

RE: J0822-3955
 Lot 163 Ballard Woods

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0822-3955
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

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

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I50504794	A1	3/2/2022
2	I50504795	A1-GE	3/2/2022
3	I50504796	A2	3/2/2022
4	I50504797	A2-GE	3/2/2022
5	I50504798	B1	3/2/2022
6	I50504799	B1-GE	3/2/2022
7	I50504800	B2	3/2/2022
8	I50504801	B2-GE	3/2/2022
9	I50504802	C1	3/2/2022
10	I50504803	D1	3/2/2022
11	I50504804	D1-GE	3/2/2022
12	I50504805	D2	3/2/2022
13	I50504806	D2A	3/2/2022
14	I50504807	D3	3/2/2022
15	I50504808	VA-1	3/2/2022
16	I50504809	VA-2	3/2/2022
17	I50504810	VA-3	3/2/2022
18	I50504811	VA-4	3/2/2022
19	I50504812	VA-5	3/2/2022
20	I50504813	VA-6	3/2/2022

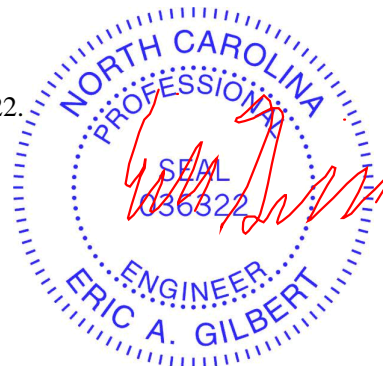
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



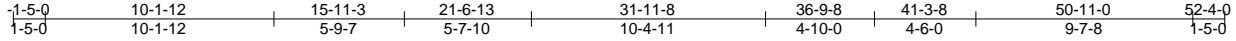
March 02, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504795
J0822-3955	A1-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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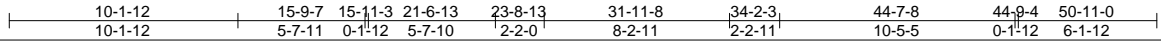
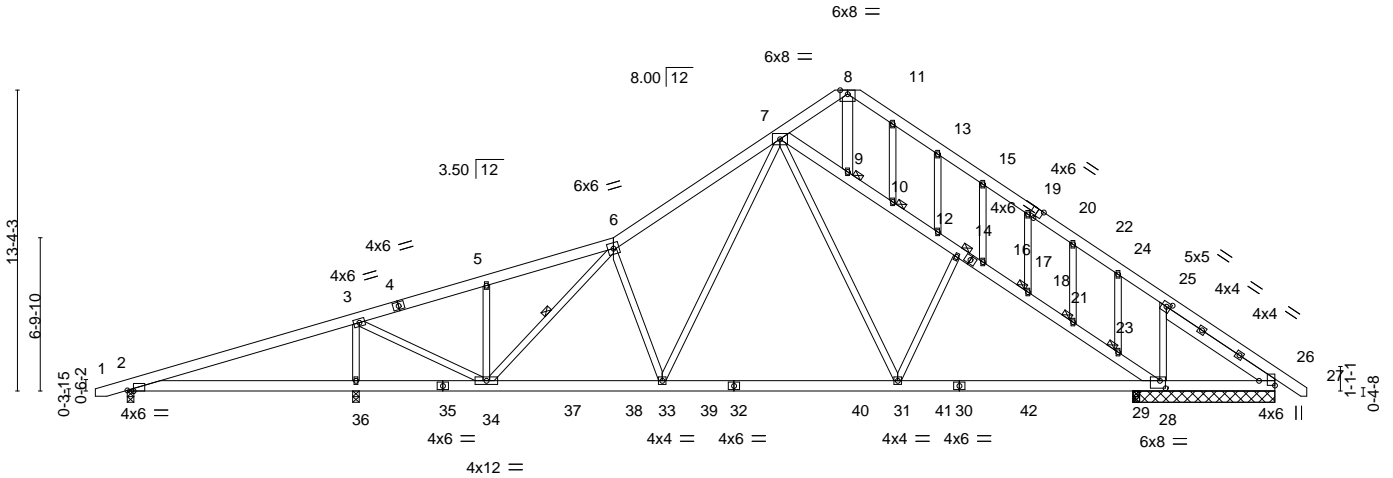


Plate Offsets (X,Y)-- [2:0-3-5,Edge], [20:0-3-0,Edge], [25:0-2-6,0-2-4], [26:Edge,0-8-8], [28:0-3-0,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.18	31-33	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.28	31-33	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.03	26	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.12	2-36	>999	240		
							Weight: 453 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2 *Except*
 8-9: 2x6 SP No.1
 SLIDER Right 2x6 SP No.1 5-9-15

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 2-36,34-36.
 WEBS 1 Row at midpt 6-34
 JOINTS 1 Brace at Jt(s): 14, 9, 10, 18, 21, 23

REACTIONS.

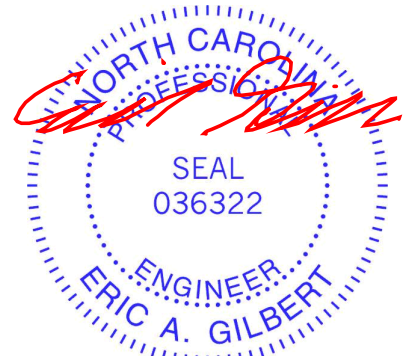
All bearings 0-3-8 except (jt=length) 28=6-3-8, 26=6-3-8.
 (lb) - Max Horz 2=435(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 28=725(LC 13), 2=274(LC 8),
 36=517(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 28=1147(LC 20), 2=287(LC 23),
 26=395(LC 22), 29=669(LC 20), 29=495(LC 1), 29=495(LC 1), 36=2151(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-279/646, 3-5=-1353/273, 5-6=-1303/341, 6-7=-2031/567, 7-8=-323/133,
 7-9=-1643/595, 9-10=-1576/564, 10-12=-1605/590, 12-14=-1691/680, 14-17=-1642/631,
 17-18=-1736/715, 18-21=-1763/734, 21-23=-1802/765, 23-28=-1799/766, 8-11=-263/108,
 11-13=-281/68, 15-19=-274/11, 19-22=-322/16, 22-24=-376/38, 24-25=-441/16,
 25-26=-561/345
 BOT CHORD 2-36=-654/247, 34-36=-654/247, 33-34=-286/1804, 31-33=-84/1320, 29-31=-151/1676,
 28-29=-151/1676, 26-28=-282/506
 WEBS 3-36=-1908/656, 25-28=-597/443, 3-34=-322/1950, 6-34=-898/148, 6-33=-513/350,
 7-33=-257/979, 7-31=-186/894, 14-31=-399/335

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 725 lb uplift at joint 28, 274 lb uplift at joint 2 and 517 lb uplift at joint 36.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 2, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



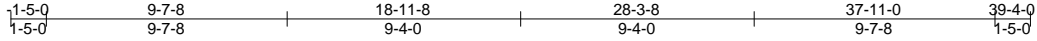
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504796
J0822-3955	A2	COMMON	9	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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5x10 M18AHS =

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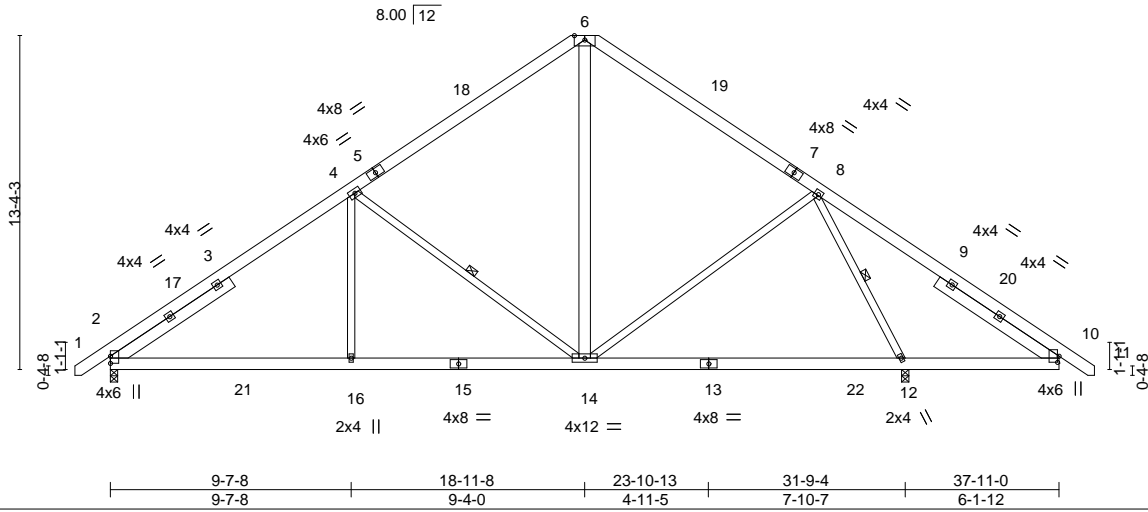


