:0-4-9,0-0-3], [11:0-4-9,0-0-3]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.18 17-19 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.35 16-18 >742 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.04 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 19-21 >999 240		
				Weight: 229 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x8 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-8-15 oc purlins.
BOT CHORD	2x6 SP No.1 *Except* 13-22: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-9-0 oc bracing: 14-20 6-0-0 oc bracing: 20-22, 13-14
WEBS	2x4 SP No.2 *Except* 8-12,4-21,5-7: 2x6 SP No.1	JOINTS	1 Brace at Jt(s): 23, 14, 20
SLIDER	Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10		

**REACTIONS.** (size) 1=0-3-8, 11=0-3-8  
 Max Horz 1=-372(LC 8)  
 Max Grav 1=1583(LC 21), 11=1583(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-4=-1909/7, 4-5=-1054/268, 5-6=-75/500, 6-7=-75/499, 7-8=-1056/268, 8-11=-1910/7  
 BOT CHORD 1-21=0/1169, 19-21=0/2850, 17-19=0/3371, 12-17=0/2652, 11-12=0/1079,  
 20-22=-462/330, 18-20=-254/0, 16-18=-254/0, 14-16=-254/0, 13-14=-484/352  
 WEBS 12-13=0/795, 8-13=0/974, 21-22=0/795, 4-22=0/974, 5-23=-1804/447, 7-23=-1804/447,  
 16-17=-254/8, 18-19=-253/5, 14-17=0/843, 12-14=-1779/0, 19-20=0/843, 20-21=-1779/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 21-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 4x6 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.
  - 6) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-23, 7-23; Wall dead load (5.0psf) on member(s). 8-13, 4-22
  - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20, 16-18, 14-16, 13-14
  - 8) Attic room checked for L/360 deflection.



September 14, 2022

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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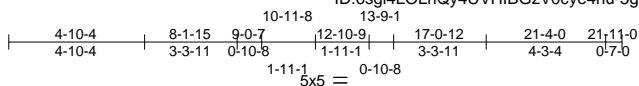
Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	B3-GR	ATTIC GIRDER	1	2	I54203520

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:24 2022 Page 1

ID:6sgI4LOLhQy4UVHIBGzV0cye4nu-5gf1PKWfQd7PySzLiB?ZKbuXSipeEgHmZfeK64ydj7D

Job Reference (optional)



Scale = 1:82.3

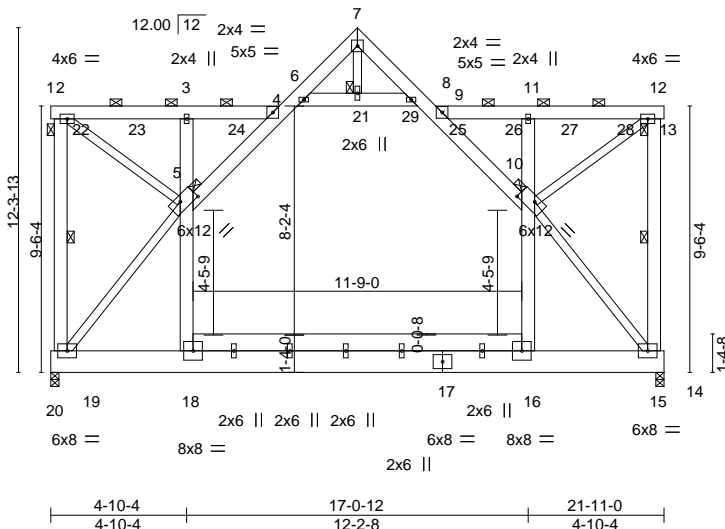


Plate Offsets (X,Y)--	[5:0-7-0,0-3-12], [10:0-7-0,0-3-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.06 16-18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.12 16-18 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76	Horz(CT) 0.02 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 16-18 >999 240		
				Weight: 652 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x10 SP No.1 \*Except\*  
16-18: 2x8 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
5-19,10-15,7-21,10-12,2-5: 2x4 SP No.2

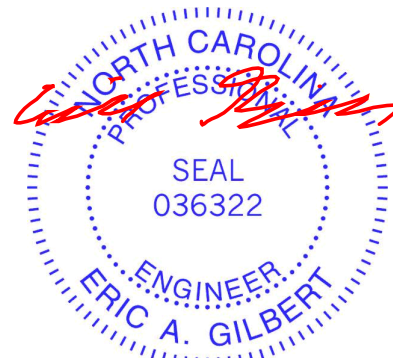
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4, 4-5, 9-10, 9-13.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 2-19, 12-15  
JOINTS 1 Brace at Jt(s): 2, 12, 5, 10, 21

**REACTIONS.** (size) 19=0-3-8, 15=0-3-8  
Max Horz 19=-86(LC 6)  
Max Grav 19=5394(LC 1), 15=4366(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-19=-2094/386, 2-3=-1386/123, 3-4=-1379/143, 4-5=-2562/0, 4-6=-2760/0, 6-7=-563/0, 7-8=-692/0, 8-9=-2609/0, 9-10=-2297/0, 9-11=-1090/0, 11-12=-1102/0, 12-15=-1295/0  
BOT CHORD 18-19=0/2634, 16-18=0/2639, 15-16=0/2631  
WEBS 5-19=-4198/0, 5-18=-20/1000, 3-5=-2599/147, 6-21=-2388/0, 8-21=-2388/0, 10-16=0/1160, 10-11=-1517/0, 10-15=-4216/0, 7-21=0/701, 10-12=0/1326, 2-5=-143/1653

