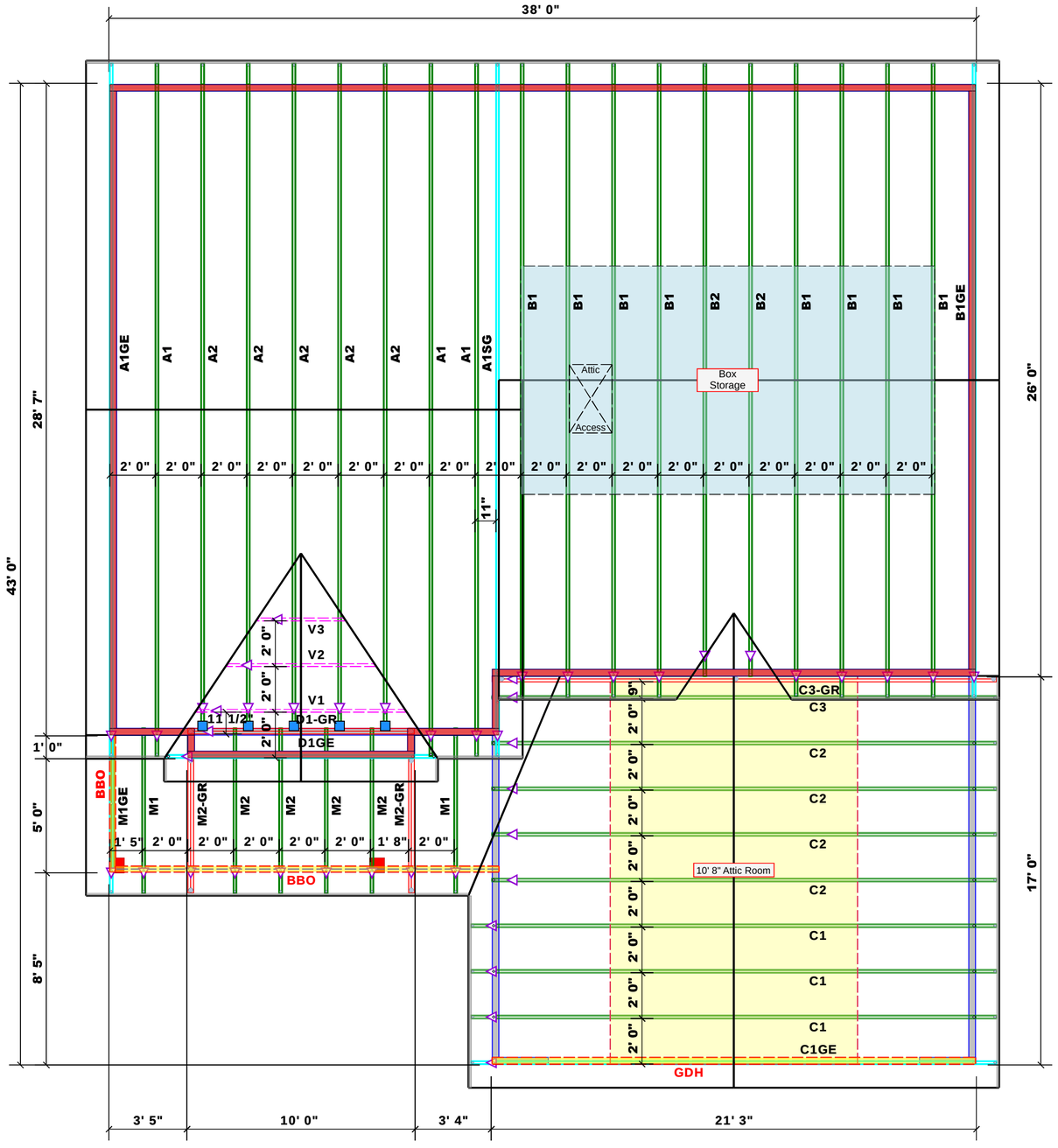


All Walls Shown Are Considered Load Bearing

Roof Area	= 2147.16 sq.ft.
Ridge Line	= 71.84 ft.
Hip Line	= 0 ft.
Horiz. OH	= 110.23 ft.
Raked OH	= 151.18 ft.
Decking	= 74 sheets

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Hatch Legend

- Second Floor Walls
- Box Storage
- Drop Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	5	NA	16d/3-1/2"	16d/3-1/2"

Products				
PlotID	Length	Product	Plies	Net Qty
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Wellco Contractors
JOB NAME	Lot 122 Hidden Lakes
PLAN	Plan 5
SEAL DATE	N/A
QUOTE #	
JOB #	J1122-5618
SALES REP.	Lenny Norris
DRAWN BY	Jonathan Landry
DATE REV.	11/11/22
MODEL	Roof
ADDRESS	89 Sugarberry Place
CITY / CO.	Clayton / Johnston

RE: J1122-5618
Lot 122 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractors Project Name: J1122-5618
Lot/Block: 122 Model: Plan 5
Address: 89 Sugarberry Place Subdivision: Hidden Lakes
City: Clayton State: NC

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: 150 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 21 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I53182508	A1	7/20/2022	21	I53182528	V3	7/20/2022
2	I53182509	A1GE	7/20/2022				
3	I53182510	A1SG	7/20/2022				
4	I53182511	A2	7/20/2022				
5	I53182512	B1	7/20/2022				
6	I53182513	B1GE	7/20/2022				
7	I53182514	B2	7/20/2022				
8	I53182515	C1	7/20/2022				
9	I53182516	C1GE	7/20/2022				
10	I53182517	C2	7/20/2022				
11	I53182518	C3	7/20/2022				
12	I53182519	C3-GR	7/20/2022				
13	I53182520	D1-GR	7/20/2022				
14	I53182521	D1GE	7/20/2022				
15	I53182522	M1	7/20/2022				
16	I53182523	M1GE	7/20/2022				
17	I53182524	M2	7/20/2022				
18	I53182525	M2-GR	7/20/2022				
19	I53182526	V1	7/20/2022				
20	I53182527	V2	7/20/2022				

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: Strzyzewski, Marvin
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.

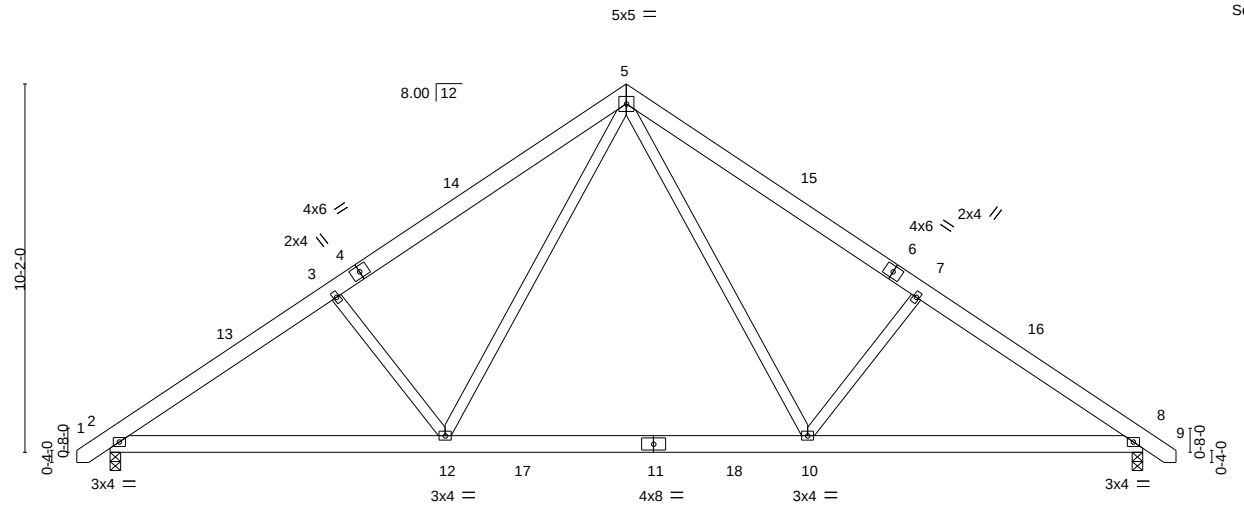
July 20, 2022
Strzyzewski, Marvin

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	A1	COMMON	3	1	I53182508
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:29 2022 Page 1
ID:9TsBS1yzEQOf2XeoOILTI2yyUuf-_bXakqplsGztfCYveXppOq7w44ZfiU?T3VuWuwywWHe

-0-11-0 6-3-0 14-3-0 22-3-0 28-6-0 29-5-0
0-11-0 6-3-0 8-0-0 8-0-0 6-3-0 0-11-0

Scale = 1:59.8



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	0.26	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.24	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 198 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 5-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=319(LC 11)
Max Uplift 2=-211(LC 12), 8=-211(LC 13)
Max Grav 2=1253(LC 19), 8=1253(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1805/625, 3-5=-1722/666, 5-7=-1722/666, 7-8=-1804/625
BOT CHORD 2-12=-371/1631, 10-12=-45/1007, 8-10=-382/1397
WEBS 5-10=-222/799, 7-10=-568/395, 5-12=-222/799, 3-12=-568/395

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 14-3-0, Exterior(2) 14-3-0 to 18-7-13, Interior(1) 18-7-13 to 29-3-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 211 lb uplift at joint 8.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	A1GE	GABLE	1	1	I53182509
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:30 2022 Page 1
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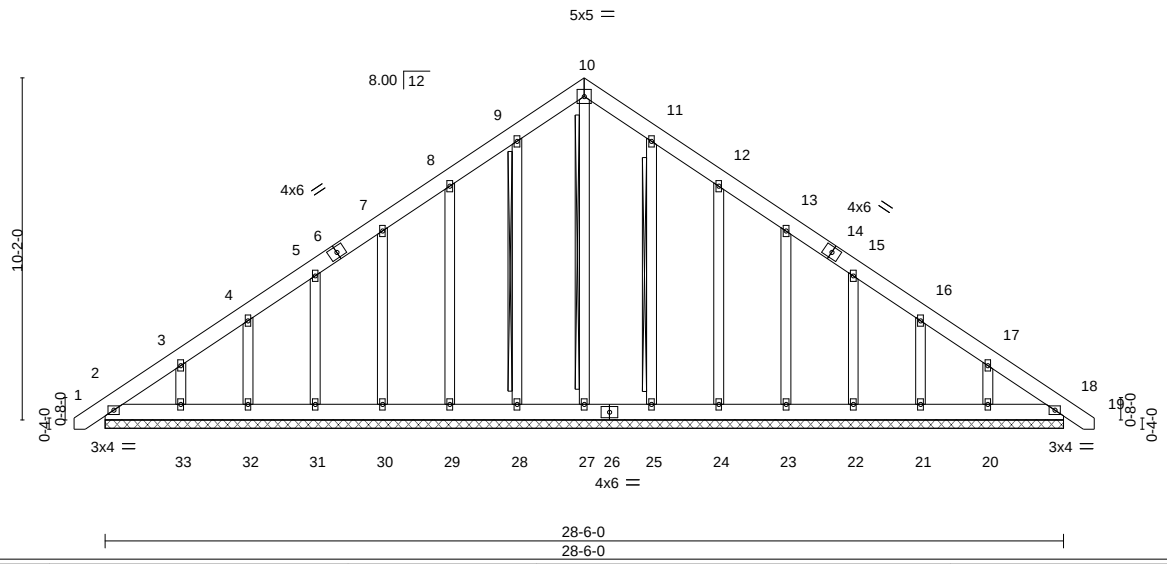
0-11-0 14-3-0 14-3-0 0-11-0

Scale: 3/16"=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	0.06	Vert(LL)	0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	18	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 248 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.
WEBS T-Brace: 2x4 SPF No.2 - 10-27, 9-28, 11-25
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 28-6-0.
(lb) - Max Horz 2=-399(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 28, 25 except 2=-109(LC 8), 29=-147(LC 12), 30=-132(LC 12), 31=-132(LC 12), 32=-127(LC 12), 33=-177(LC 12), 24=-151(LC 13), 23=-132(LC 13), 22=-132(LC 13), 21=-127(LC 13), 20=-172(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except 27=252(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/302, 3-4=-282/248, 8-9=-246/301, 9-10=-298/340, 10-11=-298/340, 11-12=-246/274, 17-18=-308/211
BOT CHORD 2-33=-200/311, 32-33=-200/311, 31-32=-200/311, 30-31=-200/311, 29-30=-200/311, 28-29=-200/311, 27-28=-200/311, 25-27=-200/311, 24-25=-200/311, 23-24=-200/311, 22-23=-200/311, 21-22=-200/311, 20-21=-200/311, 18-20=-200/311

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) 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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 28, 25 except (jt=lb) 2=109, 29=147, 30=132, 31=132, 32=127, 33=177, 24=151, 23=132, 22=132, 21=127, 20=172.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	A1SG	GABLE	1	1	I53182510
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:31 2022 Page 1
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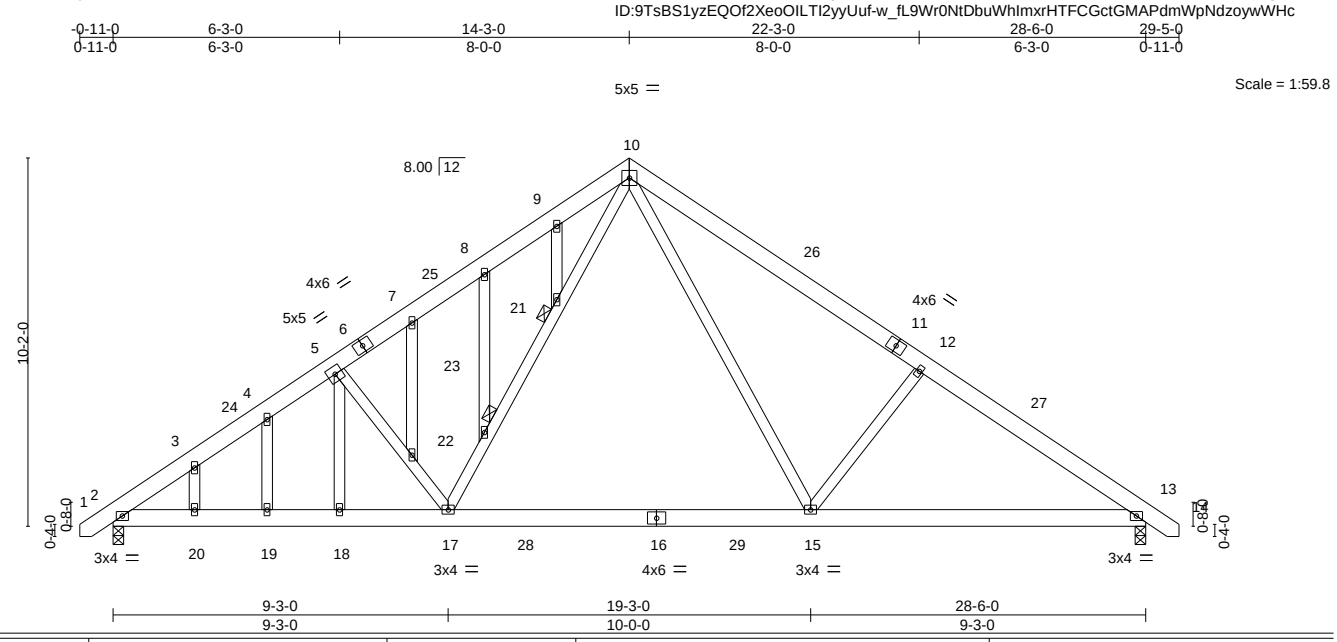

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.15	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.23	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	15-17	>999	240	Weight: 226 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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 21, 22

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-319(LC 10)
Max Uplift 2=-211(LC 12), 13=-211(LC 13)
Max Grav 2=1253(LC 19), 13=1253(LC 20)

