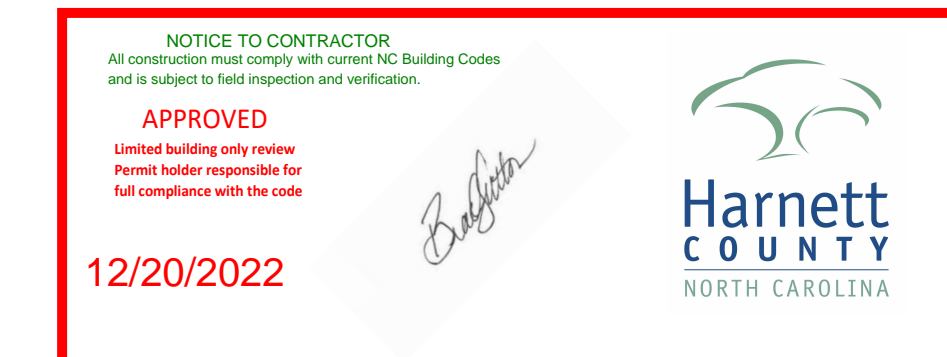
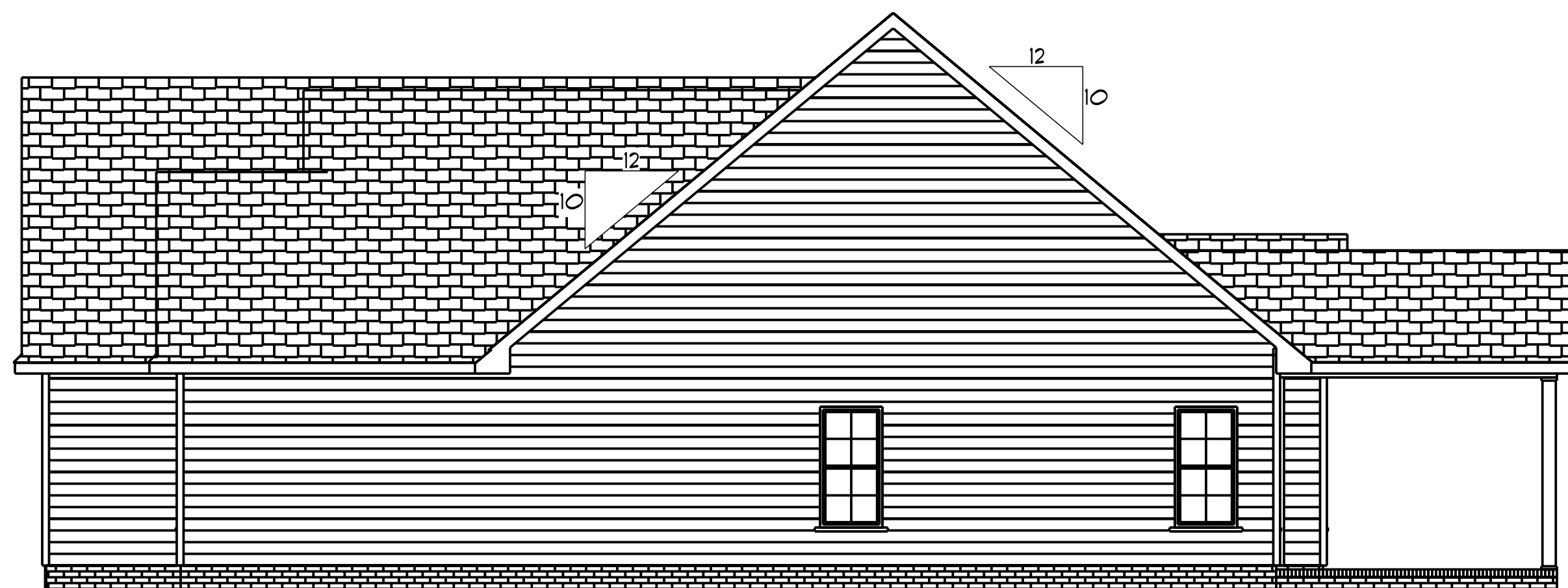




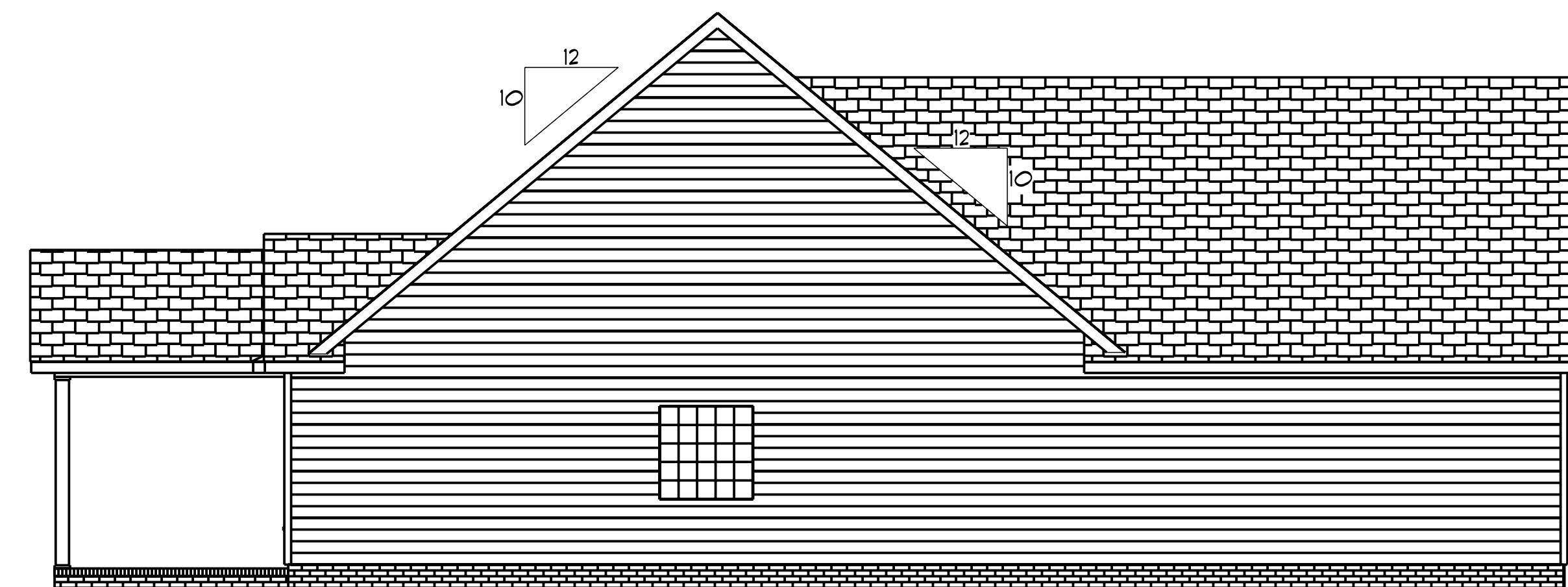
Front Elevation  
Scale: 1/4" = 1'0"



Rear Elevation  
Scale: 3/16" = 1'0"



Right Elevation  
Scale: 3/16" = 1'0"

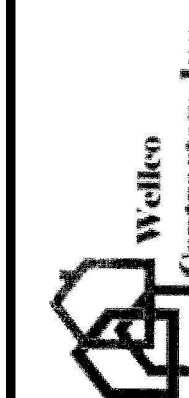


Left Elevation  
Scale: 3/16" = 1'0"

DATE: 12/14/2022  
REVISED  
DRAWING\*

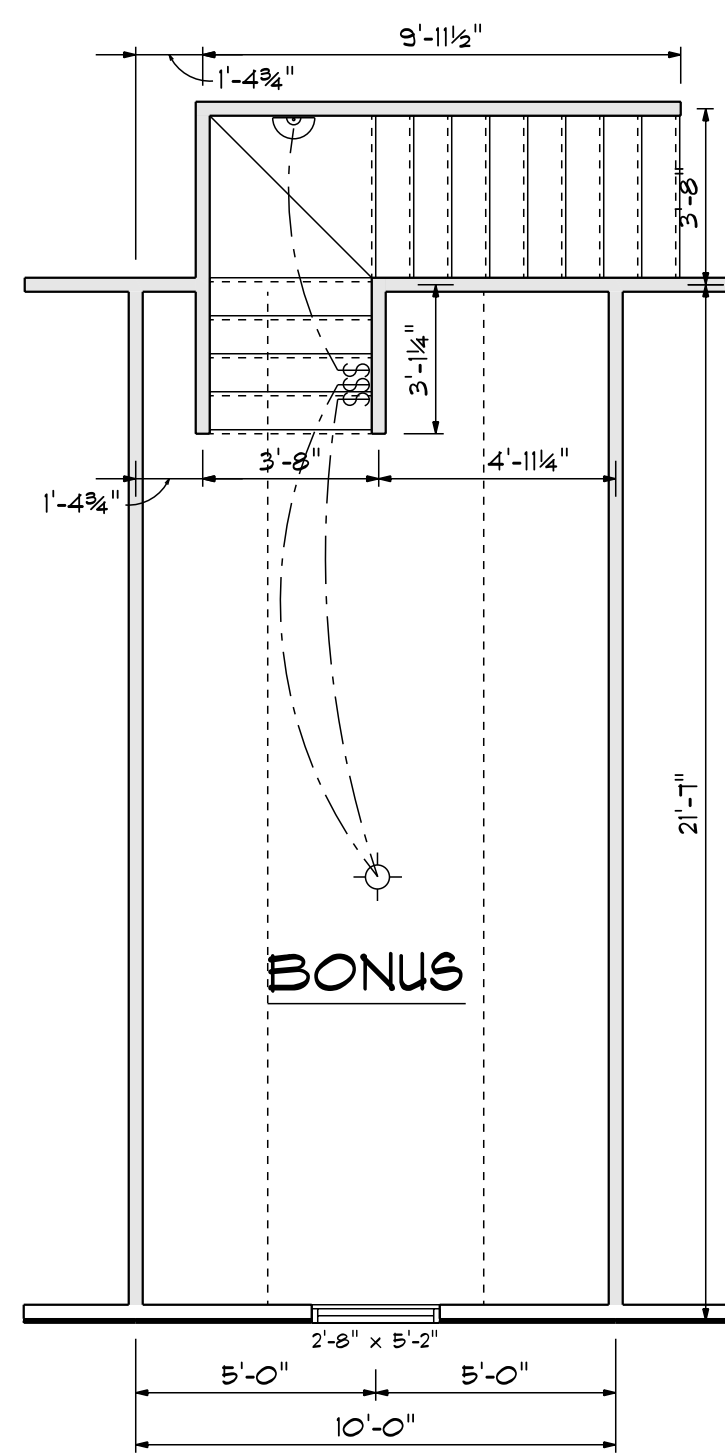
SCALE: 1/4"  
DRAWN BY  
APPROVED

Plan #11

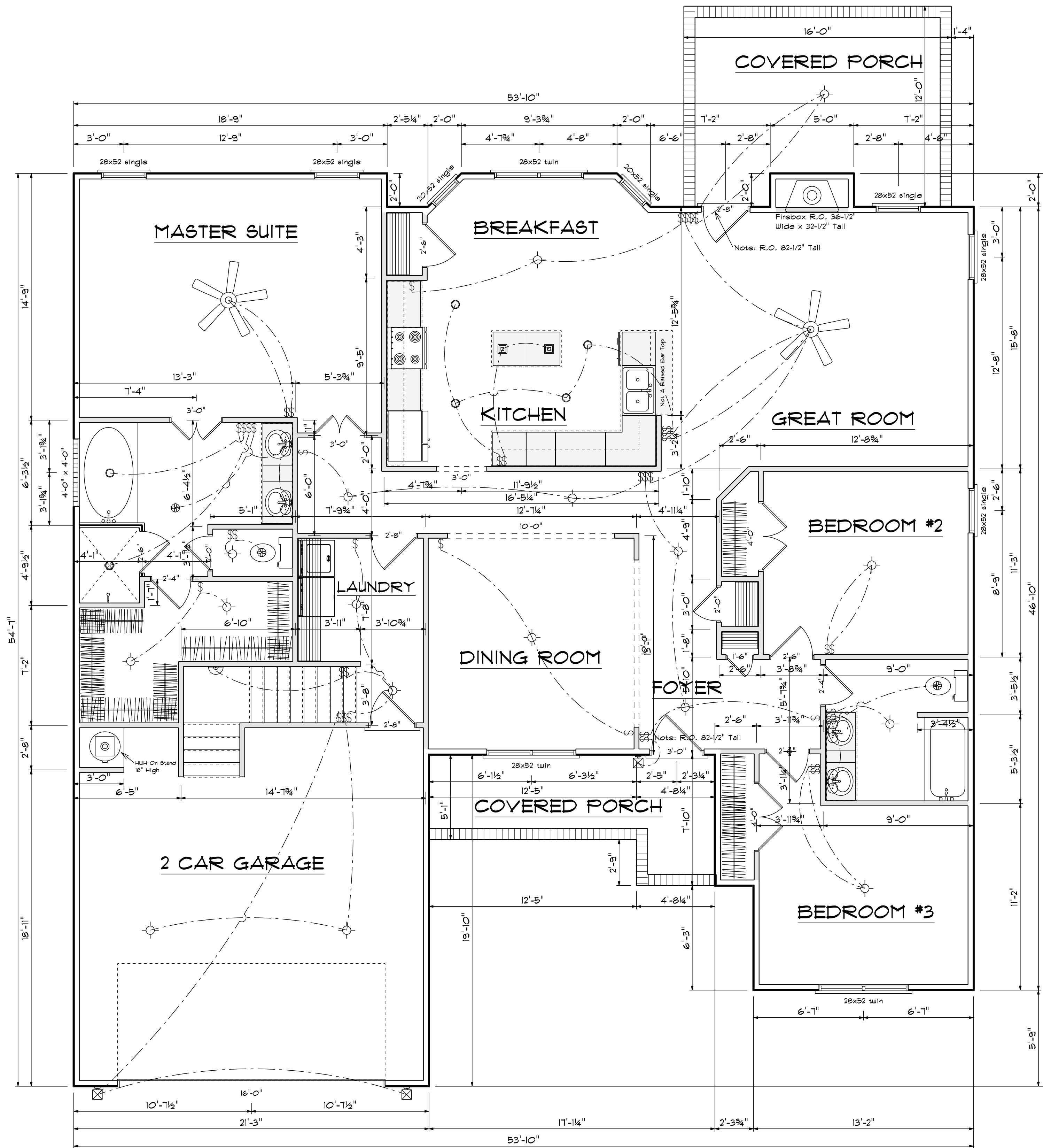


### Areas

Main Floor	2001
Bonus Room	208
=====	
Total Heated	2209
Garage	451
Front Porch	99
Rear Porch	132



