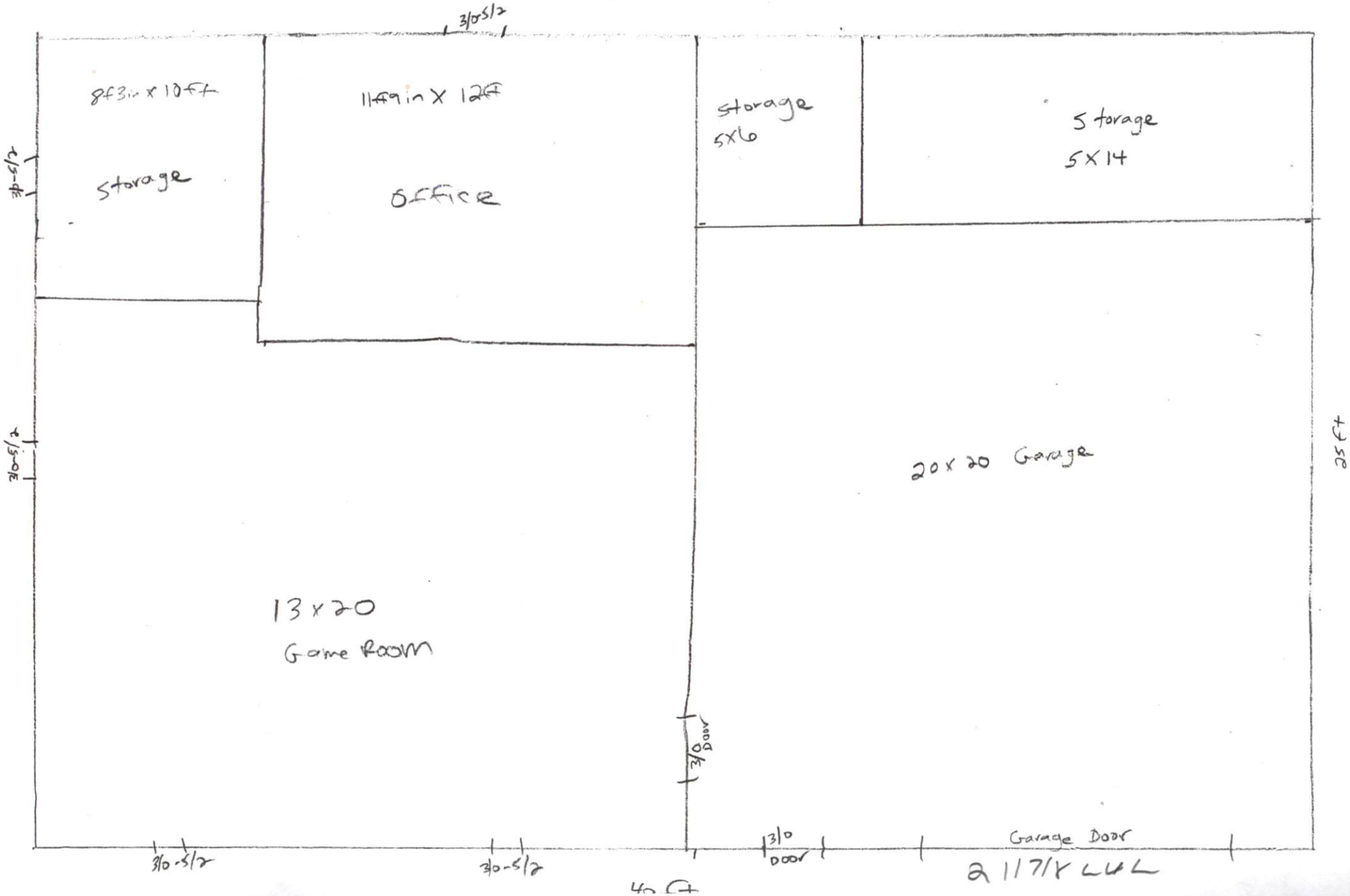


Truss Roof

25 FT x 40 FT - 1000 Sq FT

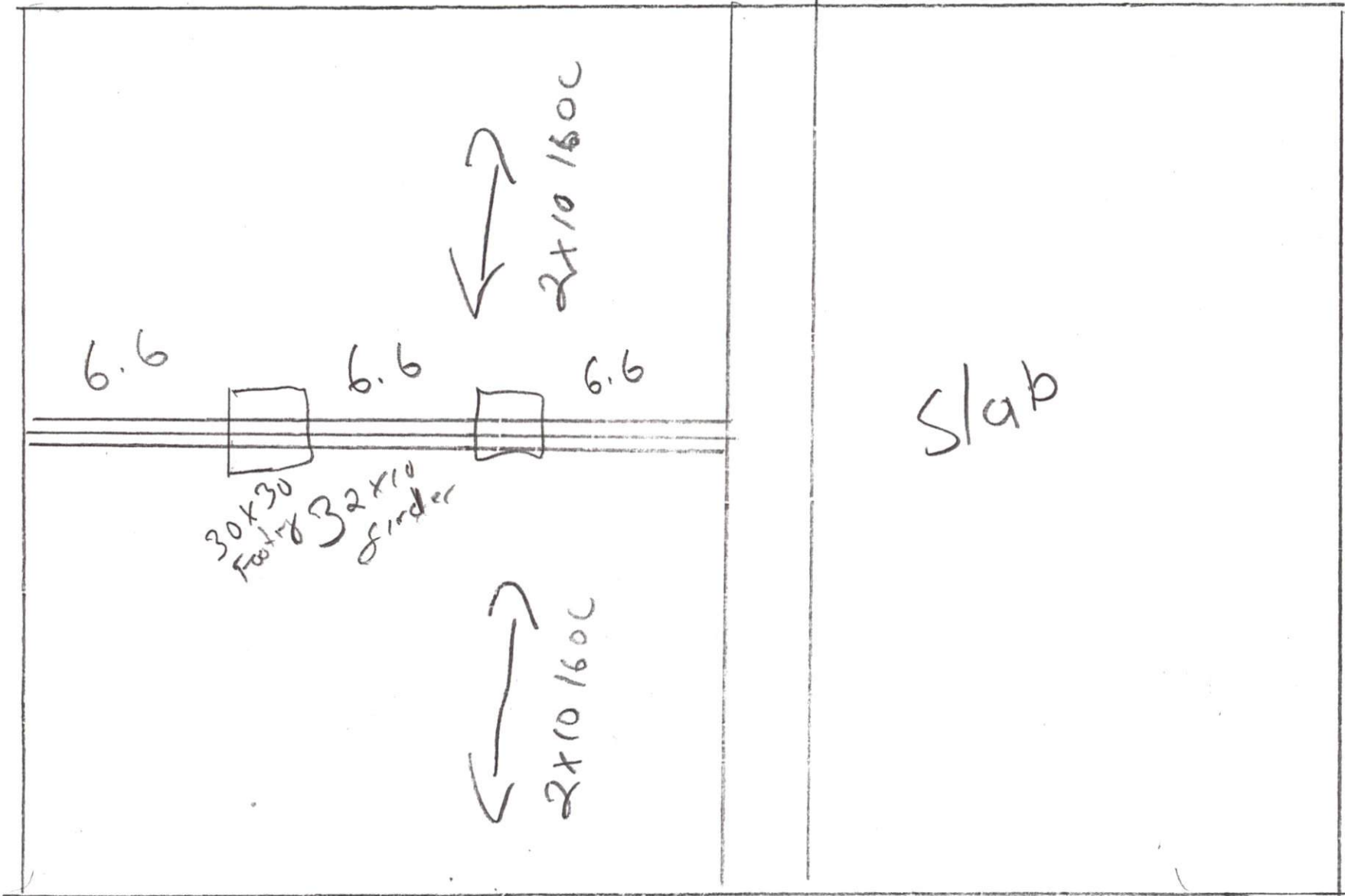
Bryant Shop - Wilburn Road



Bryant Shop - Wilburn Road

1.0x 16 concrete Footing

8in Foundation



6.6



6.6



2x10 1600



6.6

30x30 Footing  
32x10 girder

Slab



2x10 1600

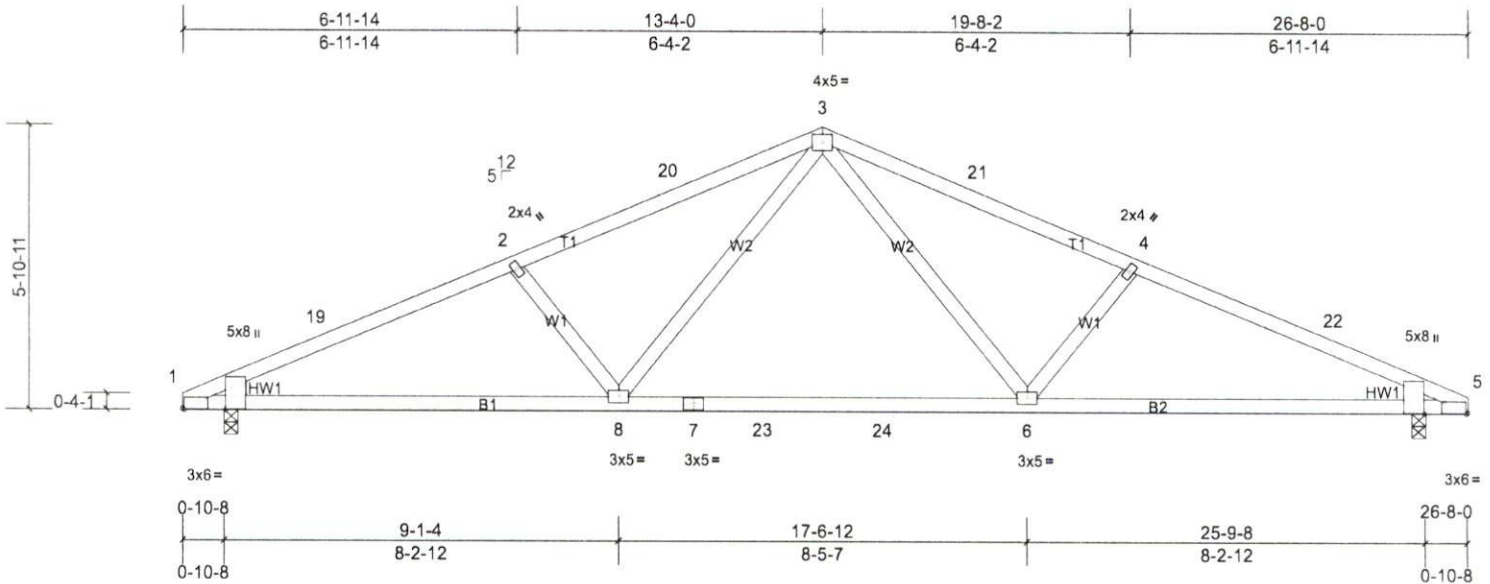
Job Q-2401677-1	Truss T1	Truss Type Common	Qty 19	Ply 1	Todd-Todd Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.72 S Apr 24 2024 Print: 8.720 S Apr 24 2024 MiTek Industries, Inc. Tue Jul 16 14:26:15

Page: 1

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Scale = 1:45.9

Plate Offsets (X, Y): [1:0-0-6,Edge], [1:0-0-4,Edge], [5:0-0-6,Edge], [5:0-0-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.21	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.39	6-8	>823	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 115 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 WEDGE Left: 2x4 SP No.3  
 Right: 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 1=1067/0-3-8, (min. 0-1-11), 5=1067/0-3-8, (min. 0-1-11)  
 Max Horiz 1=-64 (LC 9)  
 Max Uplift 1=-131 (LC 11), 5=-131 (LC 11)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-19=-1807/244, 2-19=-1691/267, 2-20=-1600/242, 3-20=-1520/256, 3-21=-1520/256, 4-21=-1600/242, 4-22=-1691/267,  
 5-22=-1807/244  
 BOT CHORD 1-8=-176/1597, 7-8=-59/1111, 7-23=-59/1111, 23-24=-59/1111, 6-24=-59/1111, 5-6=-176/1597  
 WEBS 3-6=-33/524, 4-6=-339/162, 3-8=-33/524, 2-8=-339/162

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 13-4-0, Exterior (2) 13-4-0 to 16-4-0, Interior (1) 16-4-0 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 131 lb uplift at joint 1 and 131 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