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

TOP CHORD	2-3=-1783/526, 3-4=-1775/588, 4-5=-1745/620, 5-7=-1636/578, 7-8=-1705/649, 8-9=-1721/698, 9-10=-1697/702, 10-12=-1724/665, 12-13=-1807/625
BOT CHORD	2-20=-330/1564, 19-20=-330/1564, 18-19=-330/1564, 17-18=-331/1561, 15-17=-47/1008, 13-15=-381/1398
WEBS	10-15=-218/787, 12-15=-565/393, 17-22=-224/822, 21-22=-299/865, 10-21=-281/871, 5-23=-433/256, 17-23=-572/342

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 14-3-0, Exterior(2) 14-3-0 to 18-7-13, Interior(1) 18-7-13 to 29-3-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=211, 13=211.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	A2	COMMON	5	1	I53182511
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:32 2022 Page 1
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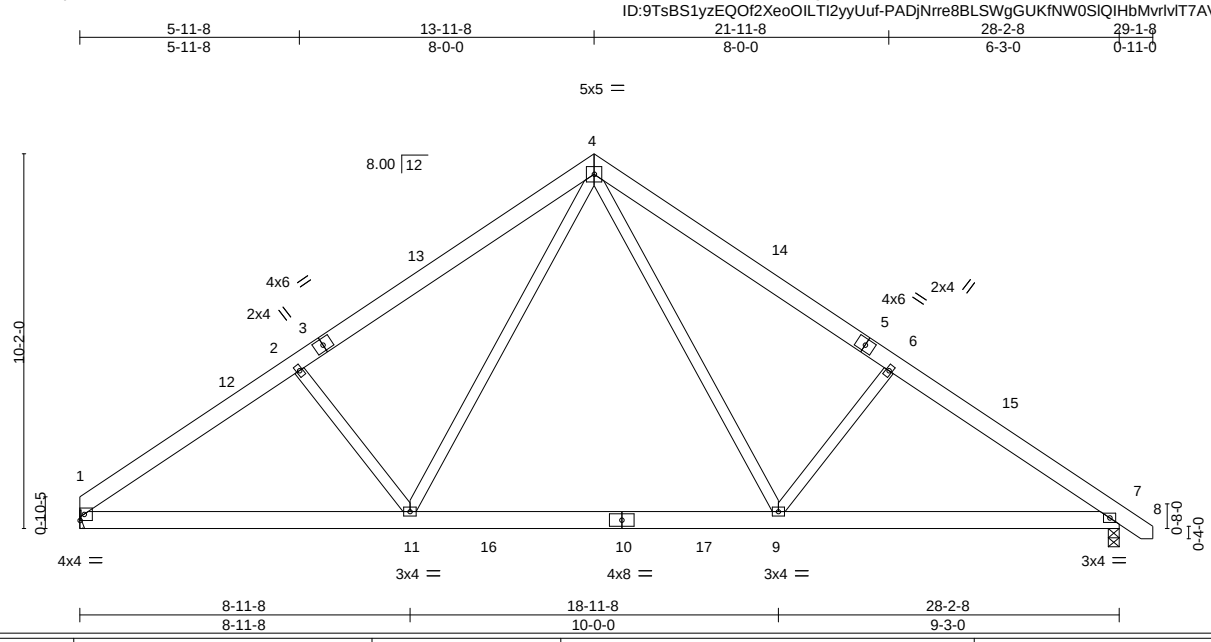

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.18	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.24	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.03	9-11	>999	240	Weight: 194 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 5-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 7=0-3-8
Max Horz 1=-316(LC 8)
Max Uplift 1=-188(LC 12), 7=-210(LC 13)
Max Grav 1=1191(LC 19), 7=1245(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1763/627, 2-4=-1686/670, 4-6=-1707/662, 6-7=-1790/622
BOT CHORD 1-11=-376/1589, 9-11=-46/995, 7-9=-383/1385
WEBS 4-9=-222/800, 6-9=-568/395, 4-11=-218/771, 2-11=-533/388

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) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 28-11-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=188, 7=210.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	B1	COMMON	8	1	I53182512
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:33 2022 Page 1
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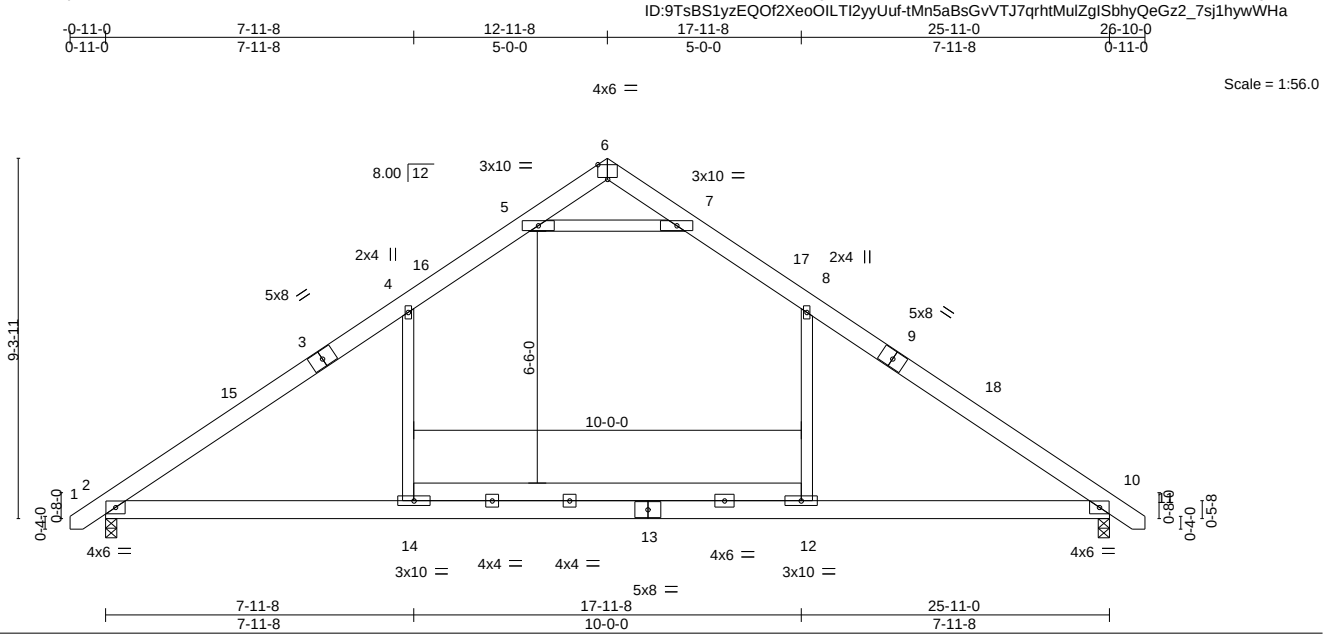

Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.26	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.43	12-14	>722	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.26	2-14	>999	240	Weight: 183 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 4-10-10 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=-292(LC 10)
Max Uplift 2=-194(LC 12), 10=-194(LC 13)
Max Grav 2=1255(LC 19), 10=1255(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1689/451, 4-5=-1185/524, 5-6=-264/772, 6-7=-264/773, 7-8=-1184/524, 8-10=-1690/451
BOT CHORD 2-14=-161/1274, 12-14=-164/1275, 10-12=-161/1274
WEBS 8-12=-6/553, 4-14=-4/551, 5-7=-2239/921

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-11-8, Exterior(2) 12-11-8 to 17-4-5, Interior(1) 17-4-5 to 26-8-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194, 10=194.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	B1GE	GABLE	1	1	I53182513
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:34 2022 Page 1
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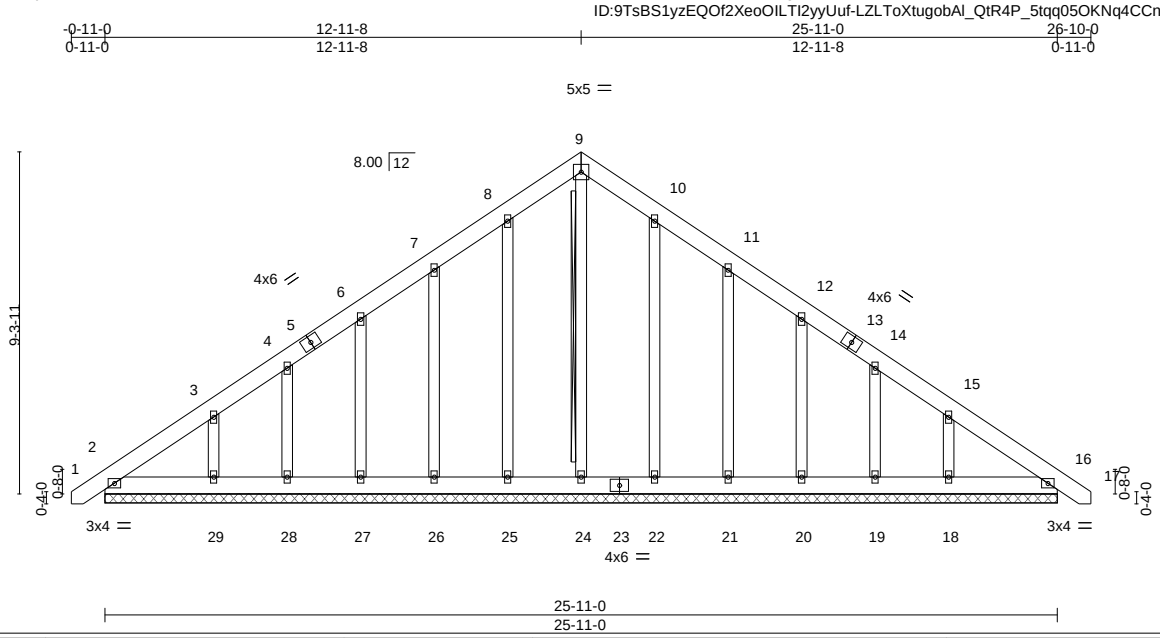

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	16	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	16	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 217 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.
WEBS T-Brace: 2x4 SPF No.2 - 9-24
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 25-11-0.
(lb) - Max Horz 2=365(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 22 except 25=-101(LC 12), 26=-145(LC 12), 27=-134(LC 12), 28=-114(LC 12), 29=-209(LC 12), 21=-149(LC 13), 20=-134(LC 13), 19=-114(LC 13), 18=-205(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19 except 29=282(LC 19), 18=278(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-340/270, 7-8=-218/269, 8-9=-273/310, 9-10=-273/310, 15-16=-257/175
BOT CHORD 2-29=-180/283, 28-29=-180/283, 27-28=-180/283, 26-27=-180/283, 25-26=-180/283, 24-25=-180/283, 22-24=-180/283, 21-22=-180/283, 20-21=-180/283, 19-20=-180/283, 18-19=-180/283, 16-18=-180/283
WEBS 3-29=-267/227, 15-18=-267/224

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) 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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 22 except (jt=lb) 25=101, 26=145, 27=134, 28=114, 29=209, 21=149, 20=134, 19=114, 18=205.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	B2	COMMON	2	1	I53182514
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:35 2022 Page 1
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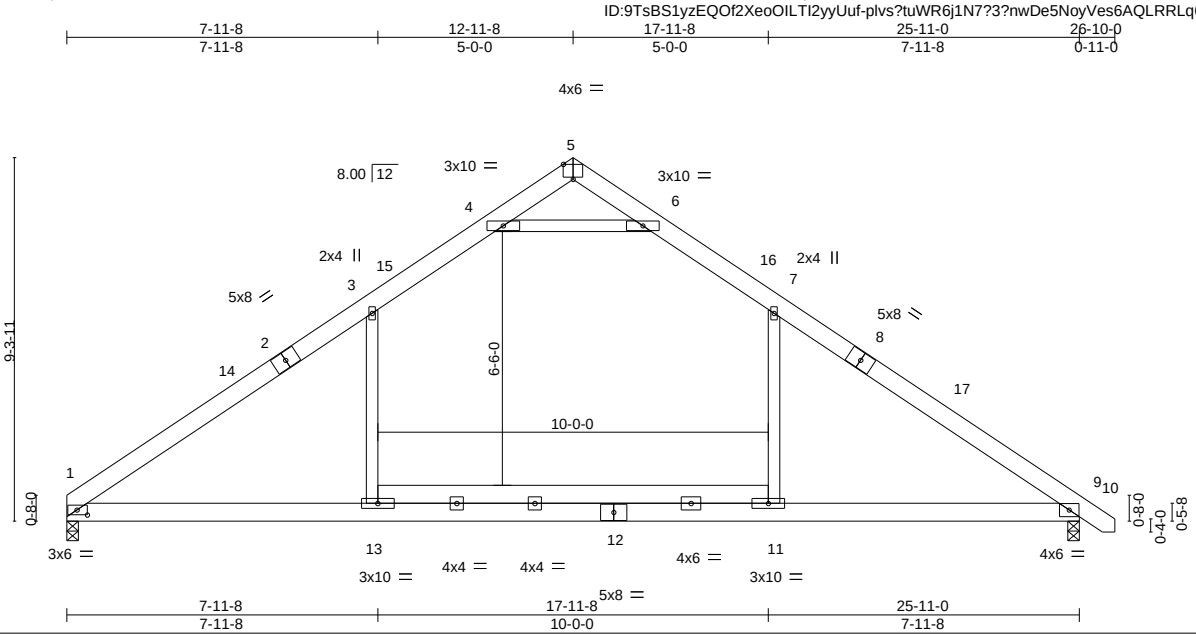

Plate Offsets (X,Y)-- [1:0-3-3,0-1-8], [5:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.43	11-13	>715	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.26	1-13	>999	240	Weight: 181 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 4-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-288(LC 8)
Max Uplift 1=-173(LC 12), 9=-194(LC 13)
Max Grav 1=1202(LC 19), 9=1255(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1683/449, 3-4=-1187/531, 4-5=-267/777, 5-6=-279/778, 6-7=-1183/523, 7-9=-1692/452
BOT CHORD 1-13=-168/1275, 11-13=-171/1276, 9-11=-168/1275
WEBS 7-11=-6/557, 3-13=-5/539, 4-6=-2250/945

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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-11-8, Exterior(2) 12-11-8 to 17-4-5, Interior(1) 17-4-5 to 26-8-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=173, 9=194.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	C1	ATTIC	3	1	I53182515
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:36 2022 Page 1
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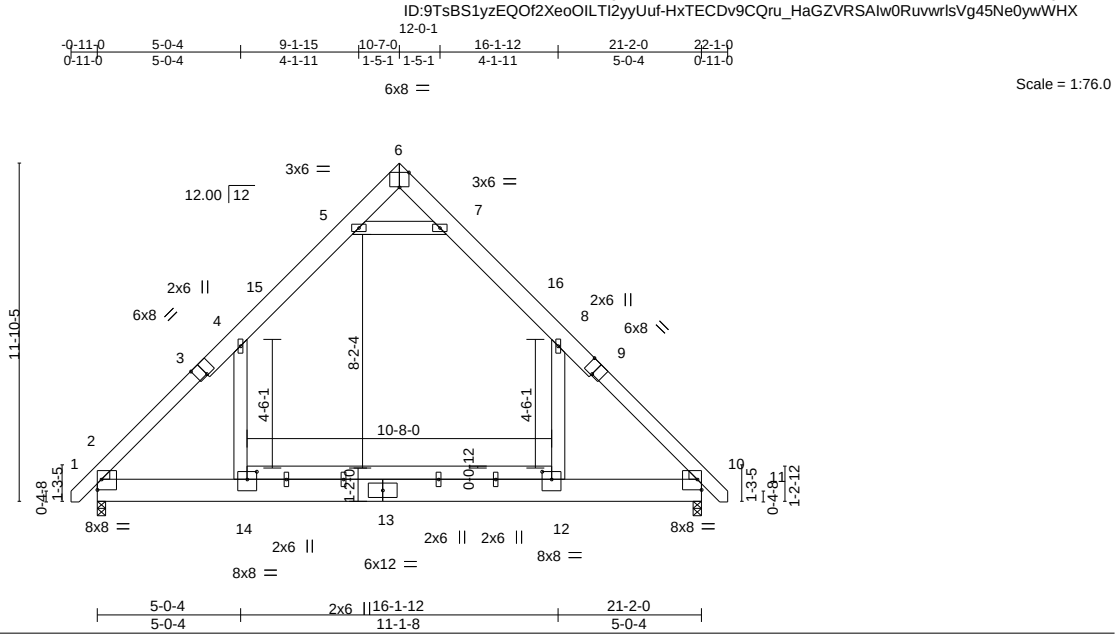