**Bonus Room Plan**  
Scale: 1/4" = 1'-0"

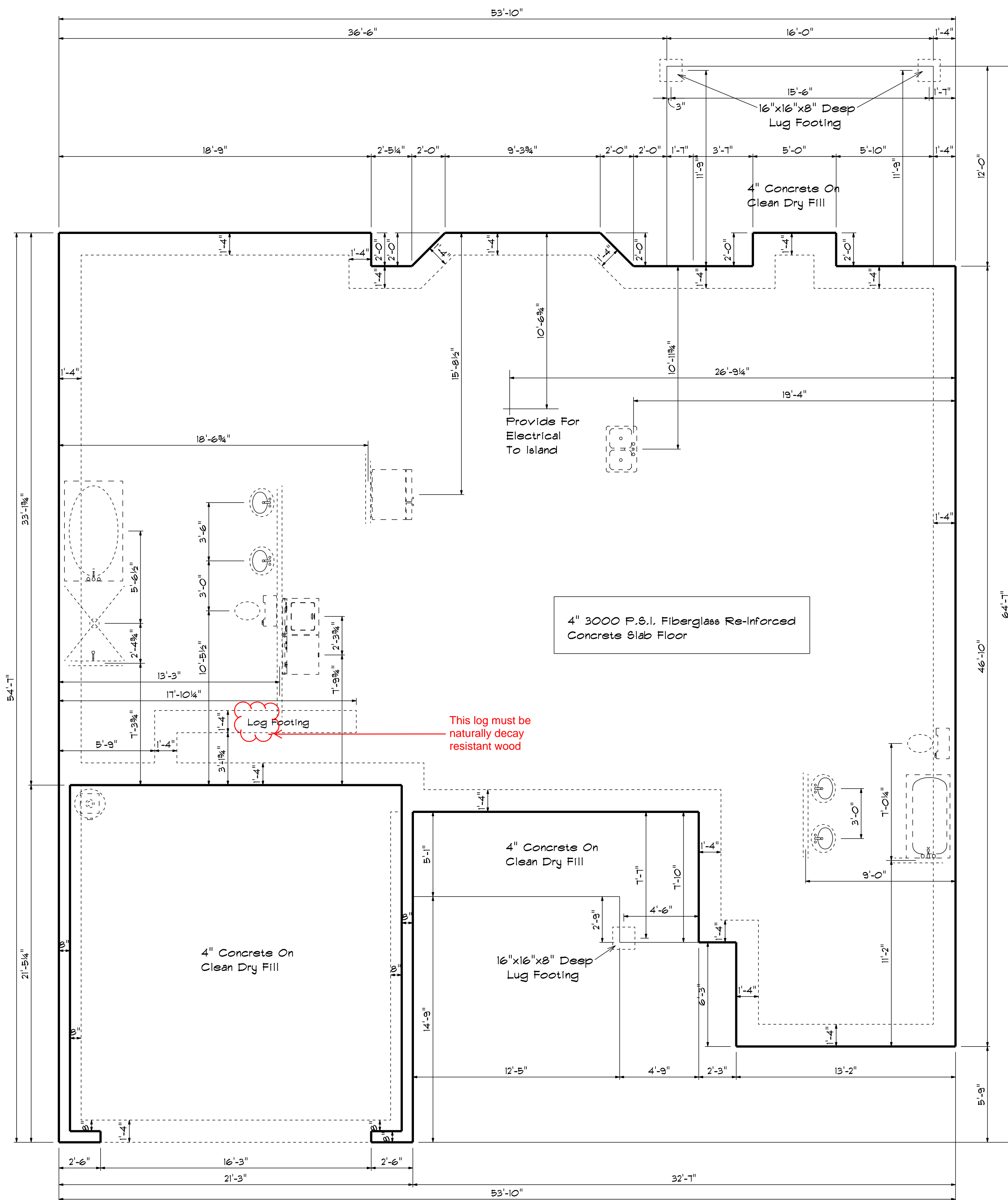


**Main Floor Plan**  
Scale: 1/4" = 1'-0"

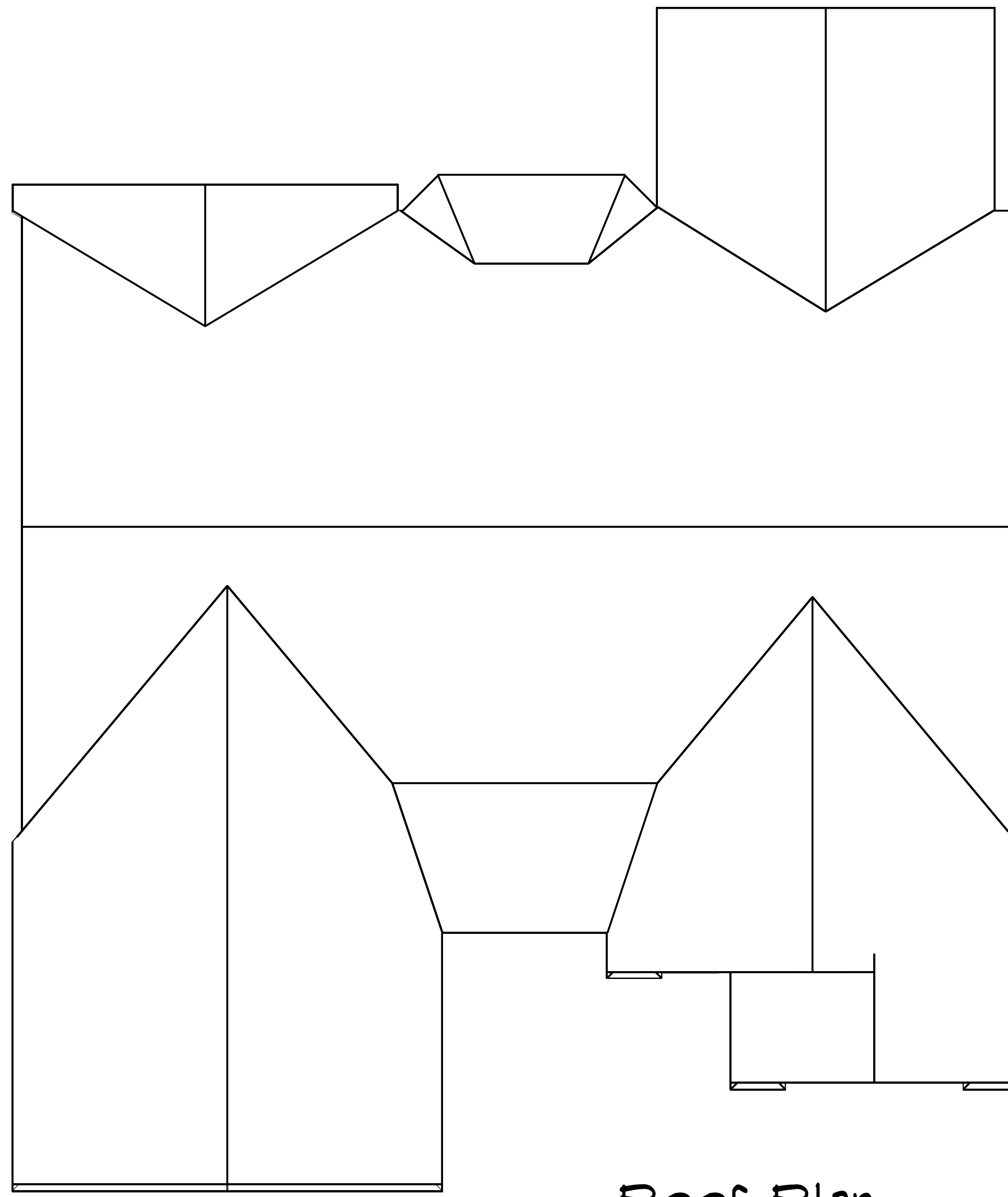
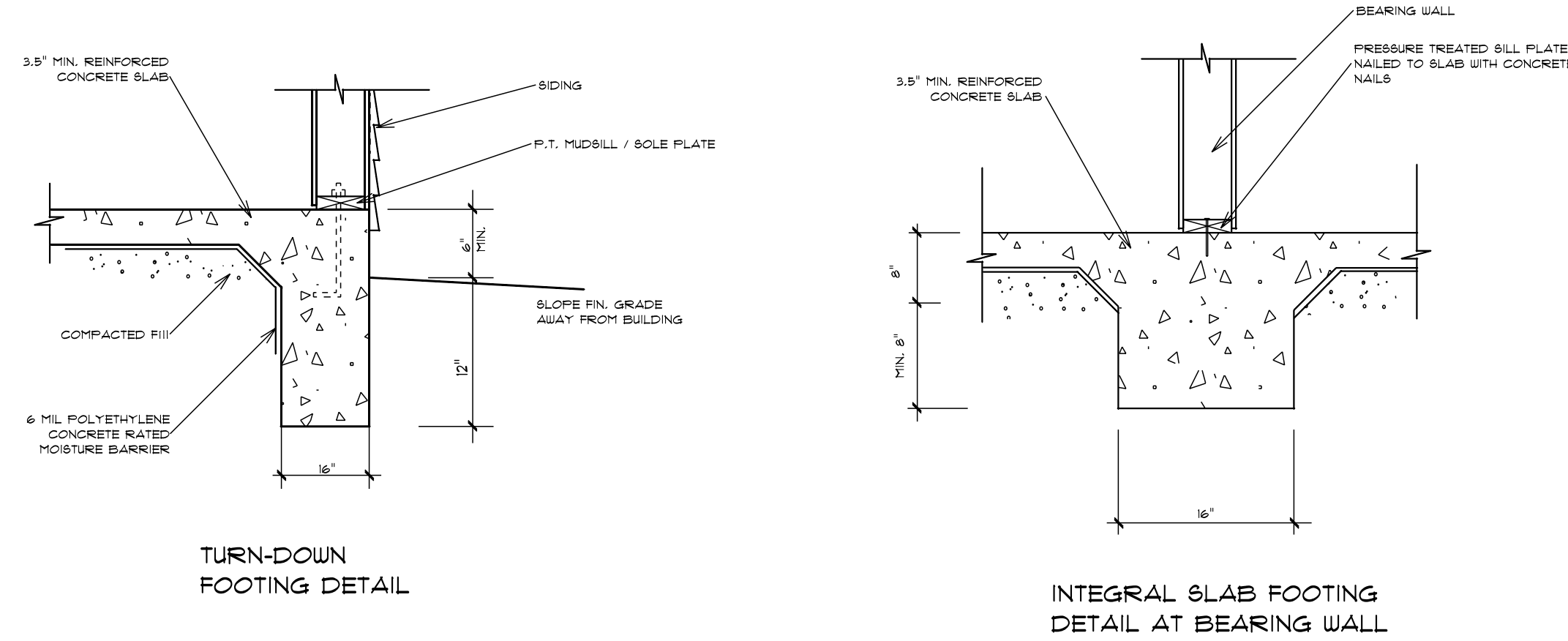
DATE: 12/14/2022  
REVISED  
DRAWING#

SCALE: 1/4"  
DRAWN BY  
APPROVED

**Plan #11**



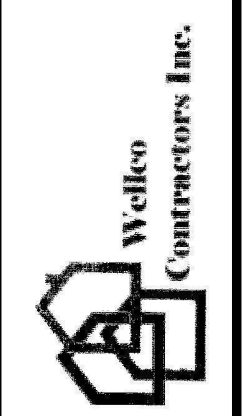
**Foundation Plan**  
Scale: 1/4" = 1'-0"

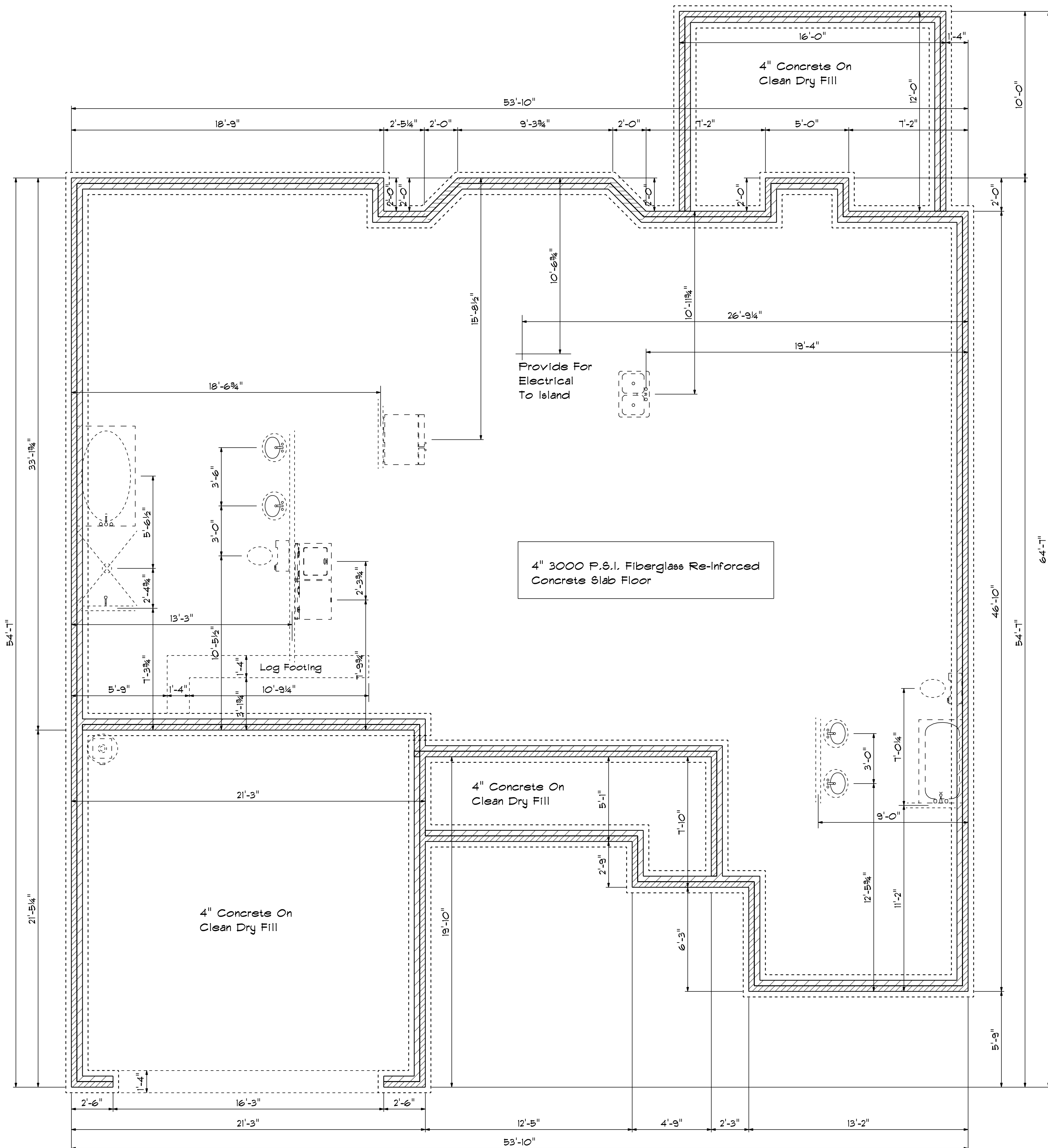


**Roof Plan**

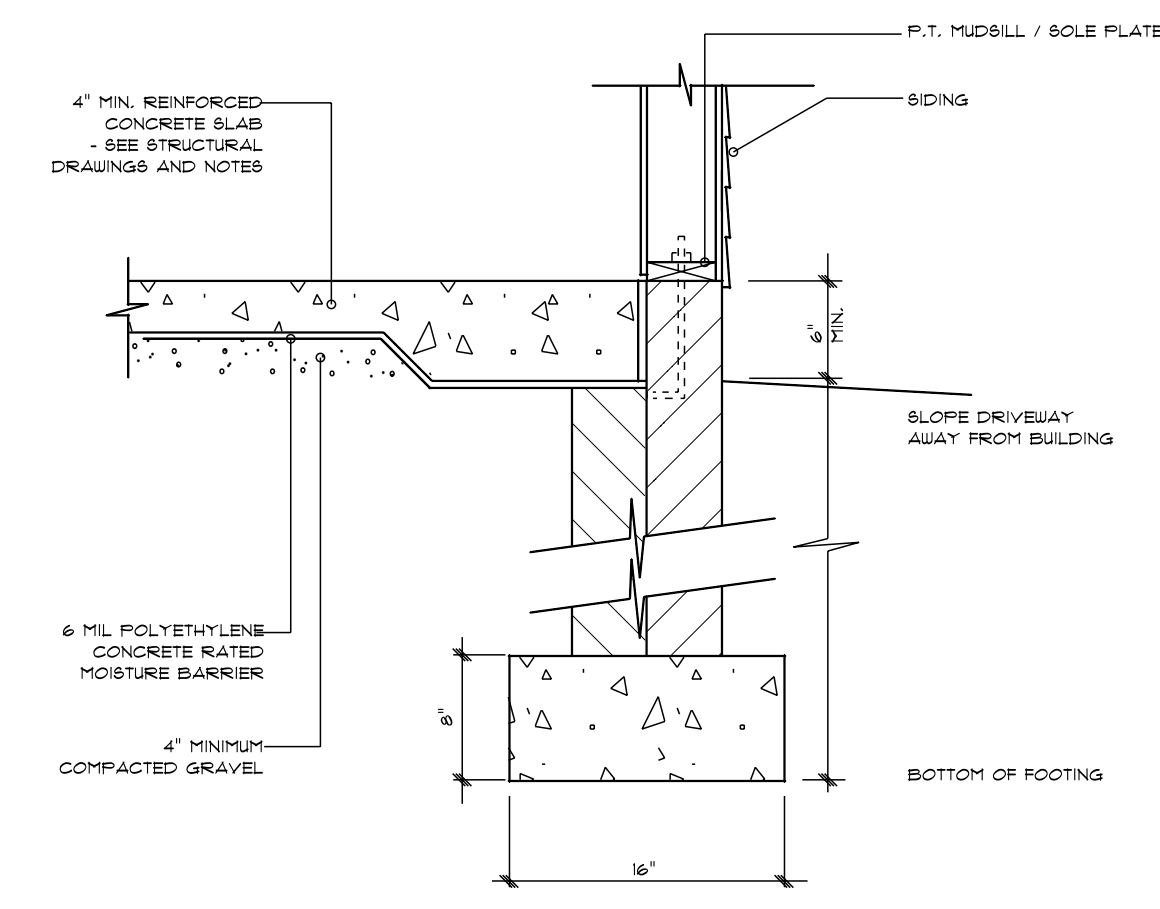
DATE: 12/14/2022
REVISED
DRAWING*
SCALE: 1/4"
DRAWN BY
APPROVED