Plate Offsets (X,Y)-- [10:0-2-15,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(LL) -0.27 12-14 >999 360	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Vert(CT) -0.39 12-14 >973 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.03 12 n/a n/a		
			Wind(LL) -0.03 12-14 >999 240	Weight: 313 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-14: 2x6 SP No.1
 SLIDER Left 2x6 SP No.1 5-8-14, Right 2x6 SP No.1 5-9-1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 10-12.
 WEBS 1 Row at midpt 4-14, 8-12

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=324(LC 11)
 Max Uplift 2=-92(LC 12), 12=-115(LC 13)
 Max Grav 2=1530(LC 19), 12=1998(LC 2)

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

TOP CHORD 2-4=-1954/286, 4-6=-1131/304, 6-8=-1159/287, 8-10=-492/707
 BOT CHORD 2-16=-120/1713, 14-16=-120/1713, 12-14=0/505, 10-12=-472/521
 WEBS 4-16=0/593, 4-14=-987/309, 6-14=-71/651, 8-14=-48/521, 8-12=-1808/751

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-7 to 3-1-6, Interior(1) 3-1-6 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 39-2-7 zone; cantilever right 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2 and 115 lb uplift at joint 12.



March 2, 2022

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

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

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



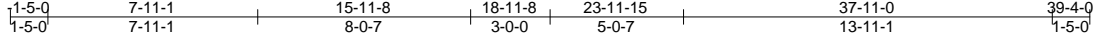
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504797
J0822-3955	A2-GE	FINK	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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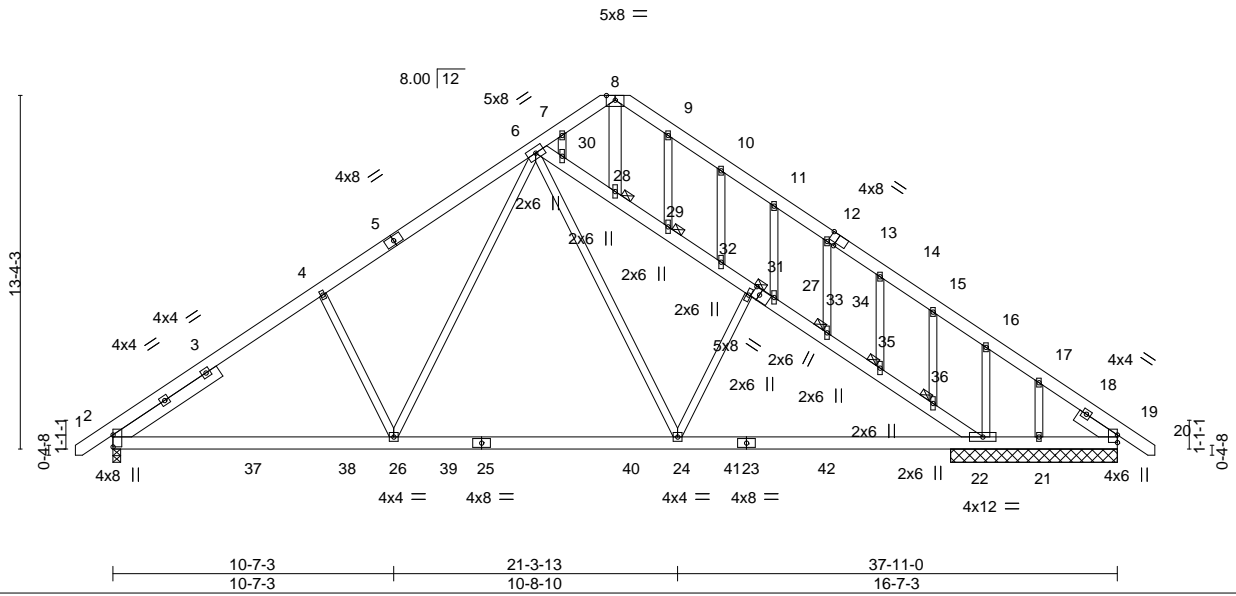


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [13:0-3-4,Edge], [27:0-3-2,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.18	24-26	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.25	24-26	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.04	19	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	24-26	>999	240		
							Weight: 369 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-27,8-28,22-27: 2x6 SP No.1
 SLIDER Left 2x6 SP No.1 4-8-12, Right 2x6 SP No.1 1-8-13

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 28, 29, 31, 34, 35, 36

REACTIONS.

(size) 2=0-3-8, 22=6-3-8, 21=6-3-8, 19=6-3-8
 Max Horz 2=404(LC 11)
 Max Uplift 2=-268(LC 12), 22=-541(LC 13), 21=-232(LC 22)
 Max Grav 2=1631(LC 19), 22=1850(LC 20), 19=434(LC 22)

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

TOP CHORD 2-4=-2139/423, 4-6=-1988/527, 12-14=-265/69, 14-15=-318/89, 15-16=-350/108, 16-17=-443/275, 17-19=-533/309
 BOT CHORD 2-26=-372/1925, 24-26=-95/1352, 22-24=-160/1720, 21-22=-283/486, 19-21=-283/486
 WEBS 6-30=-1709/593, 28-30=-1697/578, 28-29=-1687/562, 29-32=-1708/586, 31-32=-1751/666, 31-33=-1730/623, 33-34=-1782/719, 34-35=-1797/738, 35-36=-1823/767, 22-36=-1870/793, 4-26=-465/394, 24-31=-399/346, 6-26=-250/949, 6-24=-197/915, 16-22=-401/300

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 2, 541 lb uplift at joint 22 and 232 lb uplift at joint 21.



March 2, 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 163 Ballard Woods	150504798
J0822-3955	B1	ROOF SPECIAL	3	1	Job Reference (optional)	

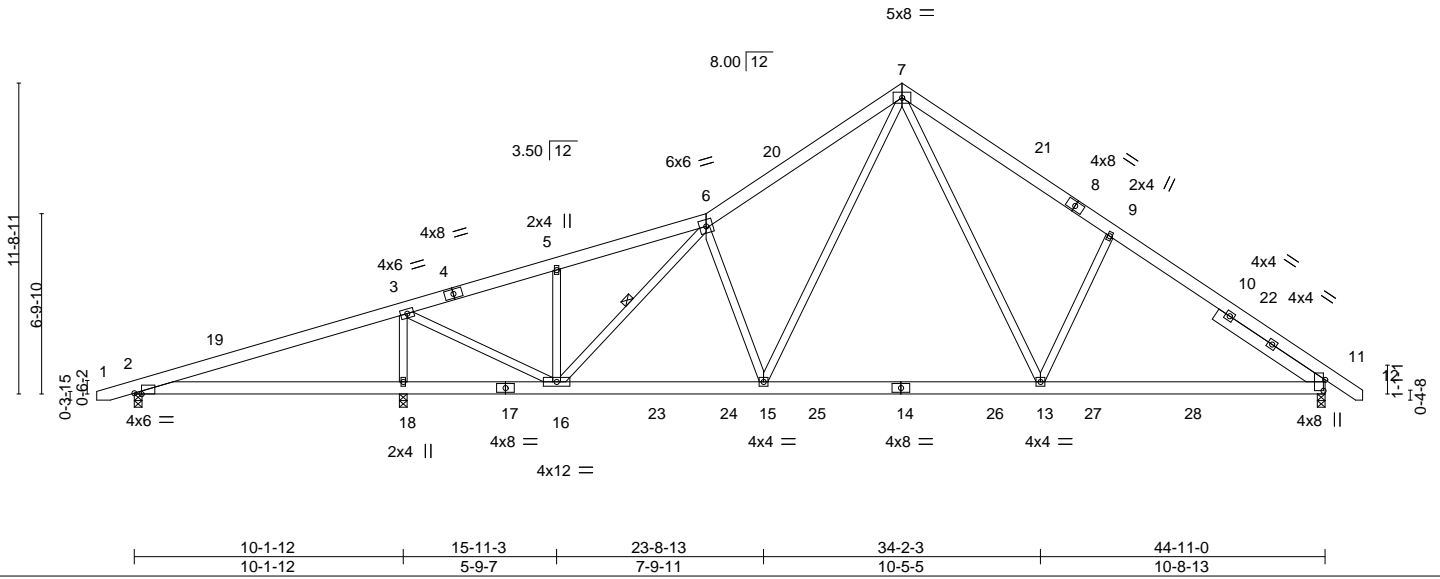
Comtech, Inc., Fayetteville, NC - 28314,