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 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, Except member 6-8 2x6 - 2 rows staggered at 0-7-0 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=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-6, 8-9, 9-11, 6-21, 8-21; Wall dead load (5.0psf) on member(s).5-18, 3-5, 10-16, 10-11
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
  - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 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	Lot 115 Hidden Lakes
J0822-4265	B3-GR	ATTIC GIRDER	1	2	I54203520

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 2  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxFGacYyJvXotoRiCi9tz7XvoJNteWydj7C

**NOTES-**

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 960 lb down and 205 lb up at 0-11-4, and 959 lb down and 208 lb up at 2-11-4, and 959 lb down and 208 lb up at 4-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-6=-80, 6-7=-60, 7-8=-60, 8-9=-80, 9-11=-80, 11-12=-60, 12-13=-60, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-919(F) 6=-970(F) 21=-485(F) 22=-921(F) 23=-919(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-6=-70, 6-7=-50, 7-8=-50, 8-9=-70, 9-11=-70, 11-12=-50, 12-13=-50, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-805(F) 6=-970(F) 21=-485(F) 22=-807(F) 23=-805(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 14-20=-40, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-718(F) 6=-970(F) 21=-485(F) 22=-720(F) 23=-718(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=52, 2-3=31, 3-4=19, 4-6=-25, 6-7=-13, 7-8=18, 8-9=6, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=1, 7-9=30  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=155(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=6, 6-7=18, 7-8=-13, 8-9=-25, 9-11=19, 11-12=31, 12-13=52, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-30, 7-9=-1  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-59, 6-7=-39, 7-8=-8, 8-9=-28, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=19, 7-9=12  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=192(F) 6=-970(F) 21=-485(F) 22=190(F) 23=192(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-28, 6-7=-8, 7-8=-39, 8-9=-59, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=-12, 7-9=-19  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=208(F) 6=-970(F) 21=-485(F) 22=205(F) 23=208(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-43, 7-9=27  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=160(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-27, 7-9=43  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203520
J0822-4265	B3-GR	ATTIC GIRDER	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 3  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxFGacYYJvXotoRiCi9tz7XvoJNteWydj7C

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-43, 7-9=27  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=160(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-27, 7-9=43  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-15, 6-7=5, 7-8=-11, 8-9=-31, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=-25, 7-9=9  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=192(F) 6=-970(F) 21=-485(F) 22=190(F) 23=192(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-31, 6-7=-11, 7-8=5, 8-9=-15, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=-9, 7-9=25  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=208(F) 6=-970(F) 21=-485(F) 22=205(F) 23=208(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-120, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-463(F) 6=-970(F) 21=-485(F) 22=-464(F) 23=-463(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 15) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-120, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-463(F) 6=-970(F) 21=-485(F) 22=-464(F) 23=-463(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-85, 6-7=-65, 7-8=-41, 8-9=-61, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=15, 7-9=9  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=78(F) 6=-970(F) 21=-485(F) 22=76(F) 23=78(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-61, 6-7=-41, 7-8=-65, 8-9=-85, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=-9, 7-9=-15  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=90(F) 6=-970(F) 21=-485(F) 22=88(F) 23=90(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-51, 6-7=-31, 7-8=-43, 8-9=-63, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=-19, 7-9=7  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=78(F) 6=-970(F) 21=-485(F) 22=76(F) 23=78(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-63, 6-7=-43, 7-8=-31, 8-9=-51, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=-7, 7-9=19  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=90(F) 6=-970(F) 21=-485(F) 22=88(F) 23=90(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

Continued on page 4

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

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	B3-GR	ATTIC GIRDER	1	<b>2</b>	I54203520
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 4  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHbXFGacYYJvXotoRiCi9tz7XvoJNteWydj7C

**LOAD CASE(S)** Standard

- 20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-6=-80, 6-7=-60, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-919(F) 6=-970(F) 21=-485(F) 22=-921(F) 23=-919(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-60, 8-9=-80, 9-11=-80, 11-12=-60, 12-13=-60, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-959(F) 6=-970(F) 21=-485(F) 22=-960(F) 23=-959(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-6=-70, 6-7=-50, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-805(F) 6=-970(F) 21=-485(F) 22=-807(F) 23=-805(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-50, 8-9=-70, 9-11=-70, 11-12=-50, 12-13=-50, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-835(F) 6=-970(F) 21=-485(F) 22=-836(F) 23=-835(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=52, 2-3=31, 3-4=19, 4-6=-25, 6-7=-13, 7-8=18, 8-9=6, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=1, 7-9=30  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-530(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=6, 6-7=18, 7-8=-13, 8-9=-25, 9-11=19, 11-12=31, 12-13=52, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=30, 7-9=-1  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-59, 6-7=-39, 7-8=-8, 8-9=-28, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=19, 7-9=12  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-493(F) 6=-970(F) 21=-485(F) 22=-495(F) 23=-493(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-28, 6-7=-8, 7-8=-39, 8-9=-59, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=-12, 7-9=-19  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-477(F) 6=-970(F) 21=-485(F) 22=-479(F) 23=-477(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-43, 7-9=27  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-525(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-27, 7-9=43  
Drag: 3-18=-10, 11-16=-10  
Concentrated Loads (lb)  
Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	B3-GR	ATTIC GIRDER	1	2	I54203520
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 5  
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxFGacYYJvXotoRiCi9tz7XvoJNteWydj7C