Plate Offsets (X,Y)-- [2:Edge,0-4-6], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:Edge,0-4-6], [12:0-4-0,0-3-4], [14:0-4-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.20	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.34	12-14	>726	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	12-14	>999	240	Weight: 232 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except* 12-14: 2x6 SP No.1
WEBS 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 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=359(LC 11)
Max Grav 2=1416(LC 20), 10=1416(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1859/64, 4-5=-991/278, 5-6=-127/647, 6-7=-127/648, 7-8=-991/278, 8-10=-1859/64
BOT CHORD 2-14=0/1050, 12-14=0/1050, 10-12=0/1050
WEBS 8-12=0/904, 4-14=0/904, 5-7=-1886/542

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) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 10-7-0, Exterior(2) 10-7-0 to 14-11-13, Interior(1) 14-11-13 to 21-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-14
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Attic room checked for L/360 deflection.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	C1GE	GABLE	1	1	I53182516
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:37 2022 Page 1
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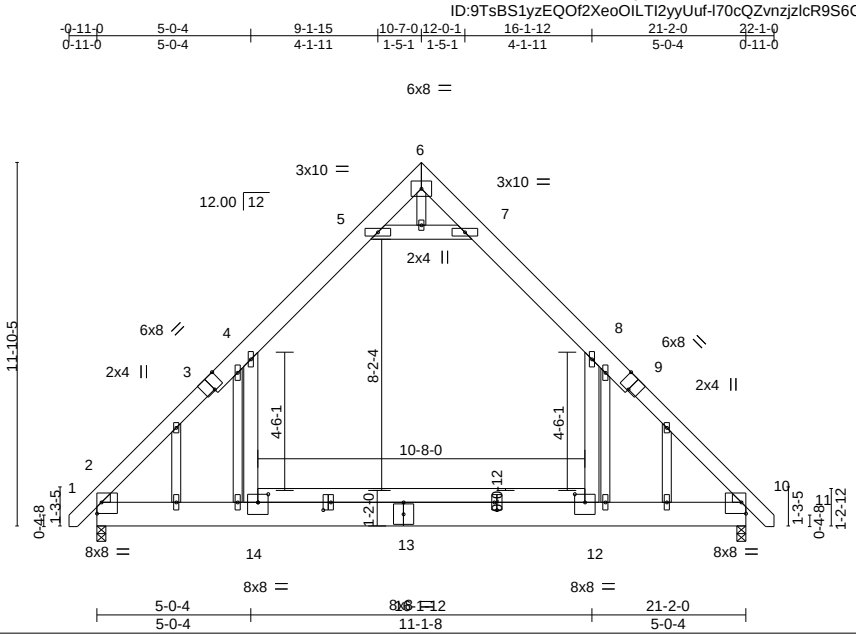

Plate Offsets (X,Y)-- [2:Edge,0-4-6], [3:0-4-0,Edge], [9:0-4-0,Edge], [10:Edge,0-4-6], [12:0-4-0,0-3-4], [13:0-3-0,2-1-8], [13:0-3-0,3-0-8], [14:0-4-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.20	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.34	12-14	>726	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.14	12-14	>999	240	Weight: 254 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except* 12-14: 2x6 SP No.1
WEBS 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 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=449(LC 11)
Max Uplift 2=-102(LC 12), 10=-102(LC 13)
Max Grav 2=1408(LC 20), 10=1408(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1886/154, 4-5=-996/317, 5-6=-152/655, 6-7=-153/656, 7-8=-996/317, 8-10=-1885/153
BOT CHORD 2-14=0/1082, 12-14=0/1082, 10-12=0/1082
WEBS 8-12=-15/919, 4-14=-15/919, 5-7=-1886/683

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) 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 2x6 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-14
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102, 10=102.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Attic room checked for L/360 deflection.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	C2	ATTIC	4	1	I53182517
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:38 2022 Page 1
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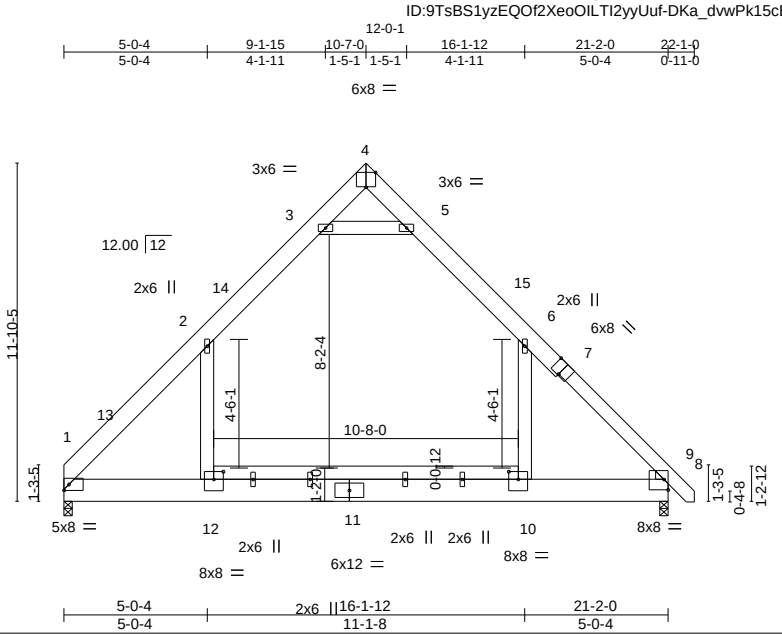

Plate Offsets (X,Y)-- [4:0-4-0,Edge], [7:0-4-0,Edge], [8:Edge,0-4-6], [10:0-4-0,0-3-4], [12:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.20	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.35	10-12	>715	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.10	10-12	>999	240	Weight: 233 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1 *Except*
7-9: 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
10-12: 2x6 SP No.1
WEBS 2x6 SP No.1
WEDGE
Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=-357(LC 8)
Max Grav 1=1375(LC 21), 8=1416(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1841/34, 2-3=-992/278, 3-4=-121/640, 4-5=-122/650, 5-6=-991/279, 6-8=-1855/61
BOT CHORD 1-12=0/1048, 10-12=0/1048, 8-10=0/1048
WEBS 6-10=0/902, 2-12=0/886, 3-5=-1870/542

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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-7-0, Exterior(2) 10-7-0 to 14-11-13, Interior(1) 14-11-13 to 21-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-10, 2-12
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Attic room checked for L/360 deflection.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	C3	ATTIC	1	1	I53182518
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:39 2022 Page 1
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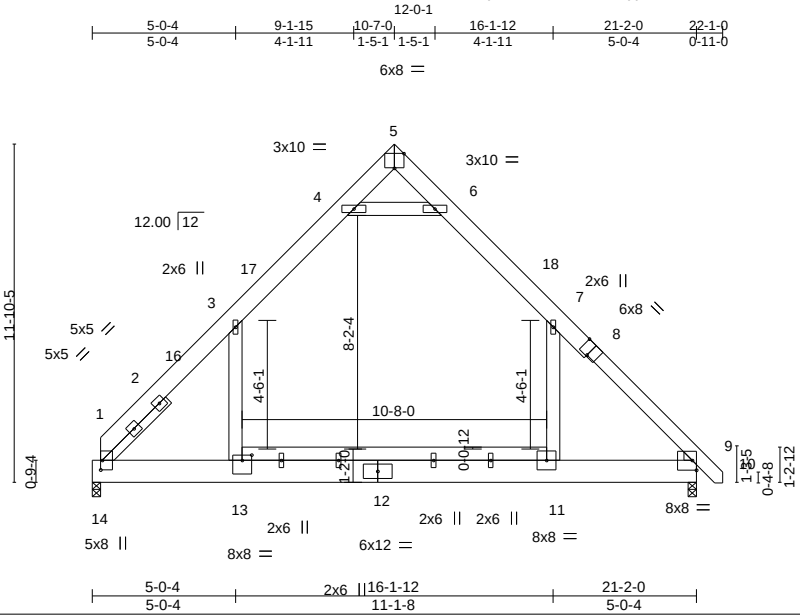

Plate Offsets (X,Y)-- [1:0-4-0,0-0-11], [5:0-4-0,Edge], [8:0-4-0,Edge], [9:Edge,0-4-2], [13:0-4-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.20	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.36	11-13	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.11	11-13	>999	240	Weight: 236 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1 *Except* 8-10: 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except* 11-13: 2x6 SP No.1
WEBS 2x6 SP No.1
WEDGE Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.2 3-1-11

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Horz 14=-360(LC 10)
Max Grav 14=1396(LC 21), 9=1401(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1959/62, 3-4=-1007/279, 4-5=-126/683, 5-6=-120/668, 6-7=-1028/284, 7-9=-1776/66
BOT CHORD 1-14=-352/360, 1-13=0/1087, 11-13=0/1087, 9-11=0/1081
WEBS 7-11=0/783, 3-13=0/997, 4-6=-1935/548

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) 0-3-8 to 4-8-5, Interior(1) 4-8-5 to 10-7-0, Exterior(2) 10-7-0 to 14-11-13, Interior(1) 14-11-13 to 21-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).7-11, 3-13
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Attic room checked for L/360 deflection.

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Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	C3-GR	ATTIC	1	2	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.530 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 20 11:48:24 2022 Page 1
ID:9TsBS1yzEQOf2XeoOILTI2yyUuf-u?_XJ7LjXcLxWqpyE6hX99Q4tsdFhD91uzL8x4ywLXb

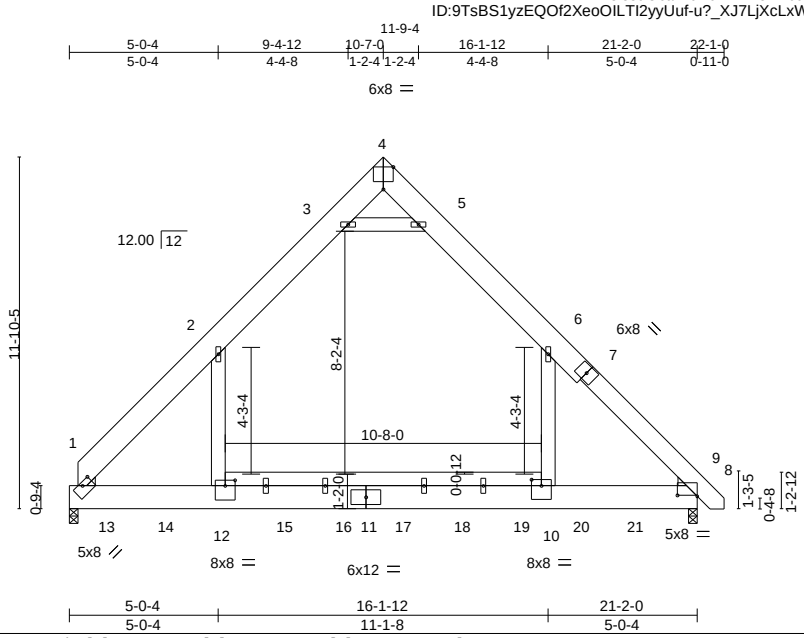

Plate Offsets (X,Y)-- [1:0-4-0,0-1-4], [4:0-4-0,Edge], [8:0-8-0,0-0-6], [10:0-4-0,0-2-8], [12:0-4-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.17	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	10-12	>999	240	Weight: 512 lb	FT = 20%

LUMBER-
TOP CHORD 2x10 SP No.1 *Except* 7-9: 2x8 SP No.1
BOT CHORD 2x10 SP No.1 *Except* 10-12: 2x6 SP No.1
WEBS 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. (lb/size) 1=1392/0-3-8, 8=1259/0-3-8
Max Horz 1=-353(LC 4)
Max Grav 1=2374(LC 14), 8=2047(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2740/0, 2-3=-1280/139, 3-4=-66/1351, 4-5=-71/1291, 5-6=-1334/142, 6-7=-2579/0, 7-8=-2706/0
BOT CHORD 1-13=0/1474, 13-14=0/1474, 12-14=0/1474, 12-15=0/1490, 15-16=0/1490, 11-16=0/1490, 11-17=0/1490, 17-18=0/1490, 18-19=0/1490, 10-19=0/1490, 10-20=0/1475, 20-21=0/1475, 8-21=0/1475
WEBS 6-10=0/1930, 2-12=0/2079, 3-5=-3358/212

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) All plates are 2x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-10, 2-12
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 320 lb down at 1-1-12, 320 lb down at 5-1-12, 320 lb down at 7-1-12, 320 lb down at 9-1-12, 139 lb down and 99 lb up at 11-1-12, 139 lb down and 99 lb up at 13-1-12, 139 lb down and 99 lb up at 15-1-12, 139 lb down and 99 lb up at 17-1-12, and 139 lb down and 99 lb up at 18-11-12, and 132 lb down and 18 lb up at 3-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) 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=-80, 3-4=-60, 4-5=-60, 5-6=-80, 6-9=-60, 1-12=-20, 10-12=-40, 8-10=-20, 3-5=-20
   Drag: 6-10=-10, 2-12=-10
   Concentrated Loads (lb)
   Vert: 12=-73(B) 13=-73(B) 14=-73(B) 15=-73(B) 16=-73(B) 17=-3(B) 18=-3(B) 19=-3(B) 20=-3(B) 21=-3(B)

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Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	D1-GR	Common Girder	1	2	I53182520
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:42 2022 Page 1
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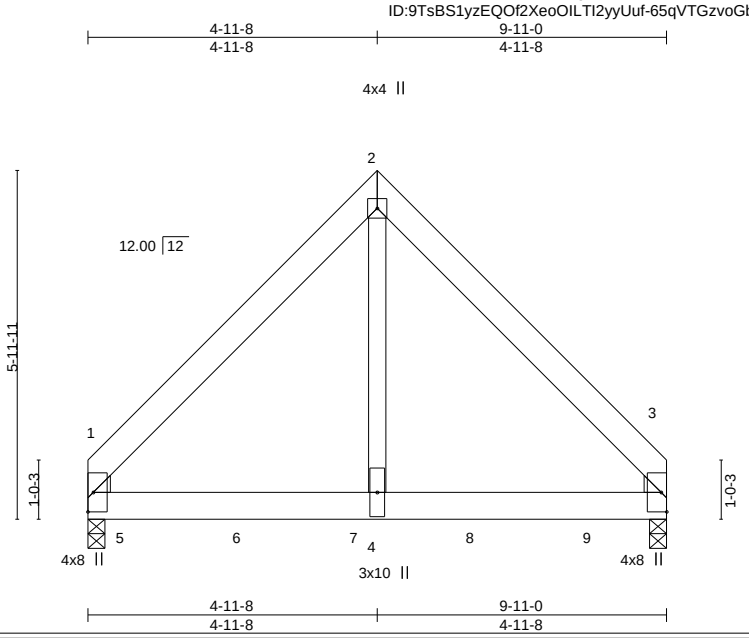