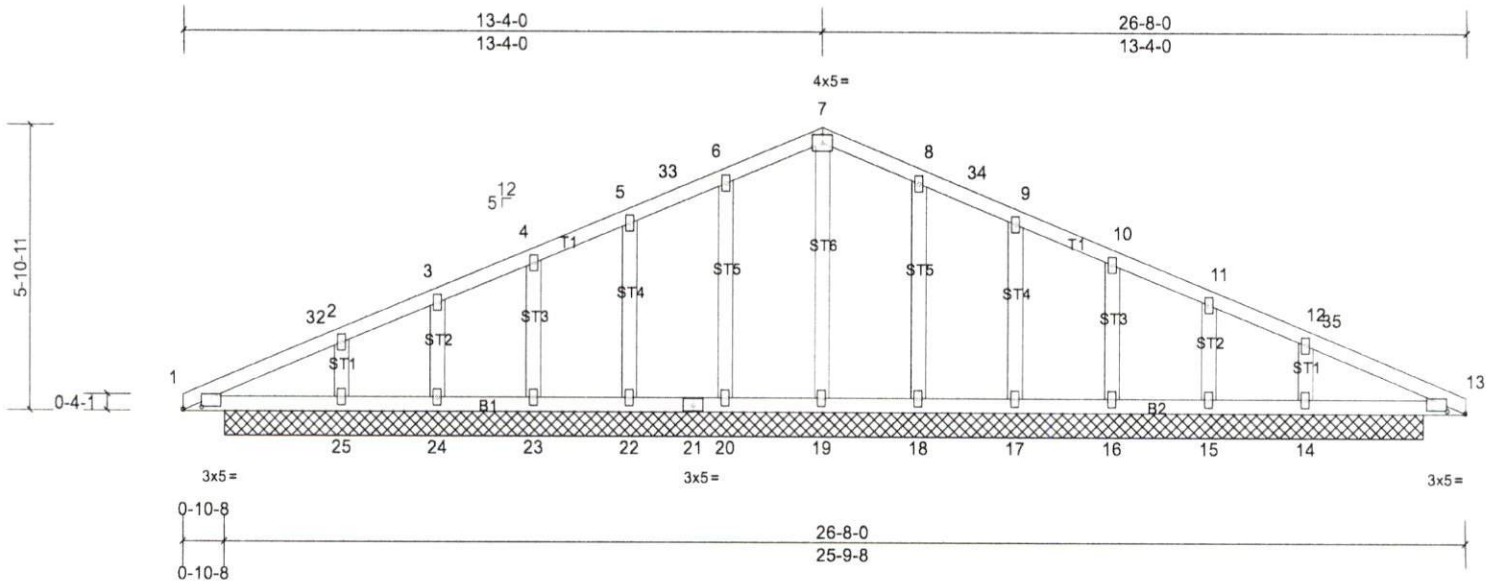
Job Q-2401677-1	Truss T1GE	Truss Type Common Supported Gable	Qty 2	Ply 1	Todd-Todd Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.72 S Apr 24 2024 Print: 8.720 S Apr 24 2024 MiTek Industries, Inc. Tue Jul 16 14:26:16

Page: 1

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Scale = 1:46

Plate Offsets (X, Y): [1:0-4-10,0-0-12], [13:0-4-10,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								Weight: 133 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD  
 BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS**

All bearings 24-11-0.  
 (lb) - Max Horiz 1=-64 (LC 9), 28=-64 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 13, 14, 15, 16, 17, 18, 20, 22, 23, 24, 25, 28, 31  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 28, 31  
 Max Mom 1=420 (LC 16), 13=259 (LC 11), 28=420 (LC 16), 31=259 (LC 11)

**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=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; B=20ft; L=27ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 13-4-0, Corner (3) 13-4-0 to 16-4-0, Exterior (2) 16-4-0 to 26-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Solid blocking is required on both sides of the truss at joint(s), 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 20, 22, 23, 24, 25, 18, 17, 16, 15, 14, 1, 13.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Design based on plans and/or revisions dated  
 NA  
 Plans and/or revisions received on  
 7/16/24