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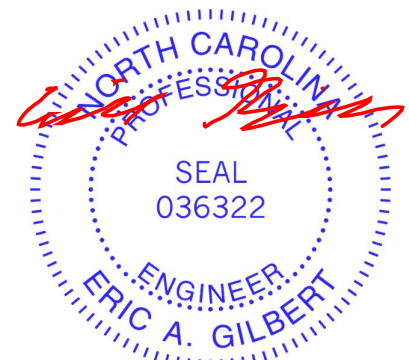
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.17 13-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.26 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.03 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11 2-18 >999 240	Weight: 328 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-16
SLIDER Right 2x6 SP No.1 4-10-4	

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 11=0-3-8
 Max Horz 2=282(LC 11)
 Max Uplift 2=-200(LC 8), 18=-176(LC 12), 11=-91(LC 13)
 Max Grav 2=301(LC 23), 18=2100(LC 2), 11=1644(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-117/601, 3-5=-1375/202, 5-6=-1340/249, 6-7=-2030/467, 7-9=-2017/467, 9-11=-2165/368
 BOT CHORD 2-18=-576/130, 16-18=-576/130, 15-16=-103/1737, 13-15=0/1200, 11-13=-149/1648
 WEBS 7-13=-154/966, 3-18=-1859/400, 9-13=-473/305, 7-15=-162/978, 6-15=-530/261, 3-16=-148/1883, 6-16=-817/149

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 3-2-14, Interior(1) 3-2-14 to 28-11-8, Exterior(2) 28-11-8 to 33-4-5, Interior(1) 33-4-5 to 46-2-7 zone; porch left exposed; C-C for members and forces & MWFRS for reactions with BCDL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 2, 176 lb uplift at joint 18 and 91 lb uplift at joint 11.



March 2, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504800
J0822-3955	B2	COMMON	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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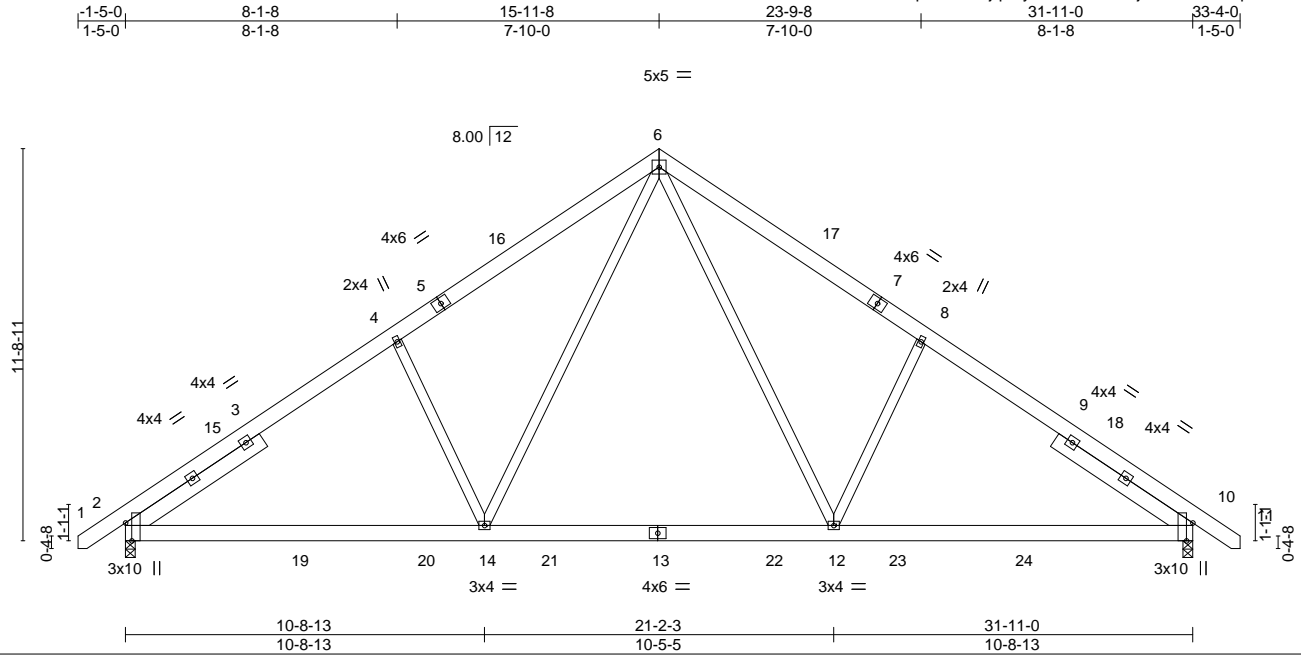


Plate Offsets (X,Y)-- [2:0-6-7,Edge], [10:0-6-7,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.15	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.21	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	14	>999	240		
							Weight: 249 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 4-10-4, Right 2x6 SP No.1 4-10-4

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-276(LC 10)
 Max Uplift 2=-84(LC 12), 10=-84(LC 13)
 Max Grav 2=1578(LC 19), 10=1578(LC 20)

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

TOP CHORD 2-4=-2051/369, 4-6=-1904/468, 6-8=-1904/468, 8-10=-2051/369
 BOT CHORD 2-14=-142/1764, 12-14=0/1195, 10-12=-149/1586
 WEBS 6-12=-163/958, 8-12=-477/306, 6-14=-163/957, 4-14=-477/306

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-7 to 3-1-6, Interior(1) 3-1-6 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 33-2-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2 and 84 lb uplift at joint 10.



March 2, 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 163 Ballard Woods	150504801
J0822-3955	B2-GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:02 2022 Page 1
ID:2W3hk9latme7Qcxb71DGi8zptHE-JKoFxAxdiavnsXgP6epyPK?ISUyx-C7dj8EwSiwzfK8I