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.03	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.06	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.03	3-4	>999	240	Weight: 132 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=-173(LC 25)
Max Uplift 1=-590(LC 9), 3=-528(LC 8)
Max Grav 1=3316(LC 1), 3=2955(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2510/495, 2-3=-2509/495
BOT CHORD 1-4=-291/1646, 3-4=-291/1646
WEBS 2-4=-534/3269

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=590, 3=528.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1104 lb down and 203 lb up at 0-7-12, 1099 lb down and 208 lb up at 2-7-12, 1099 lb down and 208 lb up at 4-7-12, and 1099 lb down and 208 lb up at 6-7-12, and 1099 lb down and 208 lb up at 8-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-3=-60, 1-3=-20
   Concentrated Loads (lb)
   Vert: 5=-1104(B) 6=-1099(B) 7=-1099(B) 8=-1099(B) 9=-1099(B)

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	D1GE	COMMON SUPPORTED GAB	1	1	I53182521
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:41 2022 Page 1
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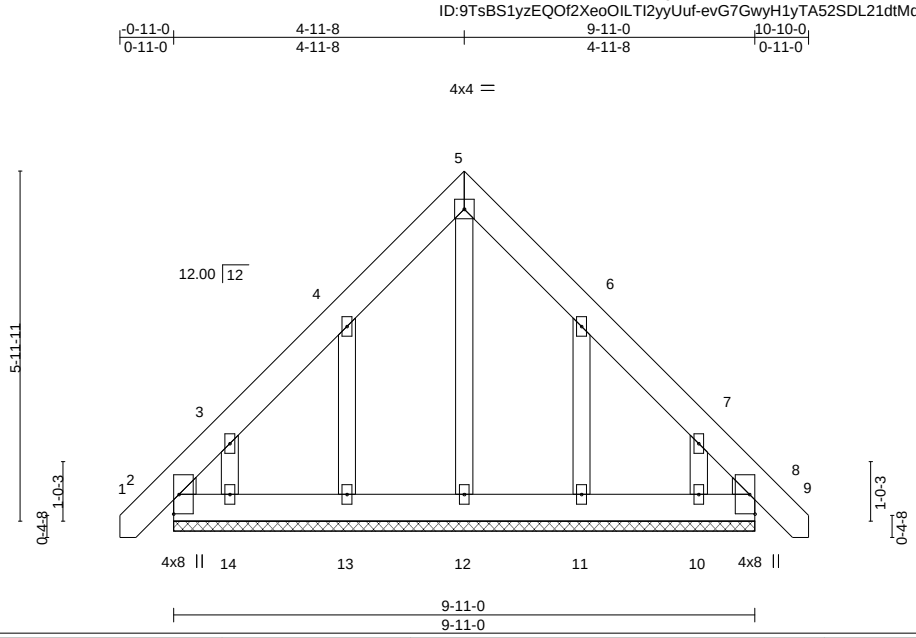

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 83 lb	FT = 20%

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

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

REACTIONS. All bearings 9-11-0.
(lb) - Max Horz 2=-229(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 2=-109(LC 8), 13=-201(LC 12), 14=-243(LC 12), 11=-197(LC 13), 10=-236(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=-286/183, 7-8=-253/163

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) 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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=109, 13=201, 14=243, 11=197, 10=236.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	M1	MONOPITCH	2	1	I53182522
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:43 2022 Page 1
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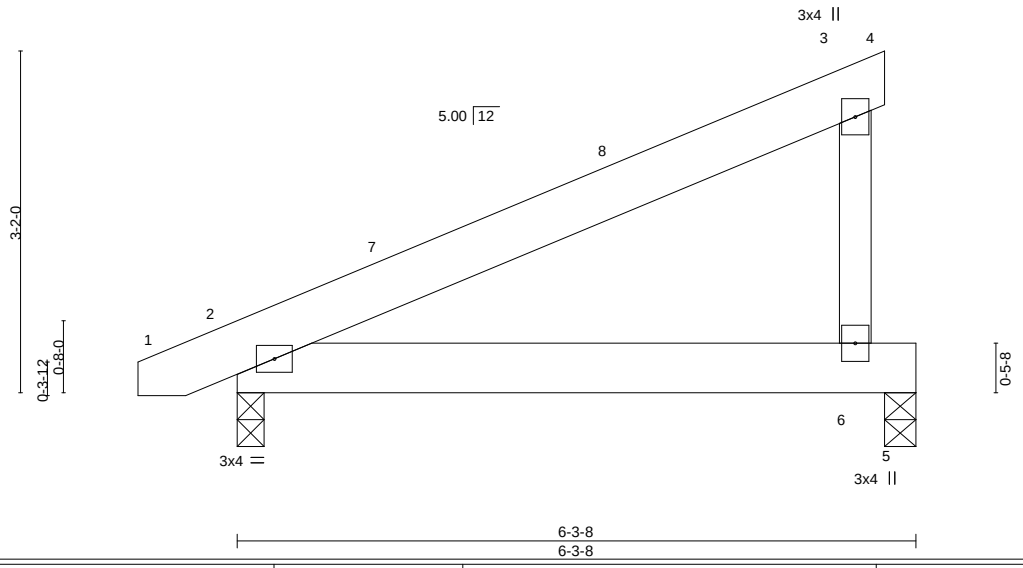

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.06	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 36 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 5=0-3-8
Max Horz 2=119(LC 12)
Max Uplift 2=-129(LC 8), 5=-124(LC 8)
Max Grav 2=293(LC 1), 5=219(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-179/291

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) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 6-0-0 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) 2=129, 5=124.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	M1GE	MONOPITCH SUPPORTED	1	1	I53182523
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:44 2022 Page 1
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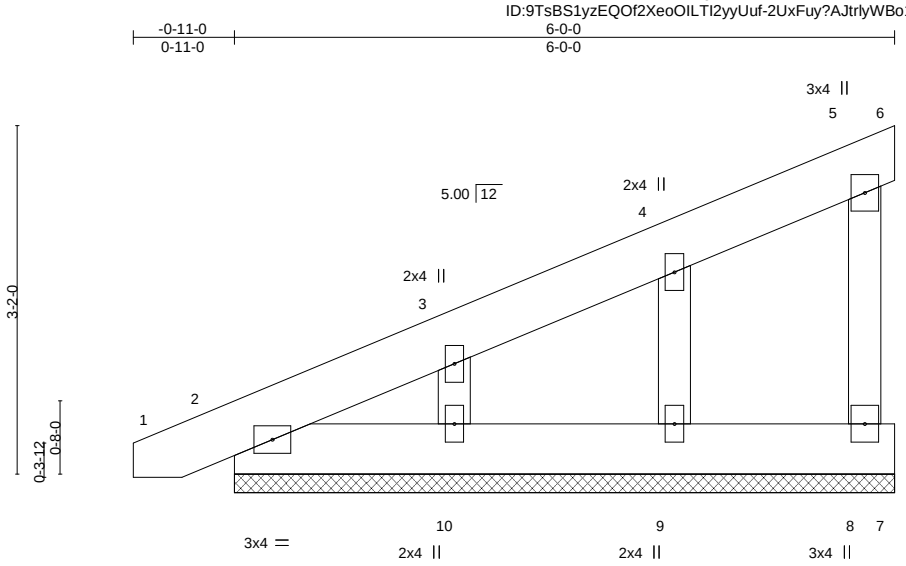

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 38 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

BRACING-

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

REACTIONS. All bearings 6-0-0.
(lb) - Max Horz 2=172(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9 except 10=-120(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10

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

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) 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 9 except (jt=lb) 10=120.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	M2	ROOF SPECIAL	4	1	I53182524
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:44 2022 Page 1
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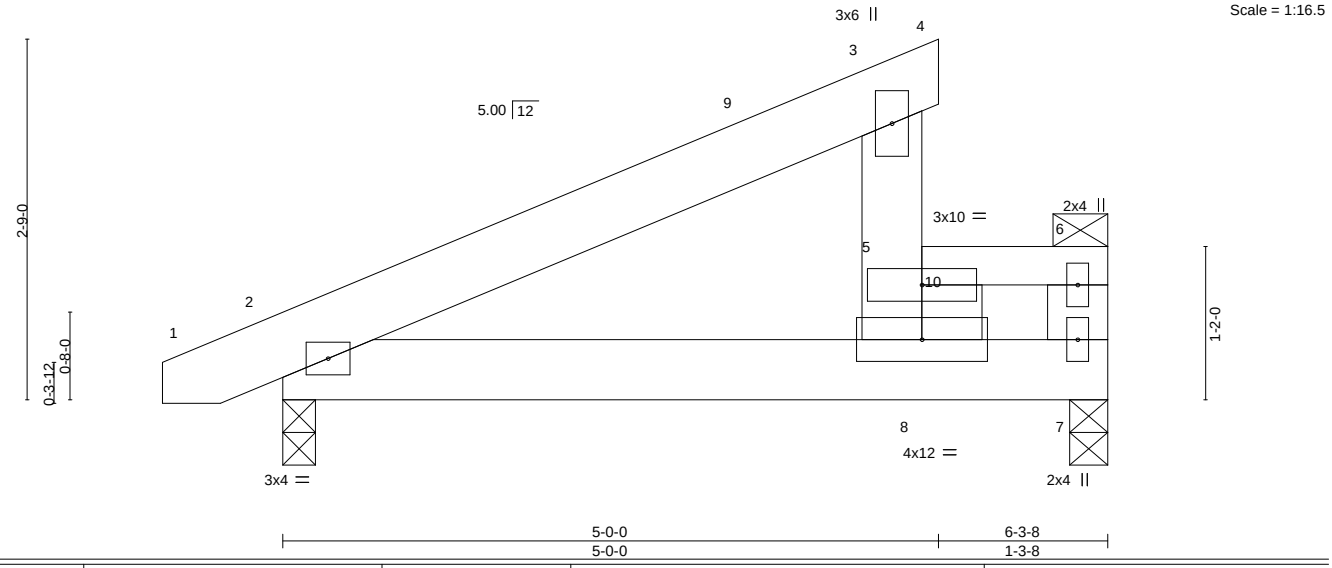

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.02	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	2-8	>999	240	Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
5-6: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-8, 5-6. Except: 6-0-0 oc bracing: 3-5
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 7=0-3-8
Max Horz 2=101(LC 12)
Max Uplift 2=-75(LC 8)
Max Grav 2=349(LC 1), 7=627(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-377/187, 5-8=-460/11
BOT CHORD 2-8=-284/316

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); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) C-C wind load user defined.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-7=-20, 5-10=-20, 6-10=-60
Concentrated Loads (lb)
Vert: 10=-345(F)

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LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-50, 3-4=-50, 2-7=-20, 5-10=-20, 6-10=-50
   Concentrated Loads (lb)
      Vert: 10=-503(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-20, 3-4=-20, 2-7=-40, 5-6=-20
   Concentrated Loads (lb)
      Vert: 10=-345(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=98, 2-9=82, 3-9=42, 3-4=207, 2-7=73, 5-6=47
      Horz: 1-2=-110, 2-9=-94, 3-9=-54, 3-4=-219
   Concentrated Loads (lb)
      Vert: 10=-345(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=73, 2-3=82, 3-4=73, 2-7=73, 5-6=87
      Horz: 1-2=-85, 2-3=-94, 3-4=-85
   Concentrated Loads (lb)
      Vert: 10=-345(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=5, 2-3=-54, 3-4=30, 2-7=-5, 5-6=-44
      Horz: 1-2=-25, 2-3=34, 3-4=-50
   Concentrated Loads (lb)
      Vert: 10=-345(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=-45, 2-3=-54, 3-4=-45, 2-7=-5, 5-6=-44
      Horz: 1-2=25, 2-3=34, 3-4=25
   Concentrated Loads (lb)
      Vert: 10=-345(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=40, 2-3=20, 3-4=11, 2-7=18, 5-6=15
      Horz: 1-2=-52, 2-3=-32, 3-4=-23
   Concentrated Loads (lb)
      Vert: 10=-345(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=11, 2-3=20, 3-4=41, 2-7=-12, 5-6=31
      Horz: 1-2=-23, 2-3=-32, 3-4=-53
   Concentrated Loads (lb)
      Vert: 10=-345(F)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=3, 2-3=-6, 3-4=3, 2-7=10, 5-6=-11
      Horz: 1-2=-23, 2-3=-14, 3-4=-23
   Concentrated Loads (lb)
      Vert: 10=-345(F)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=3, 2-3=-6, 3-4=3, 2-7=-20, 5-6=5
      Horz: 1-2=-23, 2-3=-14, 3-4=-23
   Concentrated Loads (lb)
      Vert: 10=-345(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=22, 2-3=31, 3-4=22, 2-7=-12, 5-6=15
      Horz: 1-2=-34, 2-3=-43, 3-4=-34
   Concentrated Loads (lb)
      Vert: 10=-345(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=6, 2-3=15, 3-4=6, 2-7=-12, 5-6=31
      Horz: 1-2=-18, 2-3=-27, 3-4=-18
   Concentrated Loads (lb)
      Vert: 10=-345(F)
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=22, 2-3=31, 3-4=22, 2-7=-12, 5-6=15
      Horz: 1-2=-34, 2-3=-43, 3-4=-34
   Concentrated Loads (lb)
      Vert: 10=-345(F)

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LOAD CASE(S)

15) 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=6, 2-7=-12, 5-6=31
Horz: 1-2=-18, 2-3=-27, 3-4=-18
Concentrated Loads (lb)
Vert: 10=-345(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=14, 2-3=5, 3-4=14, 2-7=-20, 5-6=-11
Horz: 1-2=-34, 2-3=-25, 3-4=-34
Concentrated Loads (lb)
Vert: 10=-345(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=-2, 2-3=-11, 3-4=-2, 2-7=-20, 5-6=5
Horz: 1-2=-18, 2-3=-9, 3-4=-18
Concentrated Loads (lb)
Vert: 10=-345(F)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 2-7=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 10=-450(F)

19) 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=-33, 2-3=-40, 3-4=-33, 2-7=2, 5-10=-13, 6-10=-43
Horz: 1-2=-17, 2-3=-10, 3-4=-17
Concentrated Loads (lb)
Vert: 10=-503(F)

20) 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=-33, 2-3=-39, 3-4=-33, 2-7=-20, 5-10=-1, 6-10=-31
Horz: 1-2=-17, 2-3=-11, 3-4=-17
Concentrated Loads (lb)
Vert: 10=-503(F)

21) 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=-24, 2-7=-20, 5-10=-13, 6-10=-43
Horz: 1-2=-26, 2-3=-19, 3-4=-26
Concentrated Loads (lb)
Vert: 10=-503(F)

22) 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=-36, 2-7=-20, 5-10=-1, 6-10=-31
Horz: 1-2=-14, 2-3=-7, 3-4=-14
Concentrated Loads (lb)
Vert: 10=-503(F)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-7=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 10=-345(F)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 2-7=-20, 5-10=-20, 6-10=-60
Concentrated Loads (lb)
Vert: 10=-345(F)

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 2-7=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 10=-503(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 2-7=-20, 5-10=-20, 6-10=-50
Concentrated Loads (lb)
Vert: 10=-503(F)