**Plan #11**

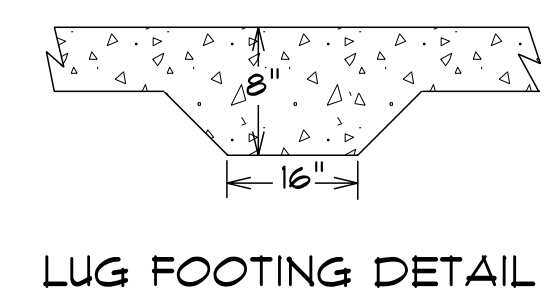




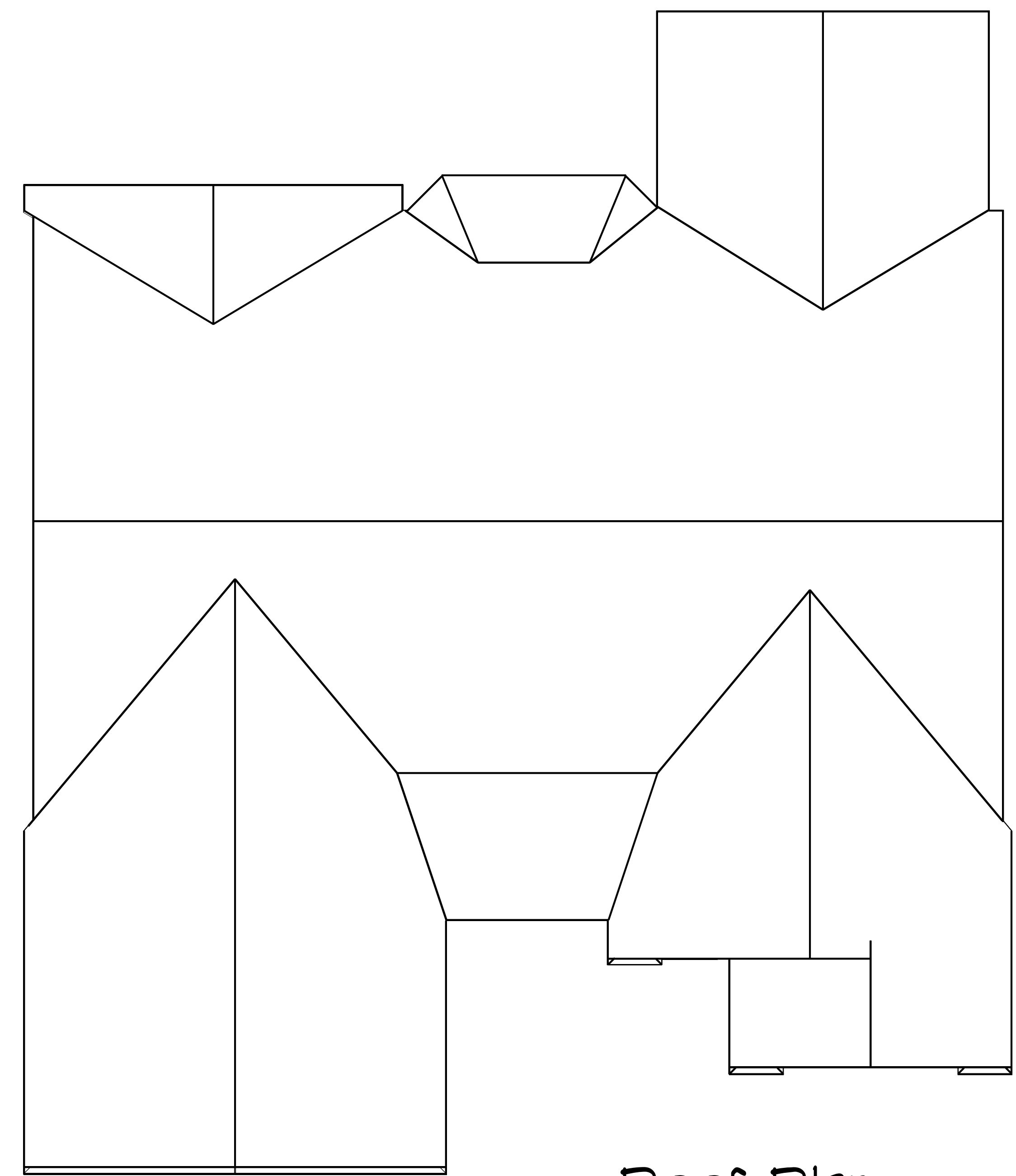
**Foundation Plan**  
Scale: 1/4" = 1'-0"



**STEM WALL FOOTING DETAIL**



**LUG FOOTING DETAIL**

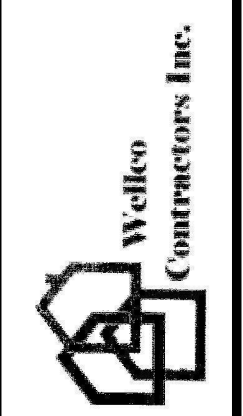


**Roof Plan**

DATE: 12/14/2022
REVISED
DRAWING*

SCALE: 1/4"
DRAWN BY
APPROVED

**Plan #11**



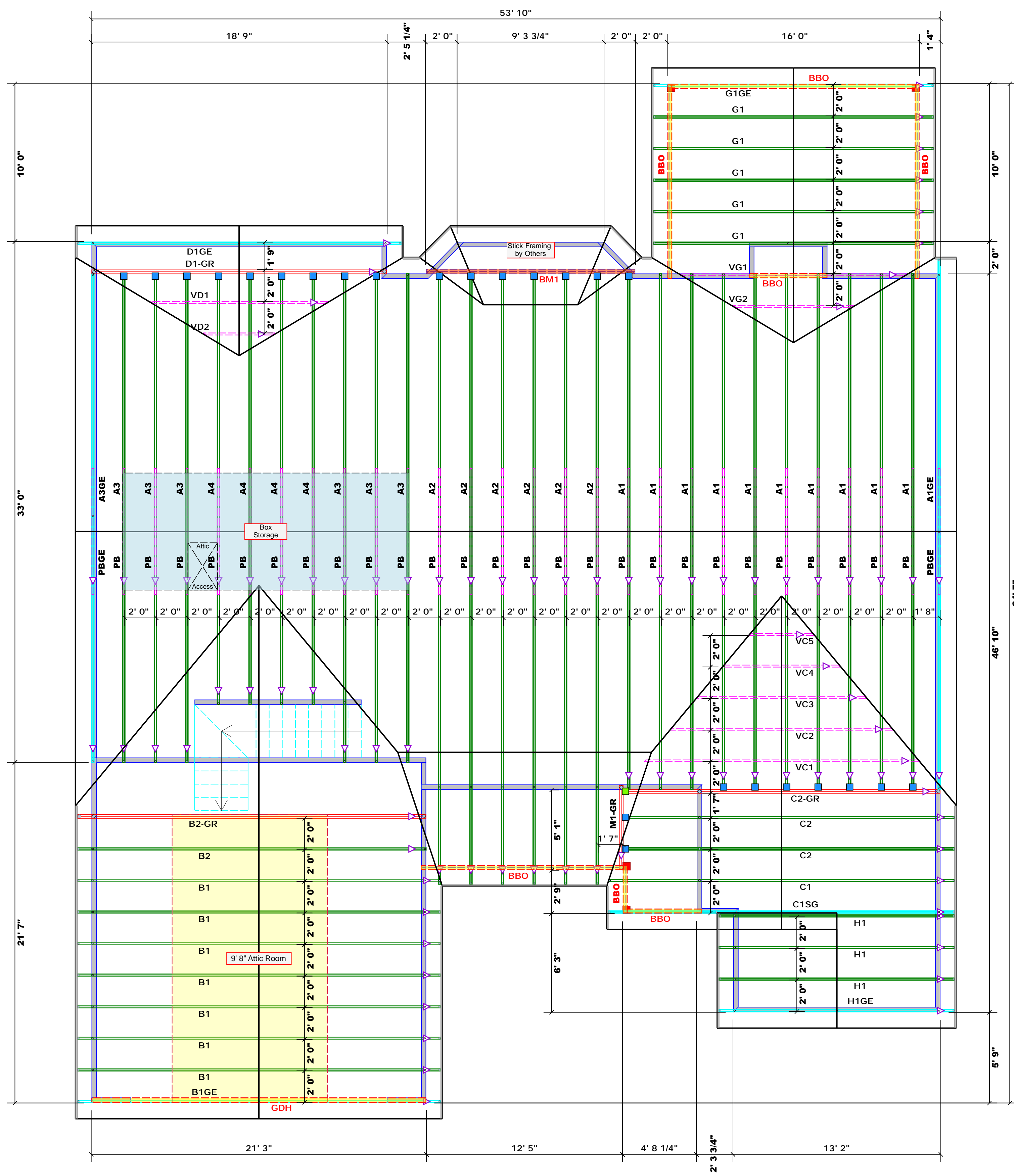


**ROOF & FLOOR TRUSSES & BEAMS**  
 Reilly Road Industrial Park  
 Fayetteville, N.C. 28309  
 Phone: (910) 864-8787  
 Fax: (910) 864-4444

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the discretion 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 beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult ICCES E-1 and E-2 or ICCES E-3 provided with the truss delivery package or visit [www.comtech.com](http://www.comtech.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

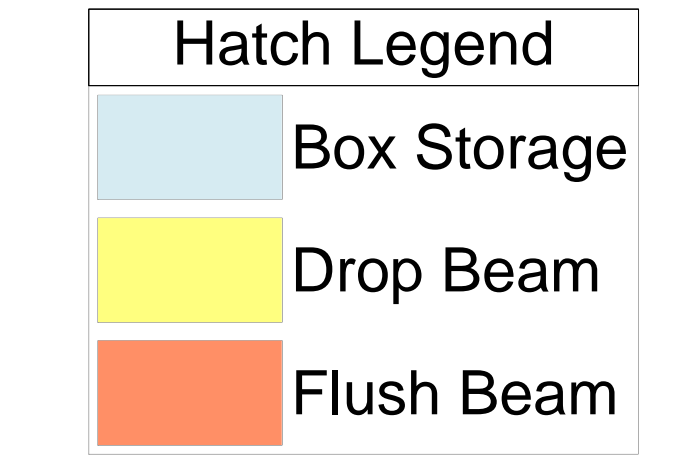


All Walls Shown Are Considered Load Bearing

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



Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
■	HUS26	USP	25	NA	16d/3-1/2"	16d/3-1/2"
■	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'

CITY / CO.	Clayton / Johnston
ADDRESS	Sugarberry Place
MODEL	Roof
DATE REV.	11/30/22
DRAWN BY	Jonathan Landry
SALES REP.	Lenny Norris

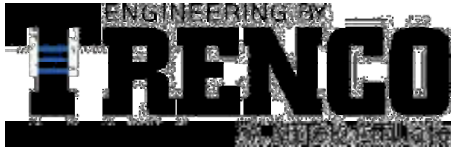
BUILDER	Wellco Contractors
JOB NAME	Lot 148 Hidden Lakes
PLAN	Plan 11 / 2GLF, CP
SEAL DATE	N/A
QUOTE #	
JOB #	J1122-5849

**LOAD CHART FOR JACK STUDS**

BASED ON TABLES 10.18.1 & 10.18.2

ELEVATION	NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS	
	17000 LB	24000 LB
1700	1	1
3400	2	2
5100	3	3
6800	4	4
8500	5	5
10200	6	6
11900	7	7
13600	8	8
15300	9	9

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



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

Job J1122-5849	Truss A1	Truss Type PIGGYBACK BASE	Qty 10	Ply 1	Lot 148 Hidden Lakes	154232521
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:10 2022 Page 1  
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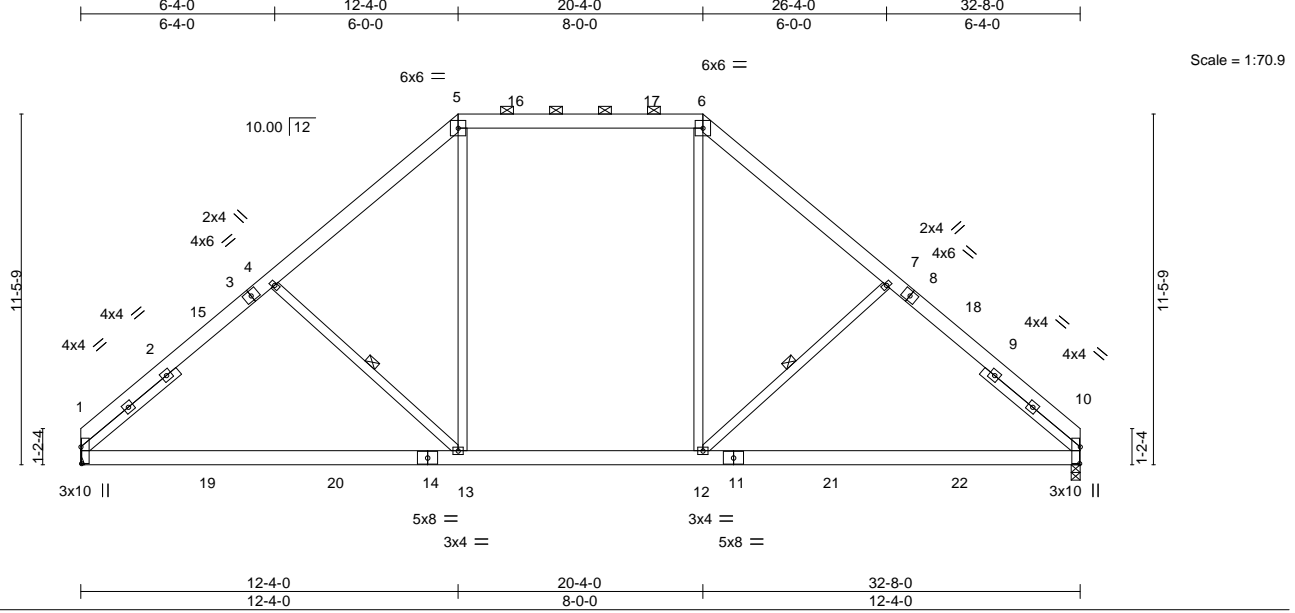


Plate Offsets (X,Y)-- [1:0-6-9,0-0-4], [10:0-6-9,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.32	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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 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
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=186, 10=186.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 15, 2022

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

**TRENCO**  
 818 Soundside Road  
 Edenton, NC 27932

Job J1122-5849	Truss A1GE	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232522
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:12 2022 Page 1  
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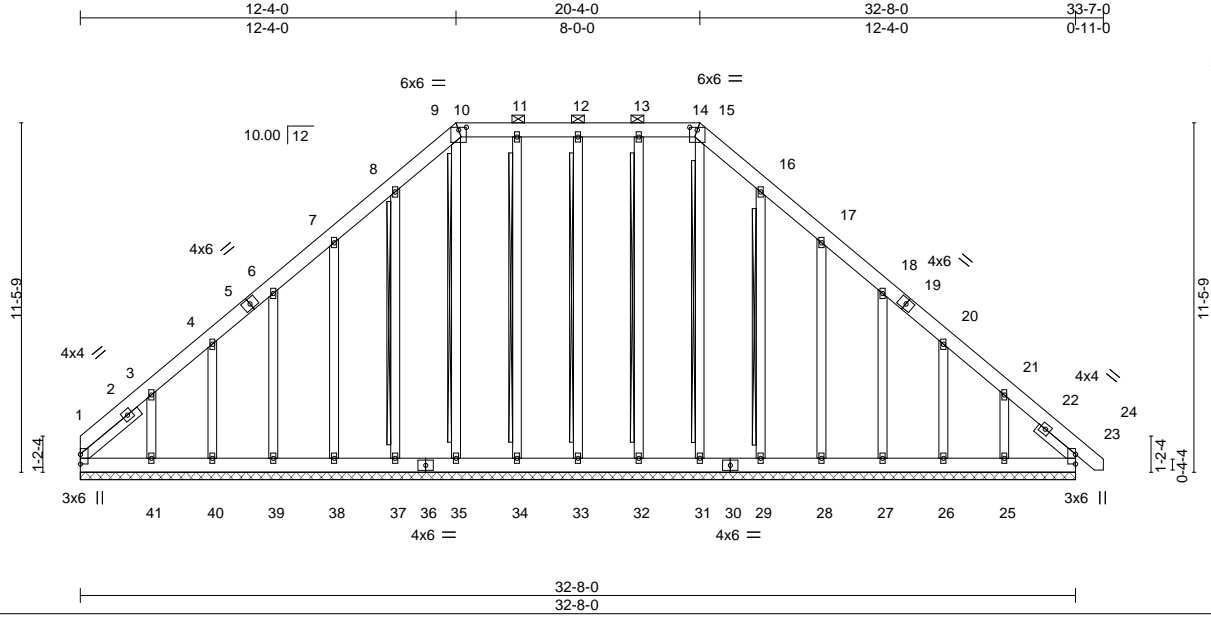


Plate Offsets (X,Y)-- [10:0-3-0,0-1-1], [14:0-3-0,0-1-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	0.00	23	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00	23	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01	23	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						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; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 3) 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  
 Continues on the bottom chord and any other members.