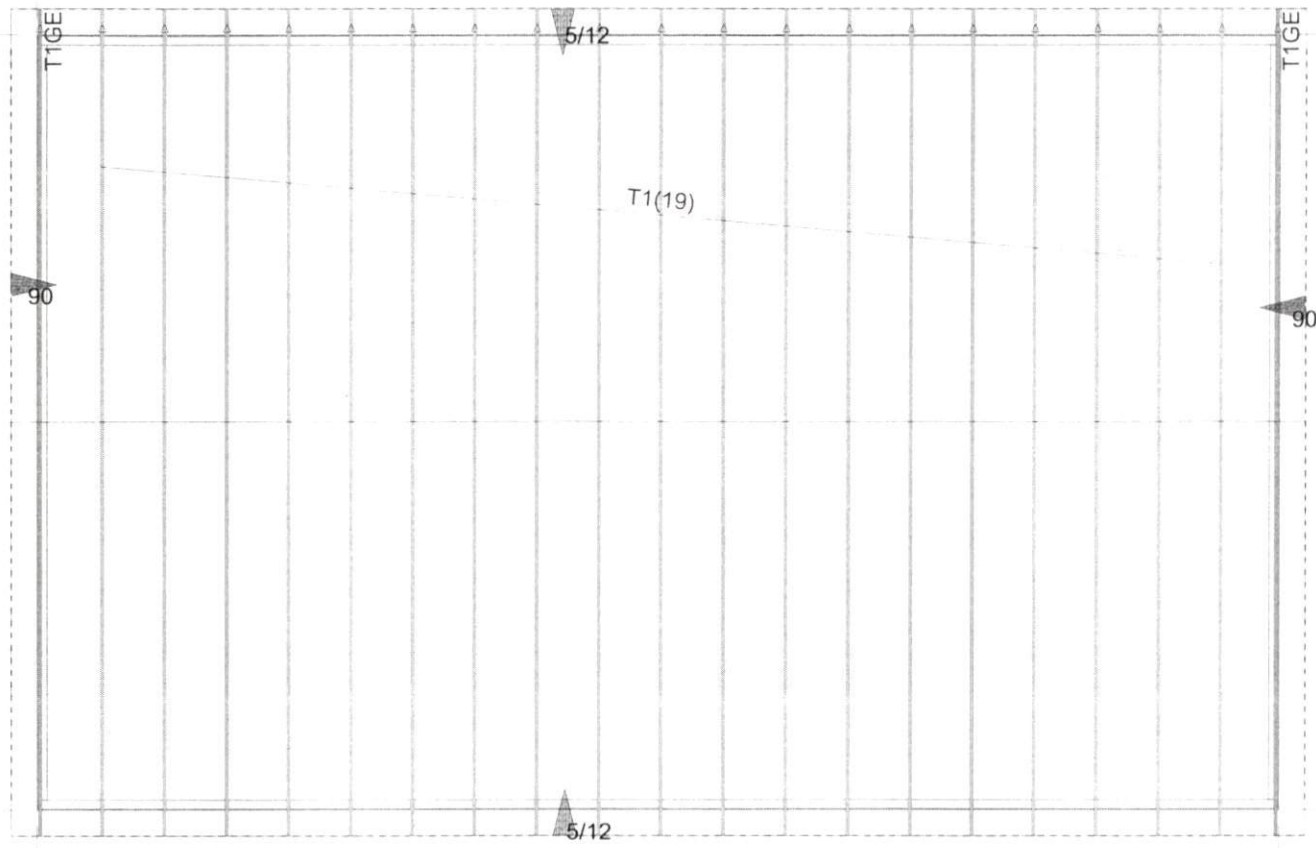
THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.  
 PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS,  
 SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN-  
 NOT FOR  
 CONSTRUCTION

40-00-00

25-00-00

25-00-00



Notes  
 1. Exterior dimensions shown are assumed to be:  
 - Out-to-out of stud  
 - Out-to-out of sheathing  
 - Out-to-out of  
 2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.  
 3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.  
 4. Do not approve drawings if any information herein is unclear. Once ordered, trusses will be fabricated as approved.  
 5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading specified by building designer on Residential jobs  
 Top Chord Live Load 20.0 lb/ft²  
 Top Chord Dead Load 10.0 lb/ft²  
 Bottom Chord Live Load 0.0 lb/ft²  
 Bottom Chord Dead Load 10.0 lb/ft²

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

Floor Truss Loading specified by building designer on Residential jobs  
 Top Chord Live Load 40.0 lb/ft²  
 Top Chord Dead Load 10.0 lb/ft²  
 Bottom Chord Live Load 0.0 lb/ft²  
 Bottom Chord Dead Load 5.0 lb/ft²  
 Floor Live Load deflection limit L/480  
 Roof Live Load deflection limit L/240

This layout has been designed using the IRC2015 building code.  
 Model created using a wind speed of 120 mph specified for Harnett County

△ This symbol denotes left end of truss as shown on truss drawings.  
 ● Appropriate location of toilet drop. Builder please confirm.  
 Truss connections by others  
 N - Nailed  
 L - Ledger

Cantilever: 10.5"  
 Depth: NA  
 Spacing: 2' OC  
 Wall Types  
 --- Load Bearing  
 ===== Non Load Bearing

Job #  
 Q-2401677

Todd  
 NC  
 UNIT / Lot:

Layout Creation Date:  
 7/16/2024  
 Sikes, Lt. Greene - Designs Austin Greene

JE Womble and Sons  
 805 W Front St  
 Lillington, NC  
 27546

Peak Truss  
 Builders, LLC  
 PO Box 340, New Hill, NC 27562