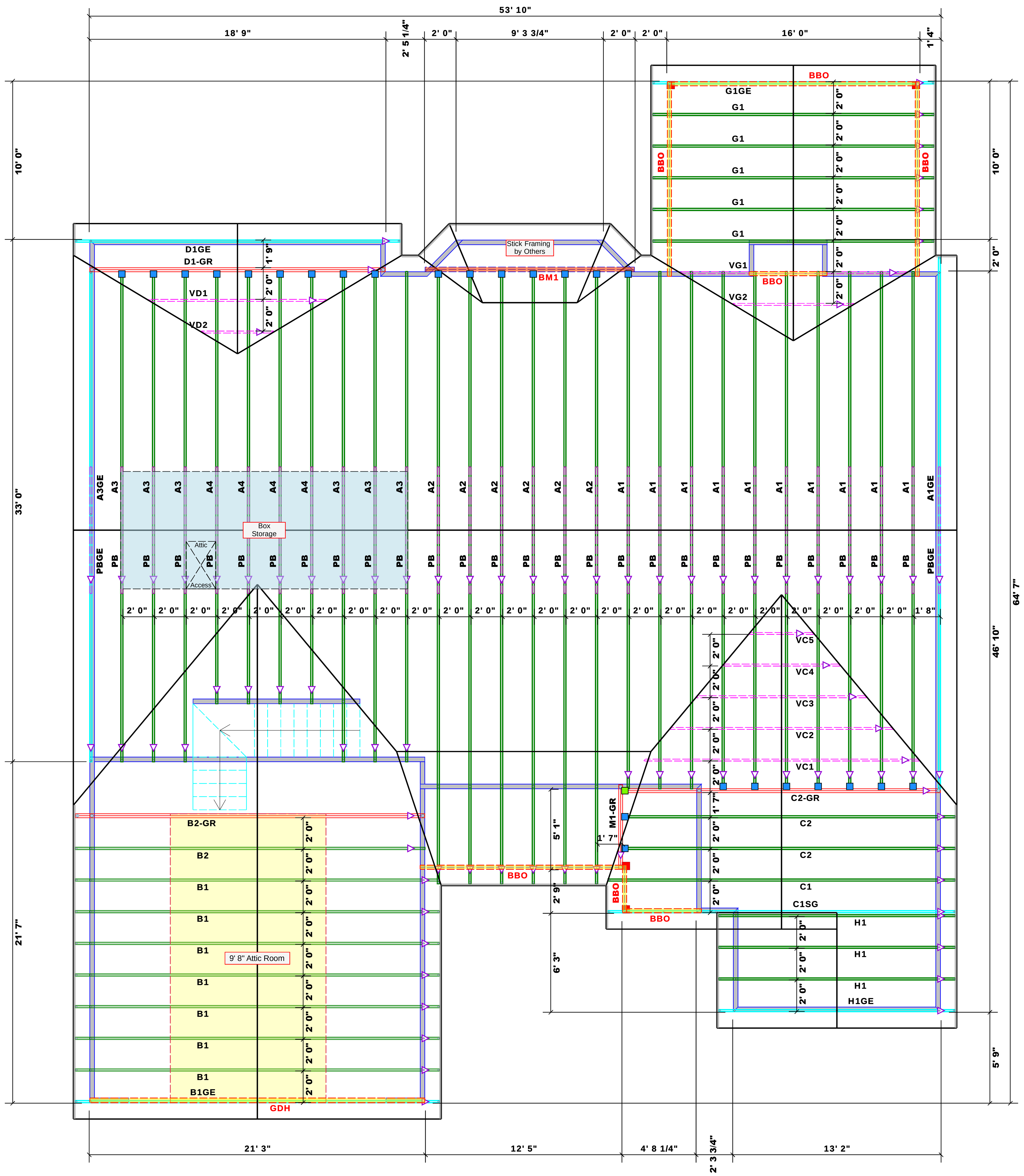


All Walls Shown Are Considered Load Bearing

Roof Area	= 3931.6 sq.ft.
Ridge Line	= 143.67 ft.
Hip Line	= 11.94 ft.
Horiz. OH	= 171.72 ft.
Raked OH	= 208.75 ft.
Decking	= 135 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

- Box Storage
- Drop Beam
- Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
(blue)	HUS26	USP	25	NA	16d/3-1/2"	16d/3-1/2"
(green)	THD26-2	USP	1	NA	16d/3-1/2"	10d/3"

Products

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

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

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

BUILDER	Wellco Contractors
CITY / CO.	Clayton / Johnston
JOB NAME	Lot 148 Hidden Lakes
ADDRESS	Sugarberry Place
PLAN	Plan 11 / 2GLF, CP
MODEL	Roof
SEAL DATE	N/A
DATE REV.	11/30/22
QUOTE #	
DRAWN BY	Jonathan Landry
JOB #	J1122-5849
SALES REP.	Lenny Norris

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				

RE: J1122-5849
Lot 148 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractors Project Name: J1122-5849
Lot/Block: 148 Model: Plan 11
Address: 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 32 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I54232521	A1	9/15/2022	21	I54232541	M1-GR	9/15/2022
2	I54232522	A1GE	9/15/2022	22	I54232542	PB	9/15/2022
3	I54232523	A2	9/15/2022	23	I54232543	PBGE	9/15/2022
4	I54232524	A3	9/15/2022	24	I54232544	VC1	9/15/2022
5	I54232525	A3GE	9/15/2022	25	I54232545	VC2	9/15/2022
6	I54232526	A4	9/15/2022	26	I54232546	VC3	9/15/2022
7	I54232527	B1	9/15/2022	27	I54232547	VC4	9/15/2022
8	I54232528	B1GE	9/15/2022	28	I54232548	VC5	9/15/2022
9	I54232529	B2	9/15/2022	29	I54232549	VD1	9/15/2022
10	I54232530	B2-GR	9/15/2022	30	I54232550	VD2	9/15/2022
11	I54232531	C1	9/15/2022	31	I54232551	VG1	9/15/2022
12	I54232532	C1SG	9/15/2022	32	I54232552	VG2	9/15/2022
13	I54232533	C2	9/15/2022				
14	I54232534	C2-GR	9/15/2022				
15	I54232535	D1-GR	9/15/2022				
16	I54232536	D1GE	9/15/2022				
17	I54232537	G1	9/15/2022				
18	I54232538	G1GE	9/15/2022				
19	I54232539	H1	9/15/2022				
20	I54232540	H1GE	9/15/2022				

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

Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.
North Carolina COA: C-0844

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

September 15, 2022
Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	A1	PIGGYBACK BASE	10	1	I54232521
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:10 2022 Page 1
ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-Hx699uCKkPaLbJcsPvsmrBgxibL1jl6KgmisDsydMV?

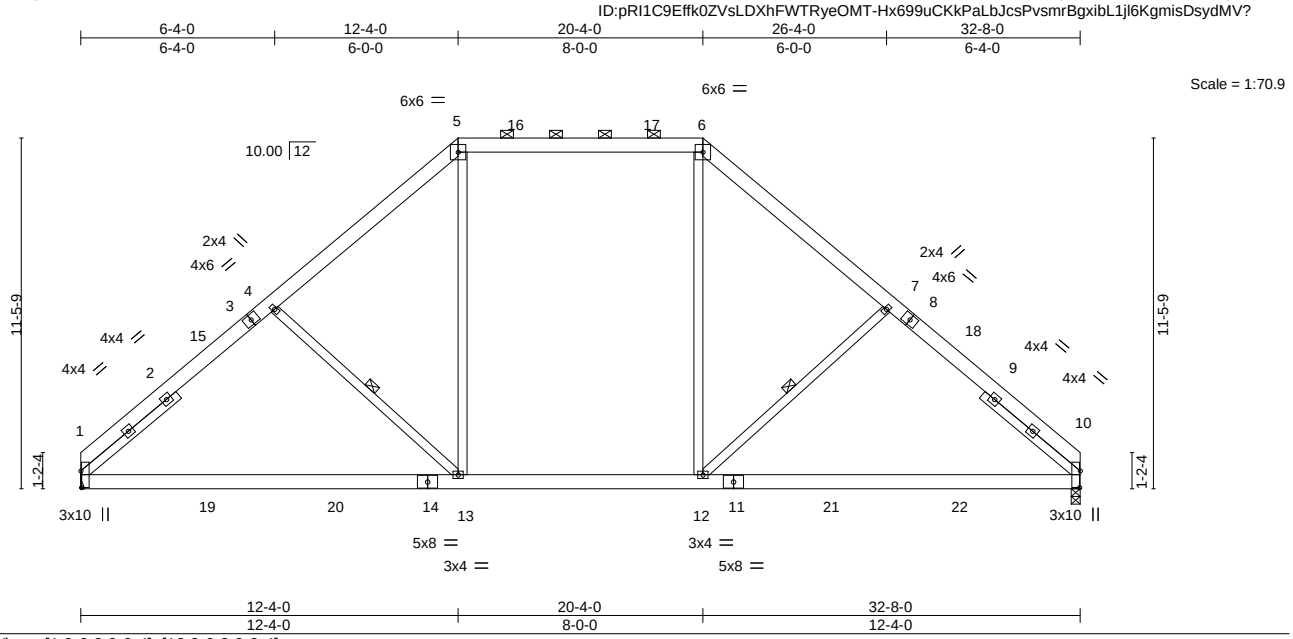


Plate Offsets (X,Y)-- [1:0-6-9,0-0-4], [10:0-6-9,0-0-4]

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	0.32	Vert(LL)	-0.32	1-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.49	1-13	>802	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.33	1-13	>999	240	Weight: 240 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-1 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 7-12

REACTIONS. (size) 1=Mechanical, 10=0-3-8
Max Horz 1=-350(LC 8)
Max Uplift 1=-186(LC 12), 10=-186(LC 13)
Max Grav 1=1509(LC 19), 10=1509(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1826/730, 4-5=-1598/731, 5-6=-1184/667, 6-7=-1598/731, 7-10=-1826/730
BOT CHORD 1-13=-371/1470, 12-13=-111/1209, 10-12=-363/1280
WEBS 4-13=-484/387, 5-13=-134/645, 6-12=-134/645, 7-12=-484/387

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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 12-4-0, Exterior(2) 12-4-0 to 18-6-11, Interior(1) 18-6-11 to 20-4-0, Exterior(2) 20-4-0 to 26-6-1, Interior(1) 26-6-1 to 32-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=186, 10=186.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	A1GE	PIGGYBACK BASE SUPPO	1	1	I54232522
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:12 2022 Page 1
ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-DJDvaZEaG0q3qcmEXKuEwclJ6OBEBgjd84ByHkydMUz

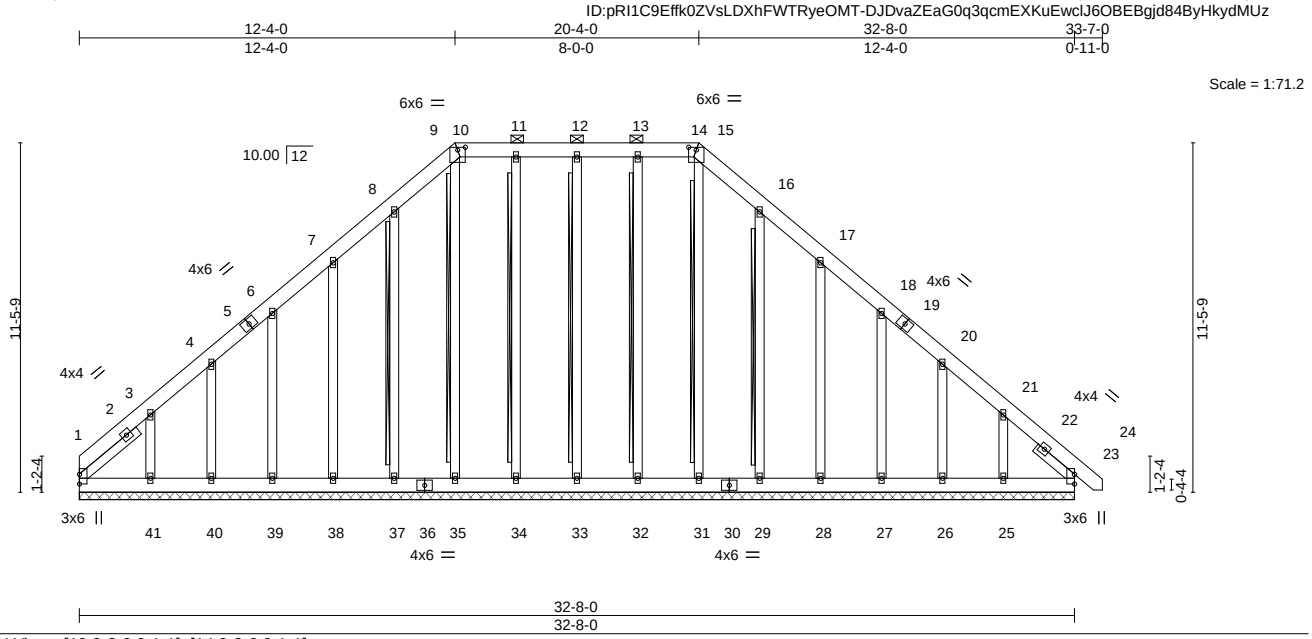


Plate Offsets (X,Y)-- [10:0-3-0,0-1-1], [14:0-3-0,0-1-1]

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	0.07	Vert(LL)	0.00	23	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 341 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 1-7-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 15-31, 13-32, 12-33, 11-34, 9-35, 8-37, 16-29
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 32-8-0.
(lb) - Max Horz 1=439(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 34, 35, 23 except 1=-245(LC 10), 37=-138(LC 12), 38=-175(LC 12), 39=-165(LC 12), 40=-145(LC 12), 41=-329(LC 12), 29=-128(LC 13), 28=-177(LC 13), 27=-168(LC 13), 26=-132(LC 13), 25=-316(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 34, 35, 37, 38, 39, 40, 29, 28, 27, 26, 23 except 1=351(LC 12), 41=304(LC 19), 25=271(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-511/407, 3-4=-295/291, 4-6=-254/268, 6-7=-216/280, 7-8=-292/364, 8-9=-377/427, 9-10=-304/356, 10-11=-333/387, 11-12=-333/387, 12-13=-333/387, 13-14=-333/387, 14-15=-304/356, 15-16=-377/427, 16-17=-292/322, 21-23=-361/218
BOT CHORD 1-41=-206/326, 40-41=-206/326, 39-40=-206/326, 38-39=-206/326, 37-38=-206/326, 35-37=-206/326, 34-35=-206/326, 33-34=-206/326, 32-33=-206/326, 31-32=-206/326, 29-31=-206/326, 28-29=-206/326, 27-28=-206/326, 26-27=-206/326, 25-26=-206/326, 23-25=-206/326
WEBS 3-41=-295/334, 21-25=-301/307

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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.