September 15, 2022

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

**TRENCO**  
 818 Soundside Road  
 Edenton, NC 27932



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

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:13 2022 Page 2

ID:pR11C9Efk0ZVsLDXhFWTRyeOMT-ivnlovEC1KywSmLR41PTSqIUsOXTw7zmMkxWpBydMUy

**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.

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

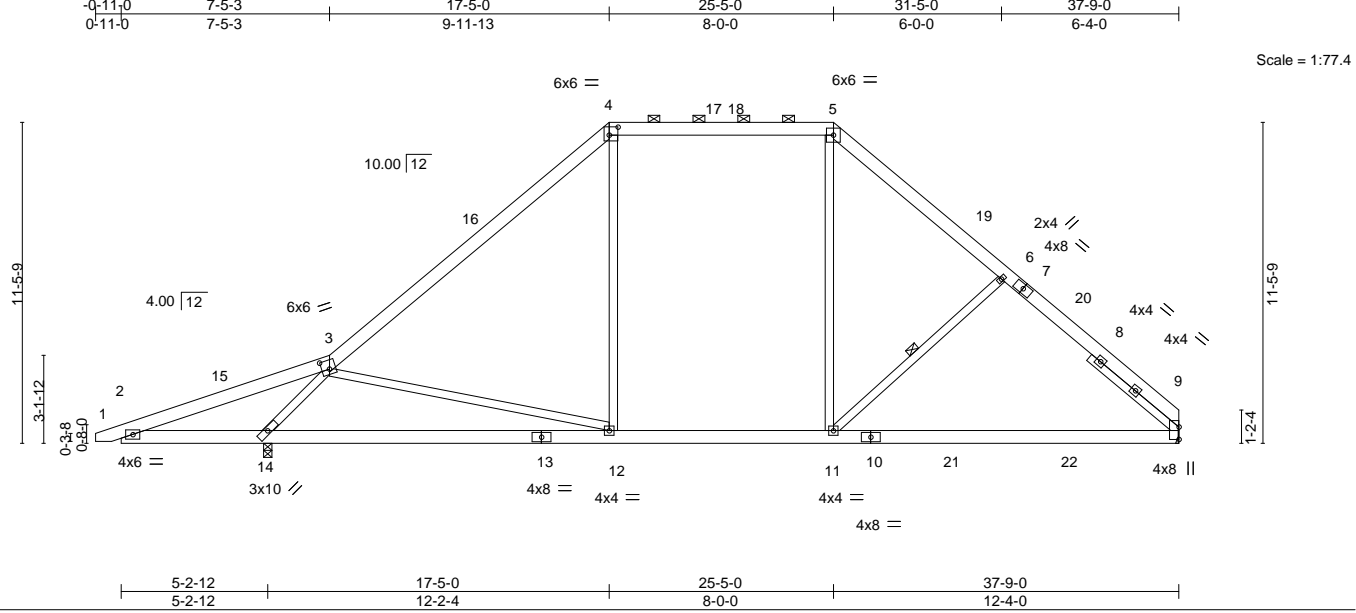
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road  
Edenton, NC 27932

Job J1122-5849	Truss A2	Truss Type PIGGYBACK BASE	Qty 6	Ply 1	Lot 148 Hidden Lakes	154232523
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Comtech, Inc, Fayetteville, NC - 28314, 8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:14 2022 Page 1  
 ID:pR11C9Efk0ZVsLDXhFWTRyeOMT-AiLg?FFrod5n3wwdelwi?1qVLCi0fS2wbOg3MdyMUx



Scale = 1:77.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	2-0-0	TC 0.72	Vert(LL)	-0.47	9-11	>845	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(CT)	-0.66	9-11	>598	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Horz(CT)	0.03	9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.43	9-11	>920	240		
	Code IRC2015/TPI2014							Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-9 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
SLIDER Right 2x4 SP No.2 4-1-10	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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 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
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=185, 14=308.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 15, 2022

Job J1122-5849	Truss A3	Truss Type PIGGYBACK BASE	Qty 6	Ply 1	Lot 148 Hidden Lakes	154232524
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:15 2022 Page 1  
 ID:pR1H1C9Effk0ZVsLDXhFWTRyeOMT-euv2DbGTzXDeh4VpCSSxYFNhc2sOyf3q2Qcu3ydMUW

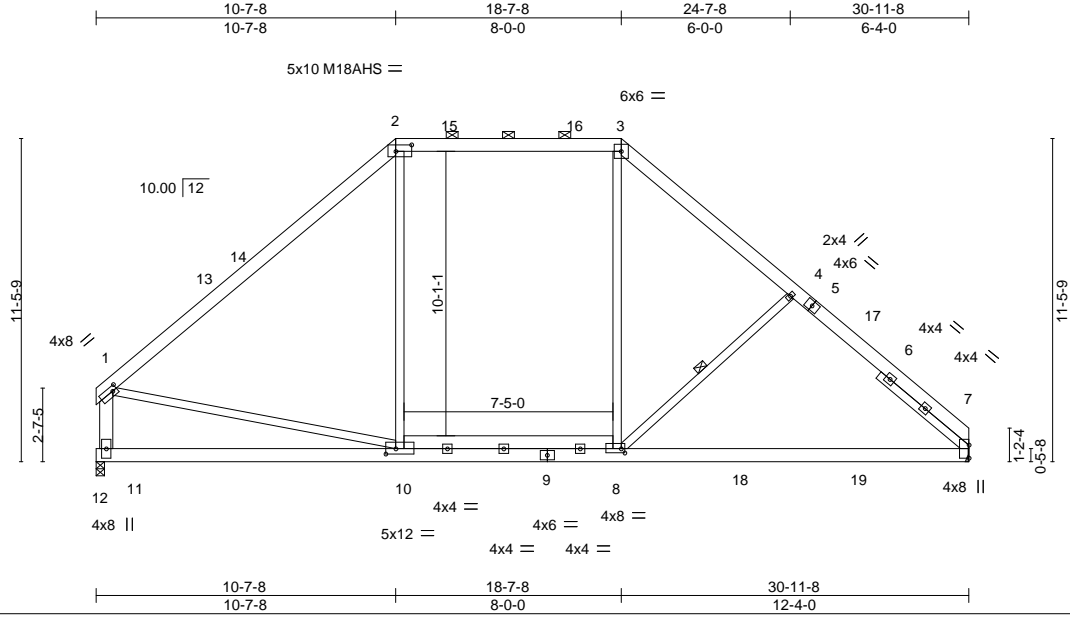


Plate Offsets (X,Y)--	[1:0-2-0,0-2-0], [2:0-6-12,0-2-12], [8:0-1-8,0-1-12], [10:0-4-4,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL)	-0.51	7-8	>727	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT)	-0.73	7-8	>504	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.37	7-8	>991		
							Weight: 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.2 *Except* 1-11: 2x6 SP No.1	WEBS 1 Row at midpt 4-8
SLIDER Right 2x4 SP No.2 4-1-10	

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



September 15, 2022

Job J1122-5849	Truss A3GE	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232525
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:16 2022 Page 1  
 ID:pRH1C9Effk0ZVsLDXhFWTRyeOMT-64TQXxH5KFLVJE40mAzA4Sv?5?ZB7UId2i9AQWydMUv

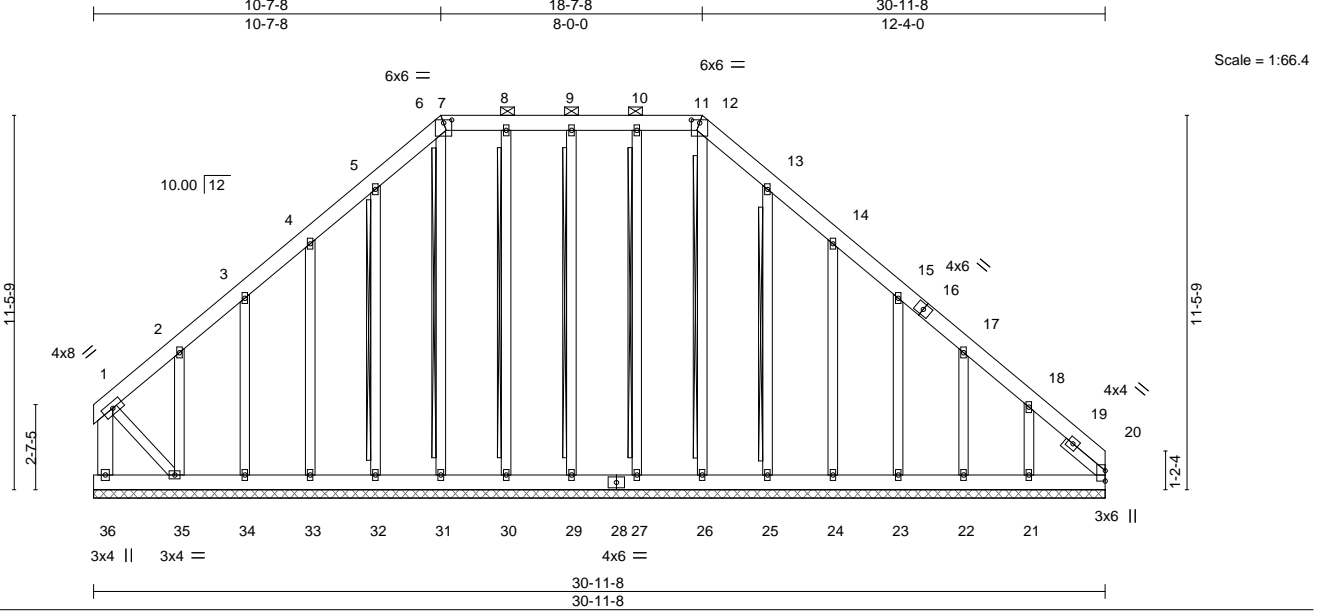


Plate Offsets (X,Y)-- [7:0-3-0,0-1-1], [11:0-3-0,0-1-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 331 lb	FT = 20%
	Code IRC2015/TPI2014							

**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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- Continued on next page bottom chord and any other members.



September 15, 2022

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

**TRENCO**  
 818 Soundside Road  
 Edenton, NC 27932

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

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:17 2022 Page 2  
 ID:pR11C9Effk0ZVsLDXhFWTRyeOMT-aH1odHHj5YTMwNeCJtUPdgSArPuQsxyMHMvjyydMUu

**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.

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

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818 Soundside Road  
 Edenton, NC 27932

Job J1122-5849	Truss A4	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	Lot 148 Hidden Lakes	154232526
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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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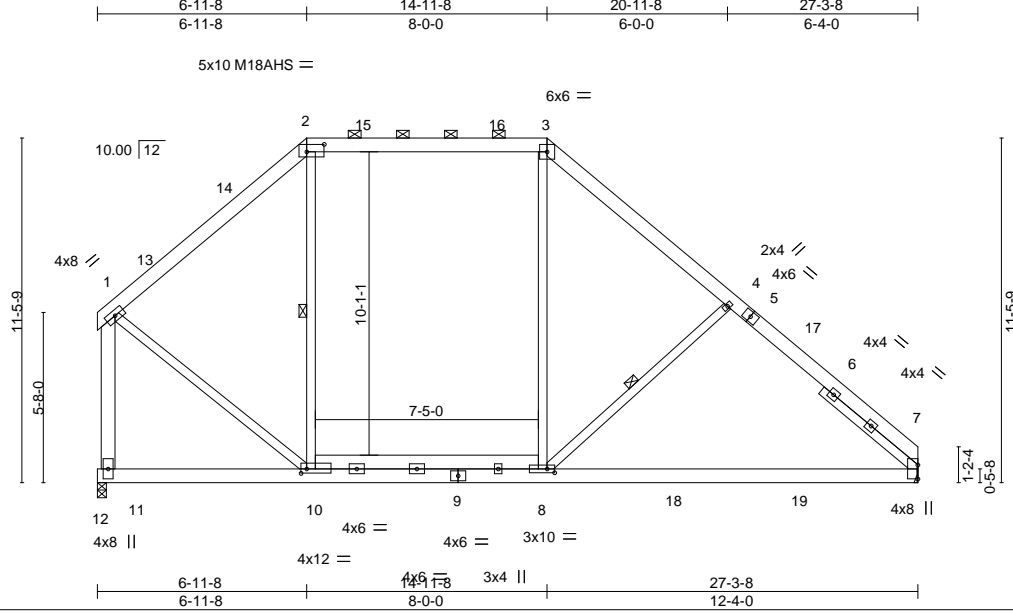


Plate Offsets (X,Y)-- [2:0-7-0,0-3-0], [8:0-3-0,0-1-8], [10:0-2-4,0-1-12]

LOADING (psf)	SPACING-	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	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT)	-0.89	7-8	>362	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.38	7-8	>847		
							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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 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
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=138, 7=147.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 15, 2022

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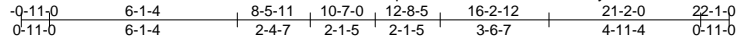
**TRENCO**  
 818 Soundside Road  
 Edenton, NC 27932

Job J1122-5849	Truss B1	Truss Type ATTIC	Qty 7	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232527
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:19 2022 Page 1

ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-Wf8Z2zJzcAj3AhobRIWti5XJvDRFKtpffIOq1qydMUu



5x8 =

Scale = 1:70.5

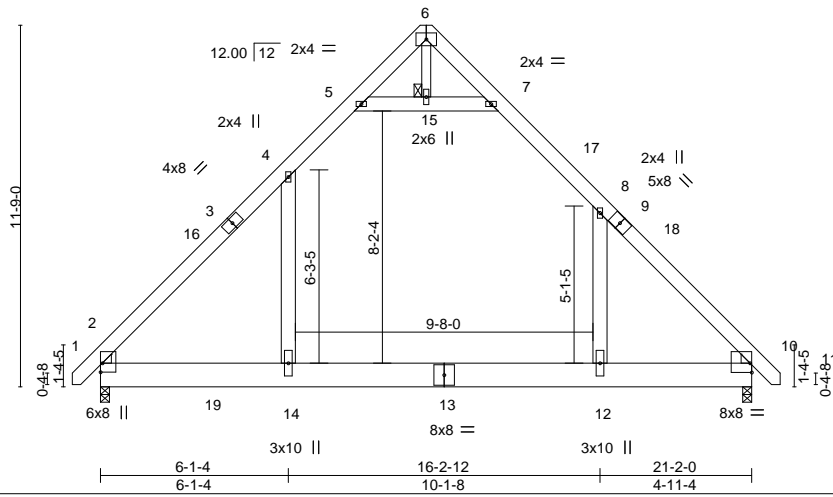


Plate Offsets (X,Y)-- [2:Edge,0-0-11], [10:Edge,0-3-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.93	Vert(LL)	-0.19	12-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	-0.32	12-14	>773		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.11	12-14	>999		
	Code IRC2015/TPI2014						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

**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

**WEDGE**  
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

**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; TCCL=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

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

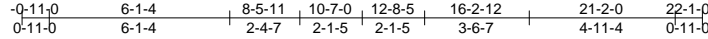
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes	154232528
J1122-5849	B1GE	GABLE	1	1		

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:20 2022 Page 1

ID:pR1C9Efk0ZVsLDXhFWTRyeOMT\_sixGIKbNTrworNn??16F14WXdoJ3HnozJ7NZHydMUr



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Scale = 1:73.3

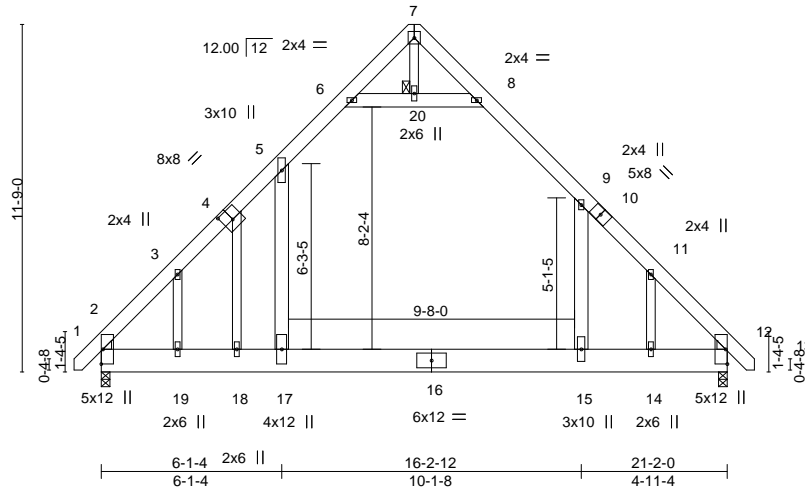


Plate Offsets (X,Y)-- [4:0-4-0,0-4-8]

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
- 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.
- Attic room checked for L/360 deflection.