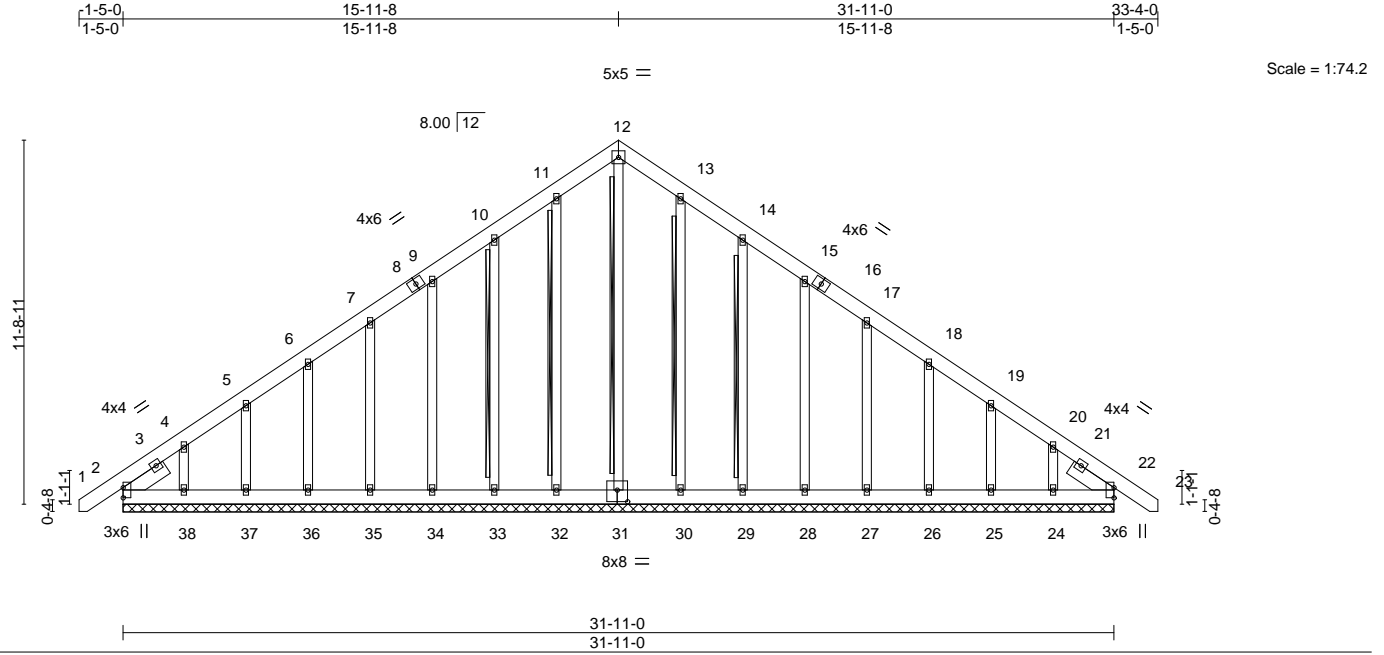


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [22:Edge,0-0-0], [31:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00	22	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	23	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01	22	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 310 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 1-6-14, Right 2x6 SP No.1 1-6-14

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 12-31, 11-32, 10-33, 13-30, 14-29
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

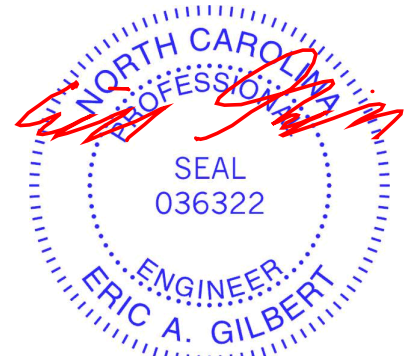
All bearings 31-11-0.
 (lb) - Max Horz 2=345(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 30, 28, 27, 26, 25, 22 except 2=129(LC 8), 38=191(LC 12), 29=103(LC 13), 24=168(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, 24, 22 except 2=276(LC 20)

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

TOP CHORD 2-4=382/275, 4-5=250/215, 10-11=230/267, 11-12=263/293, 12-13=262/292, 20-22=297/191
 BOT CHORD 2-38=171/272, 37-38=171/272, 36-37=171/272, 35-36=171/272, 34-35=171/272, 33-34=171/272, 32-33=171/272, 31-32=171/272, 30-31=172/273, 29-30=172/273, 28-29=172/273, 27-28=172/273, 26-27=172/273, 25-26=172/273, 24-25=172/273, 22-24=172/273

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 32, 33, 34, 35, 36, 37, 30, 28, 27, 26, 25, 22 except (jt=lb) 2=129, 38=191, 29=103, 24=168.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 2, 2022

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504802
J0822-3955	C1	ROOF SPECIAL	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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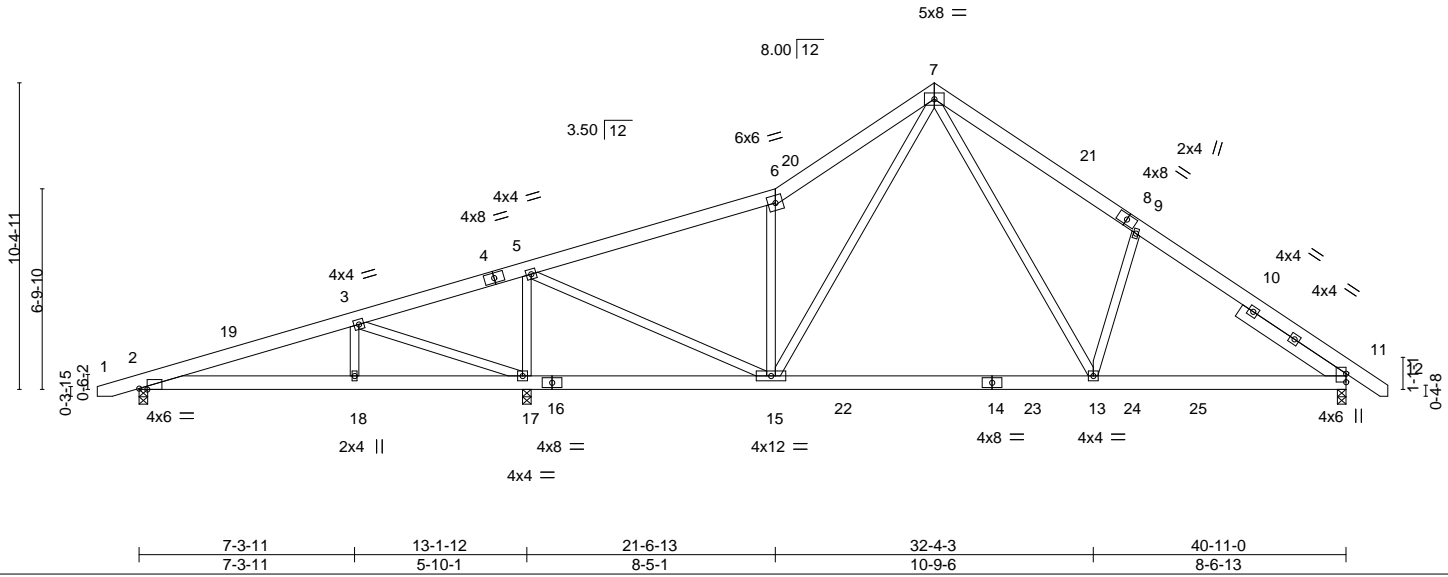


Plate Offsets (X,Y)-- [2:0-3-5,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.22	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.32	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	2-18	>999	240		
							Weight: 299 lb	FT = 20%

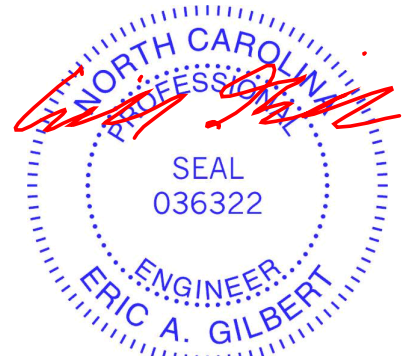
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.1 4-3-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17.

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
Max Horz 2=250(LC 11)
Max Uplift 2=-213(LC 8), 17=-247(LC 8), 11=-84(LC 13)
Max Grav 2=440(LC 23), 17=1873(LC 1), 11=1279(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-415/355, 3-5=-238/527, 5-6=-1171/144, 6-7=-1334/303, 7-9=-1582/374, 9-11=-1667/244
BOT CHORD 2-18=-262/341, 17-18=-262/341, 15-17=-444/350, 13-15=0/813, 11-13=-62/1242
WEBS 3-18=-226/267, 3-17=-809/653, 5-17=-1473/416, 5-15=-281/1543, 6-15=-699/298, 7-13=-178/910, 9-13=-428/289, 7-15=-89/476

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 3-2-14, Interior(1) 3-2-14 to 26-11-8, Exterior(2) 26-11-8 to 31-4-5, Interior(1) 31-4-5 to 42-2-7 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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 BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=213, 17=247.