Continued on page 2

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

NOTES-

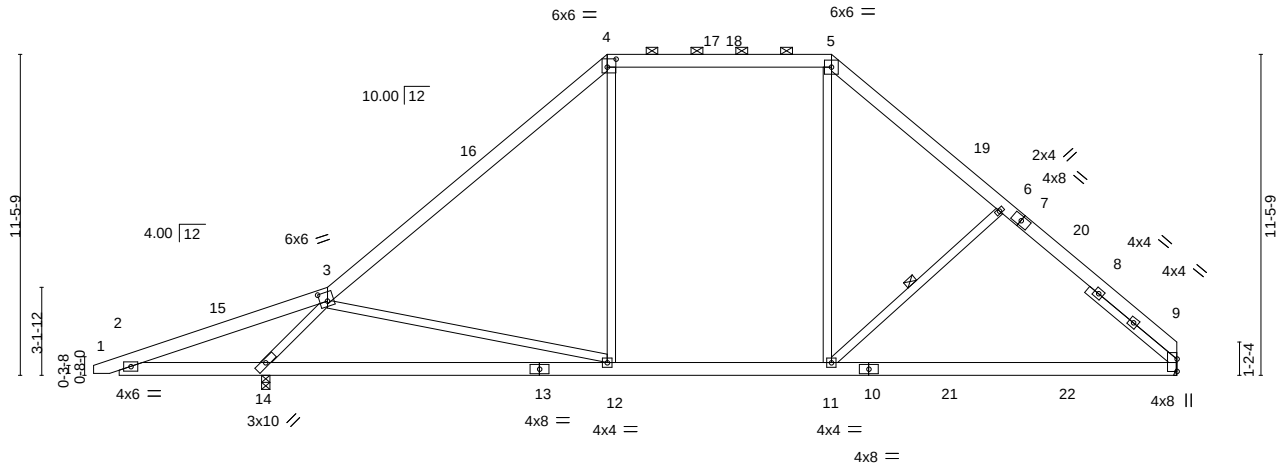
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 35, 23 except (jt=lb) 1=245, 37=138, 38=175 , 39=165, 40=145, 41=329, 29=128, 28=177, 27=168, 26=132, 25=316.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	A2	PIGGYBACK BASE	6	1	I54232523
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:14 2022 Page 1
ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-AiLg?FFrod5n3wwdelwi?1qVLCi0fS2wbOg3MdydMUx

-0-11-0 7-5-3 17-5-0 25-5-0 31-5-0 37-9-0
0-11-0 7-5-3 9-11-13 8-0-0 6-0-0 6-4-0

Scale = 1:77.4



5-2-12 17-5-0 25-5-0 37-9-0
5-2-12 12-2-4 8-0-0 12-4-0

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

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	0.72	Vert(LL)	-0.47	9-11	>845	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.66	9-11	>598	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.43	9-11	>920	240	Weight: 267 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-14.
WEBS 1 Row at midpt 6-11

REACTIONS. (size) 9=Mechanical, 14=0-3-8
Max Horz 14=356(LC 9)
Max Uplift 9=-185(LC 13), 14=-308(LC 12)
Max Grav 9=1450(LC 20), 14=1786(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1021/712, 3-4=-1523/524, 4-5=-1158/603, 5-6=-1485/657, 6-9=-1717/658
BOT CHORD 2-14=-596/1024, 12-14=-374/1262, 11-12=-111/1128, 9-11=-294/1209
WEBS 3-14=-2106/1400, 4-12=0/445, 5-11=-133/632, 6-11=-492/388, 3-12=-376/325

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) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 17-5-0, Exterior(2) 17-5-0 to 21-9-13, Interior(1) 21-9-13 to 25-5-0, Exterior(2) 25-5-0 to 29-9-13, Interior(1) 29-9-13 to 37-9-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=185, 14=308.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	A3	PIGGYBACK BASE	6	1	I54232524 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:15 2022 Page 1
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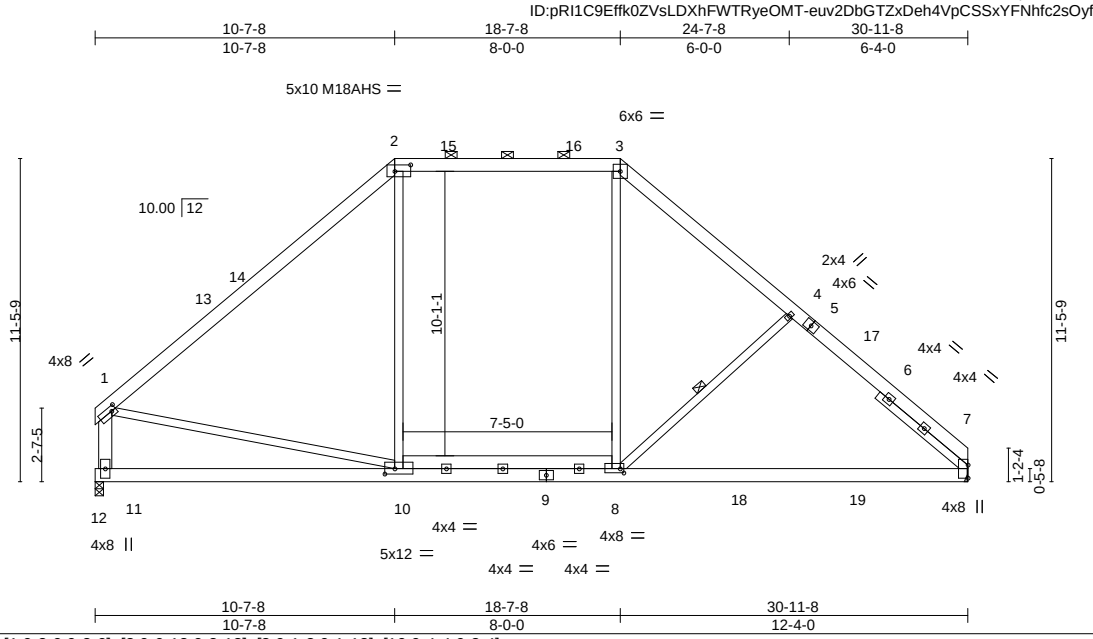

Plate Offsets (X,Y)-- [1:0-2-0,0-2-0], [2:0-6-12,0-2-12], [8:0-1-8,0-1-12], [10:0-4-4,0-2-4]

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	0.69	Vert(LL)	-0.51	7-8	>727	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.73	7-8	>504	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.37	7-8	>991	240	Weight: 250 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-11: 2x6 SP No.1
SLIDER Right 2x4 SP No.2 4-1-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 1 Row at midpt 4-8

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Horz 11=-347(LC 8)
Max Uplift 11=-157(LC 12), 7=-176(LC 13)
Max Grav 11=1301(LC 2), 7=1394(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1428/572, 2-3=-1066/623, 3-4=-1394/675, 4-7=-1629/675, 1-11=-1259/572
BOT CHORD 10-11=-421/549, 8-10=-113/1029, 7-8=-326/1149
WEBS 1-10=-263/1036, 2-10=0/374, 3-8=-135/596, 4-8=-521/397

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 10-7-8, Exterior(2) 10-7-8 to 16-10-3, Interior(1) 16-10-3 to 18-7-8, Exterior(2) 18-7-8 to 24-9-9, Interior(1) 24-9-9 to 30-11-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=157, 7=176.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	A3GE	PIGGYBACK BASE SUPPO	1	1	I54232525 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:16 2022 Page 1
ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-64TQQxH5KFLVJE40mAzA4Sv?5?ZB7UiD2i9AQWydMUv

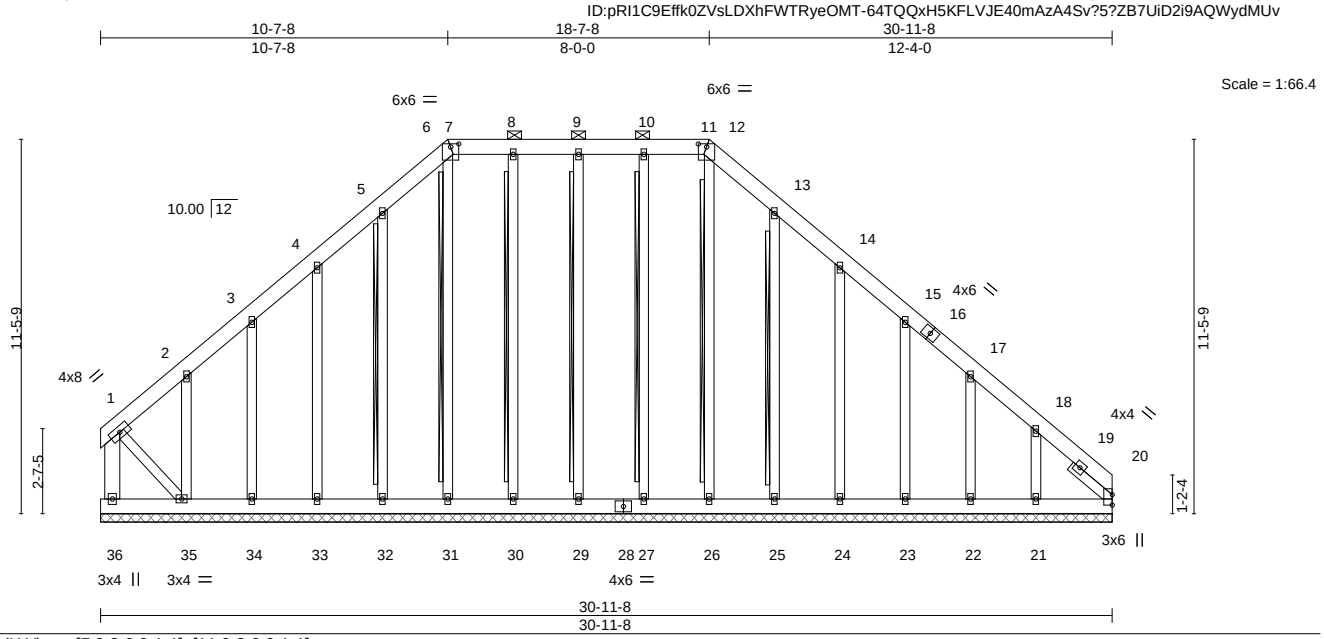

Plate Offsets (X,Y)-- [7:0-3-0,0-1-1], [11:0-3-0,0-1-1]

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 331 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
1-35: 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Right 2x4 SP No.2 1-7-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 12-26, 10-27, 9-29, 8-30, 6-31, 5-32, 13-25
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 30-11-8.
(lb) - Max Horz 36=-428(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 27, 29, 30, 31 except 36=-334(LC 10), 32=-136(LC 12), 33=-176(LC 12), 34=-160(LC 12), 35=-453(LC 12), 25=-131(LC 13), 24=-177(LC 13), 23=-168(LC 13), 22=-130(LC 13), 21=-331(LC 13), 20=-135(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 26, 27, 29, 30, 31, 32, 33, 34, 25, 24, 23, 22 except 36=412(LC 9), 35=414(LC 10), 21=291(LC 20), 20=284(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-36=-393/347, 1-2=-277/274, 3-4=-182/255, 4-5=-283/338, 5-6=-369/423, 6-7=-299/353, 7-8=-327/384, 8-9=-327/384, 9-10=-327/384, 10-11=-327/384, 11-12=-299/353, 12-13=-369/423, 13-14=-283/318, 18-20=-397/255
BOT CHORD 35-36=-388/422, 34-35=-211/346, 33-34=-211/346, 32-33=-211/346, 31-32=-211/346, 30-31=-211/346, 29-30=-211/346, 27-29=-211/346, 26-27=-211/346, 25-26=-211/346, 24-25=-211/346, 23-24=-211/346, 22-23=-211/346, 21-22=-211/346, 20-21=-211/346
WEBS 18-21=-305/324, 1-35=-310/361

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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.

Continued on page 2

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 29, 30, 31 except (jt=lb) 36=334, 32=136, 33=176, 34=160, 35=453, 25=131, 24=177, 23=168, 22=130, 21=331, 20=135.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	A4	PIGGYBACK BASE	4	1	I54232526 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:18 2022 Page 1
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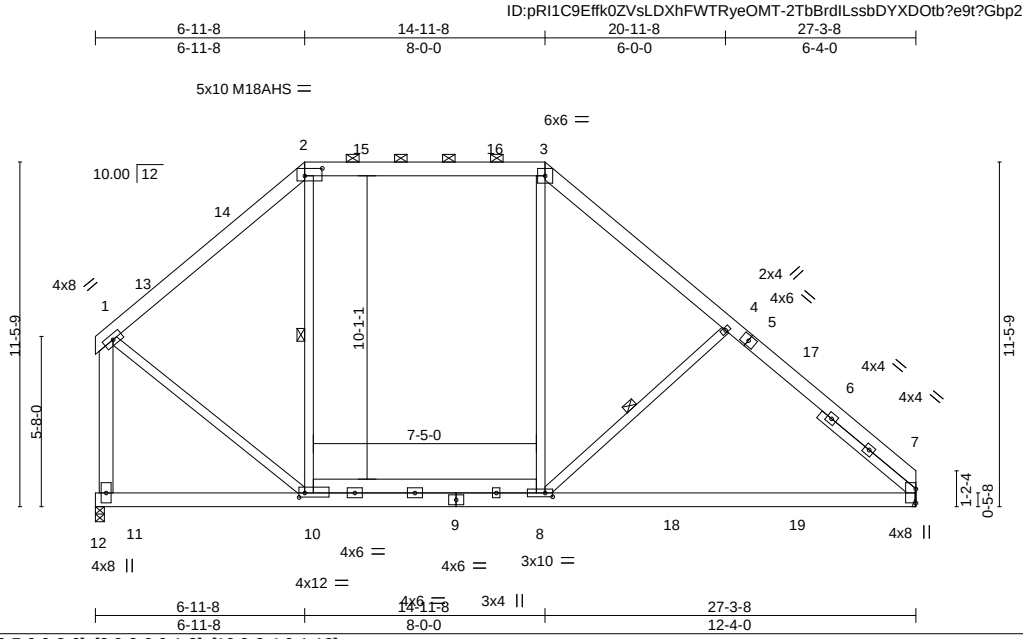

Scale = 1:72.1

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.53	7-8	>604	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.89	7-8	>362	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.38	7-8	>847	240	Weight: 234 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
9-12: 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
1-11: 2x6 SP No.1
SLIDER Right 2x4 SP No.2 4-1-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-10, 4-8

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Horz 11=-342(LC 8)
Max Uplift 11=-138(LC 13), 7=-147(LC 13)
Max Grav 11=1203(LC 2), 7=1248(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1041/489, 2-3=-825/517, 3-4=-1132/534, 4-7=-1372/539, 1-11=-1376/595
BOT CHORD 10-11=-321/373, 8-10=-82/823, 7-8=-241/972
WEBS 3-8=-55/493, 4-8=-587/424, 1-10=-260/1090

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 6-11-8, Exterior(2) 6-11-8 to 13-2-3, Interior(1) 13-2-3 to 14-11-8, Exterior(2) 14-11-8 to 21-1-9, Interior(1) 21-1-9 to 27-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=138, 7=147.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	B1	ATTIC	7	1	I54232527
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:19 2022 Page 1
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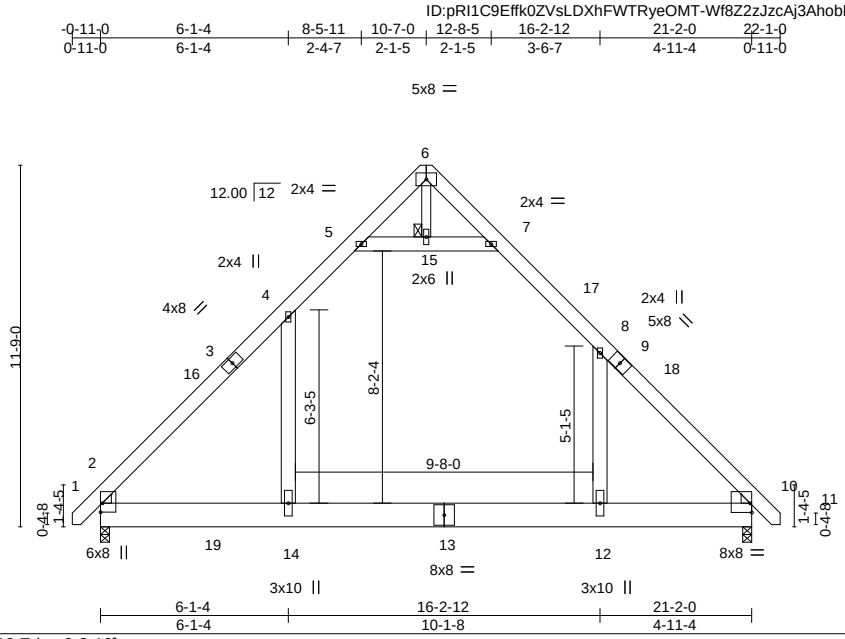