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-43, 7-9=27  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-525(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12  
Horz: 4-7=-27, 7-9=43  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-15, 6-7=5, 7-8=-11, 8-9=-31, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=-25, 7-9=9  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-493(F) 6=-970(F) 21=-485(F) 22=-495(F) 23=-493(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-31, 6-7=-11, 7-8=5, 8-9=-15, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20  
Horz: 4-7=-9, 7-9=25  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-477(F) 6=-970(F) 21=-485(F) 22=-479(F) 23=-477(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-85, 6-7=-65, 7-8=-41, 8-9=-61, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=15, 7-9=9  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-734(F) 6=-970(F) 21=-485(F) 22=-737(F) 23=-734(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-61, 6-7=-41, 7-8=-65, 8-9=-85, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=-9, 7-9=15  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-722(F) 6=-970(F) 21=-485(F) 22=-725(F) 23=-722(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-51, 6-7=-31, 7-8=-43, 8-9=-63, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=-19, 7-9=7  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-734(F) 6=-970(F) 21=-485(F) 22=-737(F) 23=-734(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)  
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-63, 6-7=-43, 7-8=-31, 8-9=-51, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20  
Horz: 4-7=-7, 7-9=19  
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)  
Vert: 3=-722(F) 6=-970(F) 21=-485(F) 22=-725(F) 23=-722(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

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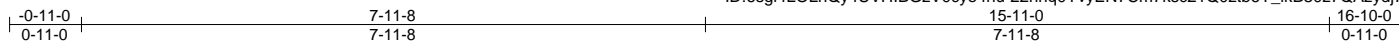
818 Soundside Road  
Edenton, NC 27932



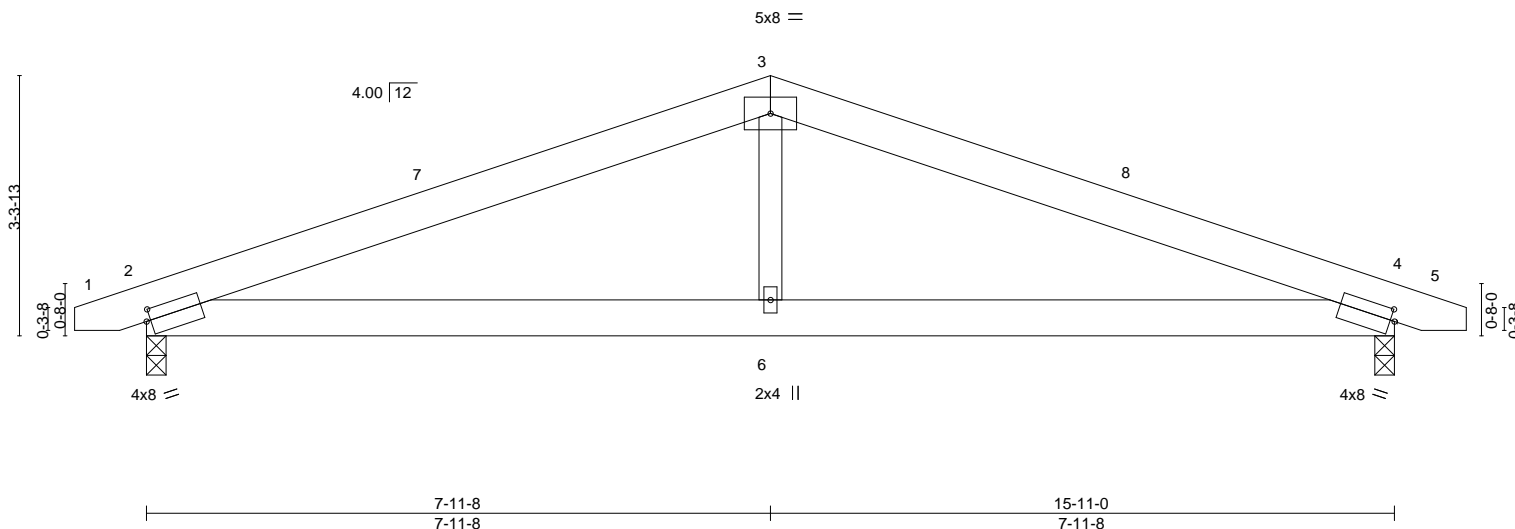
Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203521
J0822-4265	C1	COMMON	5	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:26 2022 Page 1  
 ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-22nnq0YvyEN7Cm7ksc21Q0ztb6Y\_ikB30z7QAzyd7B



Scale = 1:29.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) 0.10 4-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) -0.06 4-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.02 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 85 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-3-11 oc bracing.

**REACTIONS.** (size) 2=0-3-0, 4=0-3-0  
 Max Horz 2=-46(LC 13)  
 Max Uplift 2=-400(LC 8), 4=-400(LC 9)  
 Max Grav 2=672(LC 1), 4=672(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1126/1598, 3-4=-1126/1590  
 BOT CHORD 2-6=-1395/986, 4-6=-1395/986  
 WEBS 3-6=-656/375

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 7-11-8, Exterior(2) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-6-9 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=400, 4=400.