March 2, 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



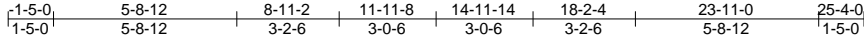
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504803
J0822-3955	D1	ATTIC	5	1		

Comtech, Inc. Fayetteville, NC - 28314,

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4x6 =

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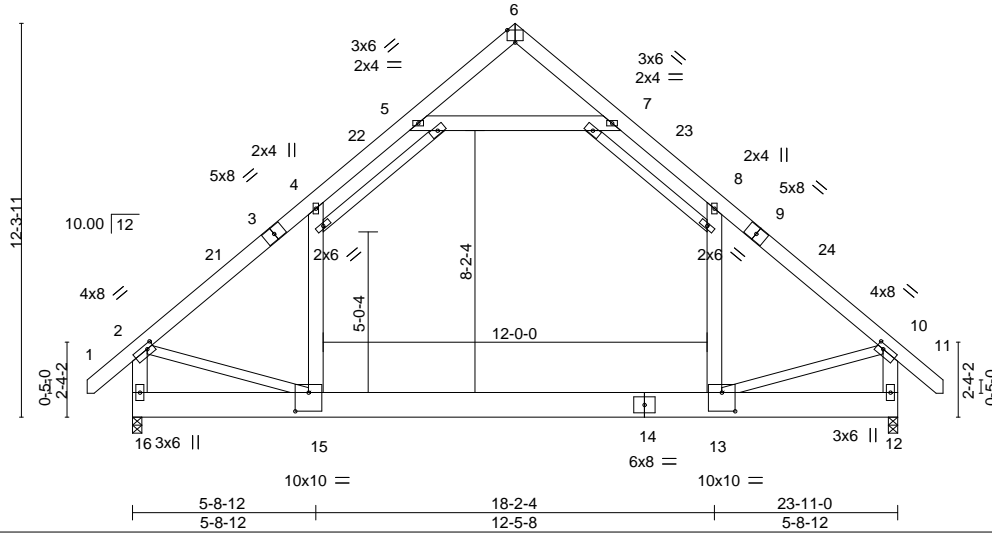


Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [6:0-3-0,Edge], [10:0-2-8,0-1-12], [13:0-5-0,0-7-0], [15:0-5-0,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.27	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.45	13-15	>620	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	13-15	>999	240		
							Weight: 256 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
17-18,19-20: 2x4 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-15,10-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.

REACTIONS.

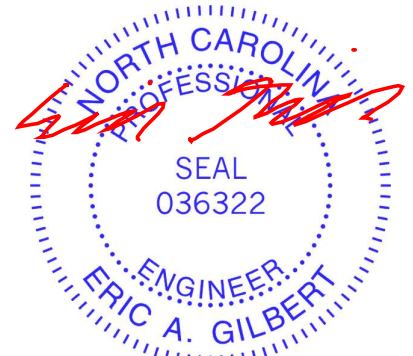
(size) 16=0-3-8, 12=0-3-8
Max Horz 16=330(LC 11)
Max Grav 16=1617(LC 20), 12=1617(LC 21)

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

TOP CHORD 2-4=-1751/0, 4-5=-1171/137, 5-6=-58/279, 6-7=-58/279, 7-8=-1171/137, 8-10=-1751/0,
2-16=-1699/62, 10-12=-1700/63
BOT CHORD 15-16=-282/506, 13-15=0/1215, 12-13=-40/311
WEBS 5-7=-1397/118, 4-15=0/678, 8-13=0/678, 2-15=0/1045, 10-13=0/1048

NOTES-

- Unbalanced roof live loads HAVING been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-11 to 3-1-2, Interior(1) 3-1-2 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 25-2-11 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



March 2, 2022

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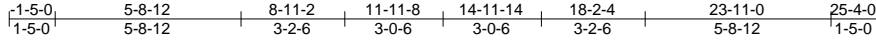
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504804
J0822-3955	D1-GE	ATTIC	2	1	Job Reference (optional)	

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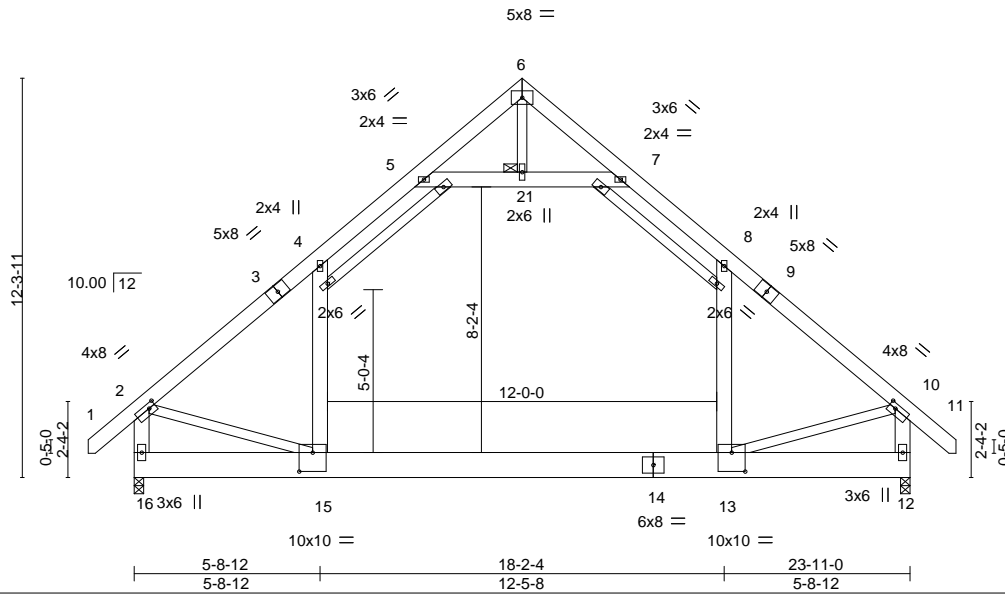


Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [10:0-2-8,0-1-12], [13:0-5-0,0-7-0], [15:0-5-0,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.27	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.45	13-15	>620	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	13-15	>999	240	Weight: 260 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
17-18,19-20: 2x4 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-15,10-13,6-21: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.
JOINTS 1 Brace at Jt(s): 21

REACTIONS.

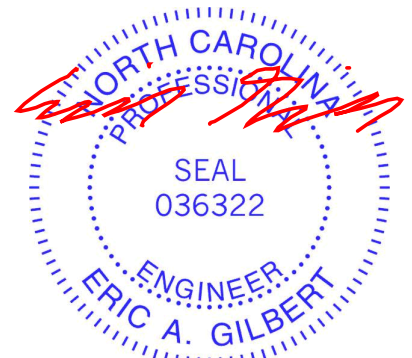
(size) 16=0-3-8, 12=0-3-8
Max Horz 16=-412(LC 10)
Max Grav 16=1613(LC 20), 12=1613(LC 21)

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

TOP CHORD 2-4=-1766/12, 4-5=-1173/184, 7-8=-1172/184, 8-10=-1766/12, 2-16=-1707/97,
10-12=-1707/97
BOT CHORD 15-16=-374/571, 13-15=0/1244, 12-13=-91/311
WEBS 5-21=-1330/231, 7-21=-1330/231, 4-15=-18/678, 8-13=-17/678, 2-15=0/1081,
10-13=0/1086

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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). 4-5, 7-8, 5-21, 7-21; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



March 2, 2022

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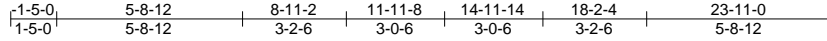
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504805
J0822-3955	D2	ATTIC	13	1		

