

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 4682535

MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Apex,NC).

Pages or sheets covered by this seal: I75614861 thru I75614881

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



August 13,2025

Gilbert, Eric

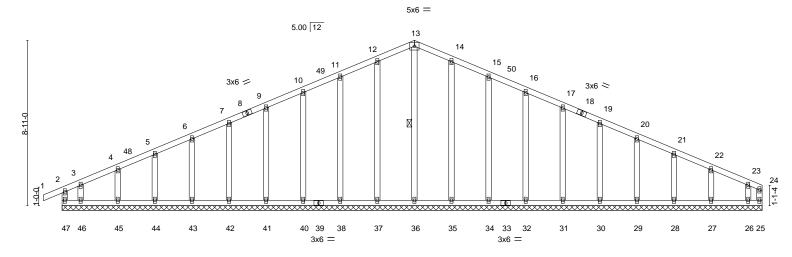
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job Truss Type MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Qty 175614861 4682535 A01G GABLE 2 Job Reference (optional) Builders FirstSource (Apex, NC), Apex. NC - 27523. 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:53 2025 Page 1

ID:3TtRaskrdZOKr4jVkPWDepyhbii-IO6CSEF8G6gLPvudVRDNJaeyP15bO90IOygYlLyoFq0

19-0-0 37-9-0 19-0-0 18-9-0

Scale = 1:62 1



	!			37-9-0	20 MT20 244/190 20 //a
LOADIN TCLL	20.ó	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.13	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120	
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00 1 n/r 120	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.15	Horz(CT) 0.00 25 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 245 lb FT = 20%

37-9-0

WEBS

1 Row at midpt

13-36

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. 2x4 SP No.3 **BOT CHORD WEBS** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 37-9-0.

2x4 SP No.3

(lb) - Max Horz 47=98(LC 12)

Truss

Max Uplift All uplift 100 lb or less at joint(s) 47, 25, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29,

28, 27 except 46=-117(LC 12), 26=-124(LC 13)

All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, Max Grav

31, 30, 29, 28, 27, 26

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

TOP CHORD 12-13=-92/266, 13-14=-92/258

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 3-9-10, Exterior(2) 3-9-10 to 19-0-0, Corner(3) 19-0-0 to 23-9-10, Exterior(2) 23-9-10 to 37-7-4 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
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 20.0psf 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47, 25, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 46=117, 26=124.



August 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



175614862 4682535 A02 COMMON 10 Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:54 2025 Page 1 ID:3TtRaskrdZOKr4jVkPWDepyhbii-DbgafaGm1PoC13Tp38kcsoBzsREY7ZDRccP5rnyoFq? Builders FirstSource (Apex, NC), Apex. NC - 27523. 9-7-12 19-0-0 28-4-4 37-9-0

Qty

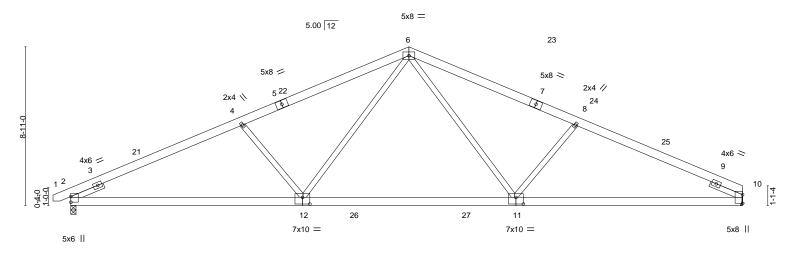
Truss Type

Scale = 1:64.7

MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM

Structural wood sheathing directly applied or 2-7-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



<u> </u>		13-0-10		-		24-11-6 11-10-12		-		12-9-10	
Plate Offsets (X,Y) [1 ⁻	1:0-5-0,0-4-8], [12:0-5-0	,0-4-8]	T						T	
LOADING (ps TCLL 20 TCDL 10 BCLL 0	.ó	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	ВС	0.79 0.85 0.34	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.38 11-12 -0.59 11-12 0.10 10	l/defl >999 >770 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10	.0	Code IRC2015/TP	12014	Matrix	-MS	Wind(LL)	0.09 11-12	>999	240	Weight: 238 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