September 15,2022

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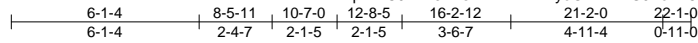


Job J1122-5849	Truss B2	Truss Type ATTIC	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232529
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:21 2022 Page 1

ID:pRI1C9Efk0ZVslDXhFWTRyeOMT-T2GJTtLE8znP?yzYjYLnWdfK07donMyCztx5jydMUq



5x8 =

Scale = 1:70.5

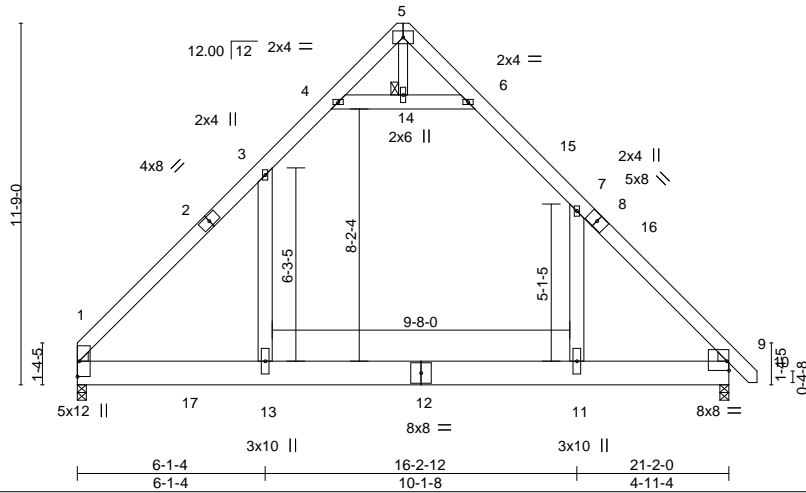


Plate Offsets (X,Y)-- [9:Edge,0-3-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.93	Vert(LL)	-0.19 11-13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	-0.33 11-13	>765	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.01 9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.11 11-13	>999	240		
	Code IRC2015/TPI2014						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

**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

**WEDGE**

Left: 2x4 SP No.2 , Right: 2x4 SP No.2

**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-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s). 3-13, 7-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



September 15, 2022

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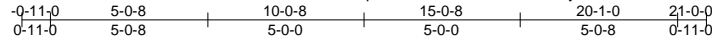


Job J1122-5849	Truss C1	Truss Type COMMON	Qty 1	Ply 1	Lot 148 Hidden Lakes	154232531
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Comtech, Inc, Fayetteville, NC - 28314,

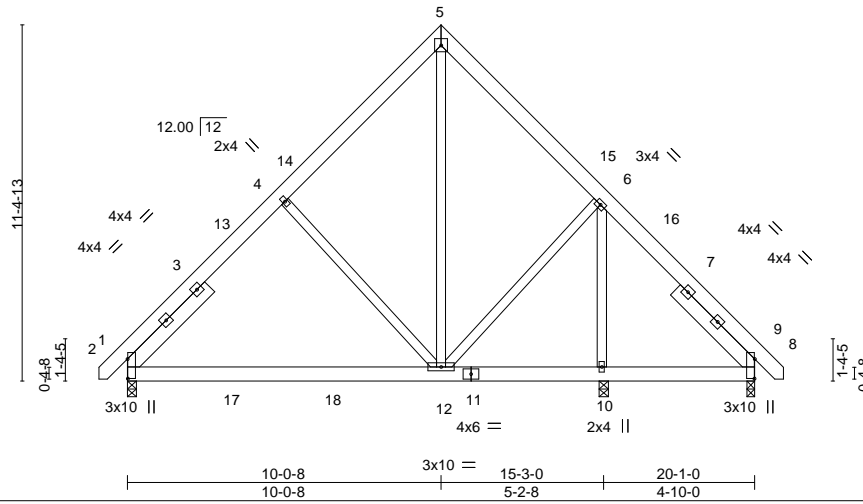
8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:23 2022 Page 1

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5x5 =

Scale = 1:69.4



Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes	154232532
J1122-5849	C1SG	GABLE	1	1		

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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 0-11-0 5-0-8 10-0-8 15-0-8 20-1-0 21-0-0  
 0-11-0 5-0-8 5-0-0 5-0-0 5-0-8 0-11-0  
 5x5 = Scale = 1:69.4

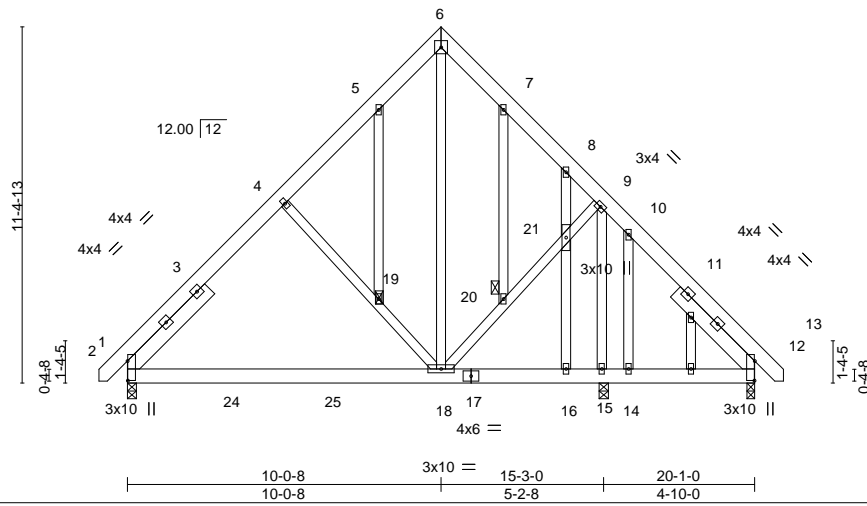


Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [12:0-7-9,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
  - 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

Job J1122-5849	Truss C2	Truss Type COMMON	Qty 2	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232533
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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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5x5 =

Scale = 1:69.4

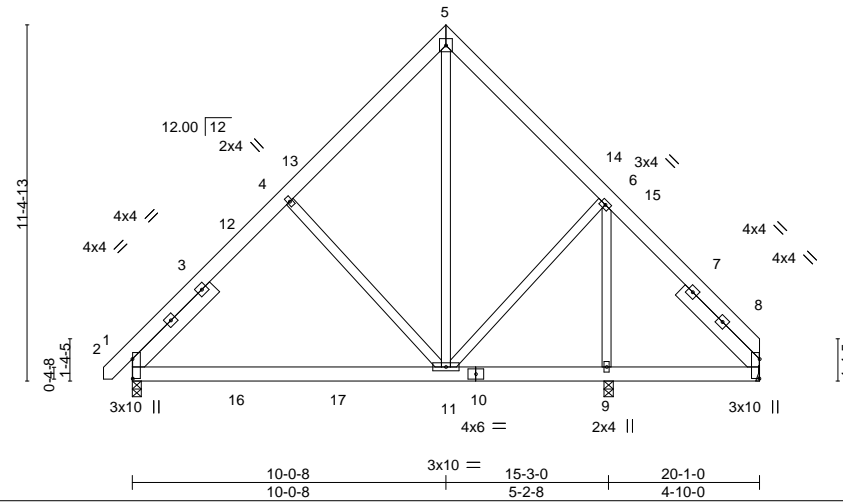


Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [8:0-7-9,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.10	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-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=106, 9=101.



September 15, 2022

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818 Soundside Road  
 Edenton, NC 27932



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

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:27 2022 Page 2  
 ID:pRH1C9Efk0ZVsLDXhFWTRyeOMT-HCdakiP\_kdjx7wP7vzf1ntqNRAUCNYqavKFJNydMUK

**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)

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

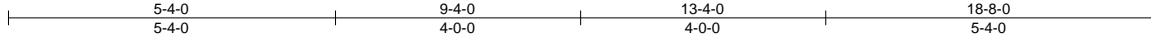
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Job J1122-5849	Truss D1-GR	Truss Type Common Girder	Qty 1	Ply 2	Lot 148 Hidden Lakes	154232535
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:29 2022 Page 1  
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5x5 ||

Scale = 1:35.4

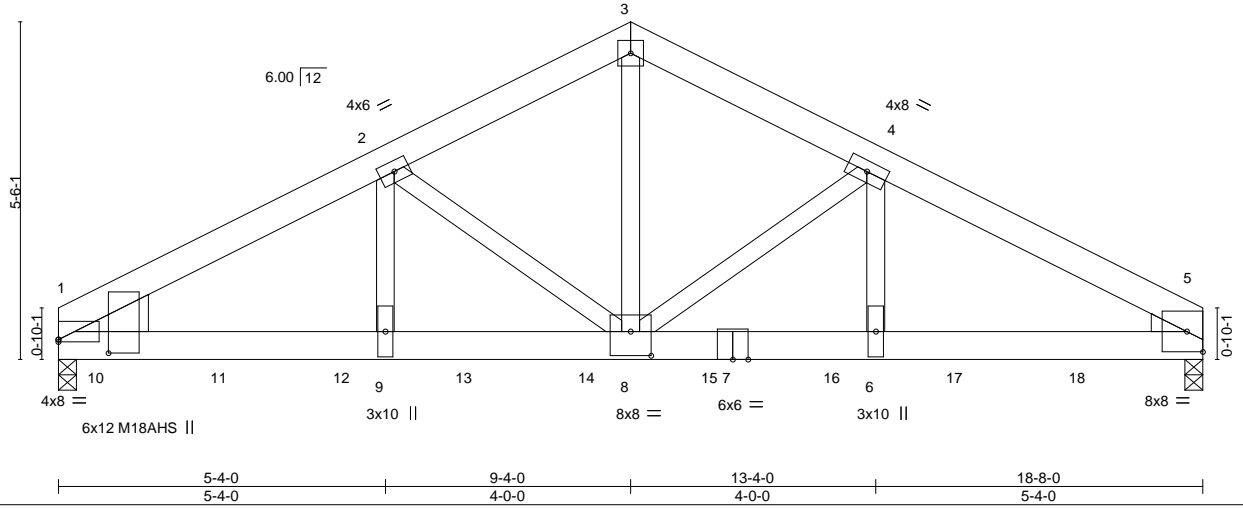


Plate Offsets (X,Y)-- [1:0-2-11,0-9-13], [1:0-0-0,0-0-7], [8:0-4-0,0-4-12]

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

- 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.
- 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

Continued on page 2



September 15, 2022

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





Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes	I54232535
J1122-5849	D1-GR	Common Girder	1	<b>2</b>	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 2  
 ID:pR11C9Efk0ZVsLDXhFWTRyeOMT-EalL9NRFGZfNDZW00iD6Cy?YFpggFB72DpMNFydMUi

**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)

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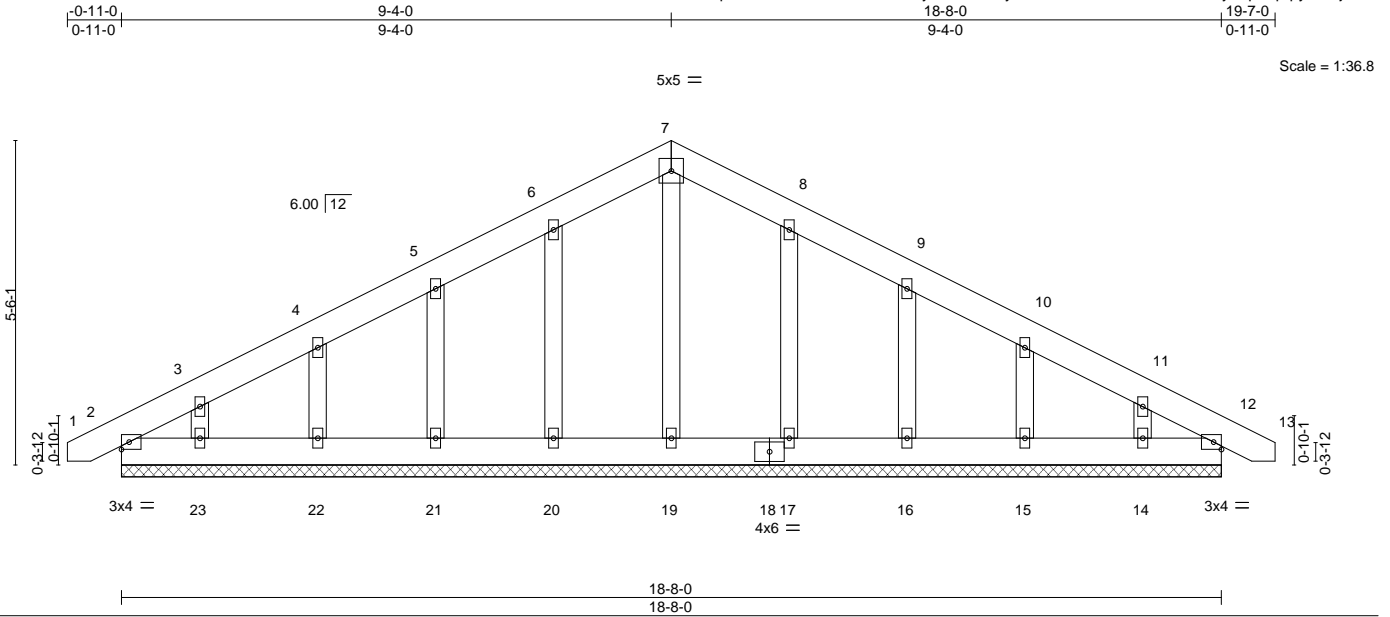


818 Soundside Road  
 Edenton, NC 27932

Job J1122-5849	Truss D1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232536
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:28 2022 Page 1  
ID:pR11C9Efk0ZVsLDXhFWTRyeOMT-IOByx2QdVxrol4\_JThA\_Z\_P3drfdxyF\_pz3prpydMUj



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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 12 except (jt=lb) 20=101, 21=112, 22=111, 23=131, 16=114, 15=110, 14=120.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



September 15, 2022

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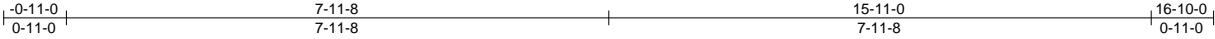
818 Soundside Road  
Edenton, NC 27932

Job J1122-5849	Truss G1	Truss Type COMMON	Qty 5	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232537
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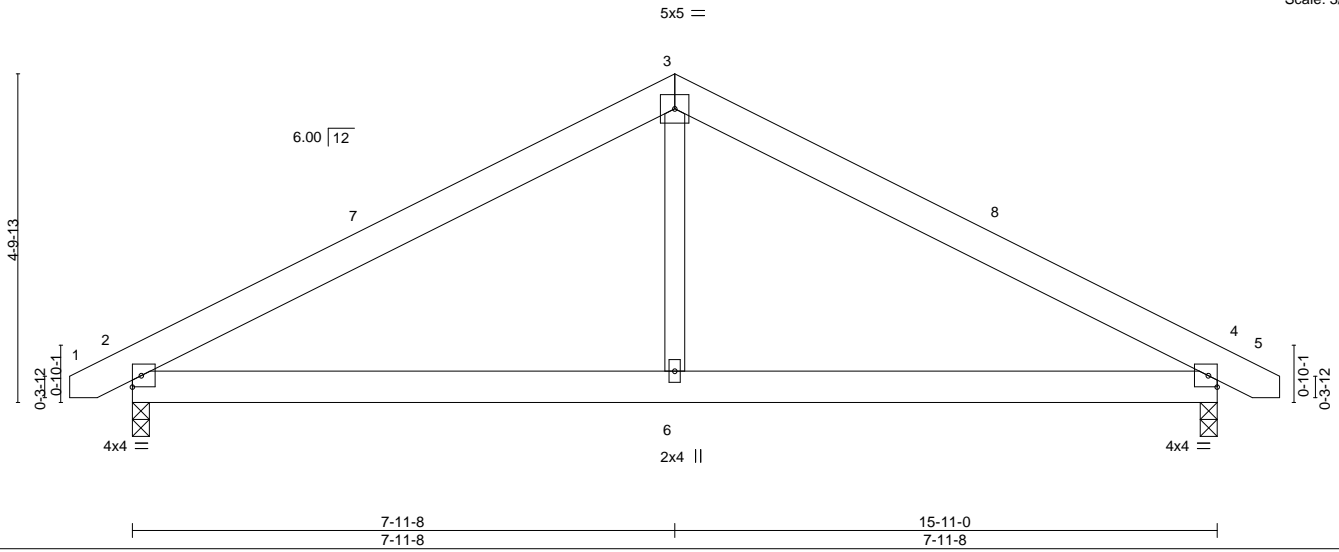
Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:30 2022 Page 1

ID:pR11C9Efk0ZVsLDXhFWTRyeOMT-inJjMjSt1Y6W\_N8ia6DSePVL5fF8Pr5GGYvwyidMUh



Scale: 3/8"=1'



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	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-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=130, 4=130.