Comtech, Inc, Fayetteville, NC - 28314,

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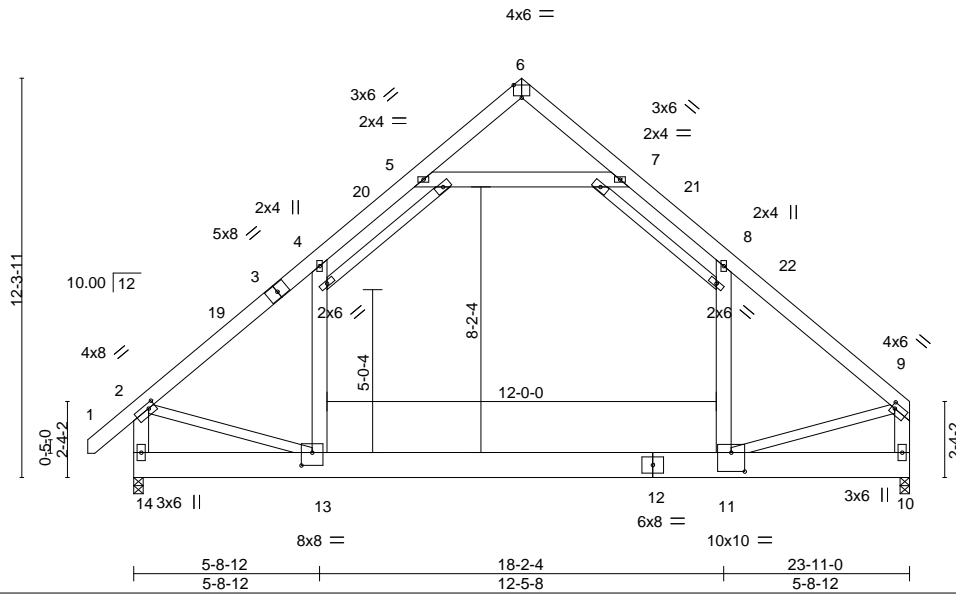


Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [6:0-3-0,Edge], [9:0-1-4,0-2-0], [11:0-5-0,0-7-0], [13:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.27	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.46	11-13	>613	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	11-13	>999	240		
							Weight: 252 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
15-16,17-18: 2x4 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-13,9-11: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-3 oc bracing.

REACTIONS.

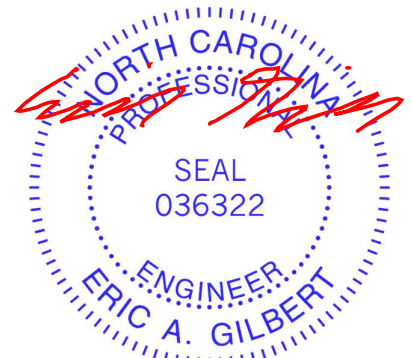
(size) 14=0-3-8, 10=0-3-8
Max Horz 14=-296(LC 10)
Max Grav 14=1620(LC 20), 10=1531(LC 21)

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

TOP CHORD 2-4=-1755/0, 4-5=-1171/131, 5-6=-52/284, 6-7=-54/281, 7-8=-1176/142, 8-9=-1739/0,
2-14=-1703/56, 9-10=-1633/0
BOT CHORD 13-14=-275/482, 11-13=0/1195
WEBS 5-7=-1409/130, 4-13=0/683, 8-11=0/649, 2-13=0/1046, 9-11=0/1101

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-11 to 3-1-2, Interior(1) 3-1-2 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 23-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-13, 8-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



March 2, 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



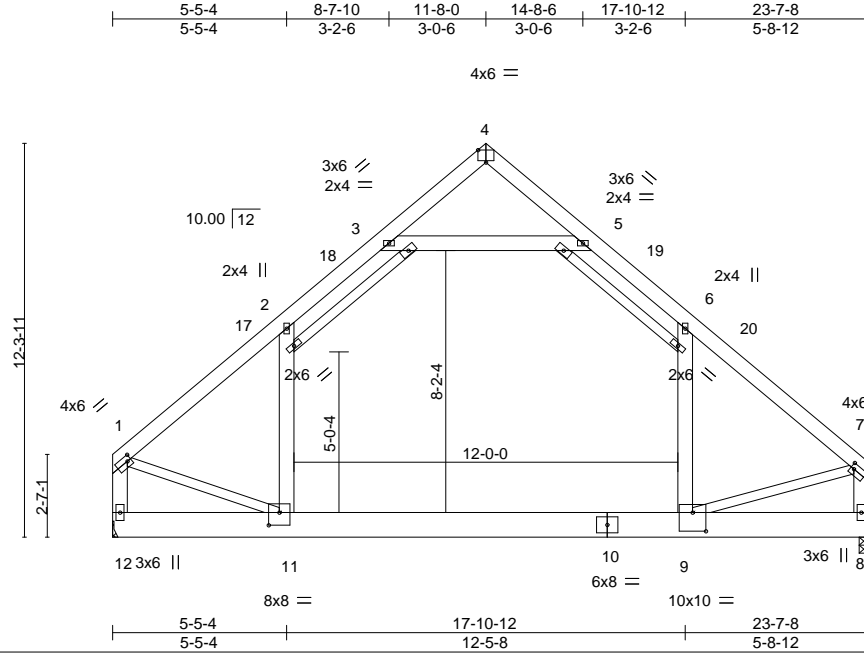
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504806
J0822-3955	D2A	ATTIC	3	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:07 2022 Page 1

ID:2W3hk9latme7Qcxb7tDGi8zptHE-glb8_ublX6Y4zlyMuBP76NiyavT1tKYSHWdDN7zfK8g



Scale = 1:72.0

Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [4:0-3-0,Edge], [7:0-1-4,0-2-0], [9:0-5-0,0-7-0], [11:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.27	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.45	9-11	>622	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	9-11	>999	240	Weight: 247 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
13-14,15-16: 2x4 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
1-11,7-9: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.

REACTIONS.

(size) 12=Mechanical, 8=0-3-8
Max Horz 12=-289(LC 10)
Max Grav 12=1530(LC 21), 8=1514(LC 21)

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

TOP CHORD 1-2=-1700/0, 2-3=-1155/134, 3-4=-60/275, 4-5=-59/276, 5-6=-1156/141, 6-7=-1707/0,
1-12=-1679/0, 7-8=-1603/0
BOT CHORD 11-12=-260/365, 9-11=0/1171
WEBS 3-5=-1375/129, 2-11=-2/639, 6-9=-4/632, 1-11=0/1139, 7-9=0/1075

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-4 to 4-11-1, Interior(1) 4-11-1 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 23-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).2-11, 6-9
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- Refer to girder(s) for truss to truss connections.
- Attic room checked for L/360 deflection.



March 2, 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

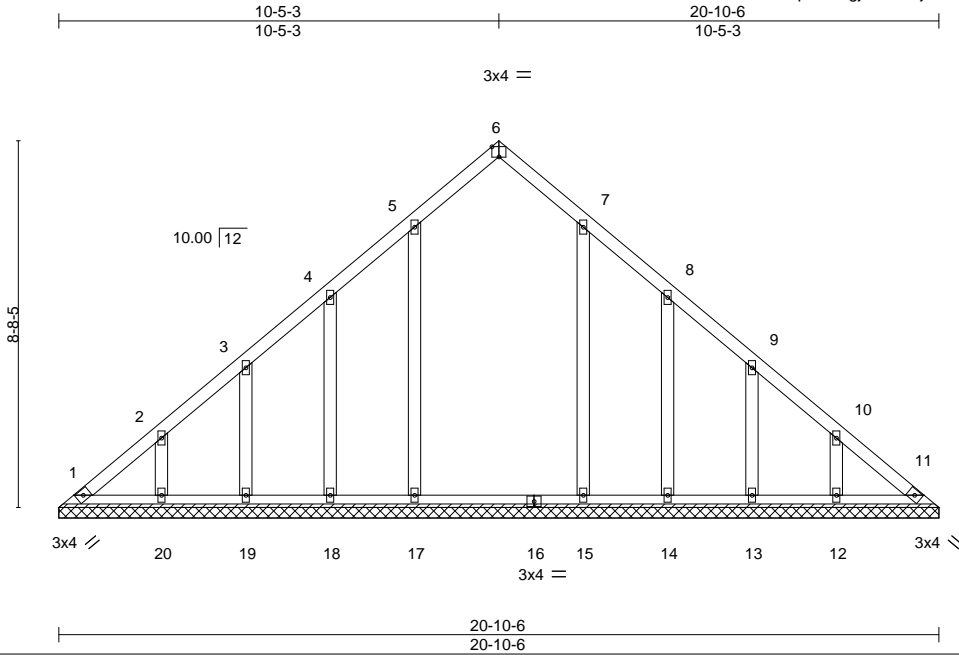


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504808
J0822-3955	VA-1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:09 2022 Page 1
ID:2W3hk9latme7Qcxb7tDGi8zptHE-cgjuPZd03jooCcil0cRbBonV8lJxLJdlIq6KS0zfK8e