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	M2-GR	ROOF SPECIAL	2	2	I53182525
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:45 2022 Page 1
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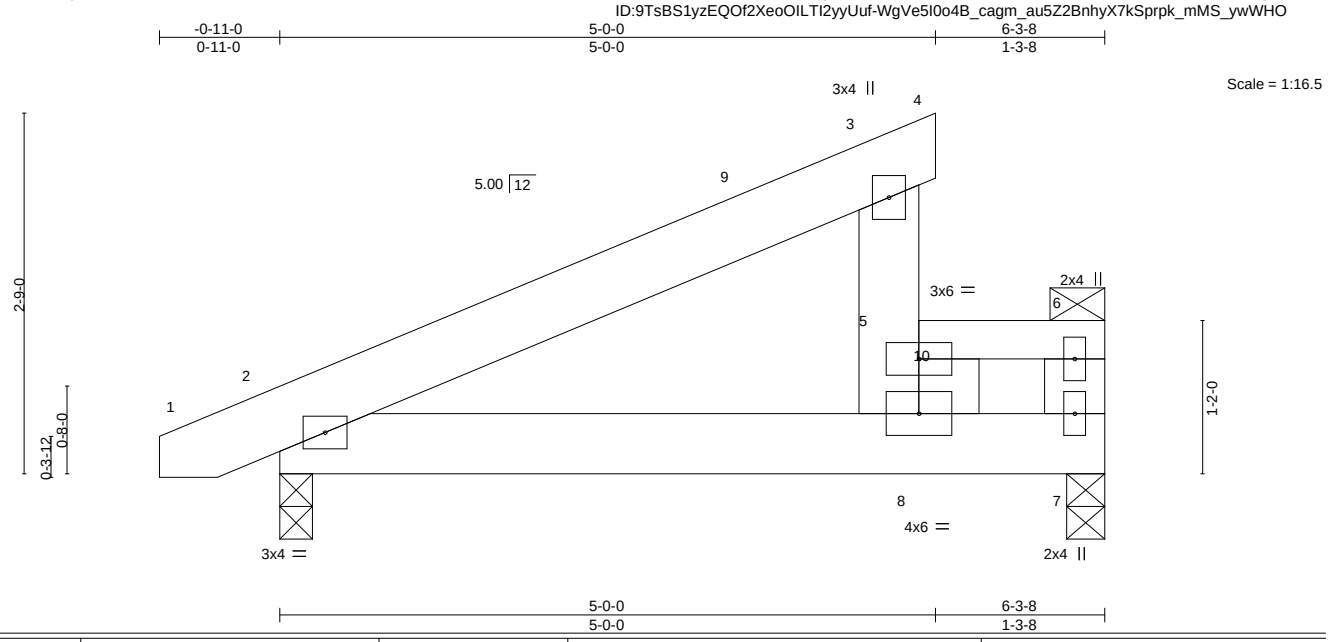

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	2-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.00	8	>999	240	Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
5-6: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-8, 5-6. Except: 6-0-0 oc bracing: 3-5
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 7=0-3-8
Max Horz 2=101(LC 12)
Max Uplift 2=-38(LC 12)
Max Grav 2=312(LC 1), 7=1947(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-287/64
WEBS 6-7=-1776/0

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 2 rows staggered at 0-2-0 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 6-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard Except:

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TRENCO
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LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-4=-60, 2-7=-20, 5-10=-140(F=-120), 6-10=-180(F=-120)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-50, 3-4=-50, 2-7=-20, 5-10=-140(F=-120), 6-10=-170(F=-120)
   Concentrated Loads (lb)
   Vert: 6=-1256(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-20, 3-4=-20, 2-7=-40, 5-6=-140(F=-120)
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=98, 2-9=82, 3-9=42, 3-4=207, 2-7=-12, 5-6=-73(F=-120)
   Horz: 1-2=-110, 2-9=-94, 3-9=-54, 3-4=-219
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=73, 2-3=82, 3-4=73, 2-7=-12, 5-6=-33(F=-120)
   Horz: 1-2=-85, 2-3=-94, 3-4=-85
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=5, 2-3=-54, 3-4=30, 2-7=-20, 5-6=-164(F=-120)
   Horz: 1-2=-25, 2-3=34, 3-4=-50
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=-45, 2-3=-54, 3-4=-45, 2-7=-20, 5-6=-164(F=-120)
   Horz: 1-2=25, 2-3=34, 3-4=25
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=40, 2-3=20, 3-4=11, 2-7=-12, 5-6=-105(F=-120)
   Horz: 1-2=-52, 2-3=-32, 3-4=-23
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=11, 2-3=20, 3-4=41, 2-7=-12, 5-6=-89(F=-120)
   Horz: 1-2=-23, 2-3=-32, 3-4=-53
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=3, 2-3=-6, 3-4=3, 2-7=-20, 5-6=-131(F=-120)
    Horz: 1-2=-23, 2-3=-14, 3-4=-23
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=3, 2-3=-6, 3-4=3, 2-7=-20, 5-6=-115(F=-120)
    Horz: 1-2=-23, 2-3=-14, 3-4=-23
12) 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=22, 2-7=-12, 5-6=-105(F=-120)
    Horz: 1-2=-34, 2-3=-43, 3-4=-34
13) 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=6, 2-7=-12, 5-6=-89(F=-120)
    Horz: 1-2=-18, 2-3=-27, 3-4=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=22, 2-3=31, 3-4=22, 2-7=-12, 5-6=-105(F=-120)
    Horz: 1-2=-34, 2-3=-43, 3-4=-34
15) 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=6, 2-7=-12, 5-6=-89(F=-120)
    Horz: 1-2=-18, 2-3=-27, 3-4=-18
16) 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=14, 2-7=-20, 5-6=-131(F=-120)
    Horz: 1-2=-34, 2-3=-25, 3-4=-34
17) 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=-2, 2-7=-20, 5-6=-115(F=-120)
    Horz: 1-2=-18, 2-3=-9, 3-4=-18
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-3=-20, 3-4=-20, 2-7=-20, 5-6=-140(F=-120)
    Concentrated Loads (lb)
    Vert: 6=-1674(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

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Edenton, NC 27932

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-40, 3-4=-33, 2-7=-20, 5-10=-133(F=-120), 6-10=-163(F=-120)
Horz: 1-2=-17, 2-3=-10, 3-4=-17
Concentrated Loads (lb)
Vert: 6=-1256(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=-33, 2-3=-39, 3-4=-33, 2-7=-20, 5-10=-121(F=-120), 6-10=-151(F=-120)
Horz: 1-2=-17, 2-3=-11, 3-4=-17
Concentrated Loads (lb)
Vert: 6=-1256(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=-24, 2-3=-31, 3-4=-24, 2-7=-20, 5-10=-133(F=-120), 6-10=-163(F=-120)
Horz: 1-2=-26, 2-3=-19, 3-4=-26
Concentrated Loads (lb)
Vert: 6=-1256(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=-36, 2-3=-43, 3-4=-36, 2-7=-20, 5-10=-121(F=-120), 6-10=-151(F=-120)
Horz: 1-2=-14, 2-3=-7, 3-4=-14
Concentrated Loads (lb)
Vert: 6=-1256(F)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-7=-20, 5-6=-140(F=-120)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 2-7=-20, 5-10=-140(F=-120), 6-10=-180(F=-120)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 2-7=-20, 5-6=-140(F=-120)
Concentrated Loads (lb)
Vert: 6=-1256(F)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 2-7=-20, 5-10=-140(F=-120), 6-10=-170(F=-120)
Concentrated Loads (lb)
Vert: 6=-1256(F)

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	V1	VALLEY	1	1	I53182526
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:46 2022 Page 1
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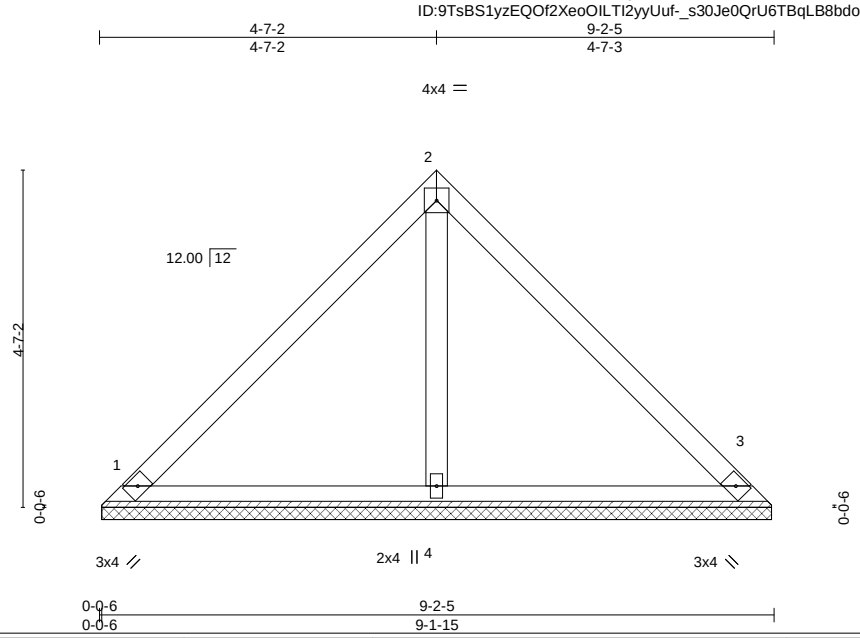

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 37 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=9-1-9, 3=9-1-9, 4=9-1-9
Max Horz 1=-135(LC 8)
Max Uplift 1=-51(LC 13), 3=-51(LC 13), 4=-17(LC 12)
Max Grav 1=192(LC 1), 3=193(LC 1), 4=294(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=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
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	V2	VALLEY	1	1	I53182527
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:46 2022 Page 1
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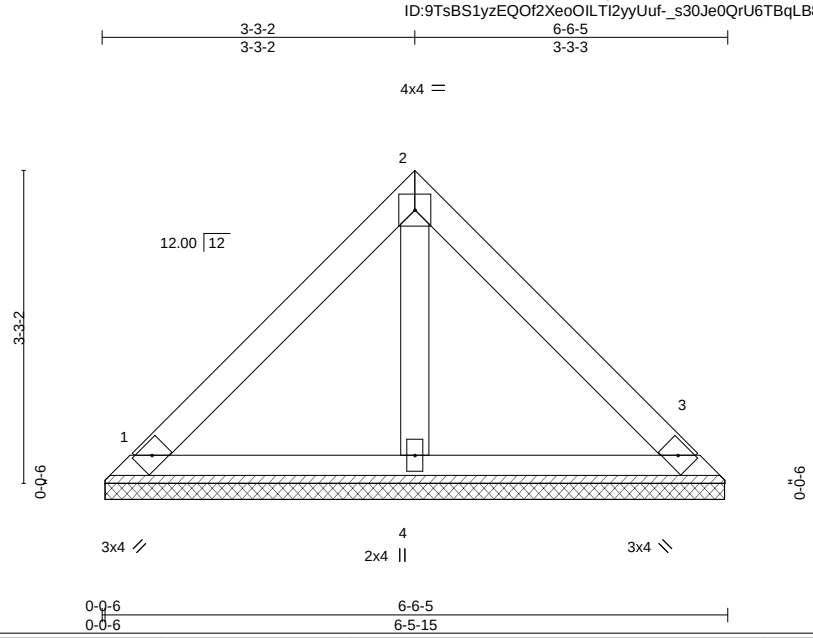

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 26 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=6-5-9, 3=6-5-9, 4=6-5-9
Max Horz 1=-93(LC 8)
Max Uplift 1=-46(LC 13), 3=-46(LC 13)
Max Grav 1=142(LC 1), 3=142(LC 1), 4=182(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=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
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) 1, 3.
6) Non Standard bearing condition. Review required.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5618	V3	VALLEY	1	1	I53182528
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:34:47 2022 Page 1
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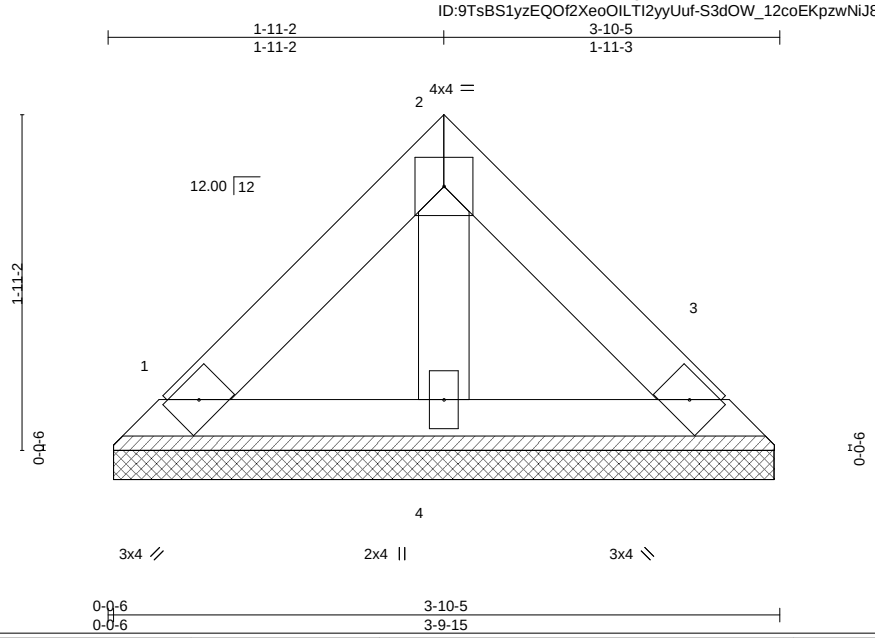


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 14 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 3-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-9-9, 3=3-9-9, 4=3-9-9
Max Horz 1=-50(LC 8)
Max Uplift 1=-25(LC 13), 3=-25(LC 13)
Max Grav 1=77(LC 1), 3=77(LC 1), 4=99(LC 1)

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

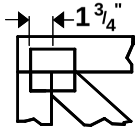
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 1, 3.
6) N/A
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

July 20,2022

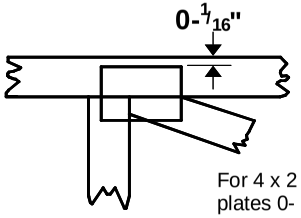
TRENCO
818 Soundside Road
Edenton, NC 27932

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

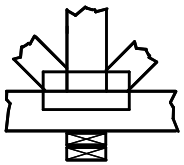
4 x 4

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

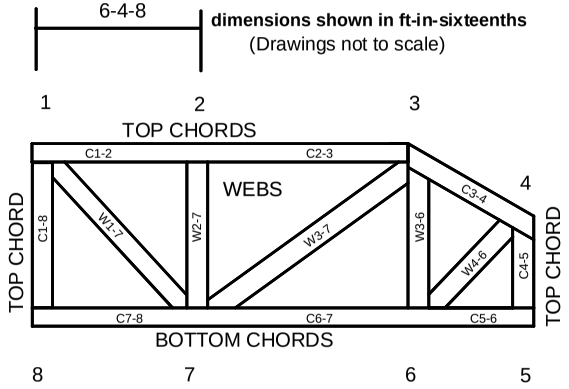


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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.