September 15, 2022

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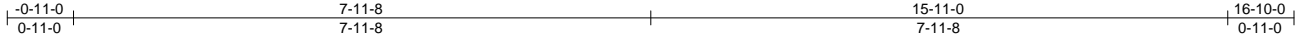
818 Soundside Road  
Edenton, NC 27932

Job J1122-5849	Truss G1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232538
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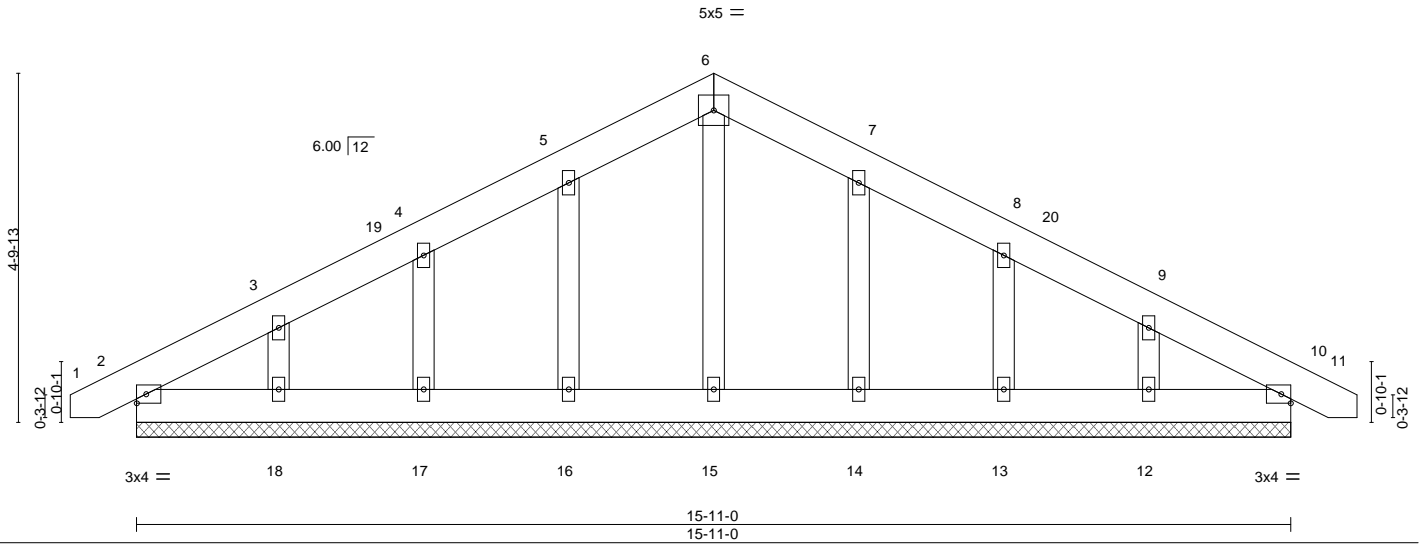
Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:31 2022 Page 1

ID:pR1C9Efk0ZVsLDXhFWTRyeOMT-Azt5Z3SVosENcXju8pkhBd1al2gG8JwQVXITS8ydMUg



Scale = 1:29.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 10 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.00 10 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13, 12.



September 15, 2022

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 148 Hidden Lakes	154232539
J1122-5849	H1	COMMON	3	1		

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:32 2022 Page 1

ID:pR11C9Efk0ZVsLDXhFWTRyeOMT-e9RTnPT7Z9MDEhI5iXfWkqah4S\_attZkB10\_aydMUf

0-11-0 6-6-8 13-1-0 14-0-0  
 0-11-0 6-6-8 6-6-8 0-11-0

5x5 =

Scale = 1:47.1

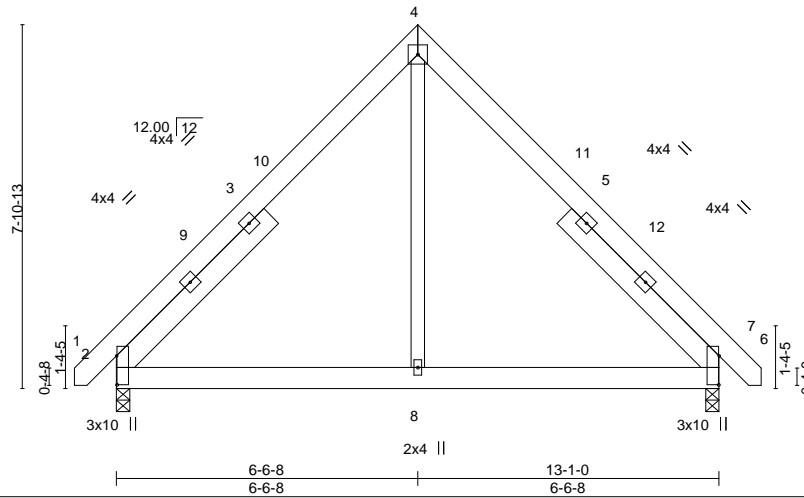


Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [6:0-7-9,0-0-2]

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



September 15, 2022

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818 Soundside Road  
 Edenton, NC 27932

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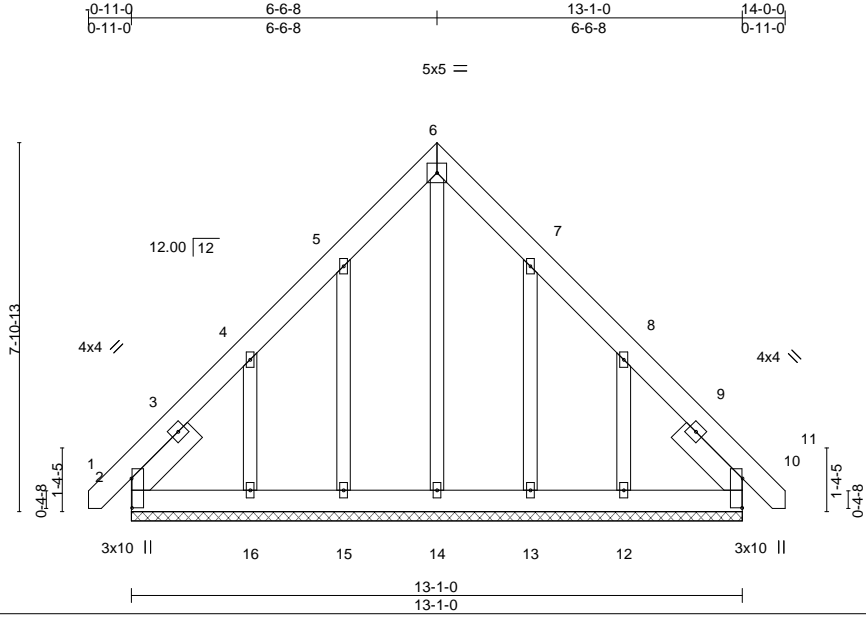


Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [10:0-7-9,0-0-2]

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

**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), 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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=114, 15=137, 16=377, 13=135, 12=368.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.



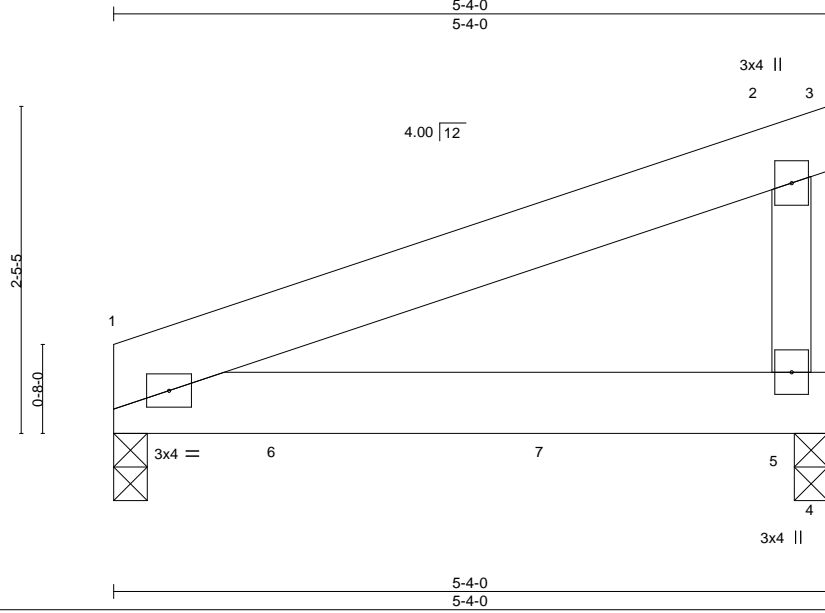
September 15, 2022

Job J1122-5849	Truss M1-GR	Truss Type Monopitch Girder	Qty 1	Ply 2	Lot 148 Hidden Lakes Job Reference (optional)	154232541
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:34 2022 Page 1

ID:pR1C9Efk0ZVsLDXhFWTRyeOMT-aYYEC5VN4ncxT?STpyHOFF4IGfELgPsBVW73TydMUd



Scale = 1:16.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/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	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02	1-5	>999	240	Weight: 56 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

**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-**

- 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=136, 5=316.
- 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

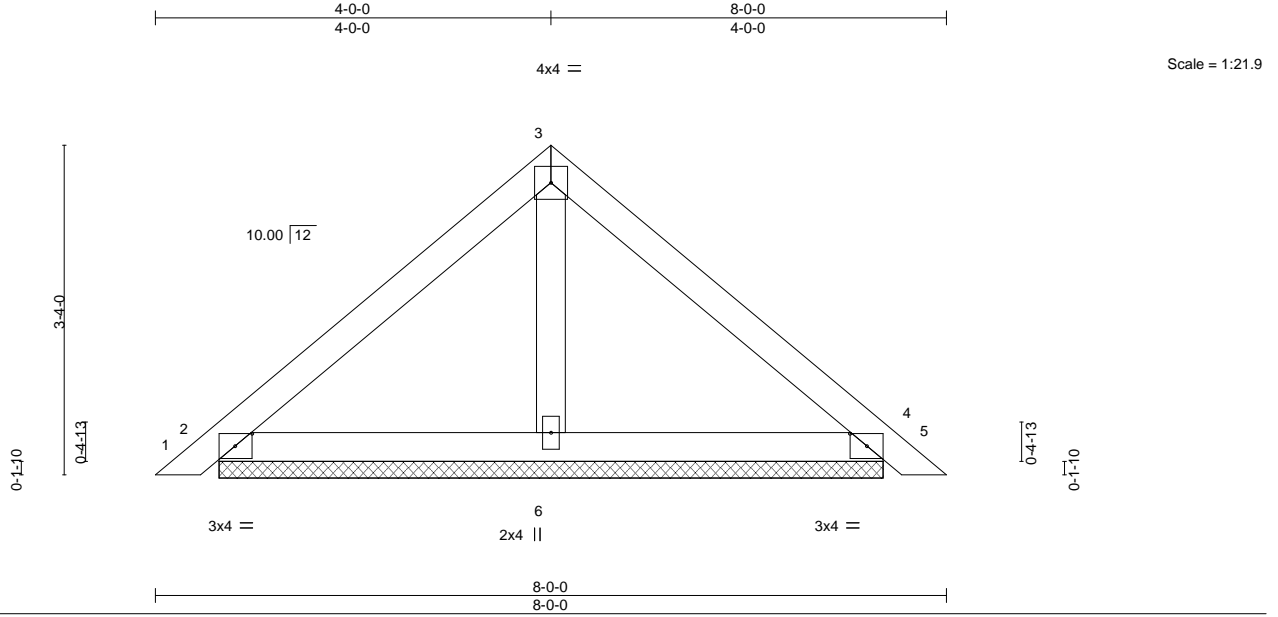
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-20, 1-4=-20
- Concentrated Loads (lb)  
 Vert: 5=-100(B) 6=-326(B) 7=-326(B)



September 15, 2022

Job J1122-5849	Truss PB	Truss Type PIGGYBACK	Qty 26	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232542
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Comtech, Inc, Fayetteville, NC - 28314, 8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:35 2022 Page 1  
ID:pRH1C9Efk0ZVsLDXhFWTRyeOMT-2k6cPRV0r4ko581fNfodLTCD1g194710Q9GgbvydMUc



LOADING (psf)		SPACING-		CSI.		DEFL.				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	Weight: 29 lb FT = 20%		
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									

**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; TC DL=6.0psf; BC DL=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

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



818 Soundside Road  
Edenton, NC 27932



Job J1122-5849	Truss PBGE	Truss Type GABLE	Qty 2	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232543
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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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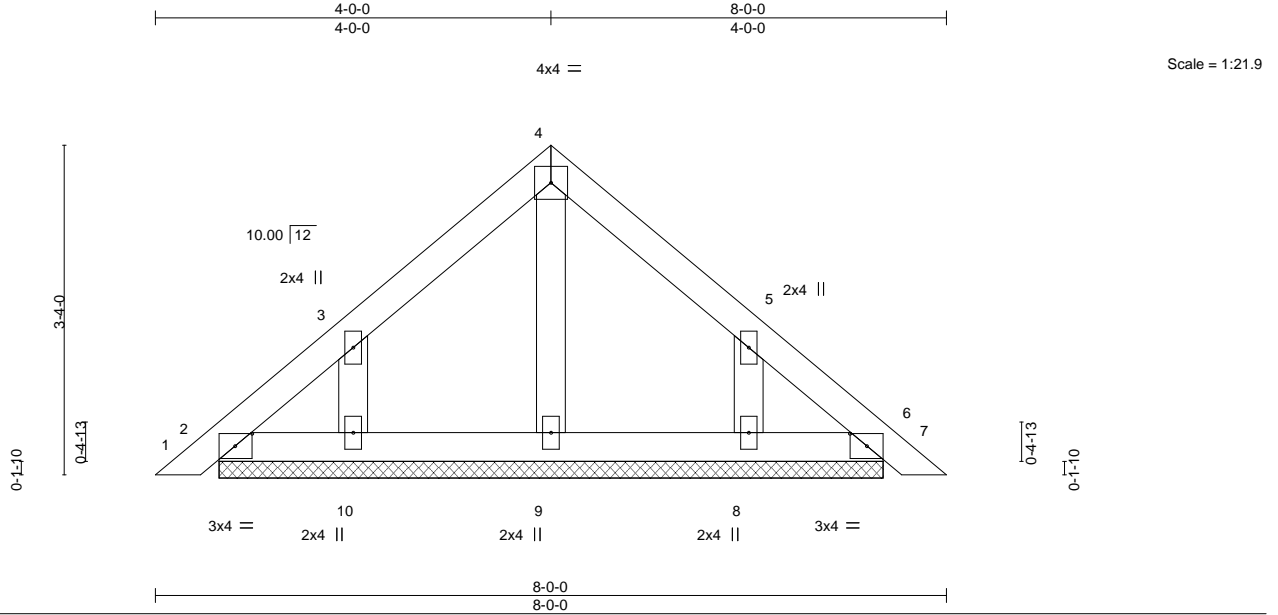


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]

LOADING (psf)	SPACING-	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	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	0.00	6	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2'-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=177, 8=176.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



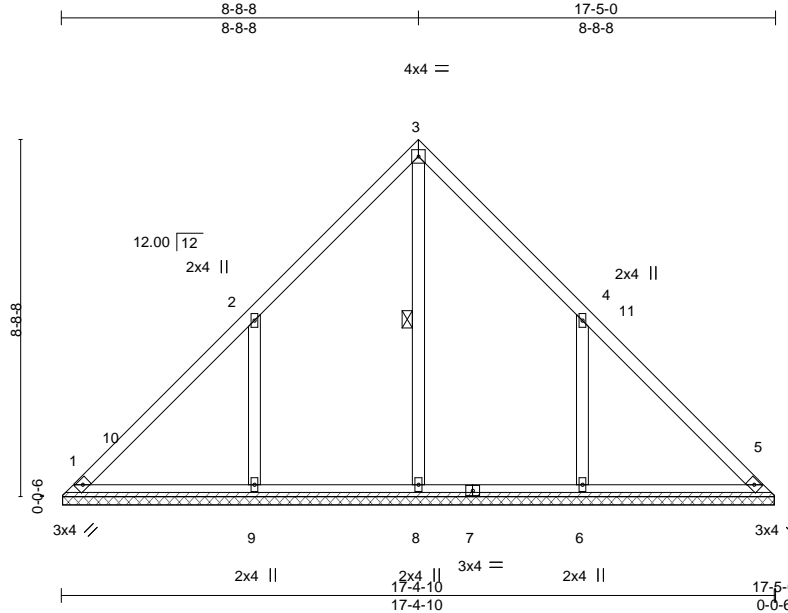
September 15, 2022

Job J1122-5849	Truss VC1	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232544
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:37 2022 Page 1

ID:pRI1C9Efk0ZVsLDXhFWTRyeOMT-?7EMq6XGNI\_WKSA2U4r5RuHYkTh5Y?KItTngoydMUa



Scale = 1:52.9

Plate Offsets (X,Y)--	[4:0-0,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code IRC2015/TPI2014								
							Weight: 85 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-8-8, 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
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=320, 6=320.