Scale = 1:54.6

Plate Offsets (X,Y)-- [6:0-2-0,Edge], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 117 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

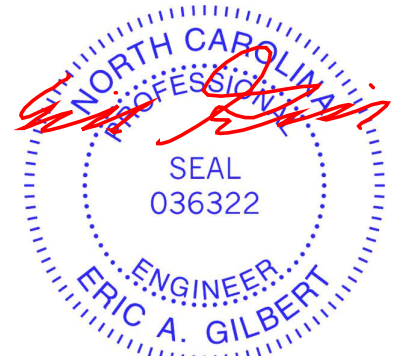
All bearings 20-10-6.
(lb) - Max Horz 1=-250(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 17, 15 except 18=-128(LC 12), 19=-103(LC 12), 20=-127(LC 12), 14=-131(LC 13), 13=-102(LC 13), 12=-127(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 18, 19, 20, 14, 13, 12 except 17=350(LC 19), 15=341(LC 20)

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

TOP CHORD 1-2=-377/240, 2-3=-268/149, 9-10=-260/149, 10-11=-369/240
BOT CHORD 1-20=-199/313, 19-20=-199/313, 18-19=-199/313, 17-18=-199/313, 15-17=-199/313, 14-15=-199/313, 13-14=-199/313, 12-13=-199/313, 11-12=-199/313

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 17, 15 except (jt=lb) 18=128, 19=103, 20=127, 14=131, 13=102, 12=127.



March 2, 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

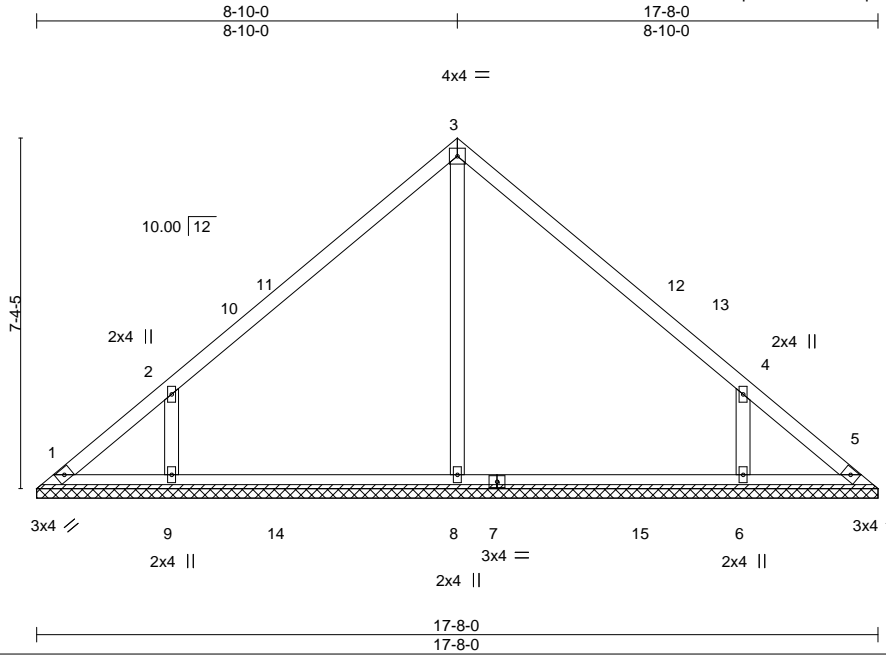


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504809
J0822-3955	VA-2	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:10 2022 Page 1
ID:2W3hk9latme7Qcxb7tDGi8zptHE-4tHGcveeq1wfmHxaJzjq0Kctibm4jeu_Tst_SzfK8d



Scale: 1/4"=1'

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S				Weight: 74 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 17-8-0.

(lb) - Max Horz 1=-168(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-186(LC 12), 6=-186(LC 13)

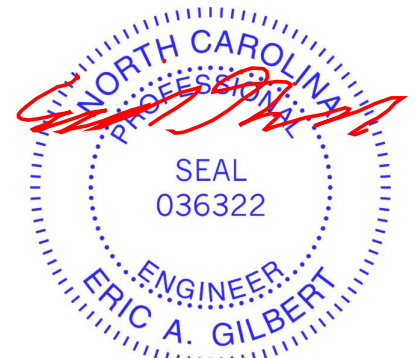
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=612(LC 19), 9=548(LC 19), 6=548(LC 20)

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

WEBS 2-9=-461/322, 4-6=-461/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-10-0, Exterior(2) 8-10-0 to 13-2-13, Interior(1) 13-2-13 to 17-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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) 1, 5 except (jt=lb) 9=186, 6=186.



March 2, 2022

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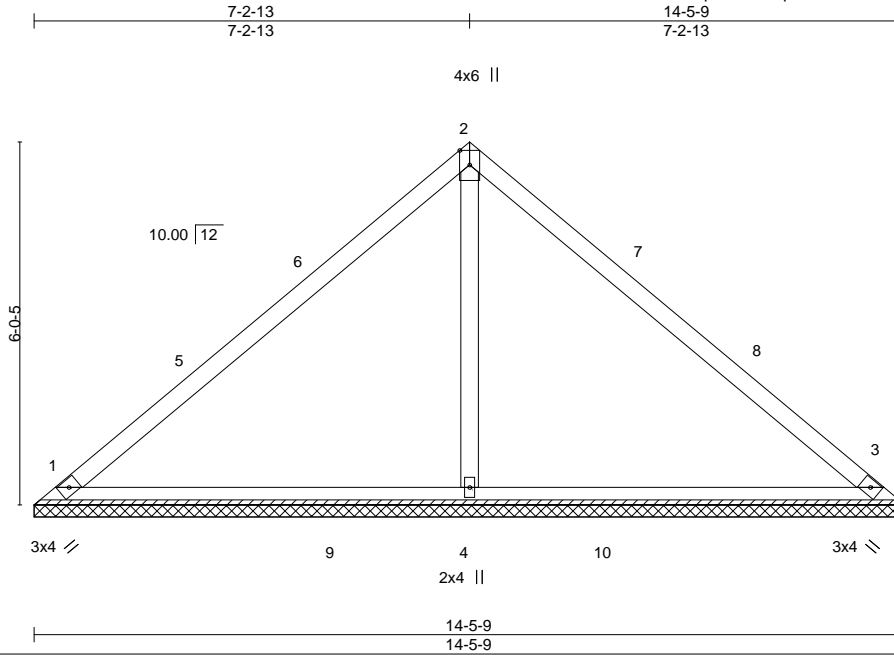


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504810
J0822-3955	VA-3	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:11 2022 Page 1
 ID:2W3hk9latme7Qcxb7tDGi8zptHE-Y3rfqFeGbL2WRvs871U3GDtjR6xrpBM1C7bRWvzfK8c



Scale = 1:38.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.36	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 56 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=14-5-9, 3=14-5-9, 4=14-5-9
 Max Horz 1=-136(LC 8)
 Max Uplift 1=-32(LC 13), 3=-45(LC 13)
 Max Grav 1=292(LC 1), 3=292(LC 1), 4=671(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-306/115

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-2-13, Exterior(2) 7-2-13 to 11-7-10, Interior(1) 11-7-10 to 14-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 2, 2022

