

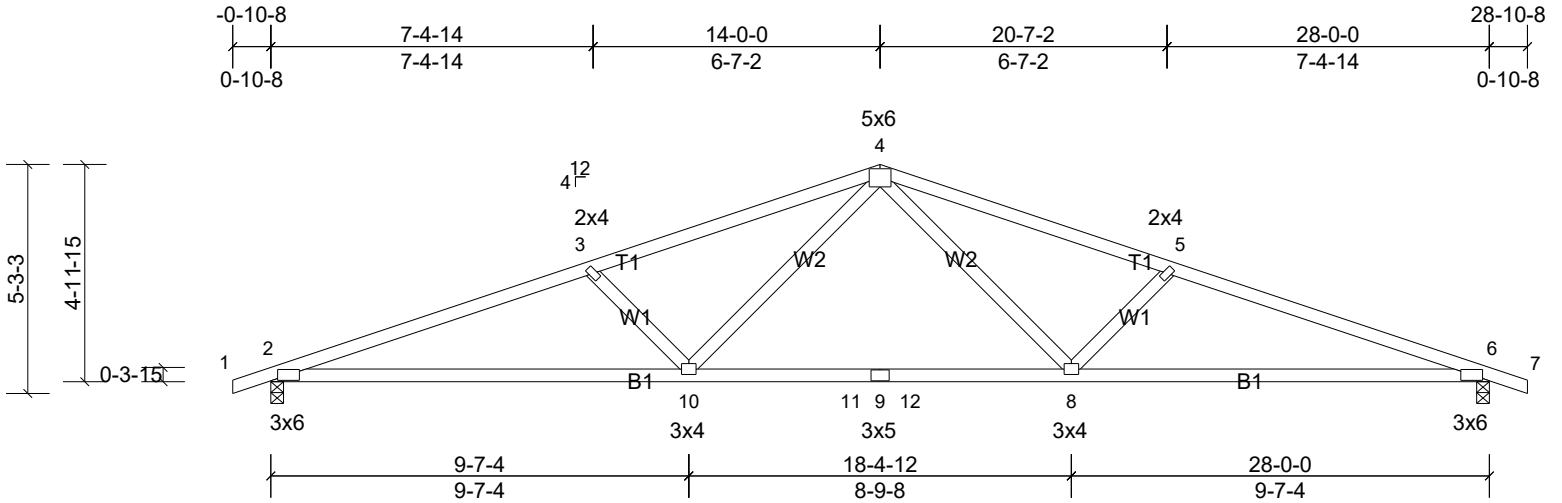
Job LO240204	Truss CT1	Truss Type Common	Qty 19	Ply 1	Job Reference (optional)
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Truss Builders of Holly Ridge, Inc., Holly Ridge, NC 28445

Run: 8.5 S 0 Oct 22 2021 Print: 8.500 S Oct 22 2021 MiTek Industries, Inc. Mon Feb 05 08:38:16

Page: 1

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Scale = 1:53.2

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	0.80	Vert(LL)	-0.17	2-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.42	2-10	>791	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R								
											Weight: 116 lb	FT = 6%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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.

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

REACTIONS (lb/size) 2=1170/0-3-8, (min. 0-1-8),
 6=1170/0-3-8, (min. 0-1-8)
 Max Horiz 2=-88 (LC 9)
 Max Uplift 2=-351 (LC 4), 6=-351 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2661/702, 3-4=-2339/601,
 4-5=-2339/601, 5-6=-2661/702
 BOT CHORD 2-10=-642/2458, 10-11=-324/1664,
 9-11=-324/1664, 9-12=-324/1664,
 8-12=-324/1664, 6-8=-573/2458
 WEBS 4-8=-169/746, 5-8=-464/310, 4-10=-169/746,
 3-10=-464/310

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=150mph (3-second gust)
 Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 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 351 lb uplift at joint 2 and 351 lb uplift at joint 6.

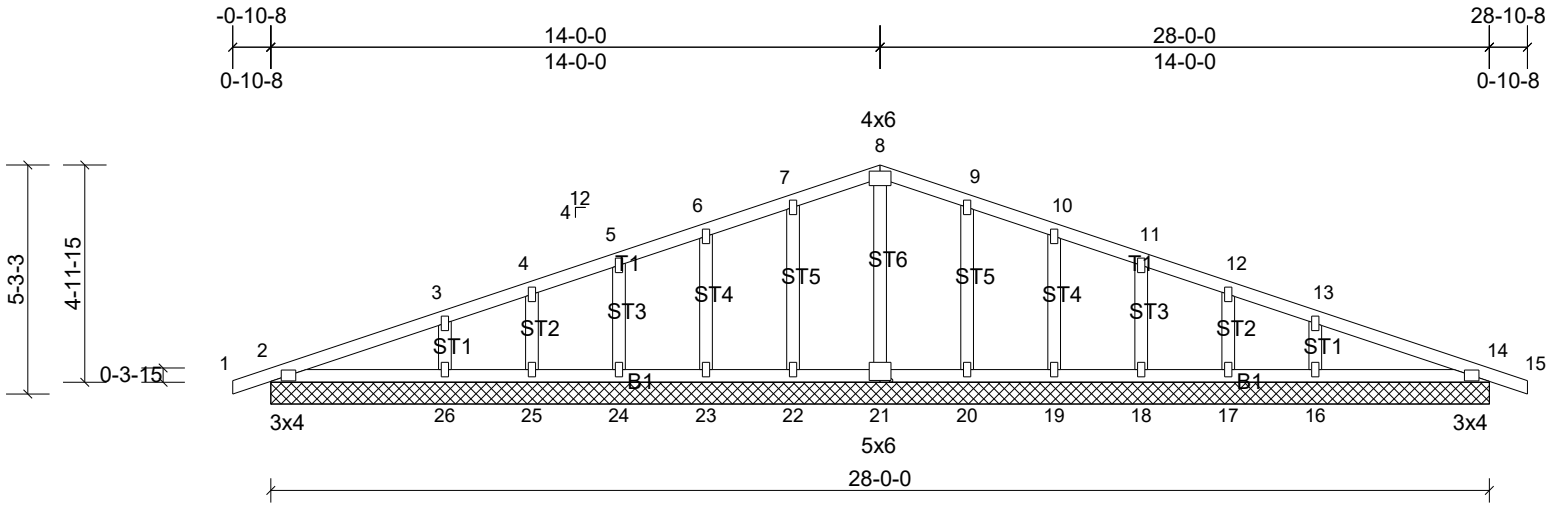
Job LO240204	Truss CT1GE	Truss Type Common Supported Gable	Qty 2	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:53.2