MiTek Engineering Reference Sheet: MII-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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5618
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	Net 10 Days
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
89 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 122 Hidden Lakes **LOT #** 122 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 5 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 113 Hidden Lakes (J0722-3619)

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
	PLY	TOP	BOT			TOP	BOT	LEFT	RIGHT	
	3	8.00	0.00	COMMON A1	28-06-00 28-06-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 1253.0 lbs. -211.2 lbs. Joint 8 1253.0 lbs. -211.2 lbs.
	1	8.00	0.00	GABLE A1GE	28-06-00 28-06-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 218.3 lbs. -109.2 lbs. Joint 18 158.5 lbs. -30.4 lbs. Joint 20 223.8 lbs. -171.6 lbs. Joint 21 181.1 lbs. -127.3 lbs. Joint 22 190.0 lbs. -132.3 lbs.
	1	8.00	0.00	GABLE A1SG	28-06-00 28-06-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 1253.0 lbs. -211.2 lbs. Joint 13 1253.0 lbs. -211.2 lbs.
	5	8.00	0.00	COMMON A2	28-02-08 28-02-08	2 X 6	2 X 6		00-11-00	Joint 1 1191.3 lbs. -188.0 lbs. Joint 7 1245.2 lbs. -210.4 lbs.
	8	8.00	0.00	COMMON B1	25-11-00 25-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 1255.0 lbs. -193.6 lbs. Joint 10 1255.0 lbs. -193.6 lbs.
	1	8.00	0.00	GABLE B1GE	25-11-00 25-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 218.3 lbs. -85.2 lbs. Joint 16 167.9 lbs. -15.2 lbs. Joint 18 278.1 lbs. -205.0 lbs. Joint 19 161.7 lbs. -113.8 lbs. Joint 20 193.2 lbs. -134.1 lbs.
	2	8.00	0.00	COMMON B2	25-11-00 25-11-00	2 X 6	2 X 6		00-11-00	Joint 1 1202.0 lbs. -173.1 lbs. Joint 9 1255.4 lbs. -193.8 lbs.
	3	12.00	0.00	ATTIC C1	21-02-00 21-02-00	2 X 8	2 X 10	00-11-00	00-11-00	Joint 2 1415.6 lbs. 53.1 lbs. Joint 10 1415.6 lbs. 53.1 lbs.
	1	12.00	0.00	GABLE C1GE	21-02-00 21-02-00	2 X 8	2 X 10	00-11-00	00-11-00	Joint 2 1408.2 lbs. -101.8 lbs. Joint 10 1408.2 lbs. -101.8 lbs.
	4	12.00	0.00	ATTIC C2	21-02-00 21-02-00	2 X 8	2 X 10		00-11-00	Joint 1 1375.3 lbs. 64.7 lbs. Joint 8 1416.3 lbs. 53.0 lbs.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5618
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	Net 10 Days
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
89 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 122 Hidden Lakes **LOT #** 122 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 5 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 113 Hidden Lakes (J0722-3619)

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	1	12.00	0.00	ATTIC C3	21-02-00 21-02-00	2 X 8	2 X 10		00-11-00	Joint 9 1400.6 lbs. 53.2 lbs. Joint 14 1395.6 lbs. 68.0 lbs.
	1 / 2 Ply	12.00	0.00	ATTIC C3-GR	21-02-00 21-02-00	2 X	2 X 10		00-11-00	Joint 1 2555.2 lbs. 64.5 lbs. Joint 8 2067.1 lbs. 53.3 lbs.
	1 / 2 Ply	12.00	0.00	COMMON D1-GR	09-11-00 09-11-00	2 X 6	2 X 6			Joint 1 3316.0 lbs. -589.8 lbs. Joint 3 2954.7 lbs. -527.5 lbs.
	1	12.00	0.00	COMMON D1GE	09-11-00 09-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 199.6 lbs. -108.8 lbs. Joint 8 178.5 lbs. -68.7 lbs. Joint 10 171.6 lbs. -236.1 lbs. Joint 11 219.2 lbs. -197.4 lbs. Joint 12 138.4 lbs. 28.4 lbs.
	2	5.00	0.00	MONOPITCH M1	06-00-00 06-00-00	2 X 6	2 X 6	00-11-00	00-03-08	Joint 2 292.8 lbs. -129.2 lbs. Joint 5 218.5 lbs. -123.6 lbs.
	1	5.00	0.00	MONOPITCH M1GE	06-00-00 06-00-00	2 X 6	2 X 6	00-11-00		Joint 2 114.1 lbs. -10.8 lbs. Joint 8 66.7 lbs. -45.6 lbs. Joint 9 159.7 lbs. -96.9 lbs. Joint 10 170.4 lbs. -119.8 lbs.
	4	5.00	0.00	ROOF M2	05-00-00 05-00-00	2 X 6	2 X 6	00-11-00	01-03-08	Joint 2 349.3 lbs. -75.1 lbs. Joint 7 627.0 lbs. 167.4 lbs.
	2 / 2 Ply	5.00	0.00	ROOF M2-GR	05-00-00 05-00-00	2 X 6	2 X 6	00-11-00	01-03-08	Joint 2 311.9 lbs. -37.6 lbs. Joint 7 1946.9 lbs. 85.3 lbs.
	1	12.00	0.00	VALLEY V1	09-01-09 09-01-09	2 X 4	2 X 4			Joint 1 192.4 lbs. -50.8 lbs. Joint 3 192.5 lbs. -50.8 lbs. Joint 4 294.1 lbs. -17.4 lbs.
	1	12.00	0.00	VALLEY V2	06-05-09 06-05-09	2 X 4	2 X 4			Joint 1 141.8 lbs. -46.0 lbs. Joint 3 141.8 lbs. -45.9 lbs. Joint 4 182.1 lbs. 10.3 lbs.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5618
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	Net 10 Days
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
89 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 122 Hidden Lakes **LOT #** 122 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 5 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 113 Hidden Lakes (J0722-3619)

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ROOF TRUSSES

LOADING INFORMATION

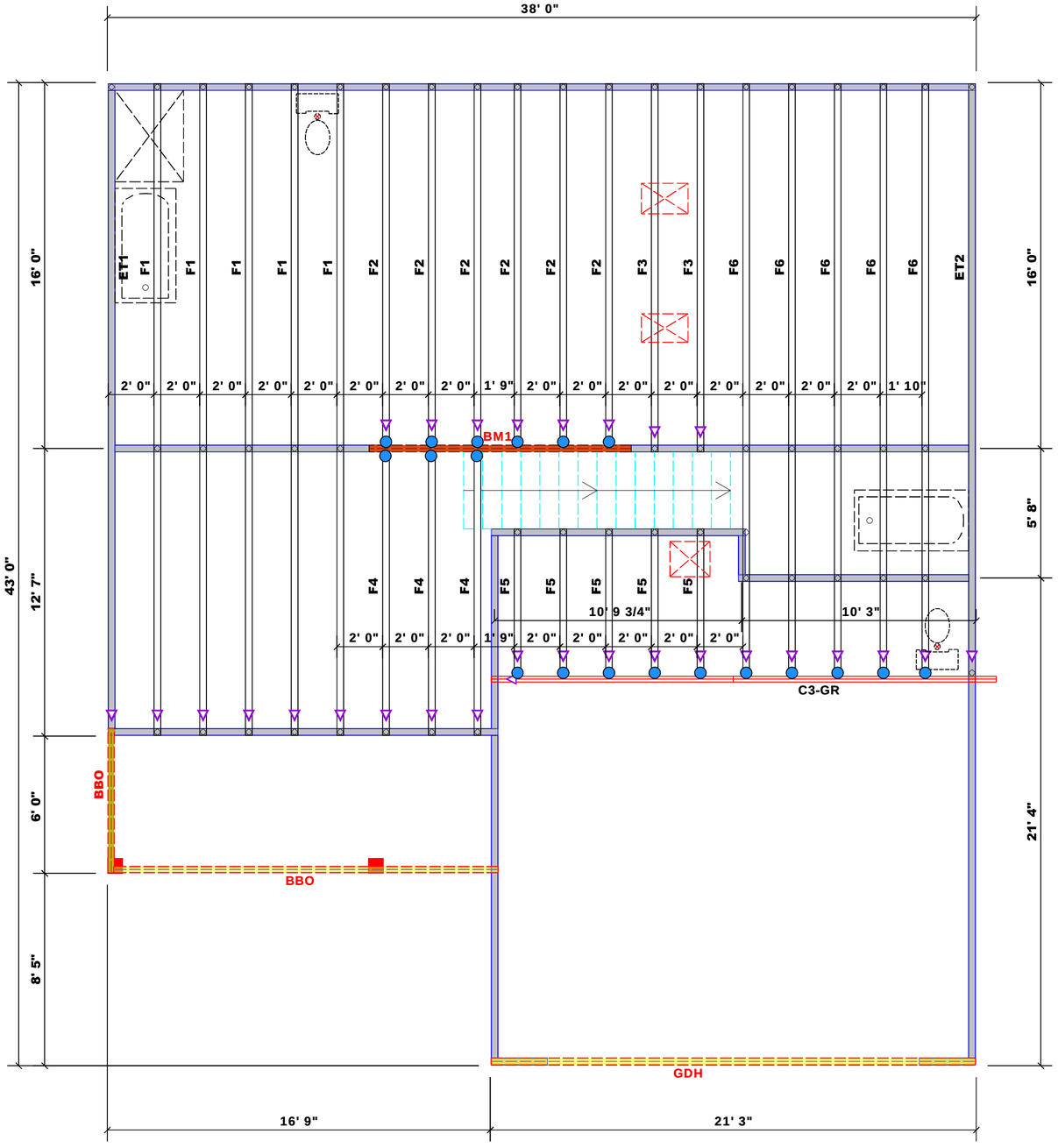
TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS		
	PLY	TOP	BOT			TOP	BOT	LEFT	RIGHT			
	1	12.00	0.00	VALLEY V3	03-09-09 03-09-09	2 X 4	2 X 4			Joint 1 76.8 lbs. -24.9 lbs.	Joint 3 76.9 lbs. -24.9 lbs.	Joint 4 98.7 lbs. 5.6 lbs.

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
5	Hangers, USP	HUS 26			SIMPSON (HUS26)



All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact. 2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses. 3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise 2. All interior wall dimensions are to face of frame wall unless noted otherwise 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Hatch Legend
Second Floor Walls
Box Storage
Drop Beam
Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	19	NA	16d/3-1/2"	16d/3-1/2"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	12' 0"	1-3/4"x 14" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Wellco Contractors
JOB NAME	Lot 122 Hidden Lakes
PLAN	Plan 5
SEAL DATE	N/A
QUOTE #	
JOB #	J1122-5619
CITY / CO.	Clayton / Johnston
ADDRESS	89 Sugarberry Place
MODEL	Floor
DATE REV.	11/11/22
DRAWN BY	Jonathan Landry
SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J1122-5619
Lot 122 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: I55503006 thru I55503013

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

North Carolina COA: C-0844

November 30,2022

Gilbert, Eric

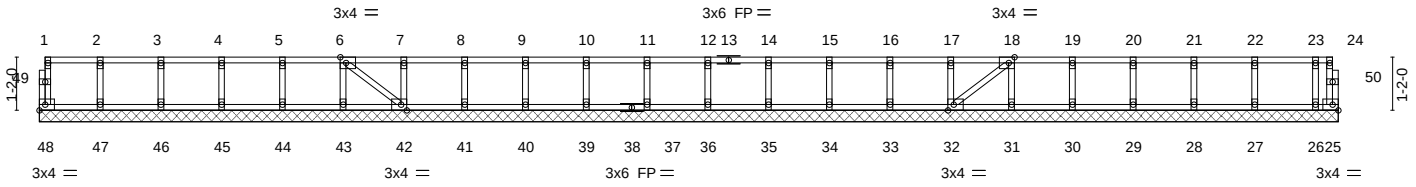
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 122 Hidden Lakes
J1122-5619	ET1	GABLE	1	1	I55503006
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:52 2022 Page 1
ID:9TsBS1yzEQOf2XeoOILTI2yyUuf-LeFeDTs6Z4pWUP6?1?Z8rhBOoMrl3YcnX1m2z7yE_Cb

0-1-8 0-1-8

Scale: 1/4"=1'



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-0	28-6-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge], [32:0-1-8,Edge], [42:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	25	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 47-48,46-47,45-46,44-45,43-44,42-43.

REACTIONS. All bearings 28-6-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 25
Max Grav All reactions 250 lb or less at joint(s) 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 30,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	ET2	GABLE	1	1	I55503007
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:54 2022 Page 1
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0-1-8

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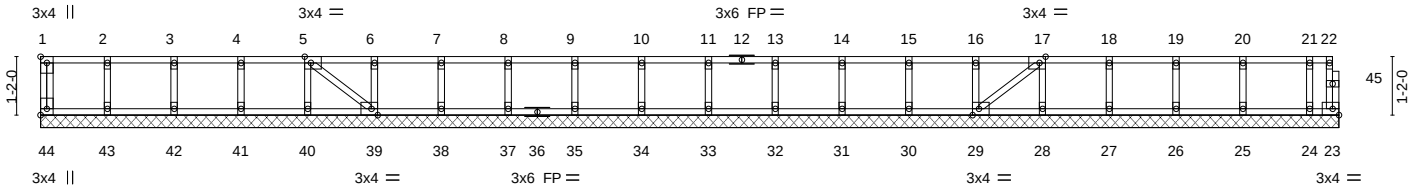

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	25-11-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [17:0-1-8,Edge], [29:0-1-8,Edge], [39:0-1-8,Edge], [44:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	23	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 43-44,42-43,41-42,40-41,39-40.

REACTIONS. All bearings 25-11-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 23
Max Grav All reactions 250 lb or less at joint(s) 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 30,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	F1	Floor	5	1	I55503008
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:56 2022 Page 1
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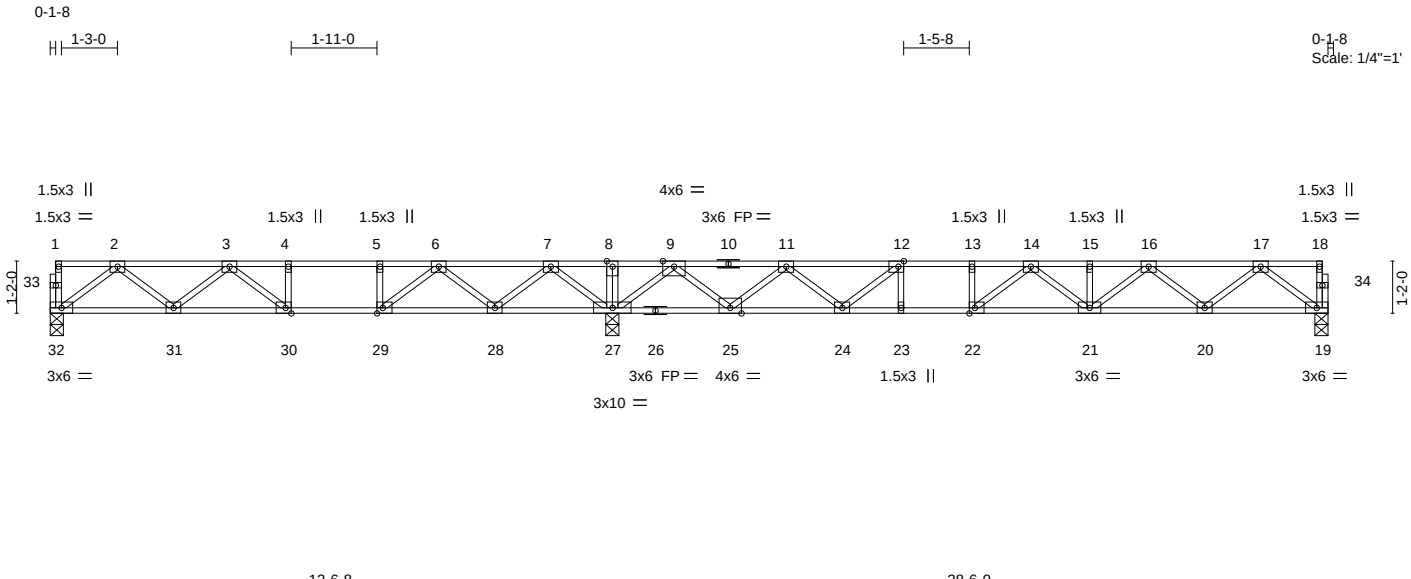