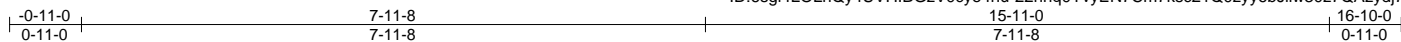
September 14, 2022

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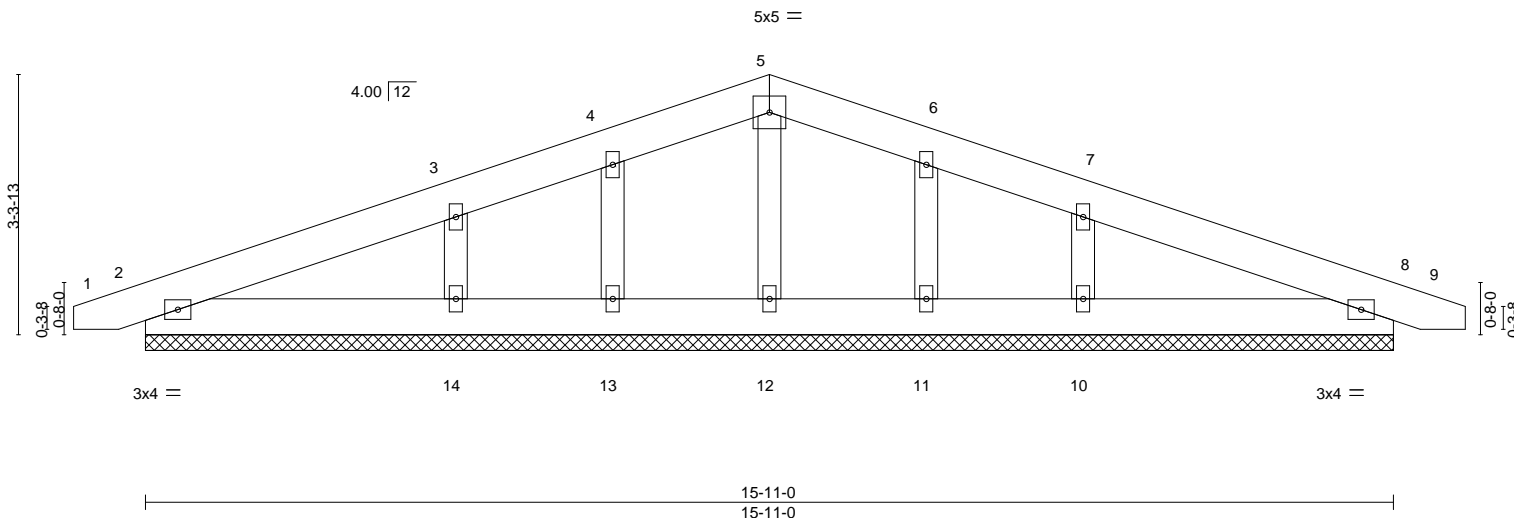


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203522
J0822-4265	C1GE	COMMON SUPPORTED GAB	1	1		
Comtech, Inc. Fayetteville, NC - 28314,						8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:26 2022 Page 1
						ID:6sgI4LOLhQy4UVHIBGzV0cye4nu-22nnq0YvyEN7Cm7ksc21Q0zyy6bJilw30z7QAzyd7B
						Job Reference (optional)



Scale = 1:29.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	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 0.04	Vert(CT) 0.00 9 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 93 lb	FT = 20%

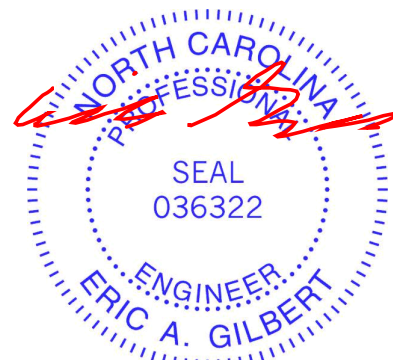
**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2

**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 15-11-0.  
(lb) - Max Horz 2=77(LC 16)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 13, 11 except 8=106(LC 9), 14=182(LC 12), 10=181(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11 except 14=313(LC 23), 10=313(LC 24)

**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=150mph Vasd=119mph; 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 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 13, 11 except (jt=lb) 8=106, 14=182, 10=181.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.



September 14, 2022

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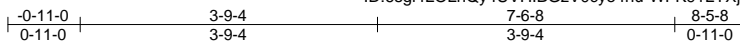
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203523
J0822-4265	D1	COMMON	3	1		

Comtech, Inc. Fayetteville, NC - 28314,

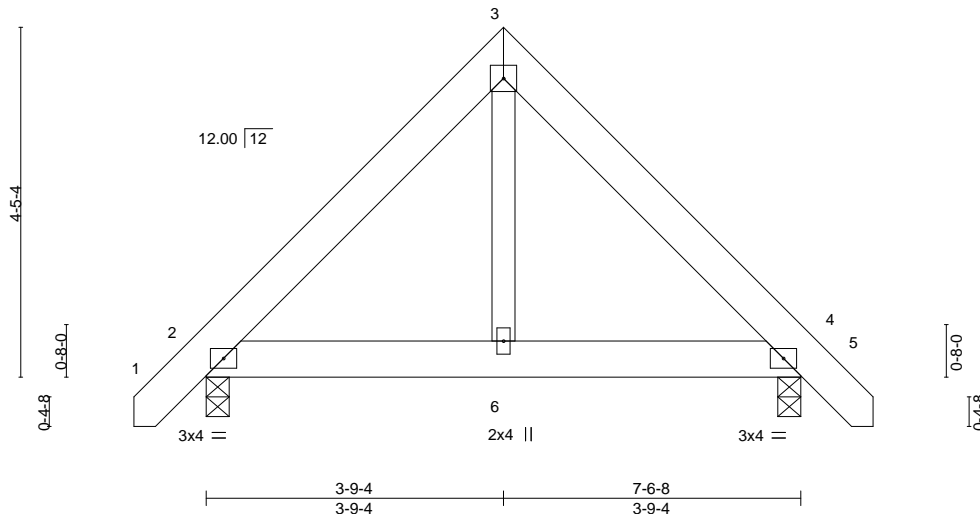
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:27 2022 Page 1

ID:6sgi4LOLhQy4UVHIBGzV0cye4nu-WFK91LYXjYV\_pwiwQJZGyDW5QVxNRCDfcs\_iPydj7A



4x4 =

Scale = 1:29.2



<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 0.13	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	-0.00	6	>999	Weight: 55 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 2=0-3-8, 4=0-3-8  
 Max Horz 2=-145(LC 10)  
 Max Uplift 2=-61(LC 12), 4=-61(LC 13)  
 Max Grav 2=346(LC 1), 4=346(LC 1)