September 15, 2022

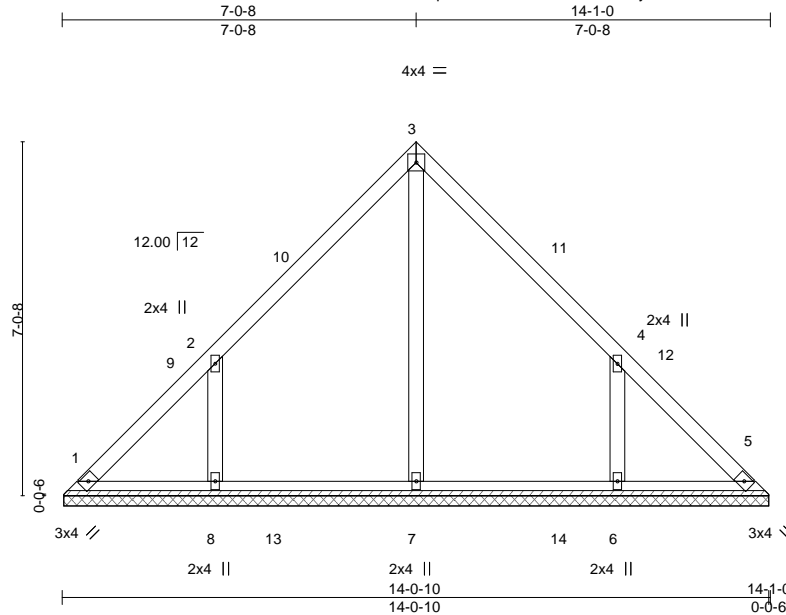
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 818 Soundside Road Edenton, NC 27932
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Job J1122-5849	Truss VC2	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232545
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:38 2022 Page 1

ID:pR1C9Effk0ZvsLDXhFWTRyeOMT-TJok1SYu8?6NyclE2nMKz5llt1WHTIS67UKEydmUZ



Scale = 1:43.1

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

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

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



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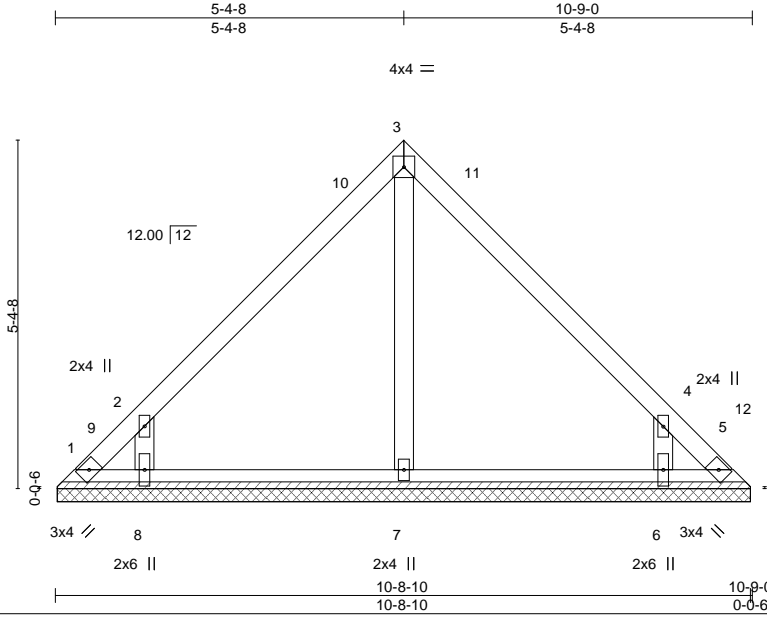
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



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Job J1122-5849	Truss VC3	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232546
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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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Scale = 1:33.4

Plate Offsets (X,Y)--	[4:0-0,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/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-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	


**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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, 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
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.

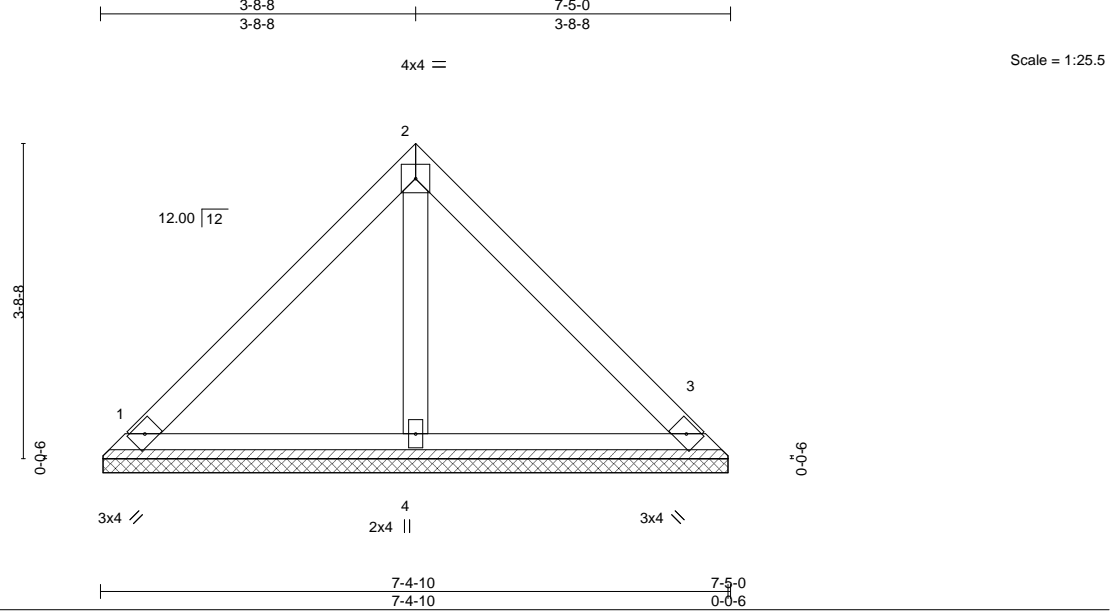


September 15, 2022

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Job J1122-5849	Truss VC4	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232547
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Comtech, Inc, Fayetteville, NC - 28314, 8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:40 2022 Page 1  
 ID:pR11C9Effk0ZVsLDXhFWTRyeOMT-PiwVSZ8gdM5BwvdACOo2Wv4LhkJIOUlaRzRG7ydMUX



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

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1 and 53 lb uplift at joint 3.



September 15, 2022

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



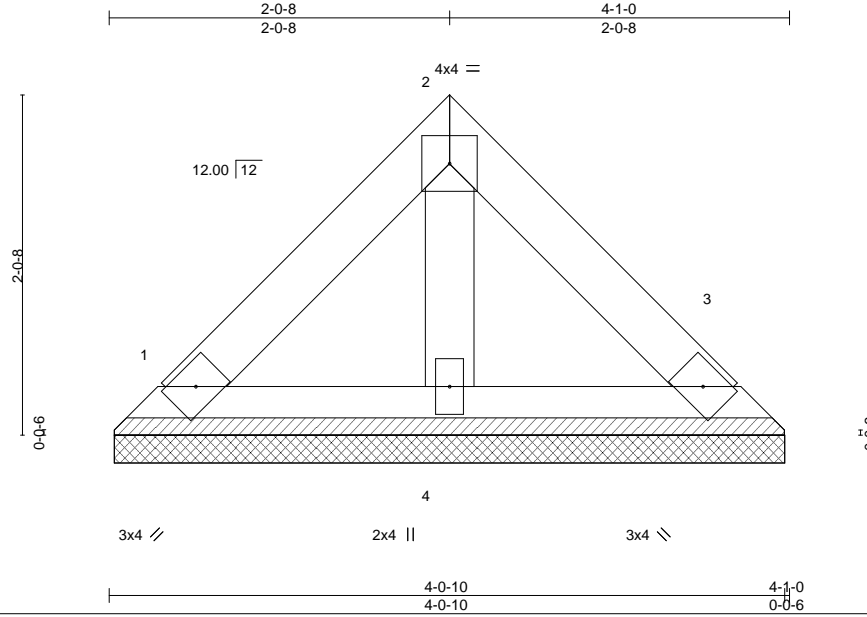
818 Soundside Road  
Edenton, NC 27932

Job J1122-5849	Truss VC5	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232548
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:40 2022 Page 1

ID:PR11C9Efk0ZvsLDXhFWTRyeOMT-PiwVS8Z8gdM5BwvdACOo2Wv7AhlllOnlaRzRG7ydMUX



Scale = 1:13.0

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 27 lb uplift at joint 3.



September 15, 2022

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

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818 Soundside Road  
 Edenton, NC 27932

Job J1122-5849	Truss VD1	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232549
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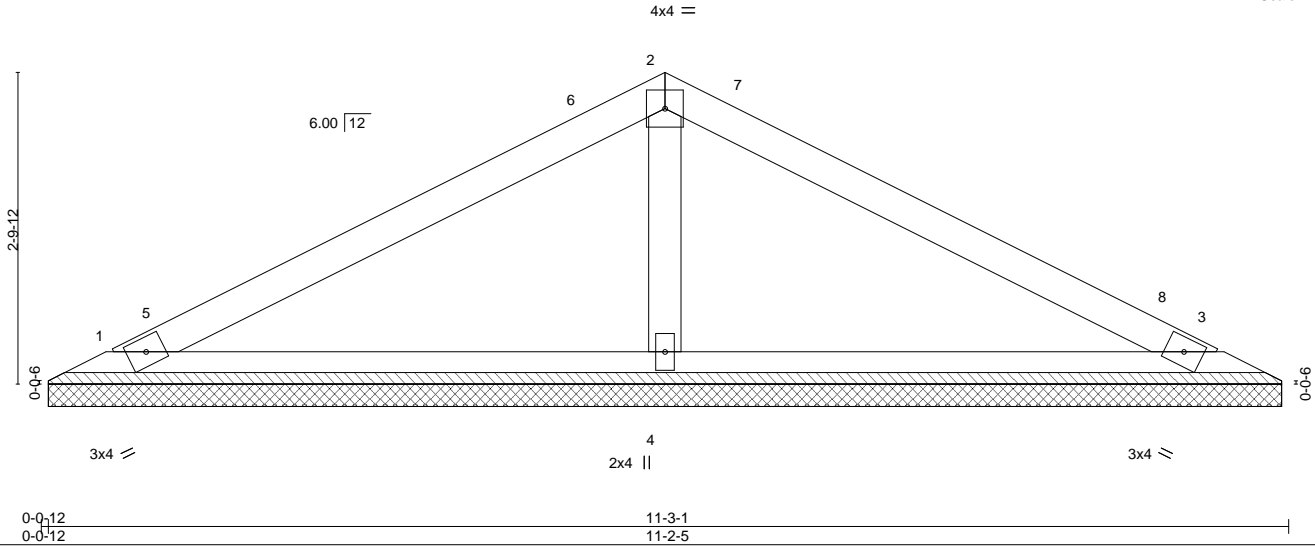
Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:41 2022 Page 1

ID:pRI1C9Efk0ZVsLDXhFWTRyeOMT-tuUtgUamRwUyp3Upjwv1bkSEo432UrQuo4j?pZydMUW



Scale = 1:19.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	3	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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 57 lb uplift at joint 3 and 44 lb uplift at joint 4.



September 15, 2022

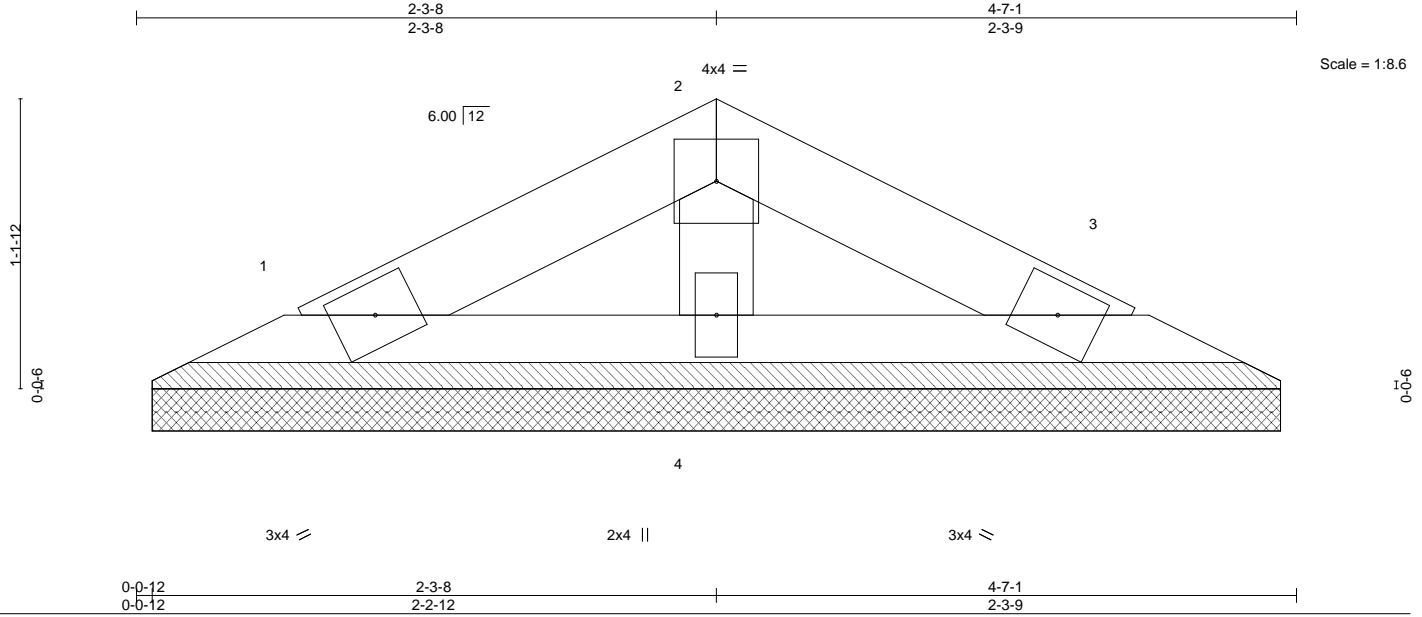
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before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



818 Soundside Road  
 Edenton, NC 27932

Job J1122-5849	Truss VD2	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	154232550
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Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:42 2022 Page 1  
ID:pRI1C9Efk0ZVsLDXhFWTRyeOMT-L51FtqbPCEcpQD30HdRG8x\_TuUQnDI611kSYL?ydMUV



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
BCDL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 13 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

**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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1, 23 lb uplift at joint 3 and 6 lb uplift at joint 4.



September 15, 2022

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818 Soundside Road  
Edenton, NC 27932



Job J1122-5849	Truss VG1	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes	I54232551
Comtech, Inc, Fayetteville, NC - 28314,					8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:43 2022 Page 1	
					Job Reference (optional)	
					ID:pRI1C9Effk0ZVsLDXhFWTRyeOMT-pHbd5Ac1zYkg2NeCrLyVg9Xblu_l_yItBGOC5RydMUU	
					14-4-1	
					7-2-1	

Scale: 1/2"=1'

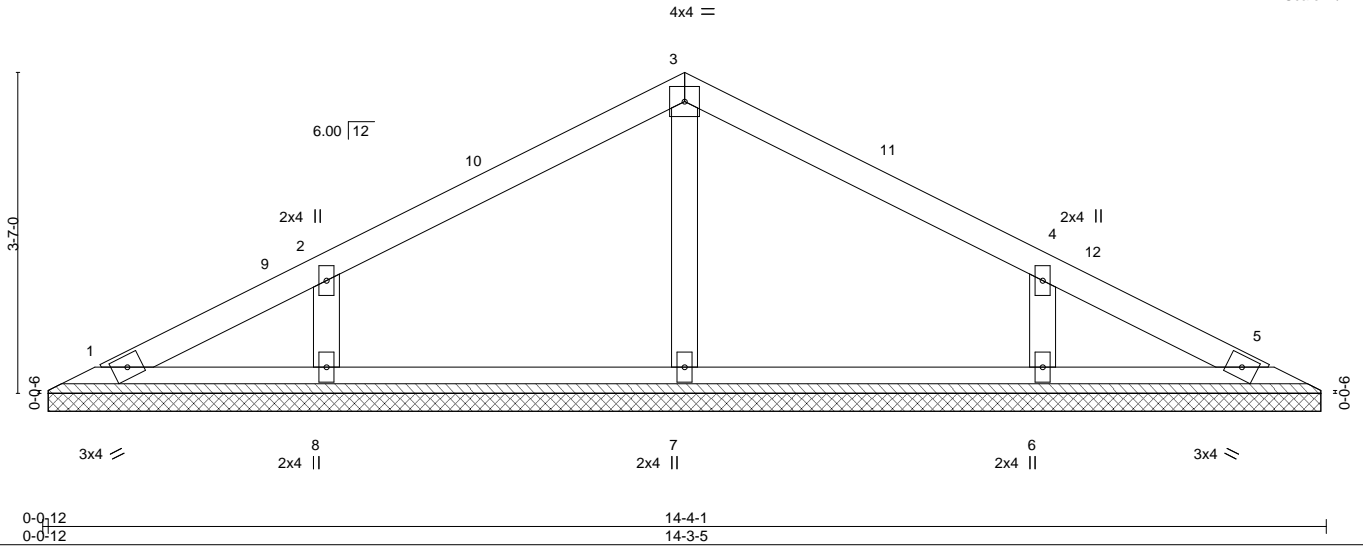


Plate Offsets (X,Y)--	[4:0-0,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 50 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 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
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=125, 6=125.