Plate Offsets (X,Y)-- [2:Edge,0-0-11], [10:Edge,0-3-10]

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	0.93	Vert(LL)	-0.19	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.32	12-14	>773	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.11	12-14	>999	240	Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
6-15: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 15

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-363(LC 10)
Max Grav 2=1430(LC 20), 10=1425(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1793/112, 4-5=-892/274, 5-6=-56/314, 7-8=-1031/267, 8-10=-1861/65
BOT CHORD 2-14=0/1054, 12-14=0/1054, 10-12=0/1054
WEBS 4-14=-3/876, 8-12=-38/838, 5-15=-1382/435, 7-15=-1382/435

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, with BCDL = 10.0psf.
5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
7) Attic room checked for L/360 deflection.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	B1GE	GABLE	1	1	I54232528
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:20 2022 Page 1
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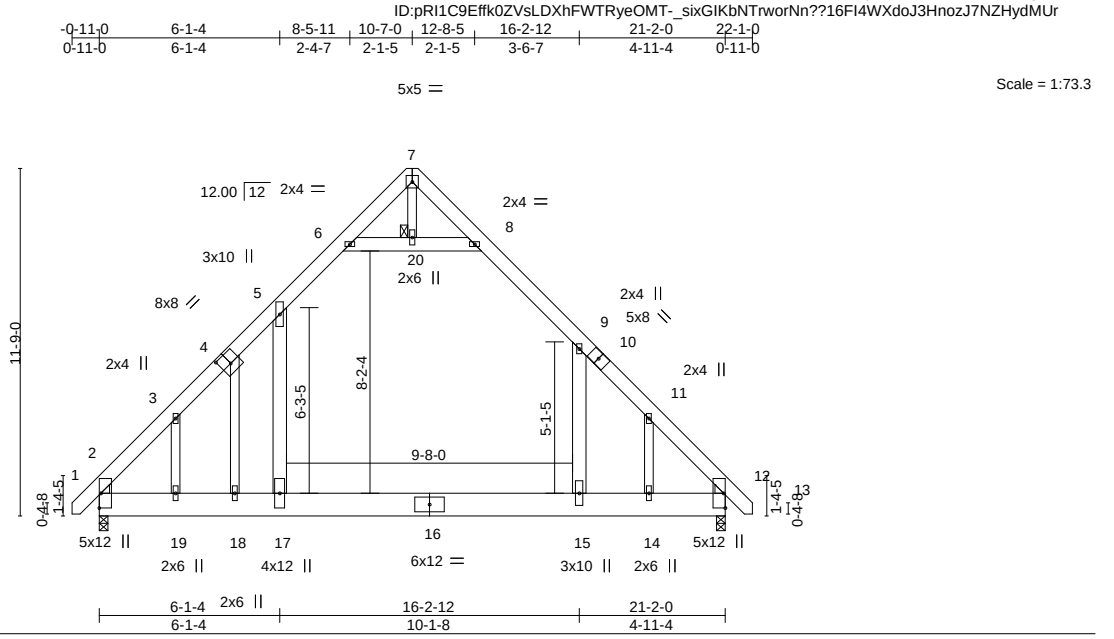

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.15	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	15-17	>934	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	17	>999	240	Weight: 216 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
7-20: 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 20

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-453(LC 10)
Max Uplift 2=-112(LC 12), 12=-97(LC 13)
Max Grav 2=1333(LC 20), 12=1391(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1765/90, 3-4=-1487/184, 4-5=-1779/337, 5-6=-874/310, 6-7=-73/264, 8-9=-1016/321, 9-11=-1778/223, 11-12=-1648/58
BOT CHORD 2-19=0/1092, 18-19=0/1092, 17-18=0/1052, 15-17=0/1052, 14-15=0/1052, 12-14=0/1053
WEBS 5-17=-157/1122, 9-15=-67/903, 6-20=-1302/501, 8-20=-1302/501, 4-18=-668/287, 3-19=0/270, 11-14=-504/319

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) 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-20, 8-20; Wall dead load (5.0psf) on member(s).5-17, 9-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=112.
10) Attic room checked for L/360 deflection.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	B2	ATTIC	1	1	I54232529
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:21 2022 Page 1
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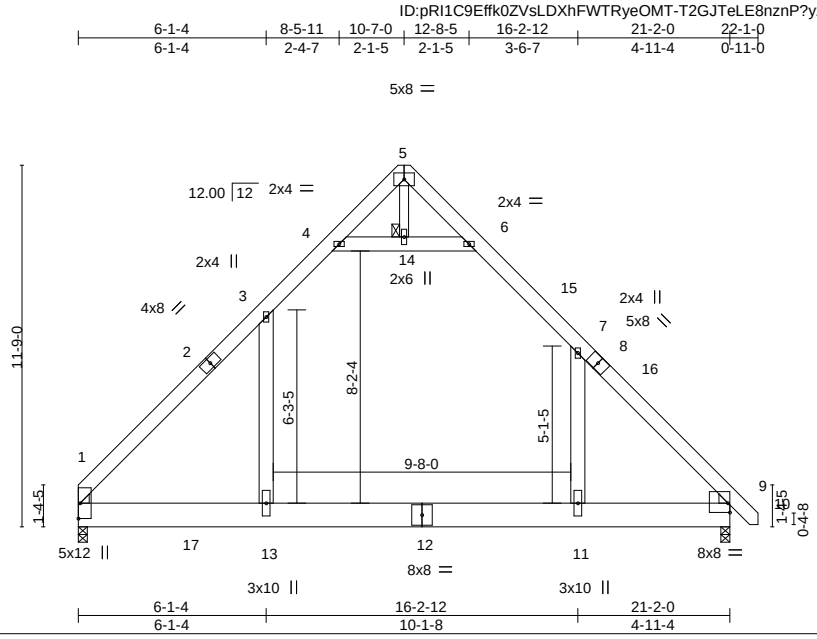

Plate Offsets (X,Y)-- [9:Edge,0-3-10]

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	0.93	Vert(LL)	-0.19	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.33	11-13	>765	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	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: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
5-14: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 14

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-361(LC 8)
Max Grav 1=1395(LC 21), 9=1425(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1776/90, 3-4=-895/282, 4-5=-59/319, 6-7=-1028/264, 7-9=-1866/68
BOT CHORD 1-13=0/1055, 11-13=0/1055, 9-11=0/1055
WEBS 3-13=-11/850, 7-11=-41/848, 4-14=-1397/454, 6-14=-1397/454

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, with BCDL = 10.0psf.
5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).3-13, 7-11
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
7) Attic room checked for L/360 deflection.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	B2-GR	ATTIC	1	2	I54232530
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:22 2022 Page 1
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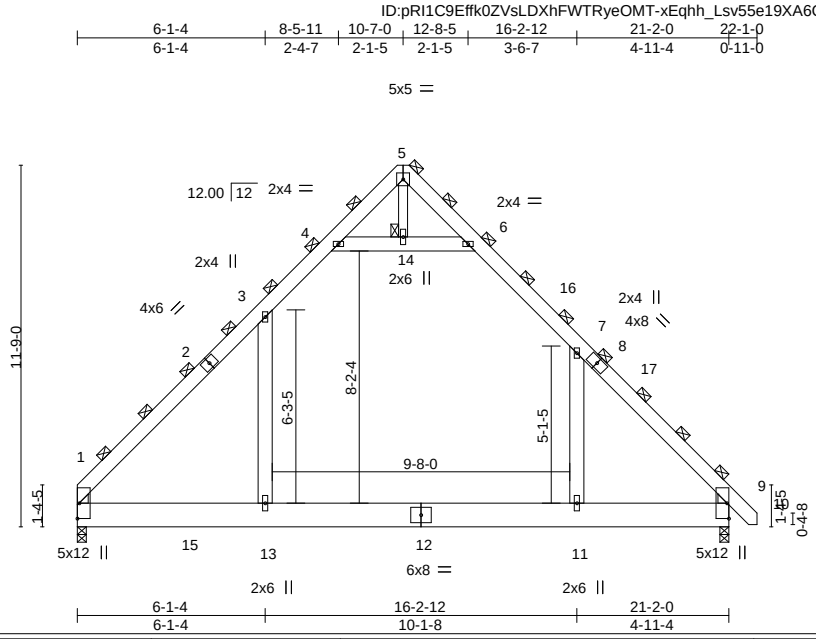

LOADING (psf)		SPACING-	3-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.14	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.25	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.08	11-13	>999	240	Weight: 397 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
5-14: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 5, 14

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-542(LC 10)
Max Grav 1=2092(LC 21), 9=2138(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2664/135, 3-4=-1342/422, 4-5=-89/479, 5-6=-113/337, 6-7=-1542/397, 7-9=-2799/101
BOT CHORD 1-13=0/1583, 11-13=0/1583, 9-11=0/1583
WEBS 3-13=-16/1275, 7-11=-62/1272, 4-14=-2097/681, 6-14=-2097/681

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: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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) 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
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).3-13, 7-11
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	C1	COMMON	1	1	I54232531
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:23 2022 Page 1
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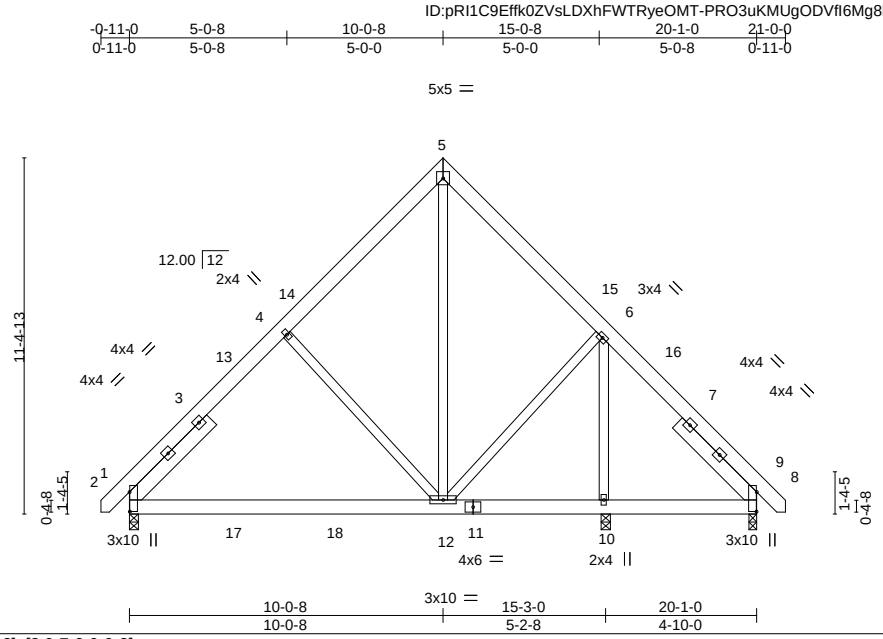

Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [8:0-7-9,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.10	2-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.16	2-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.01	8-10	>999	240	Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 3-8-1, Right 2x6 SP No.1 3-6-7

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 8=0-3-0
Max Horz 2=-346(LC 8)
Max Uplift 2=-105(LC 13), 10=-103(LC 12), 8=-61(LC 13)
Max Grav 2=738(LC 20), 10=604(LC 1), 8=393(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-705/314, 4-5=-640/375, 5-6=-644/386, 6-8=-326/182
BOT CHORD 2-12=-202/592
WEBS 4-12=-446/361, 5-12=-296/526, 6-12=-59/305, 6-10=-624/244

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 10-0-8, Exterior(2) 10-0-8 to 14-5-5, Interior(1) 14-5-5 to 20-10-6 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=105, 10=103.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	C1SG	GABLE	1	1	I54232532
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:24 2022 Page 1
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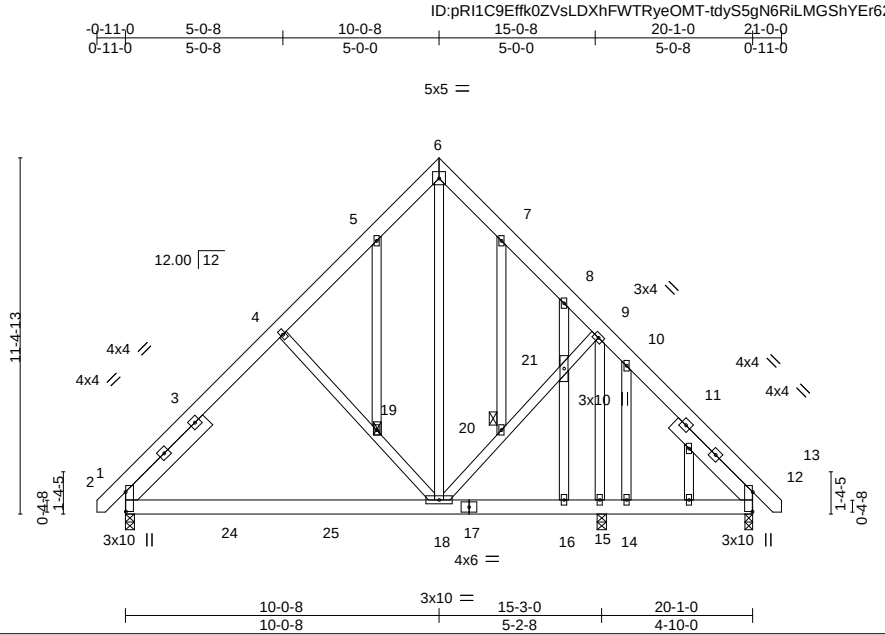

Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [12:0-7-9,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.09	2-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.15	2-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	12-14	>999	240	Weight: 219 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
SLIDER Left 2x6 SP No.1 3-8-1, Right 2x6 SP No.1 3-6-7

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.
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-0
Max Horz 2=-433(LC 8)
Max Uplift 2=-198(LC 12), 15=-313(LC 13), 12=-67(LC 9)
Max Grav 2=701(LC 19), 15=701(LC 1), 12=320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-669/324, 4-5=-580/361, 5-6=-555/399, 6-7=-568/413, 7-8=-583/377, 8-9=-435/254
BOT CHORD 2-18=-276/620
WEBS 4-19=-434/438, 18-19=-455/461, 6-18=-344/492, 18-20=-77/402, 20-21=-65/392, 9-21=-74/391, 9-15=-371/101, 16-21=-257/178, 10-14=-300/233