REACTIONS. (size) 2=0-3-8, 10=Mechanical

Max Horz 2=110(LC 12)

Truss

Max Grav 2=1559(LC 1), 10=1509(LC 1)

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

TOP CHORD 2-4=-2754/169, 4-6=-2436/168, 6-8=-2401/175, 8-10=-2703/172

BOT CHORD 2-12=-97/2454, 11-12=0/1701, 10-11=-84/2402

WEBS 4-12=-537/181, 6-12=-2/832, 6-11=-7/786, 8-11=-508/185

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-11-15, Interior(1) 3-11-15 to 19-0-0, Exterior(2) 19-0-0 to 25-9-7, Interior(1) 25-9-7 to 37-9-0 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.





MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Job Truss Truss Type Qty 175614863 4682535 A03 COMMON Job Reference (optional)

Builders FirstSource (Apex, NC), Apex. NC - 27523.

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:55 2025 Page 1 $ID: 3TtRaskrdZOKr4jVkPWDepyhbii-hnEytwHOojw3fD10csFrP?k8grZ1sxDarG9fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHOojw3fNEyoFq_inftyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDepyhbii-hnEytwHooffyDep$

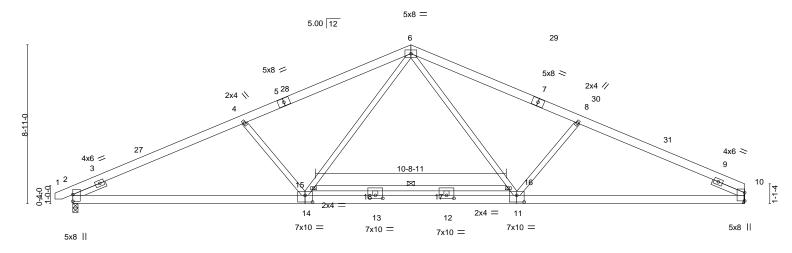
Structural wood sheathing directly applied or 3-1-9 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

9-7-12 19-0-0 28-4-4 37-9-0

Scale = 1:64.7



	13-0-10	17-0-0	21-0-0	24-11-6	1	37-9-0	
	13-0-10	3-11-6	4-0-0	3-11-6		12-9-10	1
Plate Offsets (X,Y)	[11:0-5-0,0-4-8], [12:0-5-0,0-2-0], [14:0-	5-0,0-4-8], [18:0-5-0,0-2-0	0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.79 BC 0.96 WB 0.68 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.57 12-13 0.09 10	l/defl L/d >999 360 >792 240 n/a n/a >999 240	-	GRIP 244/190 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

7-10: 2x6 SP 2400F 2.0E or 2x6 SP DSS **BOT CHORD** 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*

10-11: 2x6 SP No.2

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

REACTIONS. (size) 2=0-3-8, 10=Mechanical

Max Horz 2=110(LC 12)

Max Grav 2=1559(LC 1), 10=1509(LC 1)

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

TOP CHORD 2-4=-2810/170, 4-6=-2549/168, 6-8=-2511/176, 8-10=-2757/174

BOT CHORD 2-14=-99/2513, 13-14=0/1923, 12-13=0/1923, 11-12=0/1923, 10-11=-88/2456 WEBS

6-16=-7/958, 11-16=-14/778, 8-11=-515/187, 14-15=-10/837, 6-15=-2/1016,

4-14=-541/180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-11-15, Interior(1) 3-11-15 to 19-0-0, Exterior(2) 19-0-0 to 25-9-7, Interior(1) 25-9-7 to 37-9-0 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Load case(s) 2, 3, 18, 19, 20, 21, 22, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60, 6-10=-60, 19-23=-20

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6=-50, 6-10=-50, 19-23=-20, 15-16=-30(F)



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Continued on page 2



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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Jol	b	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM	
						I	175614863
46	82535	A03	COMMON	2	1		
						Job Reference (optional)	

Builders FirstSource (Apex, NC)

Apex. NC - 27523.