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

TOP CHORD 2-3=-285/104, 3-4=-284/105

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



September 14, 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



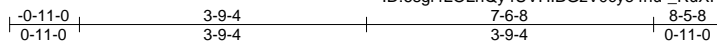
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203524
J0822-4265	D1GE	GABLE	1	1		

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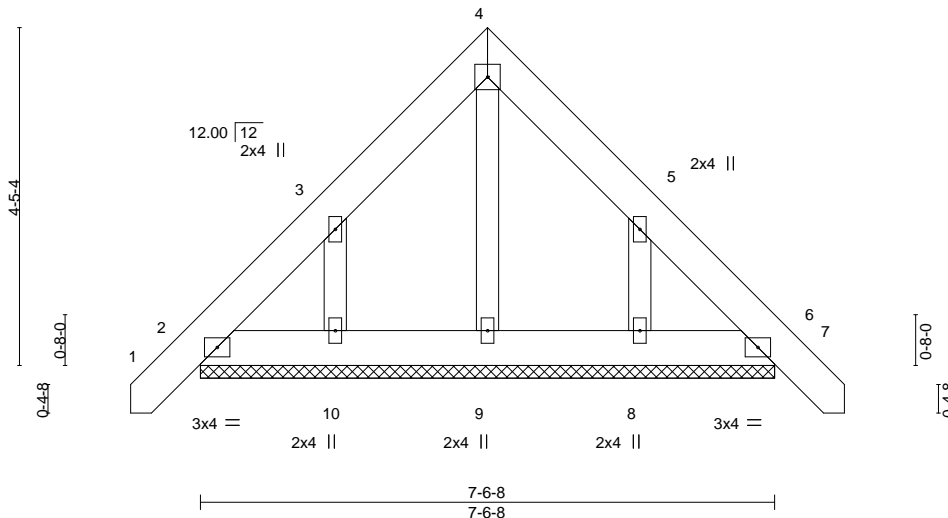
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:28 2022 Page 1

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4x4 =

Scale = 1:30.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	-0.00	6	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	6	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 59 lb	FT = 20%

**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 7-6-8.  
 (lb) - Max Horz 2=-182(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-218(LC 12), 8=-215(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-10=-299/255, 5-8=-300/255

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable 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 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=218, 8=215.



September 14, 2022

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

Job J0822-4265	Truss M1	Truss Type MONOPITCH	Qty 3	Ply 1	Lot 115 Hidden Lakes Job Reference (optional)	I54203525
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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:29 2022 Page 1  
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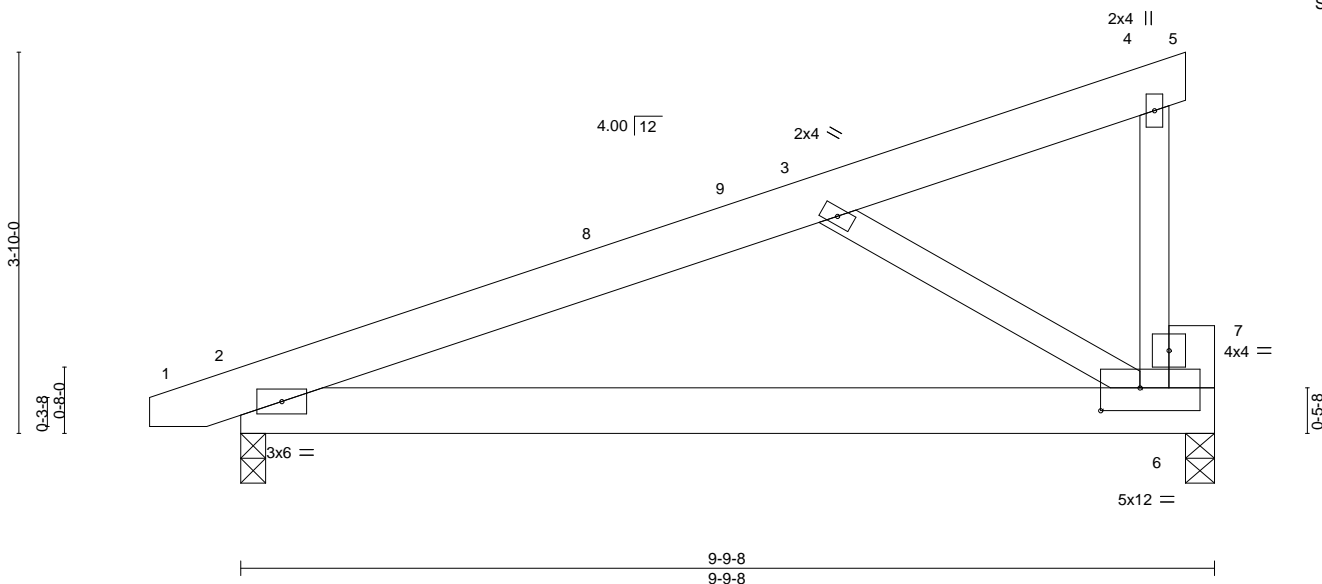


Plate Offsets (X,Y)--	[6:0-4-12,0-2-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) 0.17 2-6 >633 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.12 2-6 >942 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 60 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
OTHERS 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 8-9-15 oc bracing.

**REACTIONS.** (size) 6=0-3-8, 2=0-3-0  
Max Horz 2=146(LC 8)  
Max Uplift 6=-253(LC 8), 2=-240(LC 8)  
Max Grav 6=377(LC 1), 2=415(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-449/365  
BOT CHORD 2-6=-518/386  
WEBS 3-6=-410/485

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 9-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=253, 2=240.