September 15, 2022

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818 Soundside Road  
Edenton, NC 27932

Job J1122-5849	Truss VG2	Truss Type VALLEY	Qty 1	Ply 1	Lot 148 Hidden Lakes Job Reference (optional)	I54232552
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Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 14:15:44 2022 Page 1

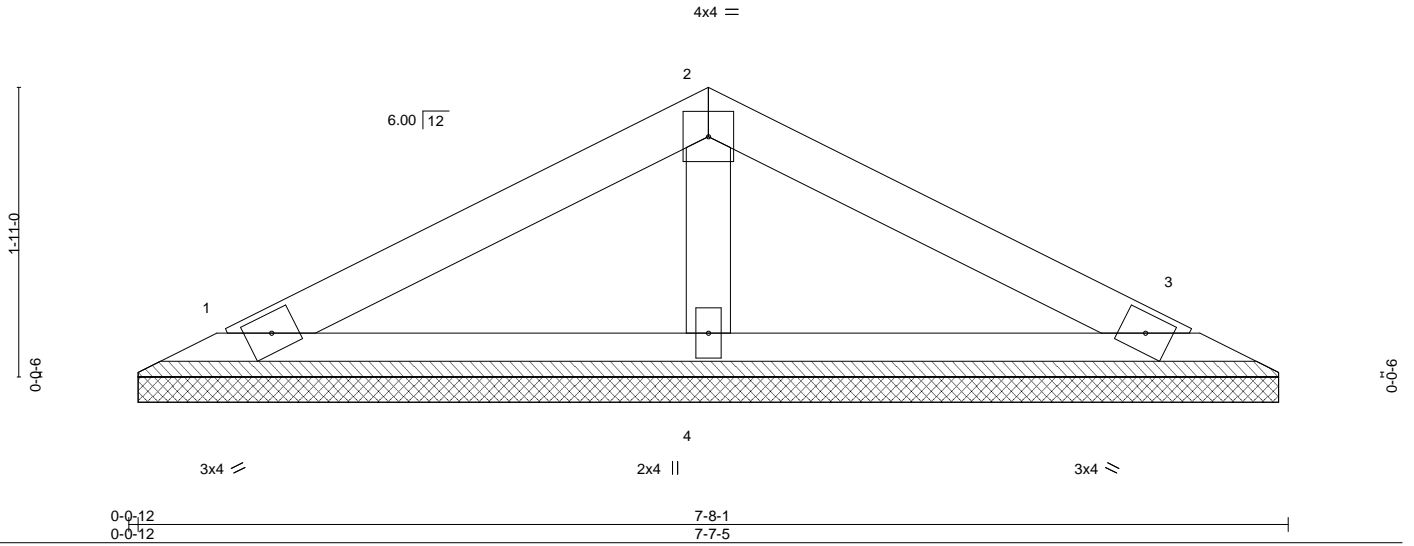
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7-8-1

3-10-1

3-10-0  
3-10-0

Scale = 1:14.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999	Weight: 24 lb	FT = 20%
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014				

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 1=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-**

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



September 15, 2022

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

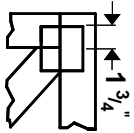
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



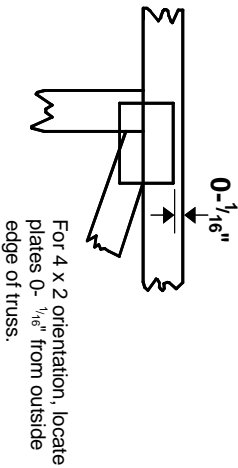
818 Soundside Road  
Edenton, NC 27932

# Symbols

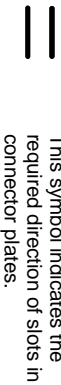
## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0-  $\frac{1}{16}$ " from outside edge of truss.



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

## PLATE SIZE

4 X 4

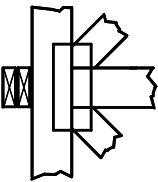
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

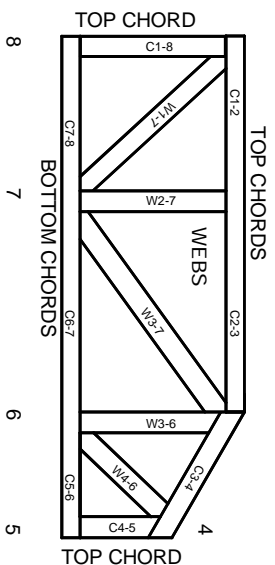


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System



**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, ESR 1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

# General Safety Notes

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

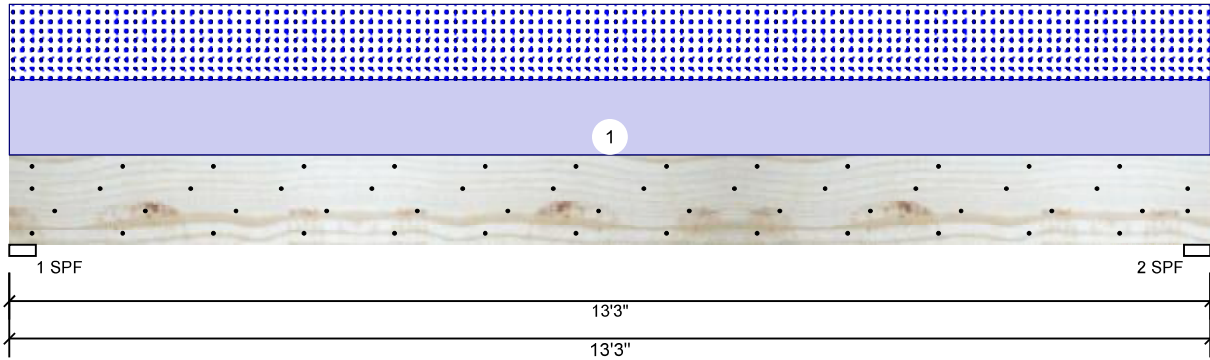
- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed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



Client: Wellco Construction  
 Project: Plan 11  
 Address: Sugarberry Place  
 Clayton, NC 27527

Date: 11/30/2022  
 Input by: Jonathan Landry  
 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
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

**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



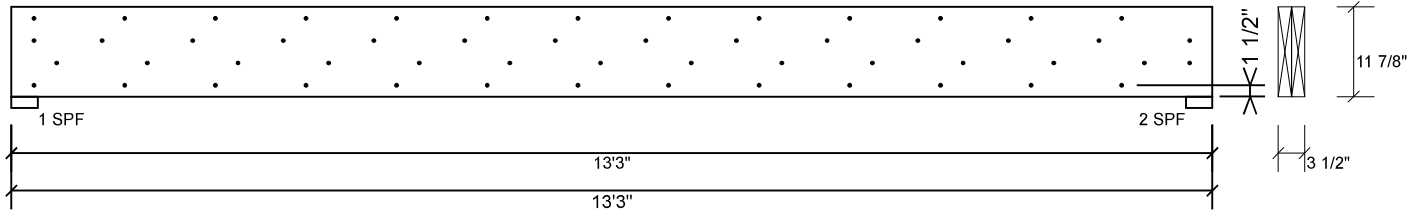


Client: Wellco Construction  
 Project: Plan 11  
 Address: Sugarberry Place  
 Clayton, NC 27527

Date: 11/30/2022  
 Input by: Jonathan Landry  
 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**

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 301 Merritt 7 Building, 2nd Floor  
 Norwalk, CT 06851  
 (800) 622-5850  
[www.metsawood.com/us](http://www.metsawood.com/us)

Comtech, Inc.  
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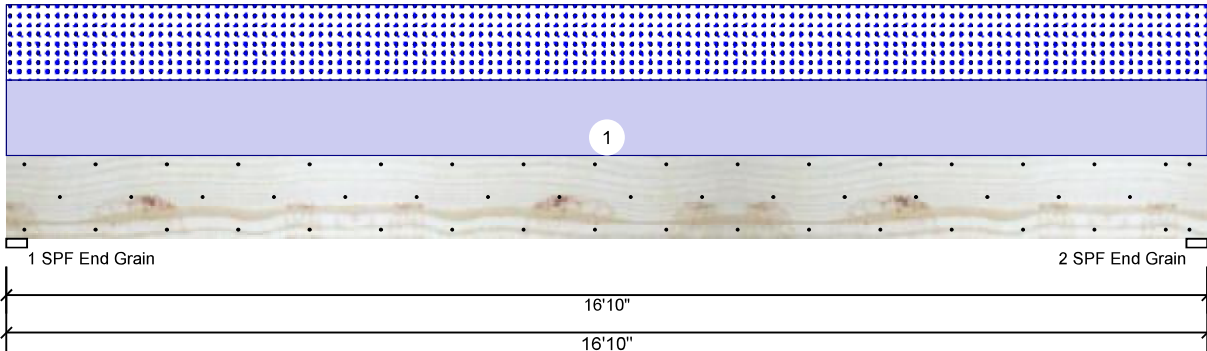


Client: Wellco Construction  
 Project: Plan 11  
 Address: Sugarberry Place  
 Clayton, NC 27527

Date: 11/30/2022  
 Input by: Jonathan Landry  
 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
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

**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

**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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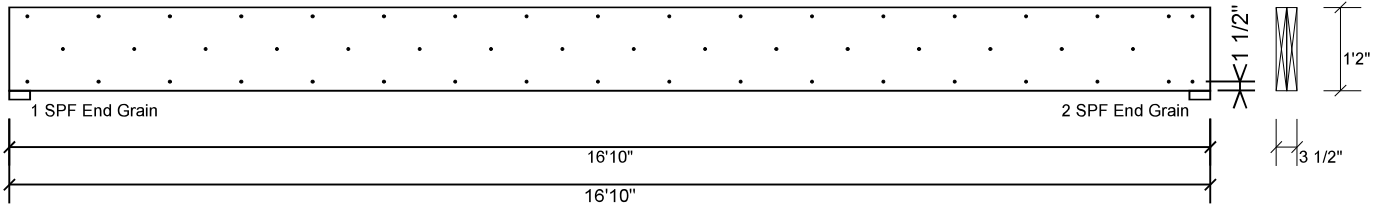


Client: Wellco Construction  
 Project: Plan 11  
 Address: Sugarberry Place  
 Clayton, NC 27527

Date: 11/30/2022  
 Input by: Jonathan Landry  
 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

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



# Reaction Summary of Order



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

WELLCO CONTRACTORS, INC.	<b>Wellco Contractors, Inc.</b> PO Box 766 Spring Lake, NC 28390 (910) 436-3131	<b>JOB NAME:</b> Lot 148 Hidden Lakes <b>MODEL:</b> Roof <b>TAG:</b> Plan 11 / 2GLF, CP <b>DELIVERY INSTRUCTIONS:</b>	<b>LOT #</b> 148 <b>SUBDIV:</b> Hidden Lakes <b>JOB CATEGORY:</b> B & S - Build and Ship
	<b>Wellco Contractors</b> Sugarberry Place Clayton, NC 27527	<b>SPECIAL INSTRUCTIONS:</b> Copied from Lot 135 Hidden Lakes (J1122-5625)	<b>PLAN SEAL DATE:</b> N/A

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	JL	DATE
Roof Order	END CUT    RETURN					LAYOUT	JL	11/30/22
	PLUMB	GABLE STUDS	16 IN. OC	JOBSITE	1	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	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	10	10.00	0.00	PIGGYBACK A1	32-08-00 32-08-00	2 X 6	2 X 6			Joint 1      Joint 10 1509.2 lbs.    1509.2 lbs. -186.3 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      Joint 23      Joint 25      Joint 26      Joint 27 351.1 lbs.    247.9 lbs.    270.6 lbs.    180.9 lbs.    199.5 lbs. -245.2 lbs.    -78.3 lbs.    -316.1 lbs.    -132.0 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      Joint 15 1383.2 lbs.    1785.7 lbs. -184.5 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      Joint 12 1328.7 lbs.    1280.9 lbs. -175.8 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      Joint 21      Joint 22      Joint 23      Joint 24 287.7 lbs.    281.5 lbs.    184.8 lbs.    198.7 lbs.    200.7 lbs. -136.7 lbs.    -310.3 lbs.    -146.2 lbs.    -164.9 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      Joint 12 1185.3 lbs.    1180.1 lbs. -147.3 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      Joint 10 1430.0 lbs.    1424.7 lbs. 42.2 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      Joint 12 1333.1 lbs.    1390.9 lbs. -111.5 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      Joint 9 1394.6 lbs.    1425.4 lbs. 50.6 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      Joint 3      Joint 4      Joint 9 1683.9 lbs.    179.4 lbs.    230.4 lbs.    2138.1 lbs. -32.0 lbs.    -32.0 lbs.    30.4 lbs.    85.3 lbs.



# Reaction Summary of Order



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

PHOTOS	<b>Wellco Contractors, Inc.</b> PO Box 766 Spring Lake, NC 28390 (910) 436-3131	<b>JOB NAME:</b> Lot 148 Hidden Lakes <b>MODEL:</b> Roof <b>TAG:</b> Plan 11 / 2GLF, CP <b>DELIVERY INSTRUCTIONS:</b>	<b>LOT # 148    SUBDIV:</b> Hidden Lakes <b>JOB CATEGORY:</b> B & S - Build and Ship
	<b>Wellco Contractors</b> Sugarberry Place Clayton, NC 27527	<b>SPECIAL INSTRUCTIONS:</b> Copied from Lot 135 Hidden Lakes (J1122-5625)	<b>PLAN SEAL DATE:</b> N/A

<b>BUILDING DEPARTMENT</b>	<b>OVERHANG INFO</b>	<b>HEEL HEIGHT</b>	00-04-05	<b>REQ. LAYOUTS</b>	<b>REQ. ENGINEERING</b>	<b>QUOTE</b>	JL	11/30/22
Roof Order	END CUT    RETURN					<b>LAYOUT</b>	JL	11/30/22
	PLUMB	<b>GABLE STUDS</b>	16 IN. OC	JOBSITE	1	<b>CUTTING</b>	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	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS					
		TOP	BOT			TOP	BOT	LEFT	RIGHT						
	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



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

ROOF	<b>Wellco Contractors, Inc.</b> PO Box 766 Spring Lake, NC 28390 (910) 436-3131	<b>JOB NAME:</b> Lot 148 Hidden Lakes <b>MODEL:</b> Roof <b>TAG:</b> Plan 11 / 2GLF, CP <b>DELIVERY INSTRUCTIONS:</b>	<b>LOT #</b> 148 <b>SUBDIV:</b> Hidden Lakes <b>JOB CATEGORY:</b> B & S - Build and Ship
	<b>Wellco Contractors</b> Sugarberry Place Clayton, NC 27527	<b>SPECIAL INSTRUCTIONS:</b> Copied from Lot 135 Hidden Lakes (J1122-5625)	<b>PLAN SEAL DATE:</b> N/A

<b>BUILDING DEPARTMENT</b>	<b>OVERHANG INFO</b>	<b>HEEL HEIGHT</b>	00-04-05	<b>REQ. LAYOUTS</b>	<b>REQ. ENGINEERING</b>	<b>QUOTE</b>	JL	11/30/22
Roof Order	END CUT    RETURN					<b>LAYOUT</b>	JL	11/30/22
	PLUMB	<b>GABLE STUDS</b>	16 IN. OC	JOBSITE	1	<b>CUTTING</b>	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	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	1	4.00	0.00	MONOPITCH M1-GR	05-04-00 05-04-00	2 X 6	2 X 6			Joint 1      Joint 5 560.8 lbs.    597.7 lbs. -135.7 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      Joint 4      Joint 6 182.0 lbs.    182.0 lbs.    222.9 lbs. -55.7 lbs.    -64.8 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      Joint 6      Joint 8      Joint 9      Joint 10 91.4 lbs.    78.2 lbs.    200.7 lbs.    119.0 lbs.    202.0 lbs. -34.4 lbs.    -11.8 lbs.    -175.6 lbs.    23.5 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      Joint 5      Joint 6      Joint 8      Joint 9 221.1 lbs.    188.1 lbs.    581.8 lbs.    427.1 lbs.    582.2 lbs. -47.6 lbs.    -3.7 lbs.    -319.6 lbs.    58.3 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      Joint 5      Joint 6      Joint 7      Joint 8 161.8 lbs.    135.3 lbs.    438.4 lbs.    407.6 lbs.    438.8 lbs. -57.0 lbs.    -21.8 lbs.    -257.1 lbs.    52.7 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      Joint 5      Joint 6      Joint 7      Joint 8 164.7 lbs.    151.7 lbs.    390.9 lbs.    220.3 lbs.    391.0 lbs. -147.6 lbs.    -121.3 lbs.    -258.9 lbs.    43.5 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      Joint 3      Joint 4 163.5 lbs.    163.5 lbs.    210.0 lbs. -53.0 lbs.    -53.0 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      Joint 3      Joint 4 82.3 lbs.    82.3 lbs.    105.7 lbs. -26.7 lbs.    -26.7 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      Joint 3      Joint 4 184.1 lbs.    184.1 lbs.    431.0 lbs. -49.5 lbs.    -57.0 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      Joint 3      Joint 4 67.0 lbs.    67.1 lbs.    128.5 lbs. -20.3 lbs.    -22.9 lbs.    -6.4 lbs.

# Reaction Summary of Order



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

Wellco Contractors, Inc. PO Box 766 Spring Lake, NC 28390 (910) 436-3131	JOB NAME: Lot 148 Hidden Lakes MODEL: Roof TAG: Plan 11 / 2GLF, CP DELIVERY INSTRUCTIONS:	LOT # 148 SUBDIV: Hidden Lakes JOB CATEGORY: B & S - Build and Ship
	Wellco Contractors Sugarberry Place Clayton, NC 27527	SPECIAL INSTRUCTIONS: Copied from Lot 135 Hidden Lakes (J1122-5625)

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	JL	11/30/22
Roof Order	END CUT RETURN					LAYOUT	JL	11/30/22
	PLUMB	GABLE STUDS	16 IN. OC	JOBSITE	1	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		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	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)