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; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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) 12 except (jt=lb) 2=198, 15=313.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	C2	COMMON	2	1	I54232533
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:25 2022 Page 1
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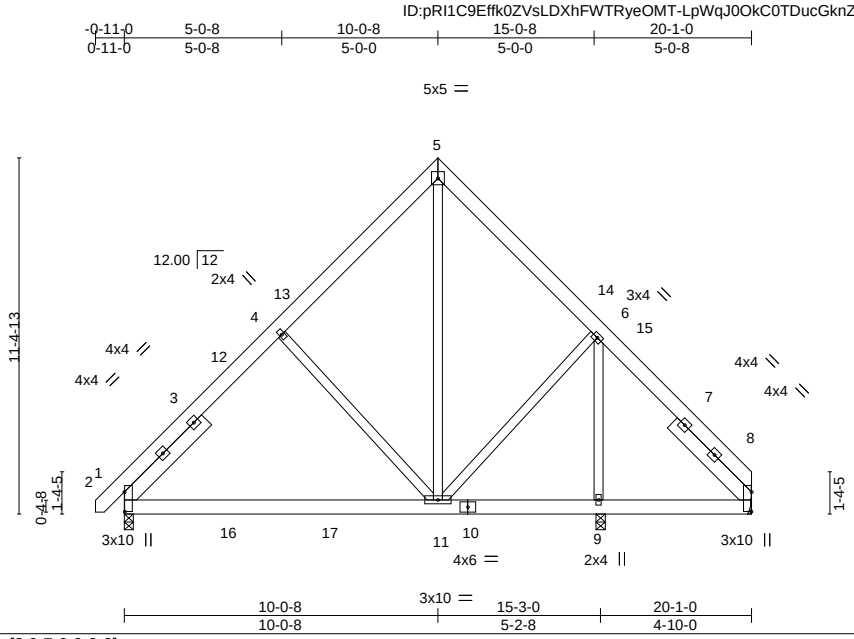

Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [8:0-7-9,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.10	2-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.16	2-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	8-9	>999	240	Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 3-8-1, Right 2x6 SP No.1 3-6-7

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) 8=Mechanical, 2=0-3-8, 9=0-3-8
Max Horz 2=-347(LC 8)
Max Uplift 8=-46(LC 13), 2=-106(LC 13), 9=-101(LC 12)
Max Grav 8=346(LC 1), 2=740(LC 20), 9=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-707/314, 4-5=-642/375, 5-6=-646/393, 6-8=-319/190
BOT CHORD 2-11=-201/593
WEBS 4-11=-446/361, 5-11=-306/529, 6-11=-62/303, 6-9=-620/243

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 10-0-8, Exterior(2) 10-0-8 to 14-5-5, Interior(1) 14-5-5 to 20-1-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) 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) 8 except (jt=lb) 2=106, 9=101.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	C2-GR	COMMON	1	2	I54232534 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:26 2022 Page 1
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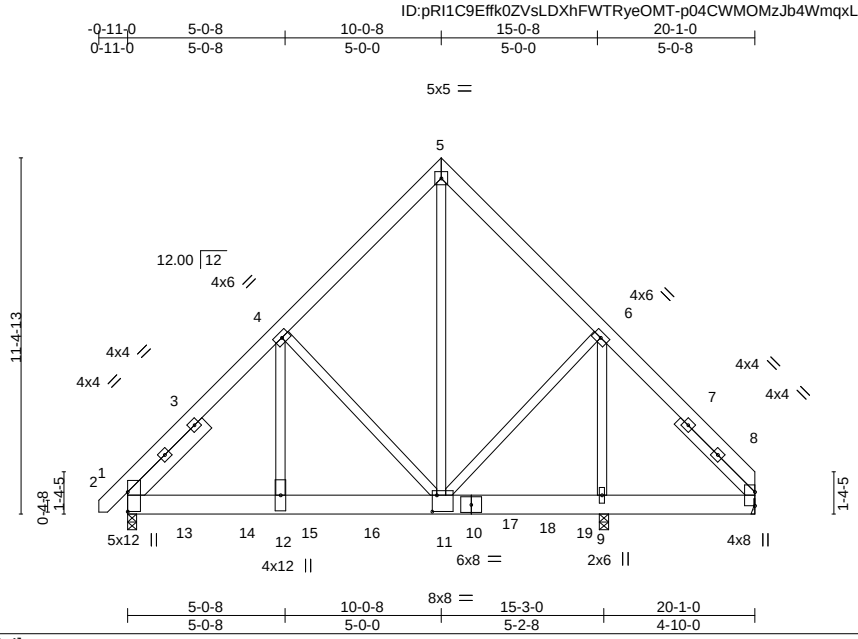

Plate Offsets (X,Y)-- [11:0-1-12,0-6-4]

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	0.32	Vert(LL)	-0.05	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.10	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	11-12	>999	240	Weight: 394 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 3-5-3, Right 2x4 SP No.2 3-5-3

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) 8=Mechanical, 2=0-3-8, 9=0-3-8 (req. 0-3-10)
Max Horz 2=345(LC 5)
Max Uplift 8=-158(LC 27), 2=-776(LC 9), 9=-846(LC 8)
Max Grav 8=298(LC 15), 2=5634(LC 2), 9=6175(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-5680/840, 4-5=-2948/591, 5-6=-3011/593, 6-8=-352/99
BOT CHORD 2-12=-643/3753, 11-12=-644/3760
WEBS 4-11=-2497/575, 5-11=-663/3782, 6-11=-465/2948, 6-9=-4282/657, 4-12=-450/3758

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: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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) WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=158, 2=776, 9=846.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1485 lb down and 206 lb up at 1-8-12, 1485 lb down and 206 lb up at 3-8-12, 1485 lb down and 206 lb up at 5-8-12, 1485 lb down and 206 lb up at 7-8-12, 1485 lb down and 206 lb up at 9-8-12, and 1485 lb down and 206 lb up at 11-8-12, and 1485 lb down and 206 lb up at 13-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

September 15,2022

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-8=-60, 2-8=-20
   Concentrated Loads (lb)
   Vert: 13=-1287(B) 14=-1287(B) 15=-1287(B) 16=-1287(B) 17=-1287(B) 18=-1287(B) 19=-1287(B)

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	D1-GR	Common Girder	1	2	I54232535 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:29 2022 Page 1
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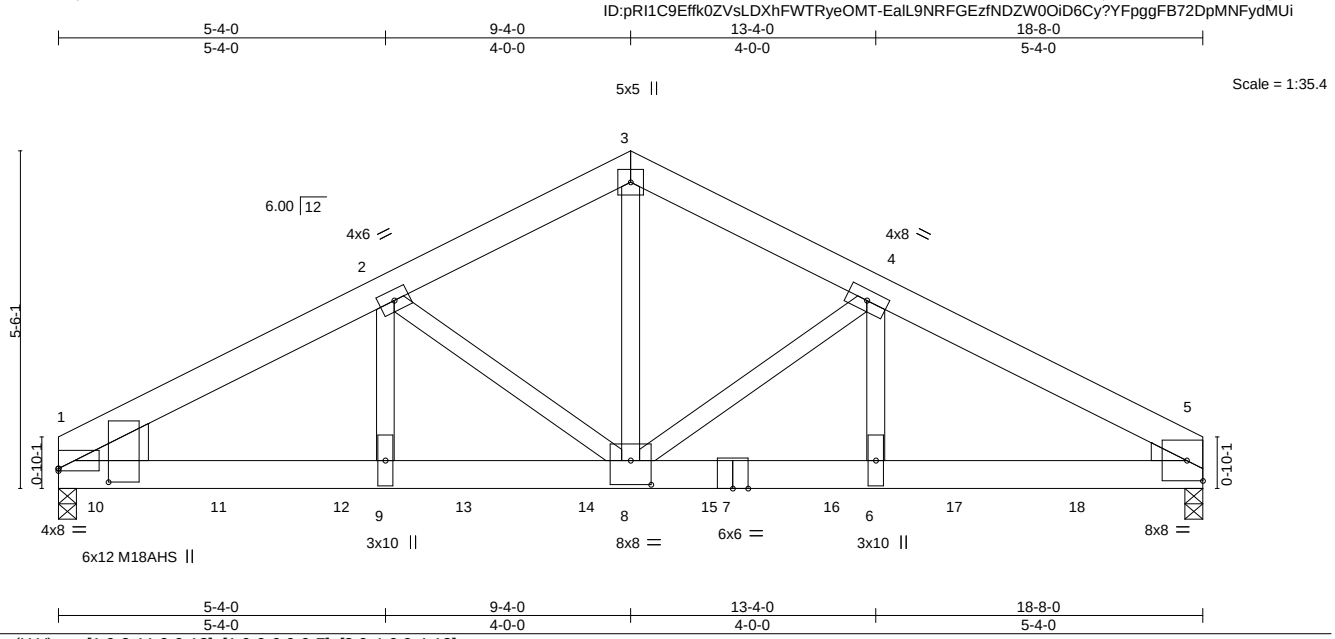

Plate Offsets (X,Y)-- [1:0-2-11,0-9-13], [1:0-0-0,0-0-7], [8:0-4-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.09	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.17	5-6	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.07	5-6	>999	240	Weight: 252 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 1=0-3-8
Max Horz 1=87(LC 7)
Max Uplift 5=-866(LC 9), 1=-968(LC 8)
Max Grav 5=6116(LC 2), 1=6921(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-9614/1345, 2-3=-6791/1002, 3-4=-6789/1002, 4-5=-9812/1379
BOT CHORD 1-9=-1171/8285, 8-9=-1171/8285, 6-8=-1119/8451, 5-6=-1119/8451
WEBS 3-8=-794/5730, 4-8=-3001/529, 2-8=-2793/493, 2-9=-363/3252, 4-6=-403/3492

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 0-5-0 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) All plates are MT20 plates 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=866, 1=968.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1390 lb down and 191 lb up at 0-7-12, 1385 lb down and 196 lb up at 2-7-12, 1205 lb down and 167 lb up at 4-7-12, 1205 lb down and 167 lb up at 6-7-12, 1205 lb down and 167 lb up at 8-7-12, 1205 lb down and 167 lb up at 10-7-12, 1385 lb down and 196 lb up at 12-7-12, and 1385 lb down and 196 lb up at 14-7-12, and 1385 lb down and 196 lb up at 16-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

September 15,2022

Continued on page 2

TRENCO
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-5=-60, 1-5=-20
   Concentrated Loads (lb)
   Vert: 10=-1209(F) 11=-1204(F) 12=-1057(F) 13=-1057(F) 14=-1057(F) 15=-1057(F) 16=-1204(F) 17=-1204(F) 18=-1204(F)

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	D1GE	COMMON SUPPORTED GAB	1	1	I54232536 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:28 2022 Page 1
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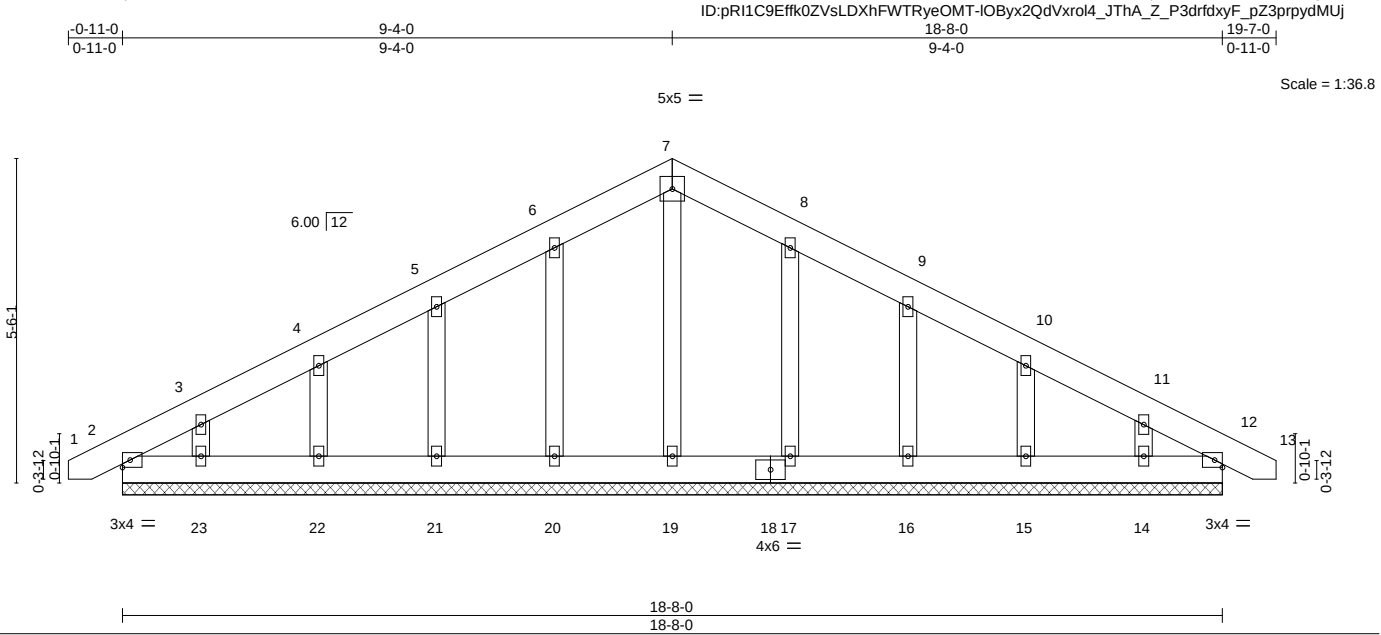

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 130 lb	FT = 20%

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

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

REACTIONS. All bearings 18-8-0.
(lb) - Max Horz 2=-135(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 12 except 20=-101(LC 12), 21=-112(LC 12), 22=-111(LC 12), 23=-131(LC 12), 16=-114(LC 13), 15=-110(LC 13), 14=-120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 17, 16, 15, 14, 12

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) 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, 17, 12 except (jt=lb) 20=101, 21=112, 22=111, 23=131, 16=114, 15=110, 14=120.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	G1	COMMON	5	1	I54232537
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:30 2022 Page 1
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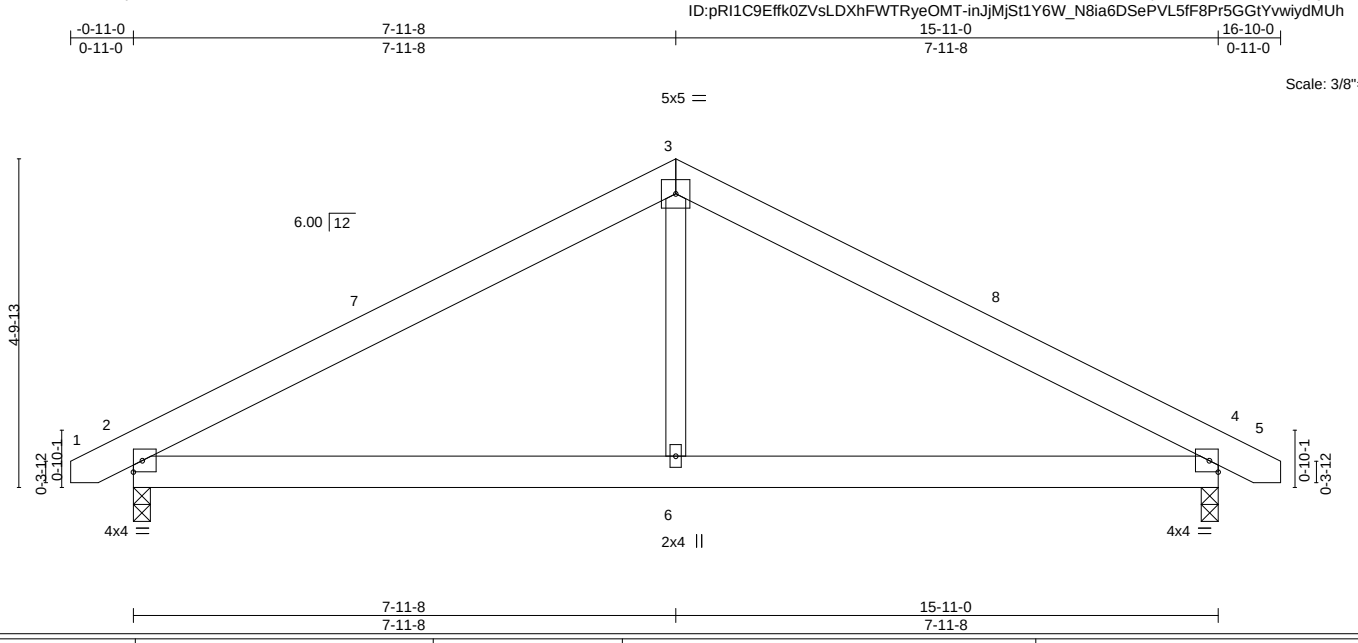