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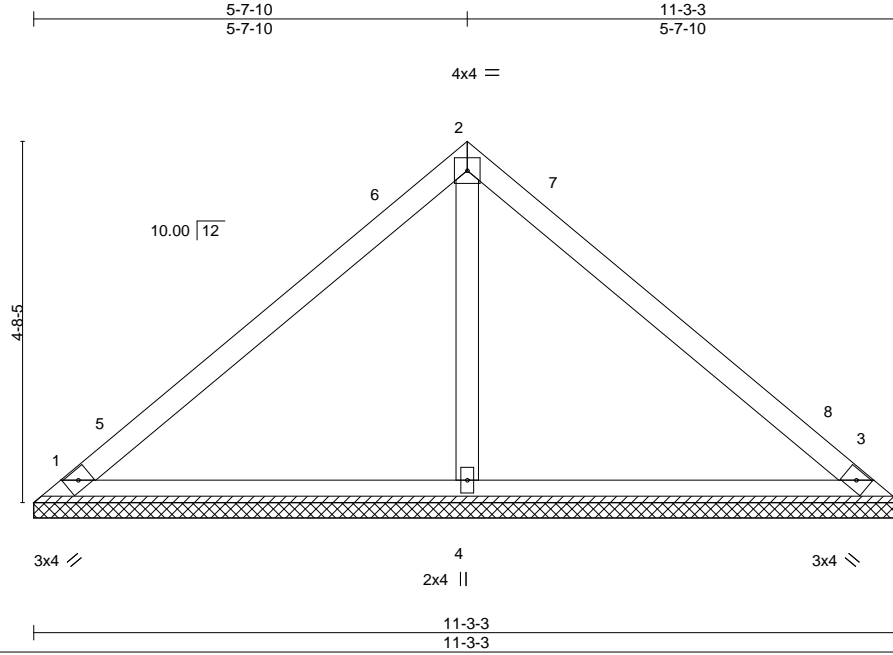


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	I50504811
J0822-3955	VA-4	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:12 2022 Page 1
ID:2W3hk9latme7Qcxb7tDGi8zptHE-0FP11bfuMeAM33RKhk?ipRPynWJbYf4BRnL_2LzfK8b



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 43 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=11-3-3, 3=11-3-3, 4=11-3-3
Max Horz 1=104(LC 8)
Max Uplift 1=25(LC 13), 3=34(LC 13)
Max Grav 1=223(LC 1), 3=224(LC 1), 4=390(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-7-10, Exterior(2) 5-7-10 to 10-0-6, Interior(1) 10-0-6 to 10-10-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 2, 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

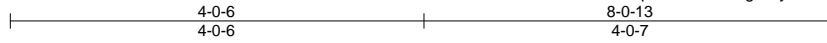


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 163 Ballard Woods	150504812
J0822-3955	VA-5	VALLEY	1	1	Job Reference (optional)	

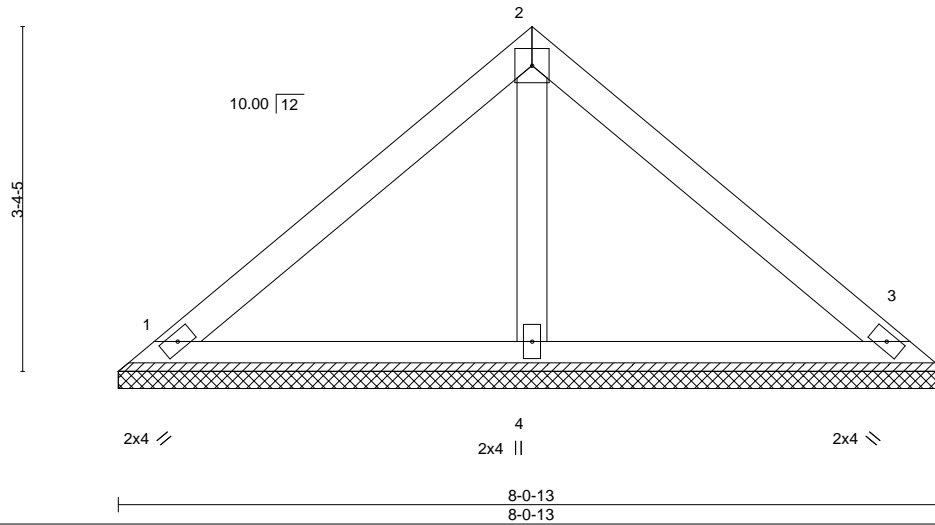
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:13 2022 Page 1
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4x4 =

Scale = 1:22.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-0-13, 3=8-0-13, 4=8-0-13
Max Horz 1=73(LC 9)
Max Uplift 1=-25(LC 13), 3=-32(LC 13)
Max Grav 1=168(LC 1), 3=168(LC 1), 4=245(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



March 2, 2022

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

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

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

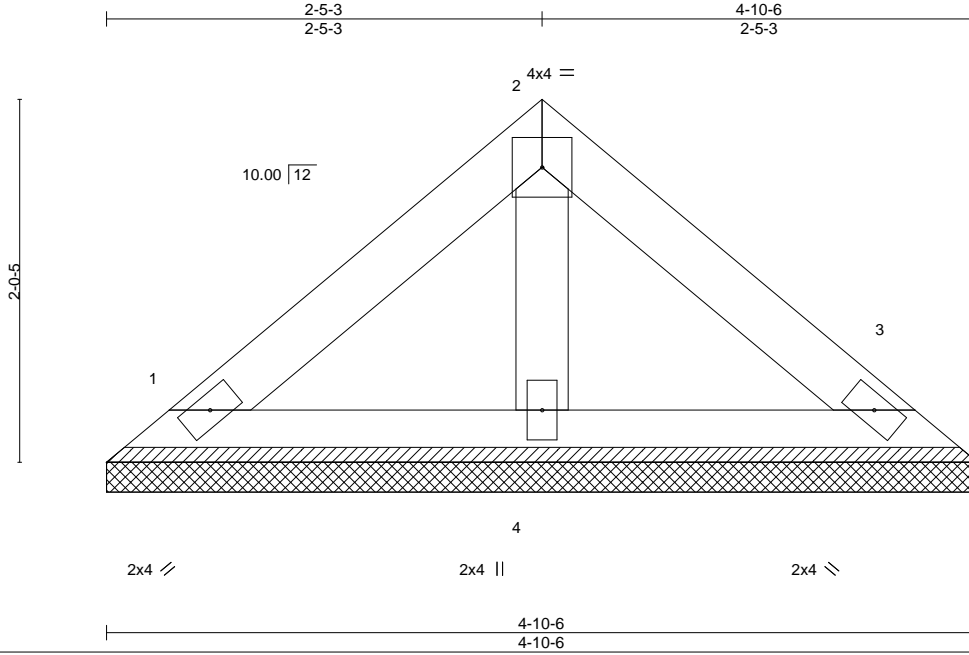


818 Soundside Road
Edenton, NC 27932

Job J0822-3955	Truss VA-6	Truss Type Valley	Qty 1	Ply 1	Lot 163 Ballard Woods Job Reference (optional)	150504813
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Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 09:57:14 2022 Page 1
ID:2W3hk9latme7Qcxb7tDGi8zptHE-zeWnSHh8uGQ4INajp91musVLyJ2k0adUu5q57Dzfk8Z



Scale = 1:12.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 17 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-10-6, 3=4-10-6, 4=4-10-6
Max Horz 1=-41(LC 8)
Max Uplift 1=-14(LC 13), 3=-18(LC 13)
Max Grav 1=94(LC 1), 3=94(LC 1), 4=137(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 2, 2022

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

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

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

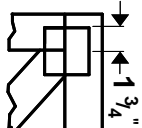
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



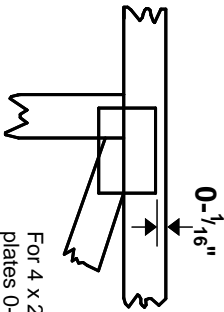
818 Soundside Road
Edenton, NC 27932

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

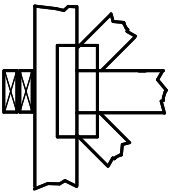
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



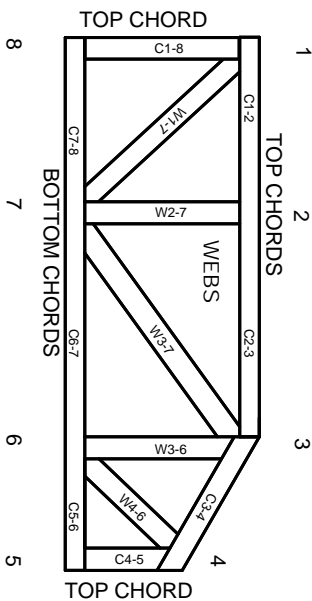
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 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 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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.