8.830~s~Jul~24~2025~MiTek~Industries,~Inc.~Wed~Aug~13~12:50:55~2025~Page~2ID:3TtRaskrdZOKr4jVkPWDepyhbii-hnEytwHOojw3fD10csFrP?k8grZ1sxDarG9fNEyoFq_

LOAD CASE(S) Standard

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-6=-20, 6-10=-20, 19-23=-40, 15-16=-40(F)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-6=-20, 6-10=-20, 19-23=-20, 15-16=-40(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-37, 2-6=-40, 6-10=-41, 19-23=-20, 15-16=-30(F)

Horz: 1-2=-13, 2-6=-10, 6-10=9

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-38, 2-6=-41, 6-10=-40, 19-23=-20, 15-16=-30(F)

Horz: 1-2=-12, 2-6=-9, 6-10=10

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-30, 2-4=-34, 4-6=-41, 6-10=-46, 19-23=-20, 15-16=-30(F)

Horz: 1-2=-20, 2-4=-16, 4-6=-9, 6-10=4

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-6=-46, 6-30=-41, 10-30=-34, 19-23=-20, 15-16=-30(F)

Horz: 1-2=-7, 2-6=-4, 6-30=9, 10-30=16

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-50, 6-10=-20, 19-23=-20, 15-16=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-20, 6-10=-50, 19-23=-20, 15-16=-30(F)



August 13,2025

4682535 A04 COMMON 6 1 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

Builders FirstSource (Apex, NC), Apex, NC - 27523,

Builders FirstSource (Apex, NC), Apex, NC - 27523,

10:3TtRaskrdZOKr4jVkPWDepyhbii-hnEytwHOojw3fD10csFrP?k8brgQsxWarG9fNEyoFq_
11-0-0 9-7-12 19-0-0 28-4-4 38-0-0 39-0-0

Qty

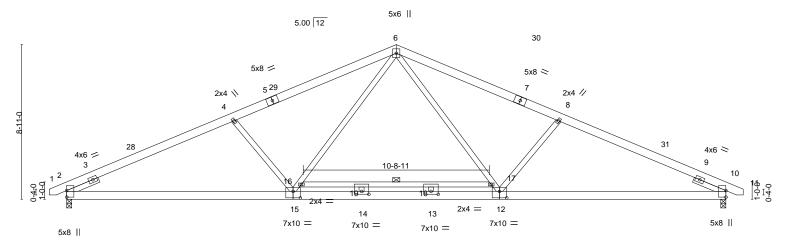
Scale = 1:66.4

MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM

38-0-0

Structural wood sheathing directly applied or 3-1-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