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.05	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	2-6	>999	240	Weight: 90 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=75(LC 11)
Max Uplift 2=-130(LC 12), 4=-130(LC 13)
Max Grav 2=677(LC 1), 4=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-856/382, 3-4=-856/378
BOT CHORD 2-6=-174/655, 4-6=-174/655
WEBS 3-6=0/380

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 7-11-8, Exterior(2) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-7-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=130, 4=130.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	G1GE	COMMON SUPPORTED GAB	1	1	I54232538
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:31 2022 Page 1
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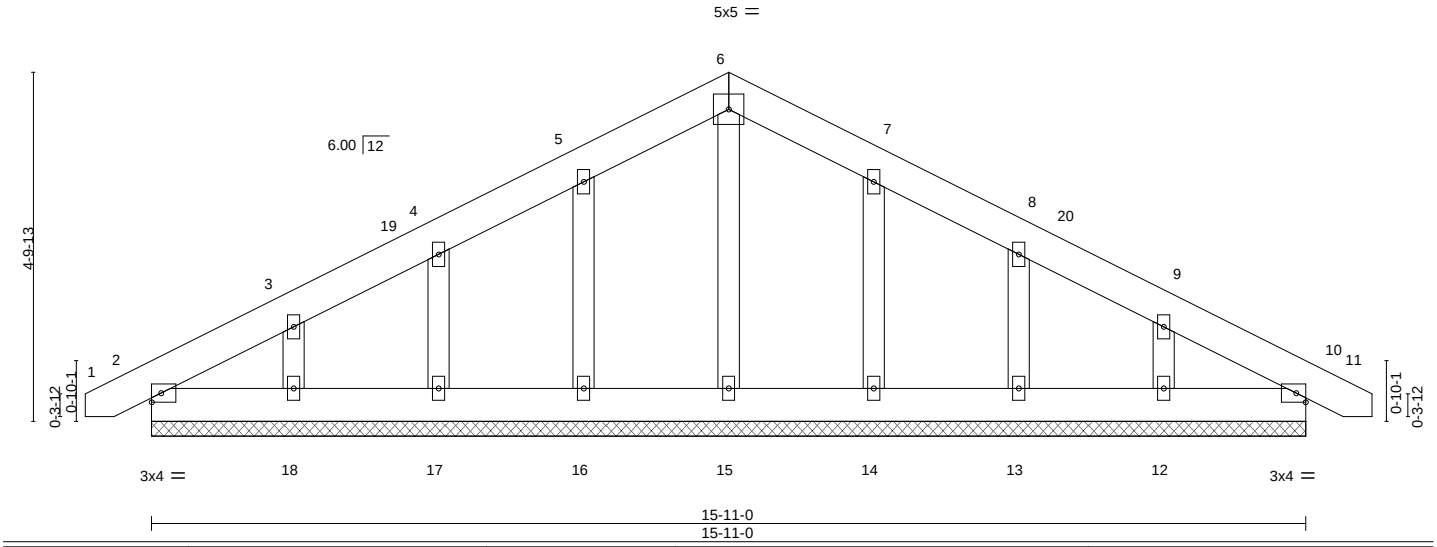
Scale = 1:29.9



15-11-0
15-11-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 107 lb	FT = 20%

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

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

REACTIONS. All bearings 15-11-0.
(lb) - Max Horz 2=75(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-86/263, 6-7=-86/265
WEBS 3-18=-118/277, 9-12=-118/277

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 Corner(3) -0-8-10 to 3-11-8, Exterior(2) 3-11-8 to 7-11-8, Corner(3) 7-11-8 to 12-4-5, Exterior(2) 12-4-5 to 16-7-10 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, 10, 16, 17, 18, 14, 13, 12.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	H1	COMMON	3	1	I54232539
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:32 2022 Page 1
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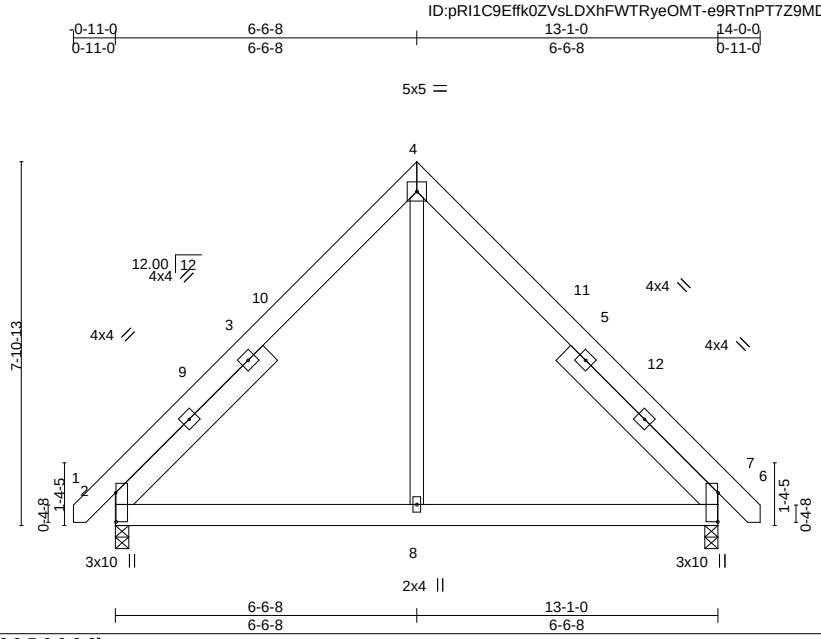

Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [6:0-7-9,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	2-8	>999	240	Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 4-8-7, Right 2x6 SP No.1 4-8-7

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-235(LC 8)
Max Uplift 2=-86(LC 13), 6=-86(LC 12)
Max Grav 2=570(LC 1), 6=570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-539/254, 4-6=-539/254
BOT CHORD 2-8=-38/317, 6-8=-38/317
WEBS 4-8=0/301

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 6-6-8, Exterior(2) 6-6-8 to 10-11-5, Interior(1) 10-11-5 to 13-10-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	H1GE	COMMON SUPPORTED GAB	1	1	I54232540
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:33 2022 Page 1
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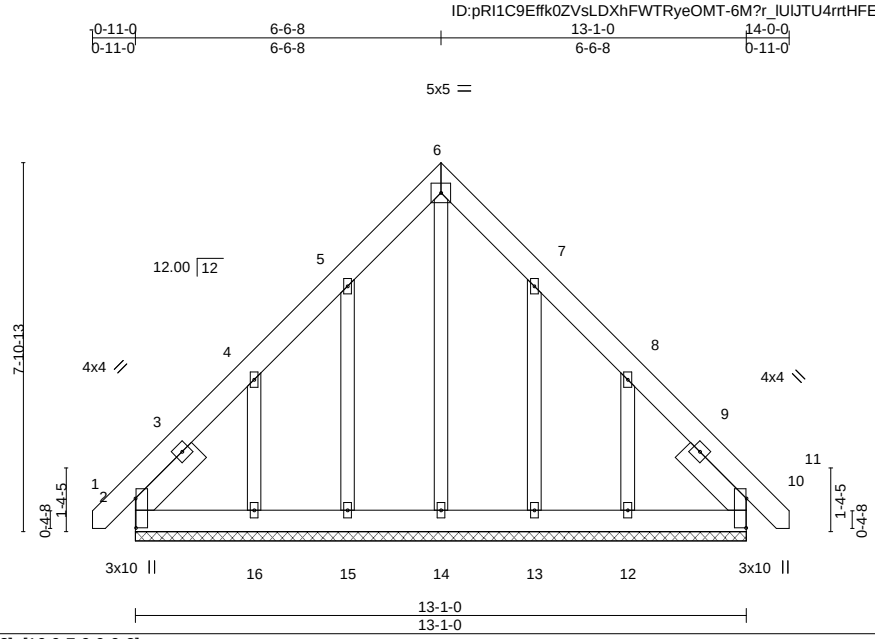

Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [10:0-7-9,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 1-10-8, Right 2x6 SP No.1 1-10-8

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

REACTIONS. All bearings 13-1-0.
(lb) - Max Horz 2=-293(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 2=-114(LC 8), 15=-137(LC 12), 16=-377(LC 12), 13=-135(LC 13), 12=-368(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 10, 14, 15, 13 except 2=269(LC 20), 16=301(LC 19), 12=291(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-263/206, 5-6=-259/265, 6-7=-258/265
WEBS 4-16=-351/366, 8-12=-351/359

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) 10 except (jt=lb) 2=114, 15=137, 16=377, 13=135, 12=368.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	M1-GR	Monopitch Girder	1	2	I54232541
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:34 2022 Page 1
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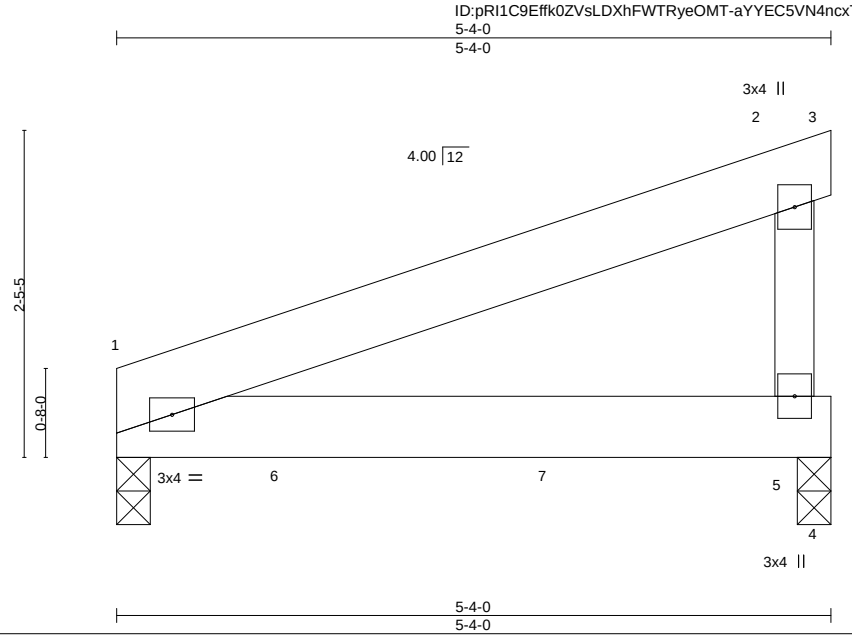

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.02	1-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	1-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.02	1-5	>999	240	Weight: 56 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 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-0, 5=0-3-0
Max Horz 1=85(LC 4)
Max Uplift 1=-136(LC 4), 5=-316(LC 4)
Max Grav 1=561(LC 1), 5=598(LC 1)

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

NOTES-
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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) 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
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) except (jt=lb) 1=136, 5=316.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 326 lb down and 66 lb up at 1-3-12, and 326 lb down and 66 lb up at 3-3-12, and 228 lb down and 172 lb up at 4-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-20, 1-4=-20
Concentrated Loads (lb)
Vert: 5=-100(B) 6=-326(B) 7=-326(B)

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	PB	PIGGYBACK	26	1	I54232542
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:35 2022 Page 1
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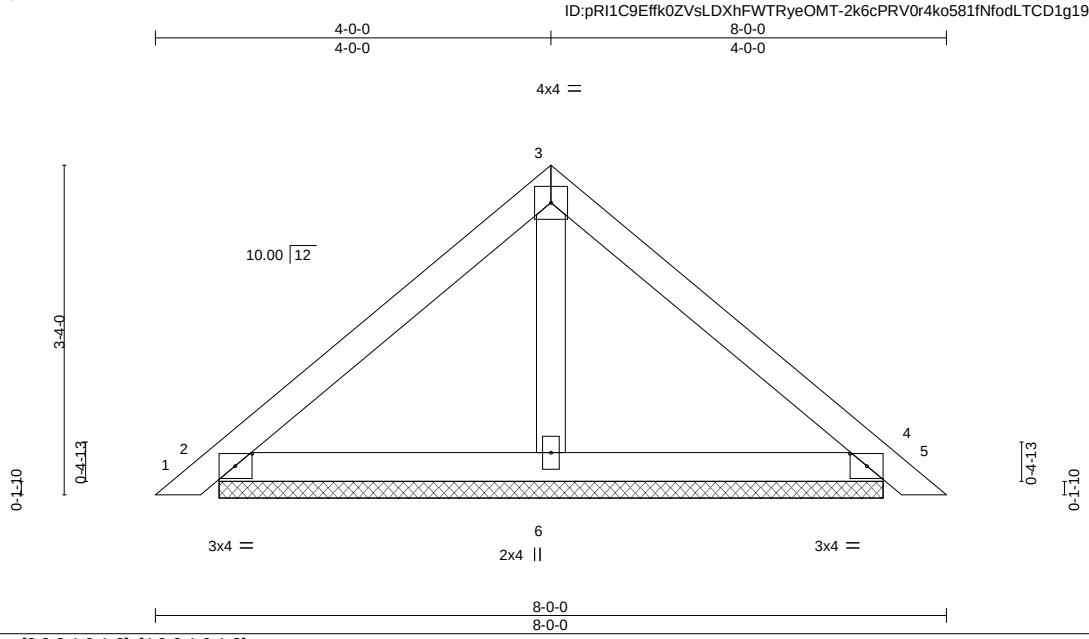

Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 29 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) 2=6-8-9, 4=6-8-9, 6=6-8-9
Max Horz 2=-100(LC 10)
Max Uplift 2=-56(LC 12), 4=-65(LC 13)
Max Grav 2=182(LC 1), 4=182(LC 1), 6=223(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) 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	PBGE	GABLE	2	1	I54232543
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:36 2022 Page 1
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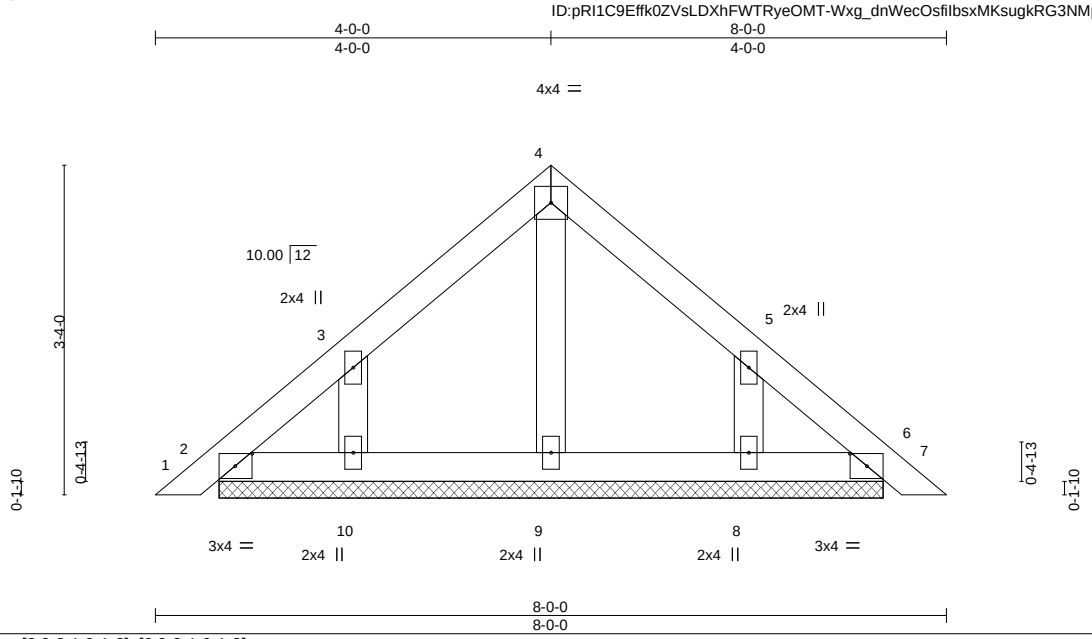

Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%

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

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

REACTIONS. All bearings 6-8-9.
(lb) - Max Horz 2=-125(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-177(LC 12), 8=-176(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=177, 8=176.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VC1	VALLEY	1	1	I54232544
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:37 2022 Page 1
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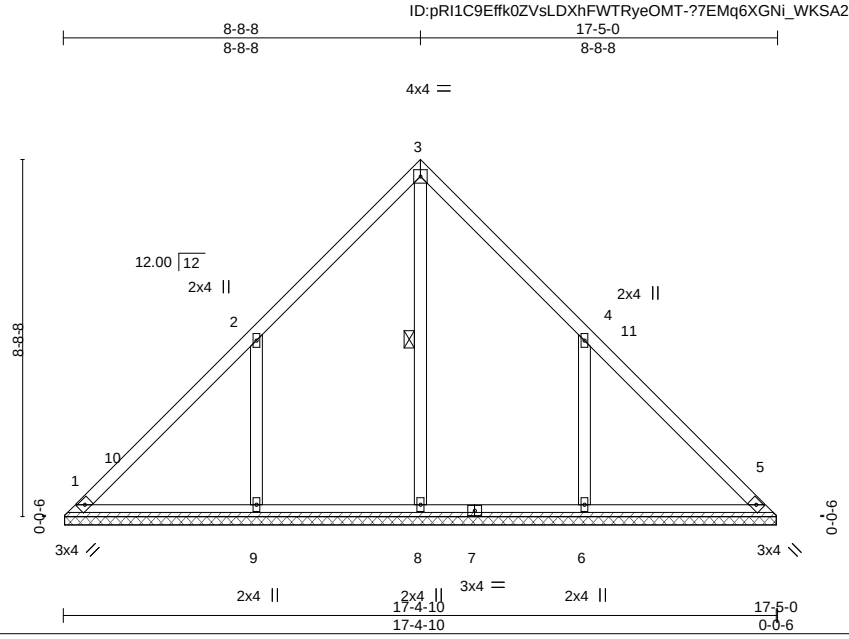

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 85 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.
WEBS 1 Row at midpt 3-8

REACTIONS. All bearings 17-4-4.
(lb) - Max Horz 1=-267(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-320(LC 12), 6=-320(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=427(LC 22), 9=582(LC 19), 6=582(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-250/238, 3-4=-250/238
WEBS 2-9=-569/466, 4-6=-569/466

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-8-8, Interior(1) 4-8-8 to 8-8-8, Exterior(2) 8-8-8 to 13-1-5, Interior(1) 13-1-5 to 17-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=320, 6=320.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VC2	VALLEY	1	1	I54232545
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:38 2022 Page 1
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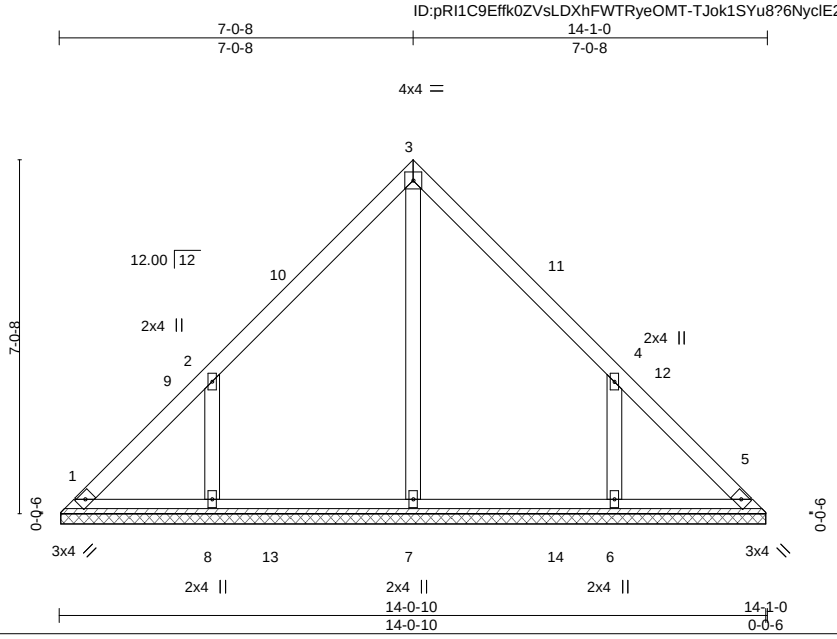

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%

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

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

REACTIONS. All bearings 14-0-4.
(lb) - Max Horz 1=214(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-257(LC 12), 6=-257(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=408(LC 19), 8=439(LC 19), 6=438(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-468/408, 4-6=-468/408

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-0-8, Exterior(2) 7-0-8 to 11-5-5, Interior(1) 11-5-5 to 13-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=257, 6=257.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VC3	VALLEY	1	1	I54232546
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:39 2022 Page 1
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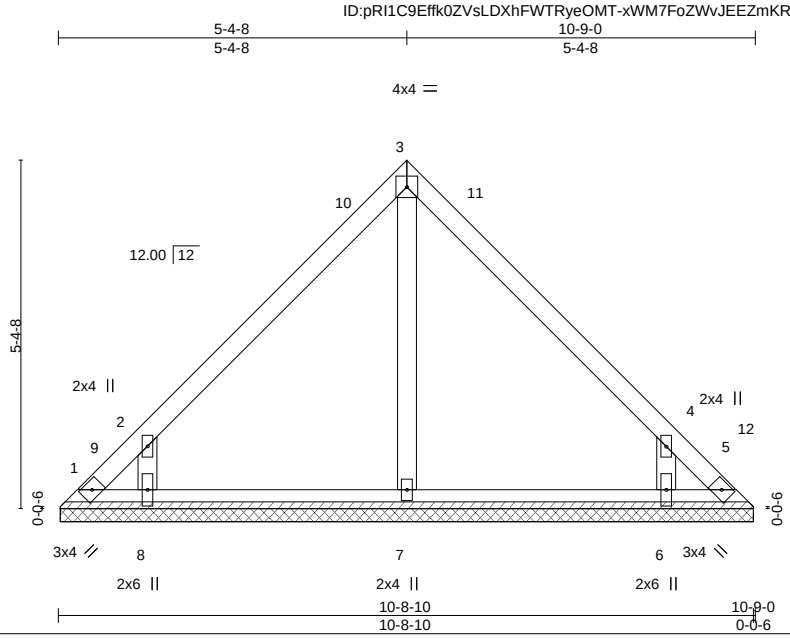

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

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

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

REACTIONS. All bearings 10-8-4.
(lb) - Max Horz 1=-160(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-148(LC 10), 5=-121(LC 11), 8=-259(LC 12), 6=-259(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=391(LC 19), 6=391(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-493/461, 4-6=-493/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-4-8, Exterior(2) 5-4-8 to 9-9-5, Interior(1) 9-9-5 to 10-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 148 lb uplift at joint 1, 121 lb uplift at joint 5, 259 lb uplift at joint 8 and 259 lb uplift at joint 6.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VC4	VALLEY	1	1	I54232547
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:40 2022 Page 1
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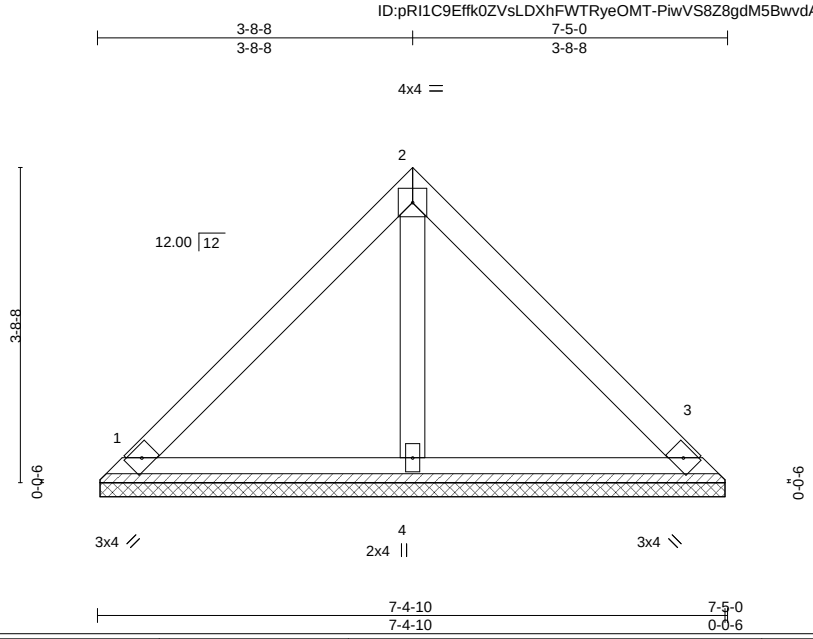

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 30 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-4-4, 3=7-4-4, 4=7-4-4
Max Horz 1=-107(LC 8)
Max Uplift 1=-53(LC 13), 3=-53(LC 13)
Max Grav 1=164(LC 1), 3=163(LC 1), 4=210(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 53 lb uplift at joint 1 and 53 lb uplift at joint 3.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VC5	VALLEY	1	1	I54232548
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:40 2022 Page 1
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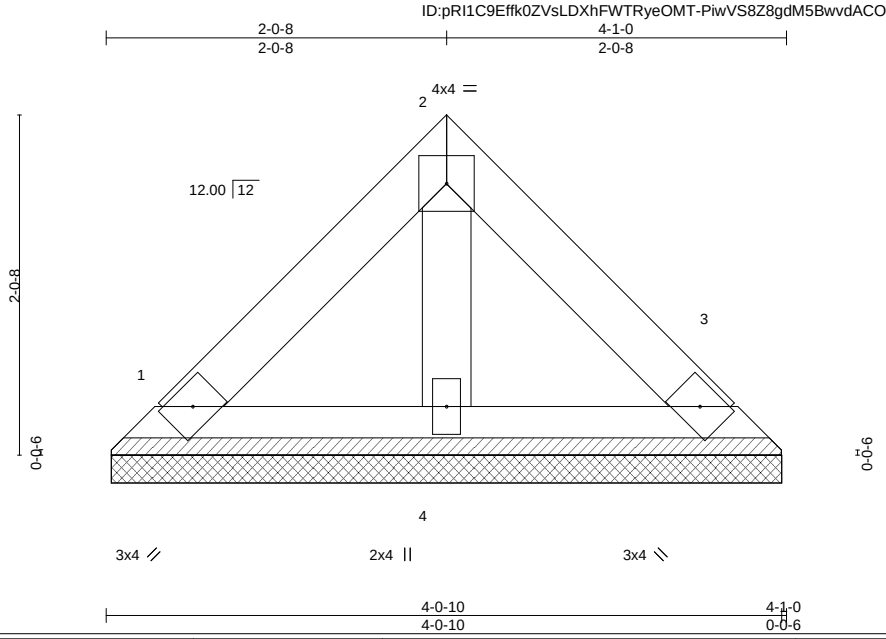

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-0-4, 3=4-0-4, 4=4-0-4
Max Horz 1=-54(LC 10)
Max Uplift 1=-27(LC 13), 3=-27(LC 13)
Max Grav 1=82(LC 1), 3=82(LC 1), 4=106(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 27 lb uplift at joint 1 and 27 lb uplift at joint 3.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VD1	VALLEY	1	1	I54232549
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:41 2022 Page 1
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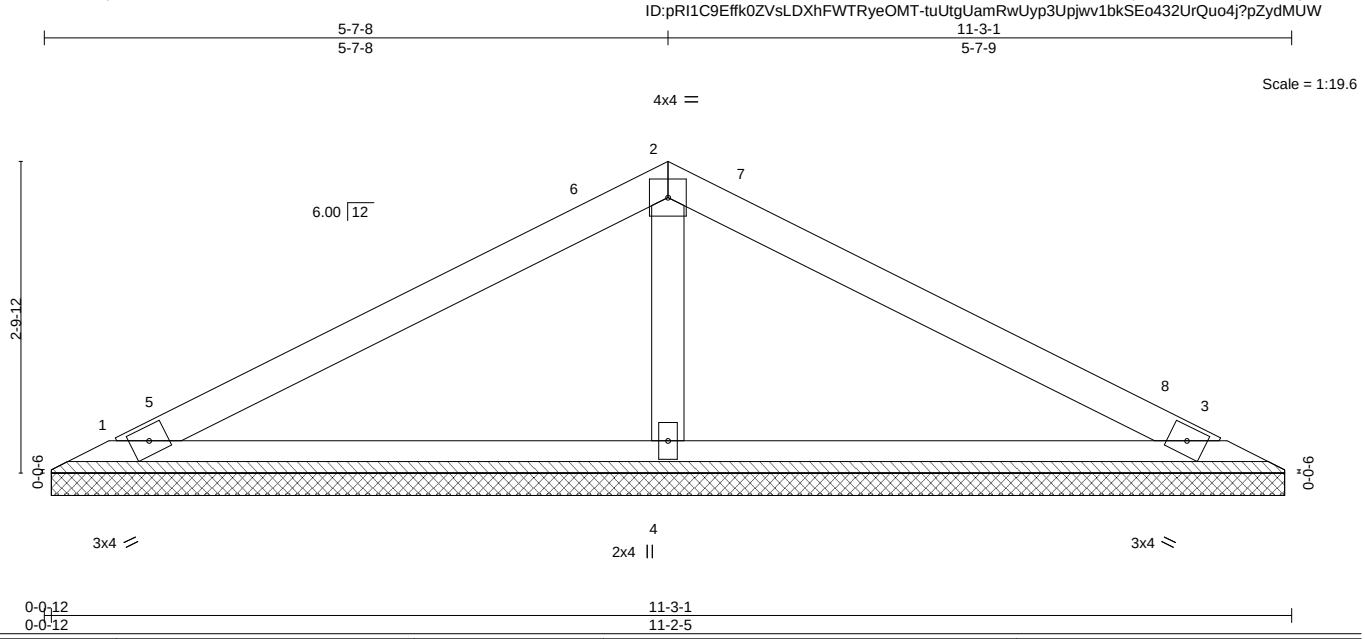


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 36 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=11-1-9, 3=11-1-9, 4=11-1-9
Max Horz 1=-43(LC 8)
Max Uplift 1=-50(LC 12), 3=-57(LC 13), 4=-44(LC 12)
Max Grav 1=184(LC 23), 3=184(LC 24), 4=431(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-285/264

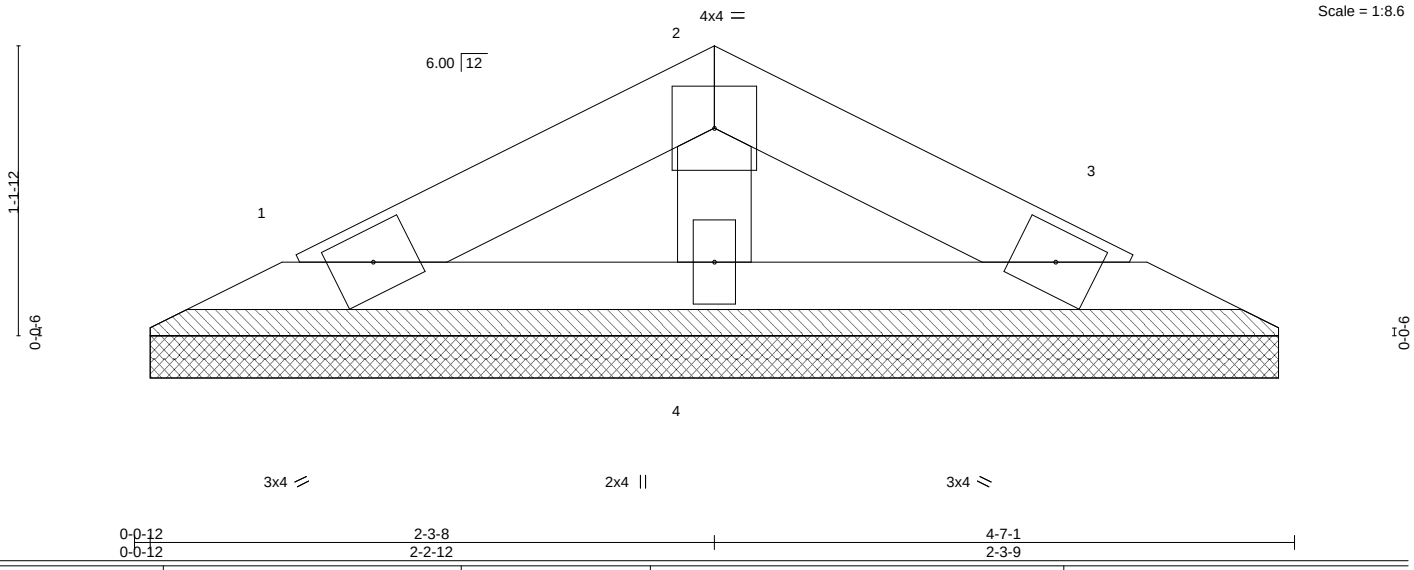
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-7-8, Exterior(2) 5-7-8 to 10-0-5, Interior(1) 10-0-5 to 10-7-4 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 50 lb uplift at joint 1, 57 lb uplift at joint 3 and 44 lb uplift at joint 4.