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.18	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.25	21-22	>747	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 143 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 32=0-3-8, 27=0-3-8, 19=0-3-8
Max Grav 32=594(LC 3), 27=1839(LC 1), 19=770(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1126/0, 3-4=-1508/171, 4-5=-1508/171, 5-6=-1508/171, 6-7=-537/783, 7-8=0/1922, 8-9=0/1922, 9-11=-597/322, 11-12=-1894/0, 12-13=-2482/0, 13-14=-2482/0, 14-15=-2450/0, 15-16=-2450/0, 16-17=-1553/0
BOT CHORD 31-32=0/728, 30-31=0/1466, 29-30=-171/1508, 28-29=-504/1104, 27-28=-1054/0, 25-27=-692/0, 24-25=-76/1386, 23-24=0/2482, 22-23=0/2482, 21-22=0/2610, 20-21=0/2128, 19-20=0/954
WEBS 2-32=-911/0, 2-31=0/518, 3-31=-442/70, 3-30=-311/54, 7-27=-1279/0, 7-28=0/848, 6-28=-877/0, 6-29=0/841, 5-29=-370/0, 9-27=-1543/0, 9-25=0/1121, 11-25=-1076/0, 11-24=0/720, 12-24=-873/0, 12-23=0/252, 17-19=-1195/0, 17-20=0/779, 16-20=-748/0, 16-21=0/412, 14-22=-428/127

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

November 30,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	F2	Floor	6	1	I55503009 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:57 2022 Page 1
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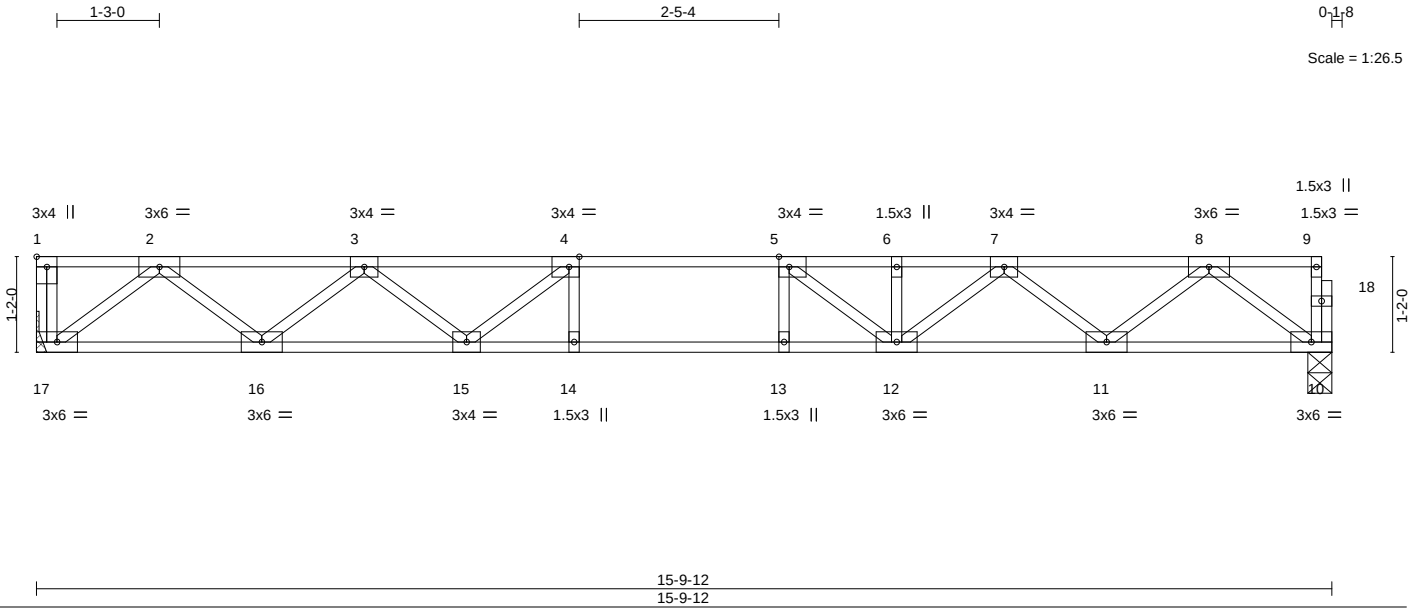

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.20	12-13	>954	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.26	12-13	>720	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 17=Mechanical, 10=0-3-8
Max Grav 17=856(LC 1), 10=850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1761/0, 3-4=-2788/0, 4-5=-3145/0, 5-6=-2831/0, 6-7=-2831/0, 7-8=-1757/0
BOT CHORD 16-17=0/1058, 15-16=0/2429, 14-15=0/3145, 13-14=0/3145, 12-13=0/3145, 11-12=0/2418, 10-11=0/1061
WEBS 2-17=-1328/0, 2-16=0/915, 3-16=-870/0, 3-15=0/529, 4-15=-648/0, 8-10=-1329/0, 8-11=0/906, 7-11=-860/0, 7-12=0/527, 5-12=-707/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

November 30,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	F3	Floor	2	1	I55503010
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:57 2022 Page 1
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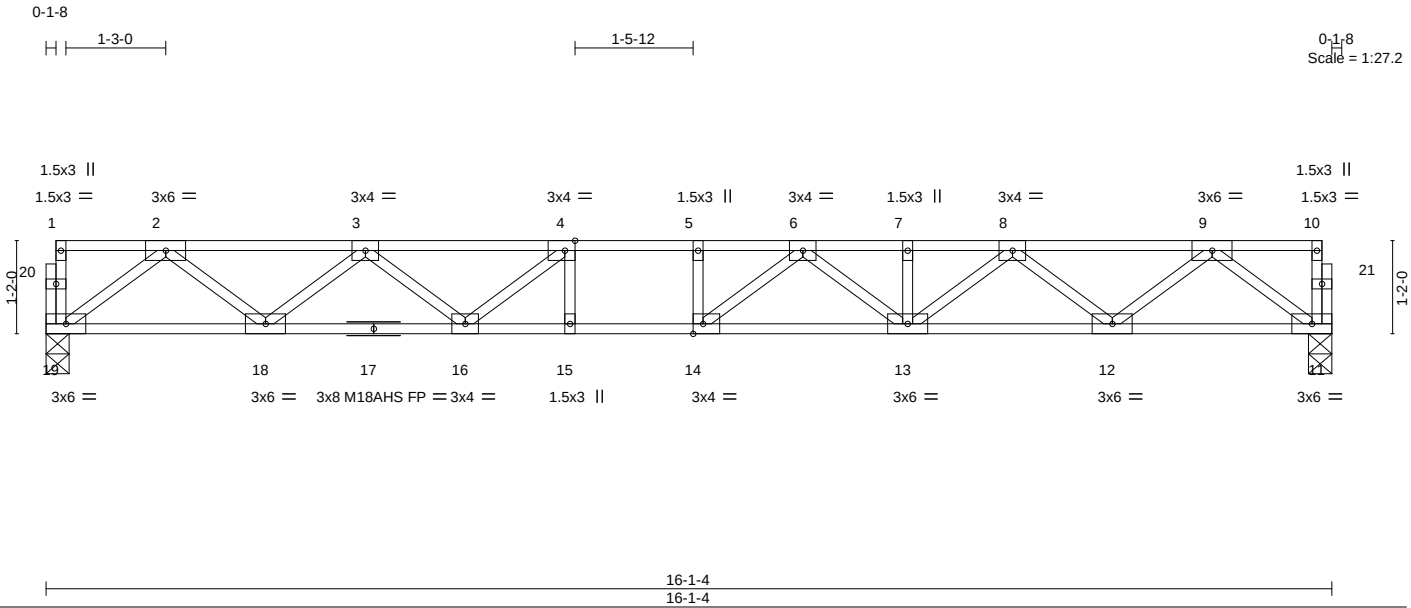

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.20	13-14	>941	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.28	13-14	>678	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 82 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 19=0-3-8, 11=0-3-8
Max Grav 19=866(LC 1), 11=866(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1801/0, 3-4=-2865/0, 4-5=-3270/0, 5-6=-3270/0, 6-7=-2921/0, 7-8=-2921/0, 8-9=-1796/0
BOT CHORD 18-19=0/1079, 16-18=0/2486, 15-16=0/3270, 14-15=0/3270, 13-14=0/3206, 12-13=0/2480, 11-12=0/1081
WEBS 2-19=-1351/0, 2-18=0/940, 3-18=-891/0, 3-16=0/537, 4-16=-651/0, 9-11=-1354/0, 9-12=0/930, 8-12=-890/0, 8-13=0/563, 6-13=-365/0, 6-14=-196/408

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 30,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	F4	Floor	3	1	I55503011
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:58 2022 Page 1
ID:9TsBS1yzEQOf2XeoOILTI2yyUuf-AocvUWxt9wZgCKZ9OGfY5yRMrno_TC1gvzDNBnyE_CV

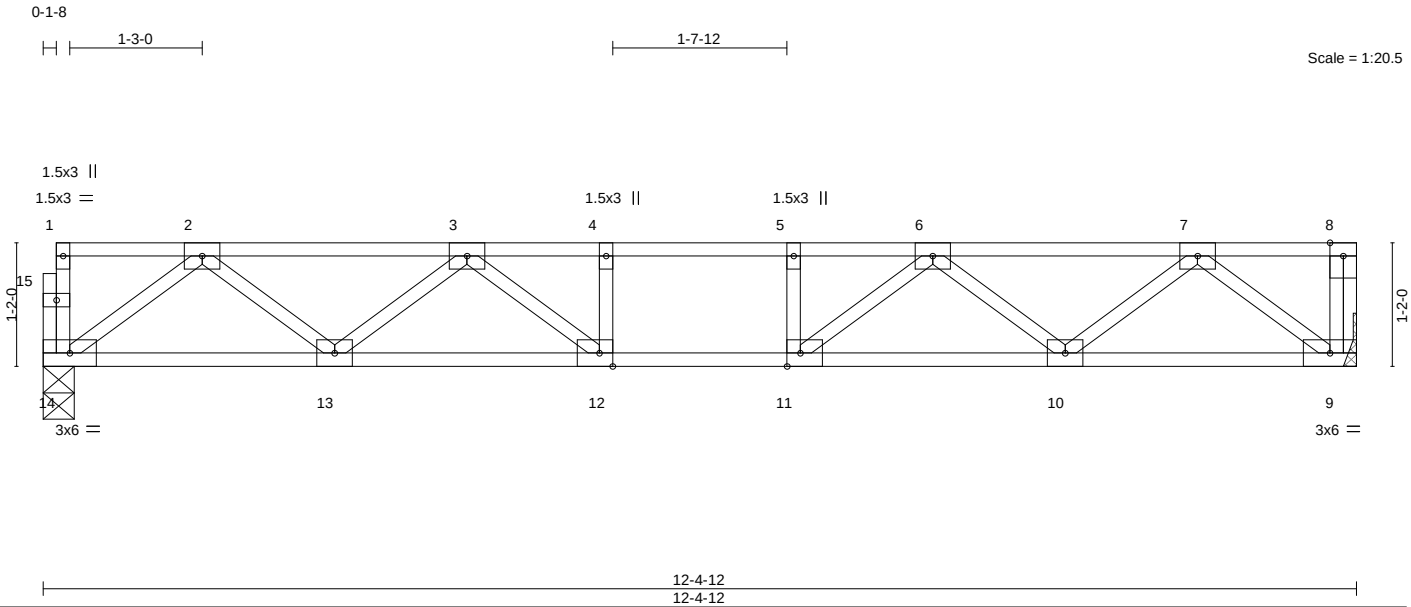

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.10	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=662(LC 1), 9=668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1285/0, 3-4=-1916/0, 4-5=-1916/0, 5-6=-1916/0, 6-7=-1285/0
BOT CHORD 13-14=0/815, 12-13=0/1720, 11-12=0/1916, 10-11=0/1720, 9-10=0/816
WEBS 2-14=-1020/0, 2-13=0/611, 3-13=-566/0, 3-12=0/443, 7-9=-1024/0, 7-10=0/611, 6-10=-565/0, 6-11=0/443

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

November 30,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	F5	Floor	5	1	I55503012
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:19:59 2022 Page 1
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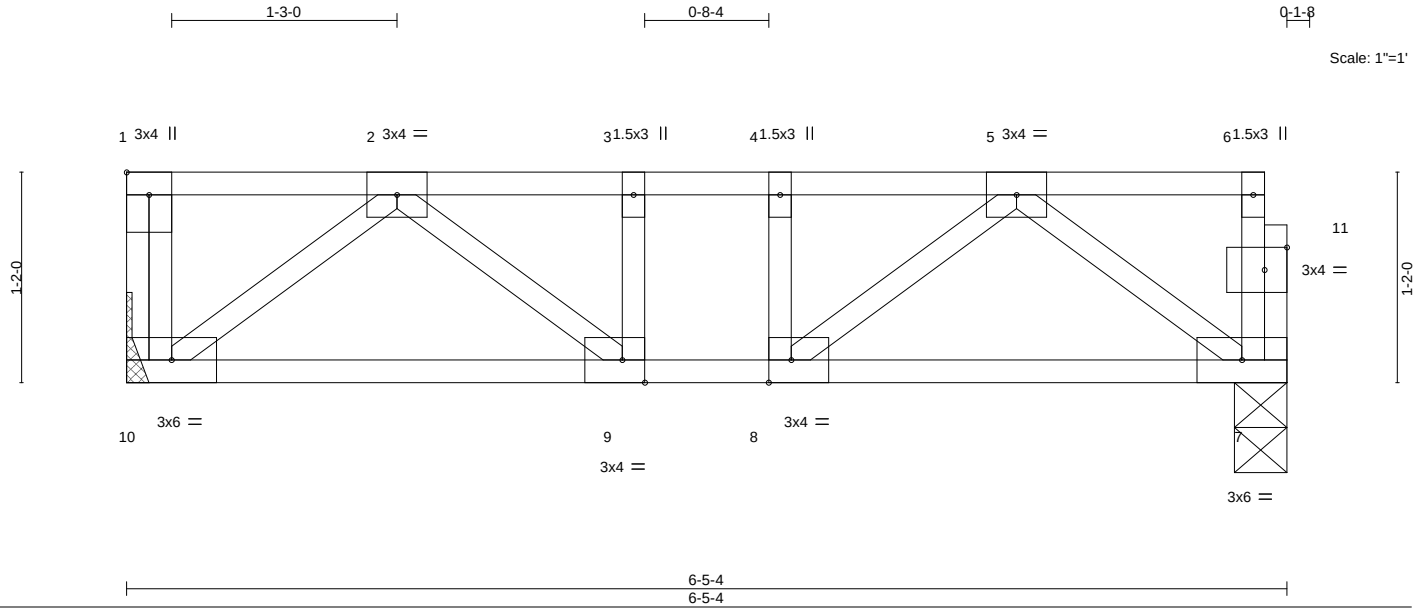

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 10=Mechanical, 7=0-3-8
Max Grav 10=340(LC 1), 7=334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-507/0, 3-4=-507/0, 4-5=-507/0
BOT CHORD 9-10=0/361, 8-9=0/507, 7-8=0/359
WEBS 5-7=-447/0, 2-10=-453/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

November 30,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 122 Hidden Lakes
J1122-5619	F6	Floor	5	1	I55503013
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 13:20:01 2022 Page 1
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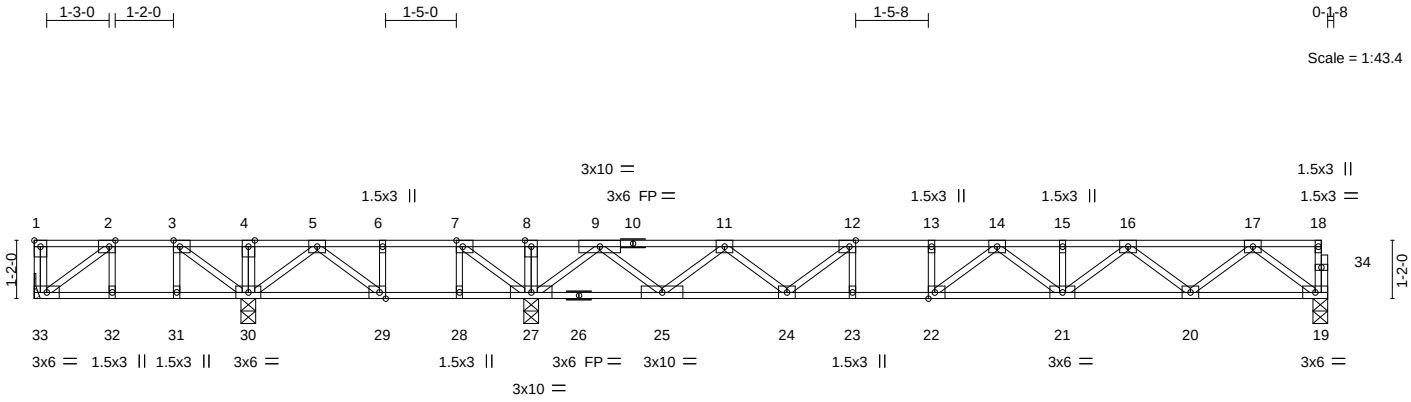