September 14, 2022

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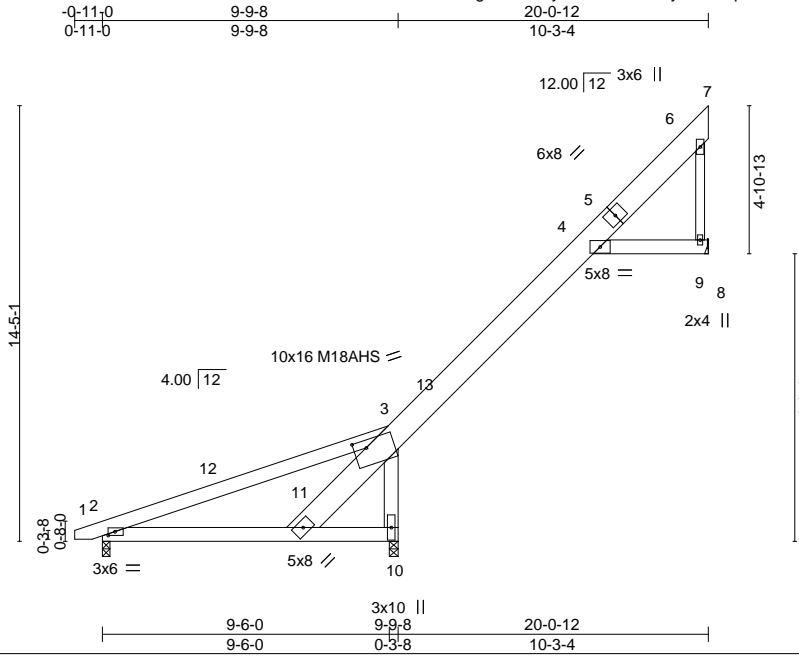


818 Soundside Road  
Edenton, NC 27932

Job J0822-4265	Truss M2	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 115 Hidden Lakes Job Reference (optional)	I54203526
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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:30 2022 Page 1  
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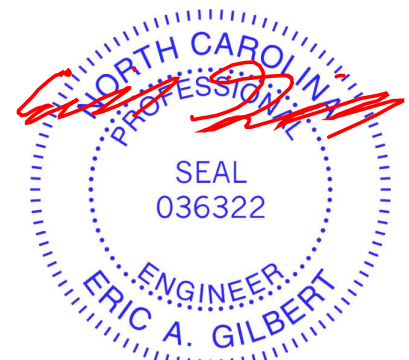
Plate Offsets (X,Y)--	[2:0-2-11,0-1-8], [3:0-5-0,0-3-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.04 4 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.07 4 >999 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.10 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 4 >999 240	Weight: 146 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x10 SP No.1 *Except* 1-3: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-9: 2x4 SP No.2	

**REACTIONS.** (size) 9=Mechanical, 2=0-3-0, 10=0-3-8  
Max Horz 2=589(LC 12)  
Max Uplift 9=-295(LC 12), 2=-271(LC 8), 10=-317(LC 12)  
Max Grav 9=409(LC 19), 2=354(LC 1), 10=830(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-751/772, 3-11=-496/321, 3-4=-424/307, 4-6=-293/308, 6-9=-483/386  
BOT CHORD 2-11=-317/230  
WEBS 3-10=-830/710

- NOTES-**
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 20-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=295, 2=271, 10=317.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



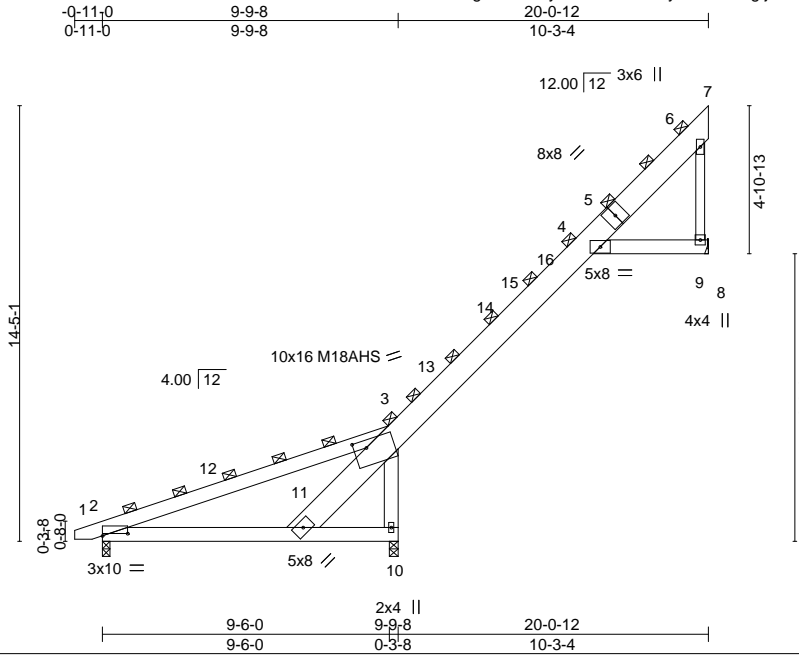
September 14, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203527
J0822-4265	M2-GR	ROOF SPECIAL	1	2		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 1

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Scale = 1:76.3

Plate Offsets (X,Y)-- [2:0-10-0,0-0-14], [3:0-5-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) -0.05 4 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.16 4 >779 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.20 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 4 >999 240	Weight: 292 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x10 SP No.1 \*Except\*  
 1-3: 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 6-9: 2x4 SP No.2

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-8-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 2-11.