September 15,2022

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VD2	VALLEY	1	1	I54232550
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:42 2022 Page 1
ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-L51FtqbPCEcpQD30HdRG8x_TuUQnDI611kSYL?ydMUV



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	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	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-5-9, 3=4-5-9, 4=4-5-9
Max Horz 1=-15(LC 10)
Max Uplift 1=-20(LC 12), 3=-23(LC 13), 4=-6(LC 12)
Max Grav 1=67(LC 1), 3=67(LC 1), 4=128(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 20 lb uplift at joint 1, 23 lb uplift at joint 3 and 6 lb uplift at joint 4.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VG1	VALLEY	1	1	I54232551
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:43 2022 Page 1
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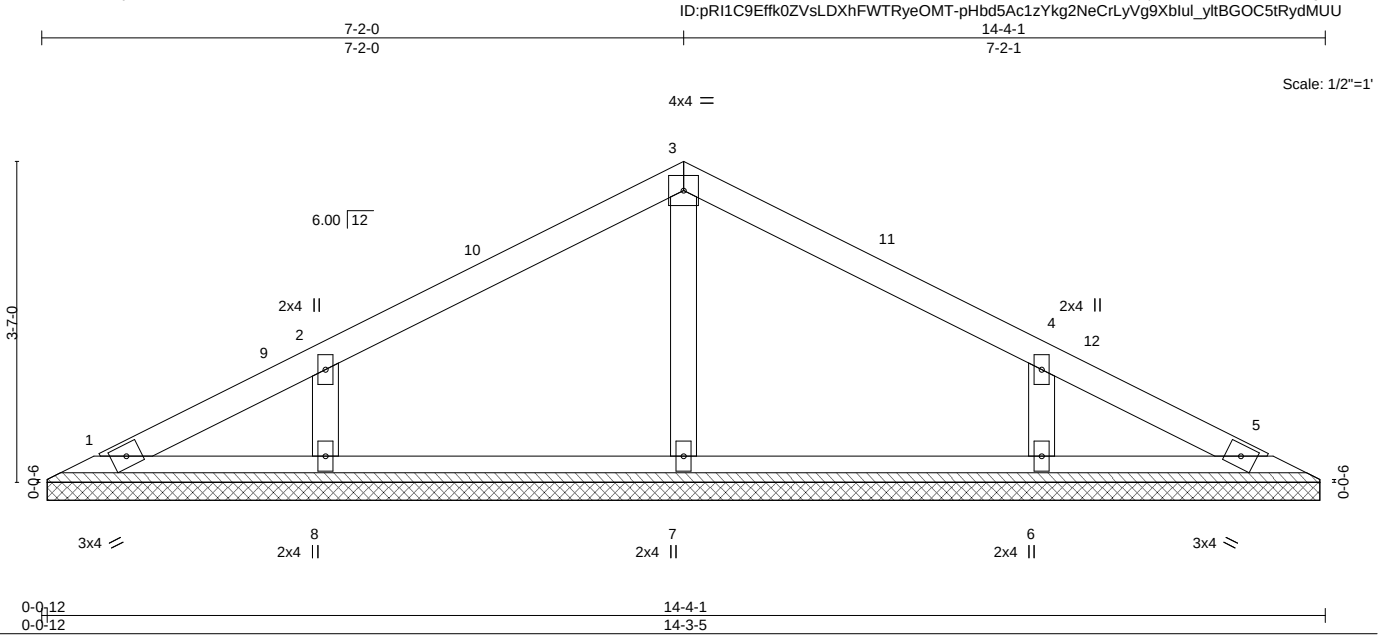

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 50 lb	FT = 20%

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

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

REACTIONS. All bearings 14-2-9.
(lb) - Max Horz 1=57(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-125(LC 12), 6=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=282(LC 1), 8=313(LC 23), 6=313(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-240/282, 4-6=-240/282

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) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-2-0, Exterior(2) 7-2-0 to 11-6-13, Interior(1) 11-6-13 to 13-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=125, 6=125.

September 15,2022

TRENCO
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes
J1122-5849	VG2	VALLEY	1	1	I54232552
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:44 2022 Page 1
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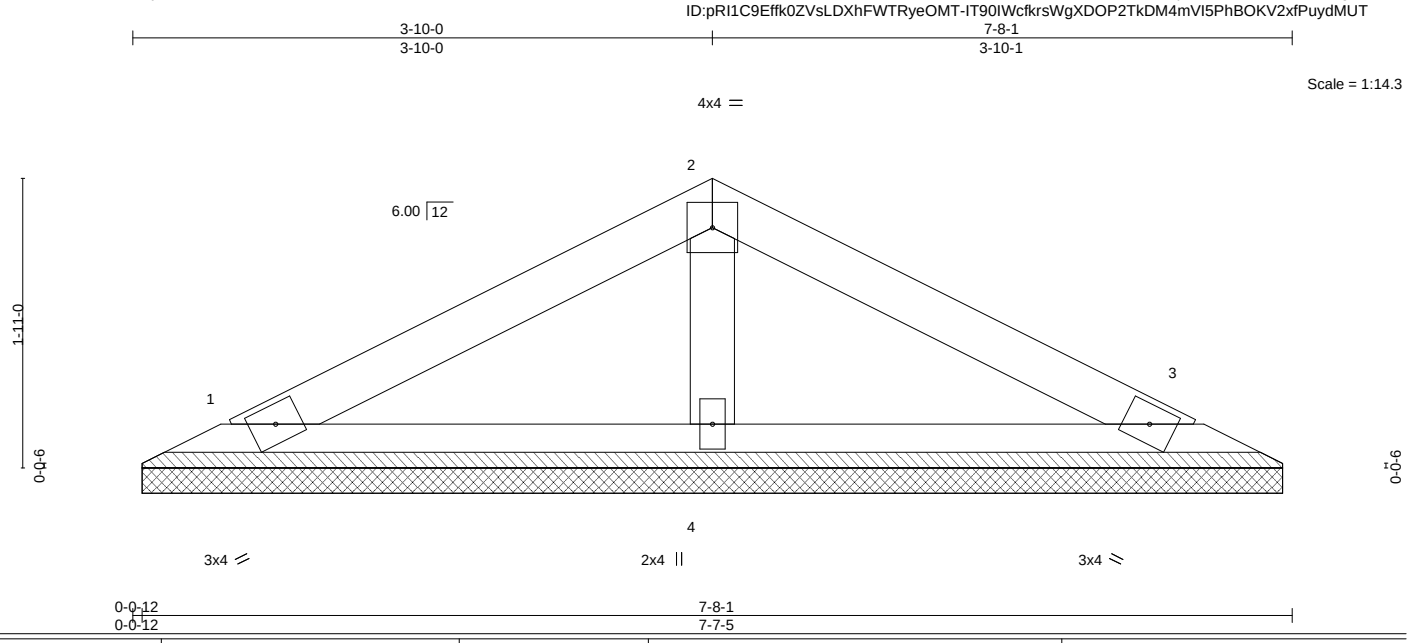


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 24 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=7-6-9, 3=7-6-9, 4=7-6-9
Max Horz 1=-28(LC 10)
Max Uplift 1=-39(LC 12), 3=-44(LC 13), 4=-13(LC 12)
Max Grav 1=130(LC 1), 3=130(LC 1), 4=250(LC 1)

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

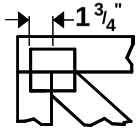
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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.

September 15,2022

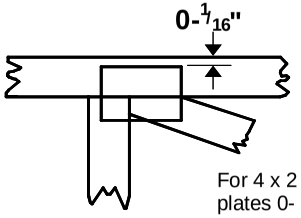
TRENCO
818 Soundside Road
Edenton, NC 27932

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

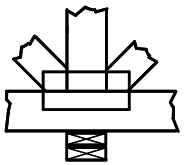
4 x 4

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

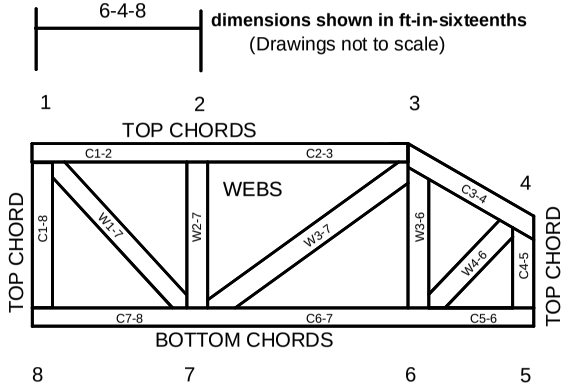


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

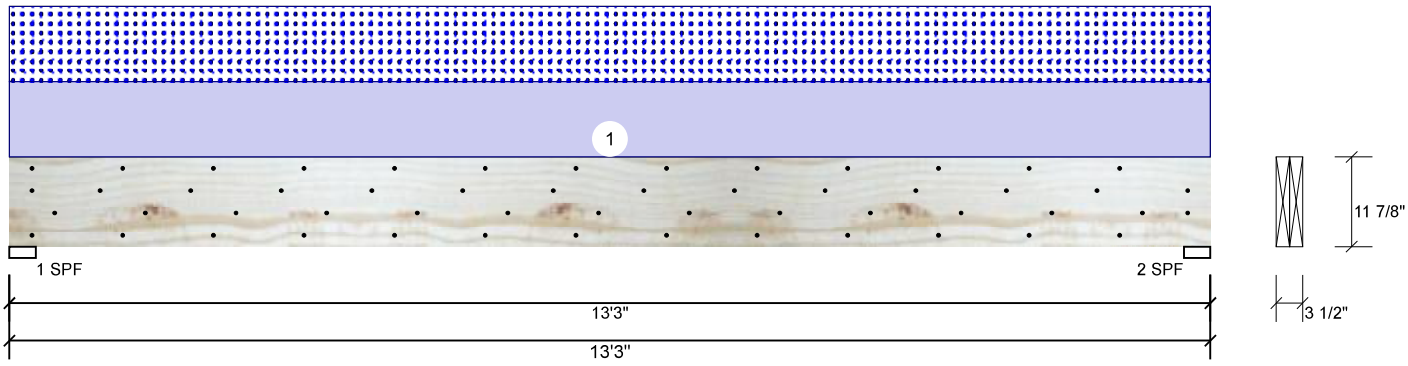
Failure to Follow Could Cause Property Damage or Personal Injury

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 Construction	Date:	11/30/2022
Project:	Plan 11	Input by:	Jonathan Landry
Address:	Sugarberry Place Clayton, NC 27527	Job Name:	Lot 148 Hidden Lakes
		Project #:	J1122-5849

BM1 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	2466	2405	0	0
2	Vertical	0	2466	2405	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	94%	2466 / 2405	4871	L	D+S
2 - SPF	3.500"	Vert	94%	2466 / 2405	4871	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15038 ft-lb	6'7 1/2"	22897 ft-lb	0.657 (66%)	D+S	L
Unbraced	15038 ft-lb	6'7 1/2"	15046 ft-lb	0.999 (100%)	D+S	L
Shear	4656 lb	11'11 5/8"	10197 lb	0.457 (46%)	D+S	L
LL Defl inch	0.244 (L/628)	6'7 1/2"	0.320 (L/480)	0.764 (76%)	S	L
TL Defl inch	0.495 (L/310)	6'7 1/2"	0.640 (L/240)	0.774 (77%)	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 4 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 5'5 15/16" 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			Near Face	363 PLF	0 PLF	363 PLF	0 PLF	0 PLF	A2
	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

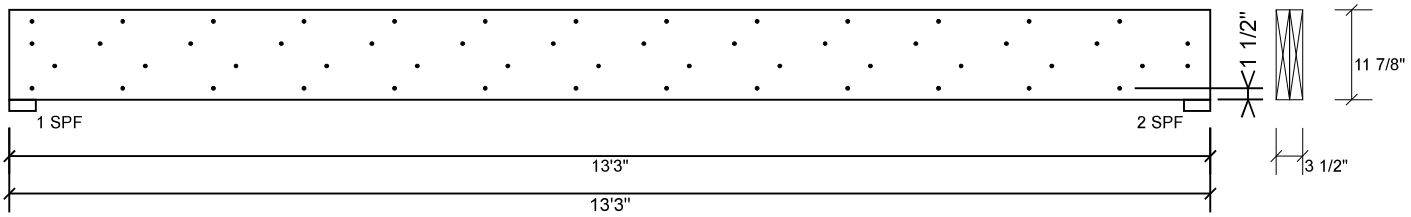
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

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

Client:	Wellco Construction	Date:	11/30/2022
Project:	Plan 11	Input by:	Jonathan Landry
Address:	Sugarberry Place Clayton, NC 27527	Job Name:	Lot 148 Hidden Lakes
		Project #:	J1122-5849

BM1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	96.4 %
Load	363.0 PLF
Yield Limit per Foot	376.5 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