Plate Offsets (X, Y): [21:0-3-0,0-3-0]

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 131 lb FT = 6%

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

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

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

- 8) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 22, 23, 24, 25, 20, 19, 18, 17, 14 except (jt=lb) 26=116, 16=116.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS All bearings 28-0-0.
 (lb) - Max Horiz 2=-88 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 14, 17, 18, 19, 20, 22, 23, 24, 25 except 16=-116 (LC 9), 26=-116 (LC 8)
 Max Grav All reactions 250 (lb) or less at joint (s) 2, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25 except 16=315 (LC 20), 26=315 (LC 19)

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 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

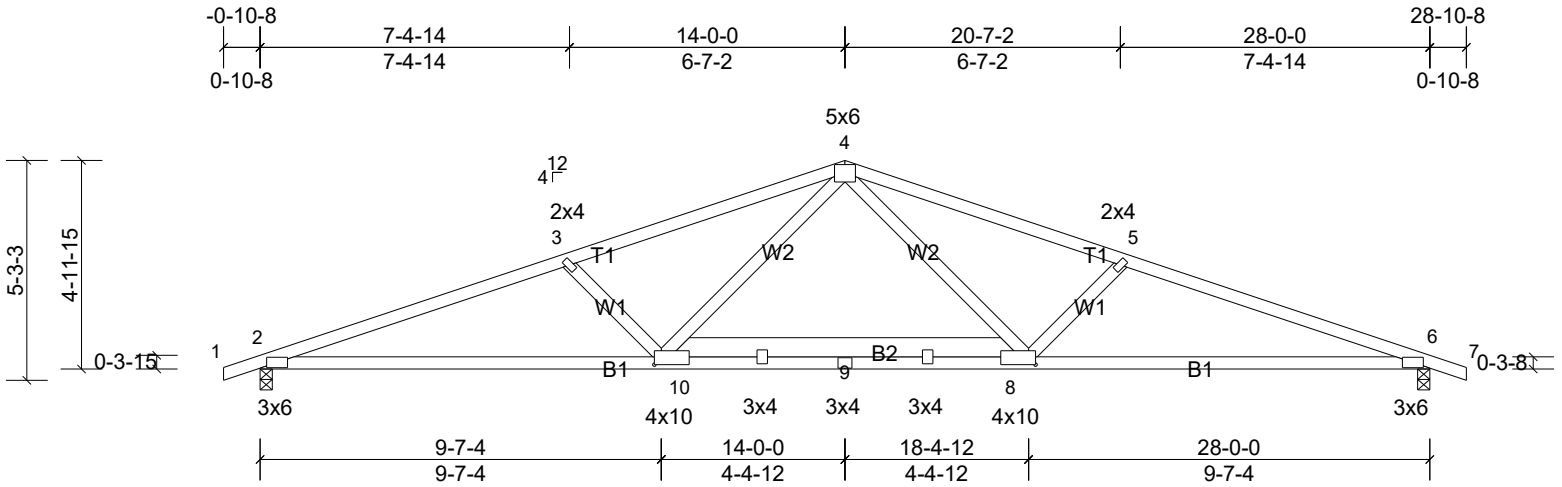
Job LO240204	Truss CT1LAS	Truss Type Common	Qty 6	Ply 1	Job Reference (optional)
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Page: 1

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Scale = 1:55.4

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

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	0.46	Vert(LL)	-0.17	2-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.40	2-10	>829	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R								
											Weight: 136 lb	FT = 6%

LUMBER
 TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E *Except* B2:2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.

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

REACTIONS (lb/size) 2=1170/0-3-8, (min. 0-1-8), 6=1170/0-3-8, (min. 0-1-8)
 Max Horiz 2=-88 (LC 11)
 Max Uplift 2=-351 (LC 4), 6=-351 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2833/753, 3-4=-2453/605, 4-5=-2453/600, 5-6=-2833/748
 BOT CHORD 2-10=-693/2639, 9-10=-333/1767, 8-9=-333/1767, 6-8=-618/2639
 WEBS 4-8=-162/763, 5-8=-503/333, 4-10=-165/763, 3-10=-503/332

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 351 lb uplift at joint 6.

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-4=-60, 4-7=-60, 2-6=-20