**REACTIONS.**

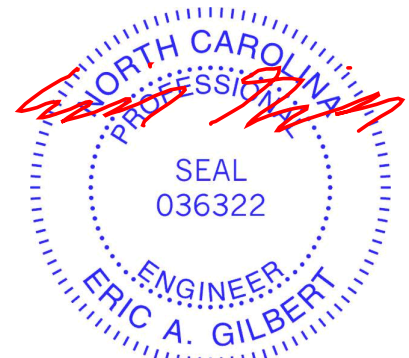
(size) 9=Mechanical, 2=0-3-0, 10=0-3-8  
 Max Horz 2=1473(LC 12)  
 Max Uplift 9=505(LC 12), 2=469(LC 8)  
 Max Grav 9=1252(LC 19), 2=747(LC 1), 10=3019(LC 1)

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

TOP CHORD 2-3=-1805/2216, 3-11=-409/472, 3-4=-1620/925, 4-6=-589/894, 6-9=-1398/778  
 BOT CHORD 2-11=-644/148  
 WEBS 3-10=-3135/73

**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, 2x10 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 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.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 20-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=505, 2=469.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 346 lb down at 11-6-0, and 346 lb down at 13-6-0, and 346 lb down at 14-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.



September 14, 2022

**LOAD CASE(S) Standard**

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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	Lot 115 Hidden Lakes
J0822-4265	M2-GR	ROOF SPECIAL	1	2	I54203527
					Job Reference (optional)

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 2  
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**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-150, 3-6=-150, 6-7=-150, 2-10=-50, 4-8=-50  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-125, 3-6=-125, 6-7=-125, 2-10=-50, 4-8=-50  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-6=-50, 6-7=-50, 2-10=-100, 4-8=-100  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=244, 2-12=142, 3-12=92, 3-6=92, 6-7=194, 2-10=-30, 4-8=-30  
Horz: 1-2=-274, 2-12=-172, 3-12=-122, 3-6=-122, 6-7=-224  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=70, 2-3=92, 3-16=92, 6-16=117, 6-7=95, 2-10=-30, 4-8=-30  
Horz: 1-2=-100, 2-3=-122, 3-16=-122, 6-16=-147, 6-7=-125  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-13, 2-3=-110, 3-6=-172, 6-7=50, 2-10=-50, 4-8=-50  
Horz: 1-2=-37, 2-3=60, 3-6=122, 6-7=-100  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-87, 2-3=-110, 3-6=-172, 6-7=-150, 2-10=-50, 4-8=-50  
Horz: 1-2=37, 2-3=60, 3-6=122, 6-7=100  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=130, 2-3=78, 3-6=-34, 6-7=-56, 2-10=-30, 4-8=-30  
Horz: 1-2=-160, 2-3=-108, 3-6=4, 6-7=26  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=28, 2-3=51, 3-6=46, 6-7=98, 2-10=-30, 4-8=-30  
Horz: 1-2=-58, 2-3=-81, 3-6=-76, 6-7=-128  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=36, 2-3=14, 3-6=-99, 6-7=-76, 2-10=-50, 4-8=-50  
Horz: 1-2=-86, 2-3=-64, 3-6=49, 6-7=26  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=8, 2-3=-14, 3-6=-19, 6-7=4, 2-10=-50, 4-8=-50  
Horz: 1-2=-58, 2-3=-36, 3-6=-31, 6-7=-54  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=56, 2-3=78, 3-6=78, 6-7=56, 2-10=-30, 4-8=-30  
Horz: 1-2=-86, 2-3=-108, 3-6=-108, 6-7=-86  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=16, 2-3=39, 3-6=39, 6-7=16, 2-10=-30, 4-8=-30  
Horz: 1-2=-46, 2-3=-69, 3-6=-69, 6-7=-46  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

Continued on page 3

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes
J0822-4265	M2-GR	ROOF SPECIAL	1	<b>2</b>	I54203527
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 3  
ID:6sgI4LOLhQy4UVHIBGzV0cye4nu-O0agtjc2mn?QIX?if9eC73hg87FJN\_2oAEqBsAydj76

**LOAD CASE(S)** Standard

- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=56, 2-3=78, 3-6=78, 6-7=56, 2-10=-30, 4-8=-30  
Horz: 1-2=-86, 2-3=-108, 3-6=-108, 6-7=-86  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=16, 2-3=39, 3-6=39, 6-7=16, 2-10=-30, 4-8=-30  
Horz: 1-2=-46, 2-3=-69, 3-6=-69, 6-7=-46  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=36, 2-3=14, 3-6=14, 6-7=36, 2-10=-50, 4-8=-50  
Horz: 1-2=-86, 2-3=-64, 3-6=-64, 6-7=-86  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-4, 2-3=-26, 3-6=-26, 6-7=-4, 2-10=-50, 4-8=-50  
Horz: 1-2=-46, 2-3=-24, 3-6=-24, 6-7=-46  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-3=-50, 3-6=-50, 6-7=-50, 2-10=-50, 4-8=-50  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-77, 3-6=-161, 6-7=-145, 2-10=-50, 4-8=-50  
Horz: 1-2=-65, 2-3=-48, 3-6=36, 6-7=20  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-81, 2-3=-98, 3-6=-102, 6-7=-85, 2-10=-50, 4-8=-50  
Horz: 1-2=-44, 2-3=-27, 3-6=-23, 6-7=-40  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-77, 3-6=-77, 6-7=-60, 2-10=-50, 4-8=-50  
Horz: 1-2=-65, 2-3=-48, 3-6=-48, 6-7=-65  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-90, 2-3=-107, 3-6=-107, 6-7=-90, 2-10=-50, 4-8=-50  
Horz: 1-2=-35, 2-3=-18, 3-6=-18, 6-7=-35  
Concentrated Loads (lb)  
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