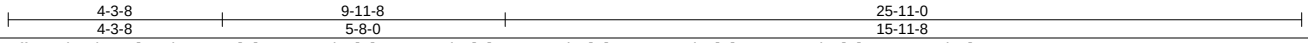


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [12:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.19	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.26	21-22	>736	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 0-3-8 except (jt=length) 33=Mechanical.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 33
Max Grav All reactions 250 lb or less at joint(s) 33 except 30=605(LC 3), 27=1395(LC 11), 19=785(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/605, 4-5=0/605, 5-6=-98/846, 6-7=-98/846, 7-8=0/1320, 8-9=0/1320, 9-11=-797/0, 11-12=-2048/0, 12-13=-2609/0, 13-14=-2609/0, 14-15=-2526/0, 15-16=-2526/0, 16-17=-1592/0
BOT CHORD 29-30=-578/44, 28-29=-846/98, 27-28=-846/98, 24-25=0/1564, 23-24=0/2609, 22-23=0/2609, 21-22=0/2705, 20-21=0/2184, 19-20=0/975
WEBS 2-33=-102/273, 3-30=-617/0, 5-30=-374/159, 7-27=-838/0, 5-29=-343/76, 9-27=-1510/0, 9-25=0/1069, 11-25=-1012/0, 11-24=0/644, 12-24=-766/0, 17-19=-1220/0, 17-20=0/803, 16-20=-771/0, 16-21=0/436, 14-22=-317/238

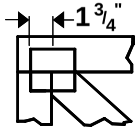
NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 30,2022

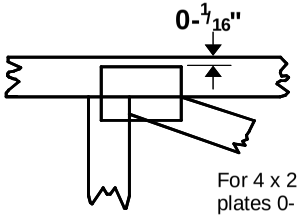
TRENCO
818 Soundside Road
Edenton, NC 27932

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

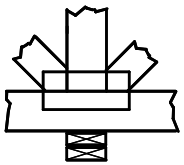
4 x 4

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

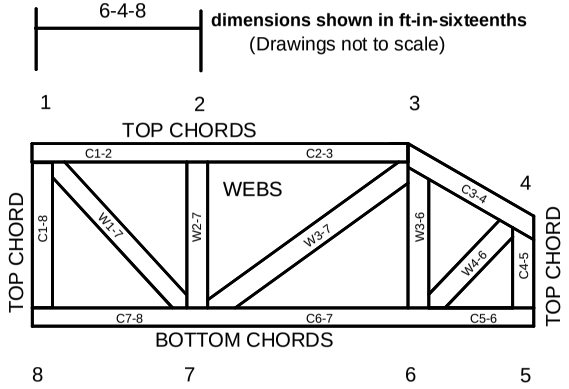


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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.

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

General Safety Notes

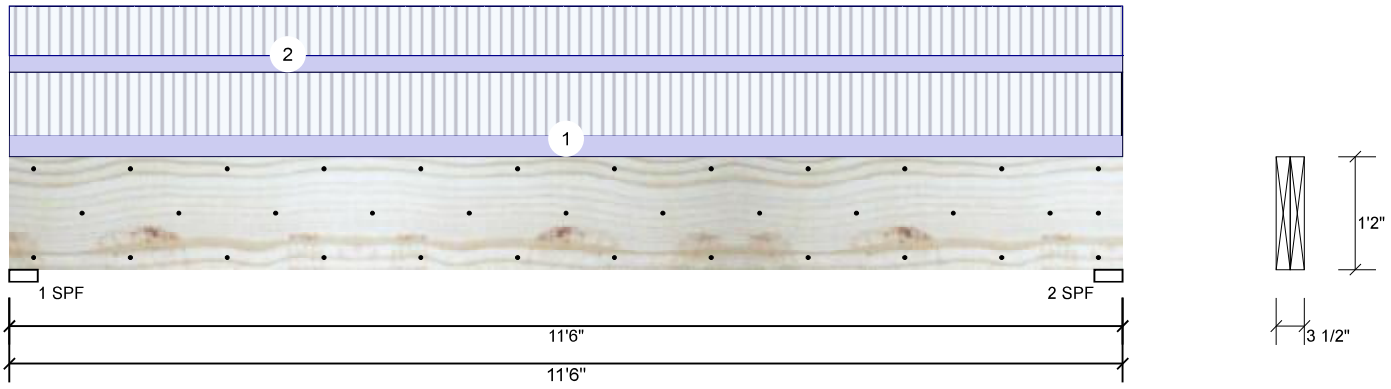
Failure to Follow Could Cause Property Damage or Personal Injury

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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Client:	Wellco Contractors	Date:	11/30/2022
Project:	Plan 5	Input by:	Jonathan Landry
Address:	89 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 122 Hidden Lakes
		Project #:	J1122-5619

BM1 Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3289	1161	0	0	0
2	Vertical	3289	1161	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	85%	1161 / 3289	4450	L	D+L
2 - SPF	3.500"	Vert	85%	1161 / 3289	4450	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11794 ft-lb	5'9"	26999 ft-lb	0.437 (44%)	D+L	L
Unbraced	11794 ft-lb	5'9"	11799 ft-lb	1.000 (100%)	D+L	L
Shear	4224 lb	1'5 1/2"	10453 lb	0.404 (40%)	D+L	L
LL Defl inch	0.140 (L/946)	5'9"	0.276 (L/480)	0.507 (51%)	L	L
TL Defl inch	0.189 (L/699)	5'9"	0.552 (L/240)	0.343 (34%)	D+L	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top must be laterally braced at a maximum of 8'10 5/8" o.c.
6 Bottom must be laterally braced at end bearings.
7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	107 PLF	321 PLF	0 PLF	0 PLF	0 PLF	F2
2	Uniform			Near Face	84 PLF	251 PLF	0 PLF	0 PLF	0 PLF	F4
	Self Weight				11 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

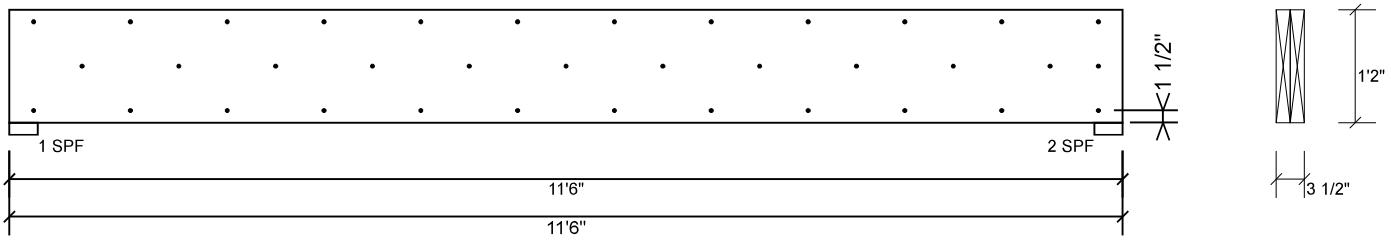
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	11/30/2022
Project:	Plan 5	Input by:	Jonathan Landry
Address:	89 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 122 Hidden Lakes
		Project #:	J1122-5619

BM1 Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	87.1 %
Load	214.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

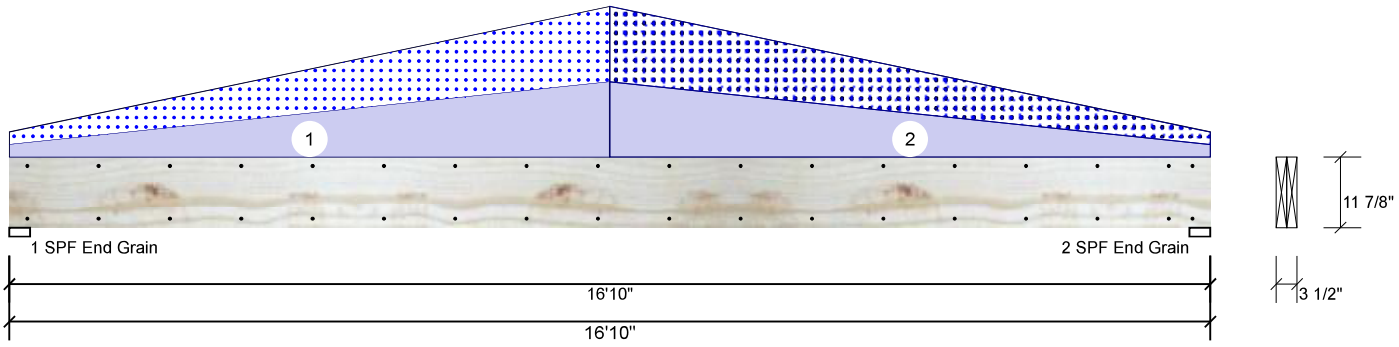
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	11/30/2022
Project:	Plan 5	Input by:	Jonathan Landry
Address:	89 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 122 Hidden Lakes
		Project #:	J1122-5619

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	961	884	0	0
2	Vertical	0	961	884	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	18%	961 / 884	1845	L	D+S
2 - SPF End Grain	3.500"	Vert	18%	961 / 884	1845	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9115 ft-lb	8'5"	22897 ft-lb	0.398 (40%)	D+S	L
Unbraced	9115 ft-lb	8'5"	9123 ft-lb	0.999 (100%)	D+S	L
Shear	1736 lb	15'6 5/8"	10197 lb	0.170 (17%)	D+S	L
LL Defl inch	0.223 (L/880)	8'5 1/16"	0.409 (L/480)	0.545 (55%)	S	L
TL Defl inch	0.463 (L/425)	8'5 1/16"	0.819 (L/240)	0.565 (57%)	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3 Refer to last page of calculations for fasteners required for specified loads.
4 Girders are designed to be supported on the bottom edge only.
5 Top loads must be supported equally by all plies.
6 Top must be laterally braced at a maximum of 10'3 15/16" o.c.
7 Bottom must be laterally braced at end bearings.
8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tapered Start	0-0-0		Top	30 PLF	0 PLF	30 PLF	0 PLF	0 PLF	C1GE
	End	8-5-0			180 PLF	0 PLF	180 PLF	0 PLF	0 PLF	
2	Tapered Start	8-5-0		Top	180 PLF	0 PLF	180 PLF	0 PLF	0 PLF	C1GE
	End	16-10-0			30 PLF	0 PLF	30 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

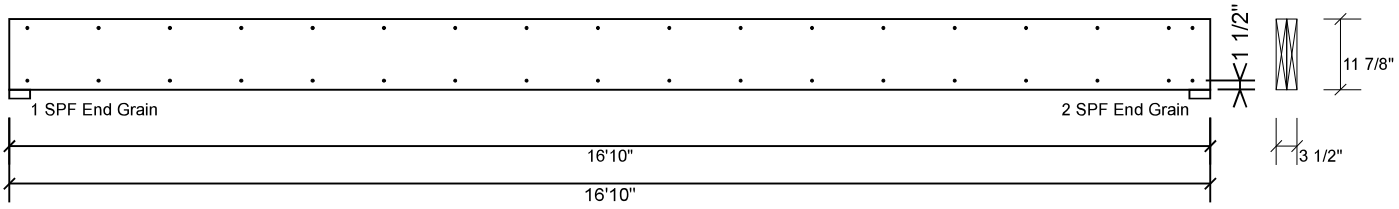
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	11/30/2022
Project:	Plan 5	Input by:	Jonathan Landry
Address:	89 Sugarberry Place Clayton, NC 27527	Job Name:	Lot 122 Hidden Lakes
		Project #:	J1122-5619

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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910-864-TRUS

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5619
ORDER DATE	11/08/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Johnston	**TERMS**	Net 10 Days
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	David Landry

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
89 Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 122 Hidden Lakes **LOT #** 122 **SUBDIV:** Hidden Lakes
MODEL: Floor **TAG:** Plan 5 **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 113 Hidden Lakes (J0722-3619)

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT
Floor Order

OVERHANG INFO		HEEL HEIGHT	00-04-05	REQ. LAYOUTS		REQ. ENGINEERING			BY	DATE
END CUT	RETURN									
PLUMB	NO	GABLE STUDS	16 IN. OC		JOBSITE 1		JOBSITE 1	QUOTE	JL	11/11/22
								LAYOUT	JL	11/11/22
								CUTTING	JL	11/11/22

FLOOR TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
40.0,10.0,0.0,5.0	1.00

FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.)

FLOOR PROFILE	QTY / PLY	DEPTH ID	BASE SPAN	O/A SPAN	END TYPE LEFT	END TYPE RIGHT	INT BEARING SIZE	INT BEARING LOCATION	REACTIONS
	1	01-02-00 ET1	28-06-00	28-06-00					Joint 25 -19.5 lbs. Joint 26 123.6 lbs. Joint 27 152.0 lbs. Joint 28 145.3 lbs. Joint 29 147.0 lbs.
	1	01-02-00 ET2	25-11-00	25-11-00					Joint 23 -7.3 lbs. Joint 24 120.6 lbs. Joint 25 152.0 lbs. Joint 26 145.3 lbs. Joint 27 147.0 lbs.
	5	01-02-00 F1	28-06-00	28-06-00					Joint 19 769.8 lbs. 171.6 lbs. Joint 27 1839.1 lbs. 1067.4 lbs. Joint 32 594.3 lbs. 64.1 lbs.
	6	01-02-00 F2	15-09-12	15-09-12					Joint 10 849.7 lbs. 440.4 lbs. Joint 17 855.9 lbs. 447.4 lbs.
	2	01-02-00 F3	16-01-04	16-01-04					Joint 11 865.7 lbs. 399.7 lbs. Joint 19 865.7 lbs. 460.3 lbs.
	3	01-02-00 F4	12-04-12	12-04-12					Joint 9 668.0 lbs. 341.6 lbs. Joint 14 661.8 lbs. 340.4 lbs.
	5	01-02-00 F5	06-05-04	06-05-04					Joint 7 334.1 lbs. 170.8 lbs. Joint 10 340.3 lbs. 172.0 lbs.
	5	01-02-00 F6	25-11-00	25-11-00					Joint 19 785.1 lbs. 215.6 lbs. Joint 27 1395.1 lbs. 575.9 lbs. Joint 30 604.9 lbs. 281.1 lbs. Joint 33 159.0 lbs. -78.7 lbs.

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

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COUNTY	Johnston	**TERMS**	Net 10 Days
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
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DELIVERY INSTRUCTIONS:

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BUILDING DEPARTMENT
Floor Order

OVERHANG INFO				**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**	**HEEL HEIGHT**	00-04-05									**QUOTE**	JL	11/11/22
PLUMB	NO	**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/11/22
												CUTTING	JL	11/11/22

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
19	Hangers, USP	HUS 410			SIMPSON (HUS410)
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	22-00-00		GDH
2	LVL Beams (Sized)	LVL, 1-3/4" x 14" (S)	12-00-00		BM1