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

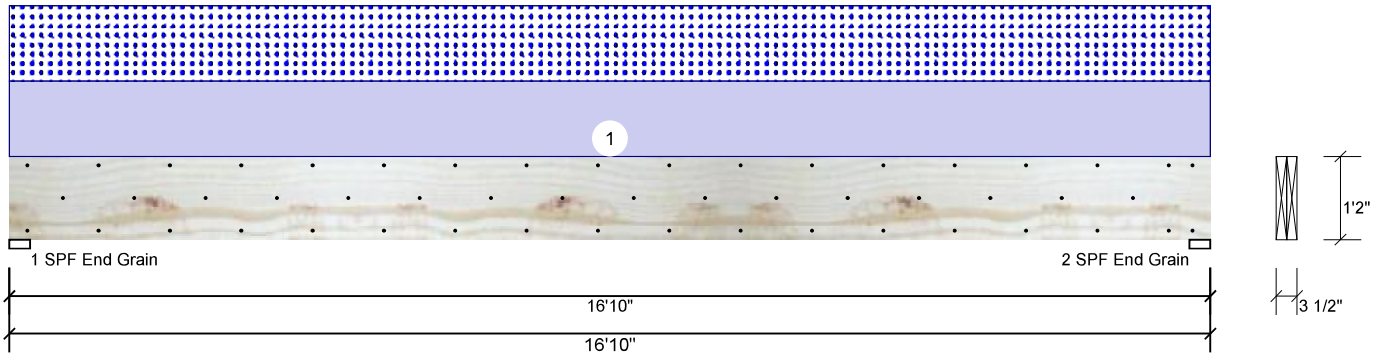
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

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

Client:	Wellco Construction	Date:	11/30/2022
Project:	Plan 11	Input by:	Jonathan Landry
Address:	Sugarberry Place Clayton, NC 27527	Job Name:	Lot 148 Hidden Lakes
		Project #:	J1122-5849

GDH 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	0	1607	1515	0	0
2	Vertical	0	1607	1515	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	30%	1607 / 1515	3122	L	D+S
2 - SPF End Grain	3.500"	Vert	30%	1607 / 1515	3122	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12431 ft-lb	8'5"	31049 ft-lb	0.400 (40%)	D+S	L
Unbraced	12431 ft-lb	8'5"	12464 ft-lb	0.997 (100%)	D+S	L
Shear	2593 lb	15'4 1/2"	12021 lb	0.216 (22%)	D+S	L
LL Defl inch	0.196 (L/1002)	8'5 1/16"	0.409 (L/480)	0.479 (48%)	S	L
TL Defl inch	0.404 (L/486)	8'5 1/16"	0.819 (L/240)	0.494 (49%)	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 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 loads must be supported equally by all plies.
6 Top must be laterally braced at a maximum of 8'4 3/16" 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	Uniform			Top	180 PLF	0 PLF	180 PLF	0 PLF	0 PLF	B1GE
	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

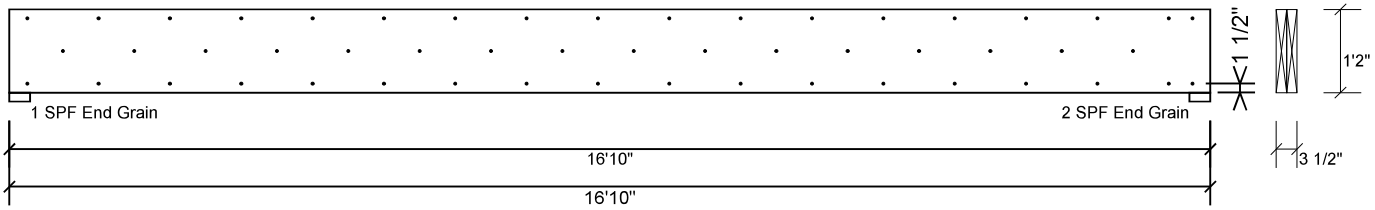
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

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

Client:	Wellco Construction	Date:	11/30/2022
Project:	Plan 11	Input by:	Jonathan Landry
Address:	Sugarberry Place Clayton, NC 27527	Job Name:	Lot 148 Hidden Lakes
		Project #:	J1122-5849

GDH 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	0.0 %
Load	0.0 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	
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

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Norwalk, CT 06851
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Fayetteville, NC
USA
28314
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Reaction Summary of Order

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

REQ. QUOTE DATE	/ /	**ORDER #**	J1122-5849
ORDER DATE	11/23/22	**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
Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 148 Hidden Lakes **LOT #** 148 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 11 / 2GLF, CP **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 135 Hidden Lakes (J1122-5625)

PLAN SEAL DATE: N/A

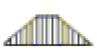
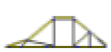
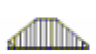
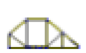
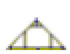
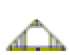
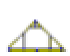
BUILDING DEPARTMENT	**OVERHANG INFO**		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**		**REQ. ENGINEERING**			**BY**	**DATE**
Roof Order	**END CUT**	**RETURN**							**QUOTE**	JL	11/30/22
	PLUMB		**GABLE STUDS**	16 IN. OC	JOBSITE	1	JOBSITE	1	**LAYOUT**	JL	11/30/22
									CUTTING	JL	11/30/22

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				
	10	10.00	0.00	PIGGYBACK A1	32-08-00 32-08-00	2 X 6	2 X 6			Joint 1 1509.2 lbs. -186.3 lbs.	Joint 10 1509.2 lbs. -186.3 lbs.			
	1	10.00	0.00	PIGGYBACK A1GE	32-08-00 32-08-00	2 X 6	2 X 6		00-11-00	Joint 1 351.1 lbs. -245.2 lbs.	Joint 23 247.9 lbs. -78.3 lbs.	Joint 25 270.6 lbs. -316.1 lbs.	Joint 26 180.9 lbs. -132.0 lbs.	Joint 27 199.5 lbs. -167.8 lbs.
	6	4.00	0.00	PIGGYBACK A2	37-09-00 37-09-00	2 X 6	2 X 6	00-11-00		Joint 9 1383.2 lbs. -184.5 lbs.	Joint 15 1785.7 lbs. -308.4 lbs.			
	6	10.00	0.00	PIGGYBACK A3	30-11-08 30-11-08	2 X 6	2 X 6			Joint 7 1328.7 lbs. -175.8 lbs.	Joint 12 1280.9 lbs. -157.3 lbs.			
	1	10.00	0.00	PIGGYBACK A3GE	30-11-08 30-11-08	2 X 6	2 X 6			Joint 20 287.7 lbs. -136.7 lbs.	Joint 21 281.5 lbs. -310.3 lbs.	Joint 22 184.8 lbs. -146.2 lbs.	Joint 23 198.7 lbs. -164.9 lbs.	Joint 24 200.7 lbs. -176.6 lbs.
	4	10.00	0.00	PIGGYBACK A4	27-03-08 27-03-08	2 X 6	2 X 6			Joint 7 1185.3 lbs. -147.3 lbs.	Joint 12 1180.1 lbs. -137.7 lbs.			
	7	12.00	0.00	ATTIC B1	21-02-00 21-02-00	2 X 6	2 X 10	00-11-00	00-11-00	Joint 2 1430.0 lbs. 42.2 lbs.	Joint 10 1424.7 lbs. 57.1 lbs.			
	1	12.00	0.00	GABLE B1GE	21-02-00 21-02-00	2 X 6	2 X 10	00-11-00	00-11-00	Joint 2 1333.1 lbs. -111.5 lbs.	Joint 12 1390.9 lbs. -96.7 lbs.			
	1	12.00	0.00	ATTIC B2	21-02-00 21-02-00	2 X 6	2 X 10		00-11-00	Joint 1 1394.6 lbs. 50.6 lbs.	Joint 9 1425.4 lbs. 56.9 lbs.			
	1 2 Ply	12.00	0.00	ATTIC B2-GR	21-02-00 21-02-00	2 X 6	2 X 10		00-11-00	Joint 1 1683.9 lbs. -32.0 lbs.	Joint 3 179.4 lbs. -32.0 lbs.	Joint 4 230.4 lbs. 30.4 lbs.	Joint 9 2138.1 lbs. 85.3 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 #**	J1122-5849
ORDER DATE	11/23/22	**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
Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 148 Hidden Lakes **LOT #** 148 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 11 / 2GLF, CP **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 135 Hidden Lakes (J1122-5625)

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	11/30/22
PLUMB		**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/30/22
												CUTTING	JL	11/30/22

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	COMMON C1	20-01-00 20-01-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 738.4 lbs. -105.3 lbs. Joint 8 393.1 lbs. -61.0 lbs. Joint 10 604.4 lbs. -103.4 lbs.
	1	12.00	0.00	GABLE C1SG	20-01-00 20-01-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 701.4 lbs. -198.1 lbs. Joint 12 319.9 lbs. -67.3 lbs. Joint 15 701.2 lbs. -313.0 lbs.
	2	12.00	0.00	COMMON C2	20-01-00 20-01-00	2 X 6	2 X 6	00-11-00		Joint 2 739.9 lbs. -106.5 lbs. Joint 8 346.4 lbs. -45.9 lbs. Joint 9 603.0 lbs. -101.2 lbs.
	1 / 2 Ply	12.00	0.00	COMMON C2-GR	20-01-00 20-01-00	2 X 6	2 X 8	00-11-00		Joint 2 5633.7 lbs. -776.2 lbs. Joint 8 297.7 lbs. -158.0 lbs. Joint 9 6175.5 lbs. -846.2 lbs.
	1 / 2 Ply	6.00	0.00	COMMON D1-GR	18-08-00 18-08-00	2 X 6	2 X 6			Joint 1 6559.5 lbs. -968.4 lbs. Joint 5 5794.8 lbs. -865.7 lbs.
	1	6.00	0.00	COMMON D1GE	18-08-00 18-08-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 176.5 lbs. -51.3 lbs. Joint 3 65.2 lbs. -27.8 lbs. Joint 4 51.6 lbs. 15.5 lbs. Joint 12 108.5 lbs. -16.4 lbs. Joint 14 128.5 lbs. -119.5 lbs.
	5	6.00	0.00	COMMON G1	15-11-00 15-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 677.2 lbs. -130.3 lbs. Joint 4 677.2 lbs. -130.3 lbs.
	1	6.00	0.00	COMMON G1GE	15-11-00 15-11-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 128.6 lbs. -28.5 lbs. Joint 10 128.6 lbs. -11.1 lbs. Joint 12 163.5 lbs. -75.8 lbs. Joint 13 158.9 lbs. -62.7 lbs. Joint 14 166.2 lbs. -55.5 lbs.
	3	12.00	0.00	COMMON H1	13-01-00 13-01-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 570.1 lbs. -86.1 lbs. Joint 6 570.1 lbs. -86.1 lbs.
	1	12.00	0.00	COMMON H1GE	13-01-00 13-01-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 265.9 lbs. -106.0 lbs. Joint 10 228.3 lbs. -55.7 lbs. Joint 12 284.7 lbs. -358.6 lbs. Joint 13 190.7 lbs. -148.2 lbs. Joint 14 205.2 lbs. 15.3 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 #**	J1122-5849
ORDER DATE	11/23/22	**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
Sugarberry Place
Clayton, NC 27527

JOB NAME: Lot 148 Hidden Lakes **LOT #** 148 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 11 / 2GLF, CP **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 135 Hidden Lakes (J1122-5625)

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	11/30/22
PLUMB		**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/30/22
												CUTTING	JL	11/30/22

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 / 2 Ply	4.00	0.00	MONOPITCH M1-GR	05-04-00 05-04-00	2 X 6	2 X 6			Joint 1 560.8 lbs. -135.7 lbs. Joint 5 597.7 lbs. -315.7 lbs.
	26	10.00	0.00	PIGGYBACK PB	06-08-09 06-08-09	2 X 4	2 X 4			Joint 2 182.0 lbs. -55.7 lbs. Joint 4 182.0 lbs. -64.8 lbs. Joint 6 222.9 lbs. 8.2 lbs.
	2	10.00	0.00	GABLE PBGE	06-08-09 06-08-09	2 X 4	2 X 4			Joint 2 91.4 lbs. -34.4 lbs. Joint 6 78.2 lbs. -11.8 lbs. Joint 8 200.7 lbs. -175.6 lbs. Joint 9 119.0 lbs. 23.5 lbs. Joint 10 202.0 lbs. -176.8 lbs.
	1	12.00	0.00	VALLEY VC1	17-04-04 17-04-04	2 X 4	2 X 4			Joint 1 221.1 lbs. -47.6 lbs. Joint 5 188.1 lbs. -3.7 lbs. Joint 6 581.8 lbs. -319.6 lbs. Joint 8 427.1 lbs. 58.3 lbs. Joint 9 582.2 lbs. -319.8 lbs.
	1	12.00	0.00	VALLEY VC2	14-00-04 14-00-04	2 X 4	2 X 4			Joint 1 161.8 lbs. -57.0 lbs. Joint 5 135.3 lbs. -21.8 lbs. Joint 6 438.4 lbs. -257.1 lbs. Joint 7 407.6 lbs. 52.7 lbs. Joint 8 438.8 lbs. -257.2 lbs.
	1	12.00	0.00	VALLEY VC3	10-08-04 10-08-04	2 X 4	2 X 4			Joint 1 164.7 lbs. -147.6 lbs. Joint 5 151.7 lbs. -121.3 lbs. Joint 6 390.9 lbs. -258.9 lbs. Joint 7 220.3 lbs. 43.5 lbs. Joint 8 391.0 lbs. -258.8 lbs.
	1	12.00	0.00	VALLEY VC4	07-04-04 07-04-04	2 X 4	2 X 4			Joint 1 163.5 lbs. -53.0 lbs. Joint 3 163.5 lbs. -53.0 lbs. Joint 4 210.0 lbs. 11.8 lbs.
	1	12.00	0.00	VALLEY VC5	04-00-04 04-00-04	2 X 4	2 X 4			Joint 1 82.3 lbs. -26.7 lbs. Joint 3 82.3 lbs. -26.7 lbs. Joint 4 105.7 lbs. 6.0 lbs.
	1	6.00	0.00	VALLEY VD1	11-01-09 11-01-09	2 X 4	2 X 4			Joint 1 184.1 lbs. -49.5 lbs. Joint 3 184.1 lbs. -57.0 lbs. Joint 4 431.0 lbs. -44.1 lbs.
	1	6.00	0.00	VALLEY VD2	04-05-09 04-05-09	2 X 4	2 X 4			Joint 1 67.0 lbs. -20.3 lbs. Joint 3 67.1 lbs. -22.9 lbs. Joint 4 128.5 lbs. -6.4 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

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ORDER DATE	11/23/22	**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
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Clayton, NC 27527

JOB NAME: Lot 148 Hidden Lakes **LOT #** 148 **SUBDIV:** Hidden Lakes
MODEL: Roof **TAG:** Plan 11 / 2GLF, CP **JOB CATEGORY:** B & S - Build and Ship

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
Copied from Lot 135 Hidden Lakes (J1122-5625)

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	11/30/22
PLUMB		**GABLE STUDS**	16 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	JL	11/30/22
												CUTTING	JL	11/30/22

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	6.00	0.00	VALLEY VG1	14-02-09 14-02-09	2 X 4	2 X 4			Joint 1 74.1 lbs. -11.4 lbs. Joint 5 74.1 lbs. -1.6 lbs. Joint 6 312.8 lbs. -125.2 lbs. Joint 7 282.3 lbs. 6.8 lbs. Joint 8 312.8 lbs. -125.4 lbs.
	1	6.00	0.00	VALLEY VG2	07-06-09 07-06-09	2 X 4	2 X 4			Joint 1 129.8 lbs. -39.4 lbs. Joint 3 129.8 lbs. -44.2 lbs. Joint 4 249.7 lbs. -12.8 lbs.

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
25	Hangers, USP	HUS 26			SIMPSON (HUS26)
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	14-00-00		BM1
2	LVL Beams (Sized)	LVL, 1-3/4" x 14" (S)	22-00-00		GDH
1	Hangers, USP	THD26-2			SIMPSON (HHUS26-2)