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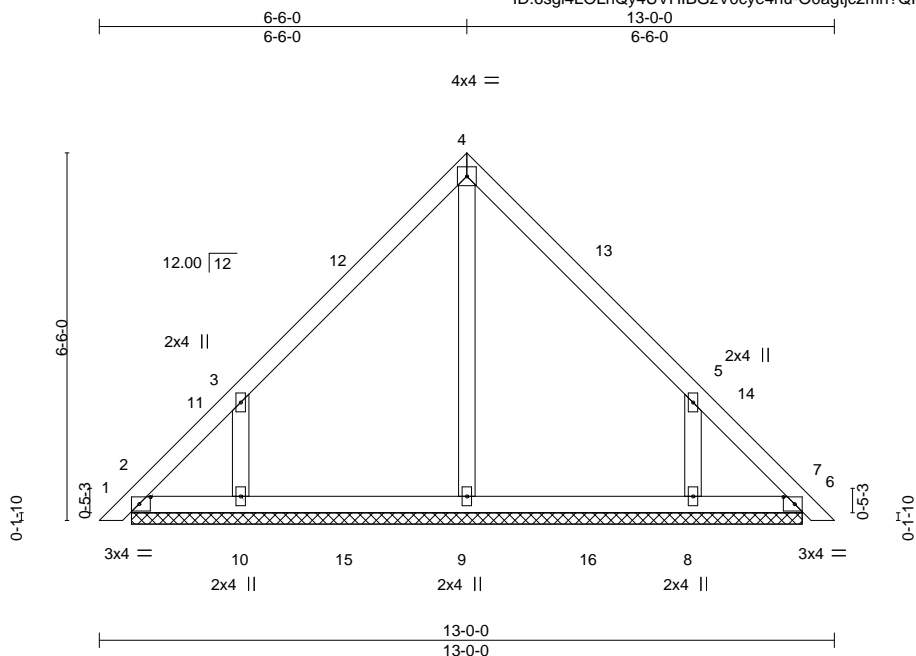


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Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203528
J0822-4265	PB	GABLE	13	1		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 1  
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Scale = 1:40.7

Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [6:0-2-6,0-1-8]				
<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 0.18	Vert(LL) -0.00 6 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.00 6 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 59 lb	FT = 20%

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

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

**REACTIONS.** All bearings 11-10-6.  
 (lb) - Max Horz 2=201(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=246(LC 12), 8=245(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=384(LC 19), 10=394(LC 19), 8=392(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-10=455/412, 5-8=455/412

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 4-7-4, Interior(1) 4-7-4 to 6-6-0, Exterior(2) 6-6-0 to 10-10-13, Interior(1) 10-10-13 to 12-9-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=246, 8=245.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 14, 2022

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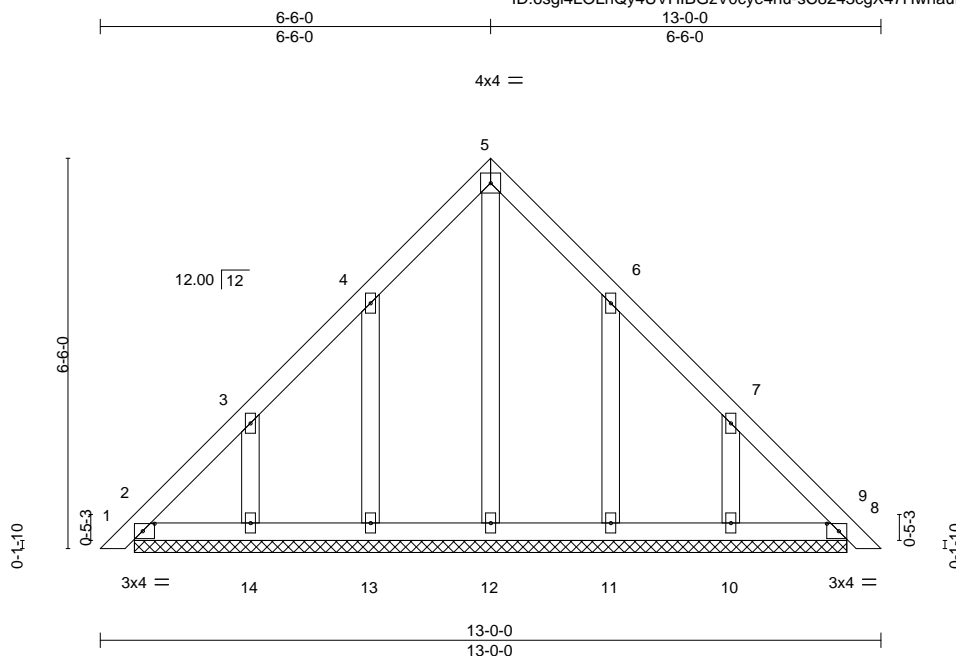
Job	Truss	Truss Type	Qty	Ply	Lot 115 Hidden Lakes	I54203529
J0822-4265	PBGE	GABLE	2	1		

Comtech, Inc. Fayetteville, NC - 28314,

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Job Reference (optional)



Scale = 1:38.4

Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [8:0-2-6,0-1-8]				
<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 0.07	Vert(LL) 0.00 8 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 8 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

All bearings 11-10-6.  
 (lb) - Max Horz 2=-251(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-204(LC 12), 14=-230(LC 12), 11=-202(LC 13), 10=-230(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

TOP CHORD 2-3=-269/190  
 WEBS 3-14=-264/243, 7-10=-264/243

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=204, 14=230, 11=202, 10=230.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 14, 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



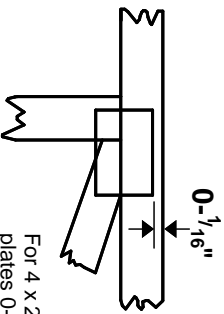
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 Edenton, NC 27932

# 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**

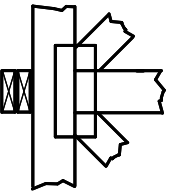
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate  
BCSI: 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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



# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.