	10 0 10			1700	2100	27 11 0			00 0 0	
	13-0-10		' (3-11-6	4-0-0	3-11-6	1		13-0-10	
s (X,Y)	[12:0-5-0,0-4-8], [13:0-5-0),0-2-0], [15:0-	5-0,0-4-8], [1	9:0-5-0,0-2	-0]					
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.39 13-14	>999	360	MT20	244/190
10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.56 13-14	>821	240		
0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.08 10	n/a	n/a		
10.0	Code IRC2015/TF	PI2014	Matrix	c-MS	Wind(LL)	0.08 13-14	>999	240	Weight: 259 lb	FT = 20%
1	psf) 0.0 0.0 0.0 0.0 *	(X,Y) [12:0-5-0,0-4-8], [13:0-5-0 psf) SPACING- 0.0 Plate Grip DOL 0.0 Lumber DOL 0.0 * Rep Stress Incr	S(X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-0.0] SPACING- 2-0-0 0.0 Plate Grip DOL 1.15 0.0 Lumber DOL 1.15 0.0 Rep Stress Incr NO	S(X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [1 psf) SPACING- 2-0-0 CSI. 0.0 Plate Grip DOL 1.15 TC 0.0 Lumber DOL 1.15 BC 0.0 Rep Stress Incr NO WB	S(X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [19:0-5-0,0-2 psf) SPACING- 2-0-0 CSI. 0.0 Plate Grip DOL 1.15 TC 0.79 0.0 Lumber DOL 1.15 BC 0.49 0.0 Rep Stress Incr NO WB 0.66	S (X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [19:0-5-0,0-2-0] Posf) SPACING- 2-0-0 CSI. DEFL. 0.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) 0.0 Lumber DOL 1.15 BC 0.49 Vert(CT) 0.0 Rep Stress Incr NO WB 0.66 Horz(CT)	S (X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [19:0-5-0,0-2-0] Posf) SPACING- 2-0-0 CSI. DEFL. in (loc) 0.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.39 13-14 0.0 Lumber DOL 1.15 BC 0.49 Vert(CT) -0.56 13-14 0.0 Rep Stress Incr NO WB 0.66 Horz(CT) 0.08 10	S(X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [19:0-5-0,0-2-0] Posf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 0.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.39 13-14 >999 0.0 Lumber DOL 1.15 BC 0.49 Vert(CT) -0.56 13-14 >821 0.0 Rep Stress Incr NO WB 0.66 Horz(CT) 0.08 10 n/a	S (X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [19:0-5-0,0-2-0] Posf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 0.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.39 13-14 >999 360 0.0 Lumber DOL 1.15 BC 0.49 Vert(CT) -0.56 13-14 >821 240 0.0 Rep Stress Incr NO WB 0.66 Horz(CT) 0.08 10 n/a n/a	S (X,Y) [12:0-5-0,0-4-8], [13:0-5-0,0-2-0], [15:0-5-0,0-4-8], [19:0-5-0,0-2-0] Posf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 0.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.39 13-14 >999 360 MT20 0.0 Lumber DOL 1.15 BC 0.49 Vert(CT) -0.56 13-14 >821 240 0.0 Rep Stress Incr NO WB 0.66 Horz(CT) 0.08 10 n/a n/a

BRACING-

WEBS

TOP CHORD

BOT CHORD

21-0-0

24-11-6

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS

Truss

Truss Type

9-4-4

17-0-0

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=-105(LC 17)

Max Grav 2=1568(LC 1), 10=1568(LC 1)

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

TOP CHORD 2-4=-2830/168, 4-6=-2570/169, 6-8=-2570/169, 8-10=-2830/168

13-0-10

BOT CHORD 2-15=-79/2532, 14-15=0/1949, 13-14=0/1949, 12-13=0/1949, 10-12=-79/2532 WEBS 6-17=-2/1009, 12-17=-10/829, 8-12=-542/180, 15-16=-10/829, 6-16=-2/1009,

4-15=-542/180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-11-15, Interior(1) 3-11-15 to 19-0-0, Exterior(2) 19-0-0 to 25-9-7, Interior(1) 25-9-7 to 38-9-10 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Load case(s) 2, 3, 18, 19, 20, 21, 22, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 20-24=-20

 Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-50, 6-11=-50, 20-24=-20, 16-17=-30(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-6=-20, 6-11=-20, 20-24=-40, 16-17=-40(F)



August 13,2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM	
4000505	404	COMMON			175	5614864
4682535	A04	COMMON	ь	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex. NC - 27523.

 $8.830~\mathrm{s}$ Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:55 2025 Page 2 ID:3TtRaskrdZOKr4jVkPWDepyhbii-hnEytwHOojw3fD10csFrP?k8brgQsxWarG9fNEyoFq_

LOAD CASE(S) Standard

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-6=-20, 6-11=-20, 20-24=-20, 16-17=-40(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-37, 2-6=-40, 6-10=-41, 10-11=-38, 20-24=-20, 16-17=-30(F)

Horz: 1-2=-13, 2-6=-10, 6-10=9, 10-11=12

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-38, 2-6=-41, 6-10=-40, 10-11=-37, 20-24=-20, 16-17=-30(F)

Horz: 1-2=-12, 2-6=-9, 6-10=10, 10-11=13

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-30, 2-4=-34, 4-6=-41, 6-10=-46, 10-11=-43, 20-24=-20, 16-17=-30(F)

Horz: 1-2=-20, 2-4=-16, 4-6=-9, 6-10=4, 10-11=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-6=-46, 6-8=-41, 8-10=-34, 10-11=-30, 20-24=-20, 16-17=-30(F)

Horz: 1-2=-7, 2-6=-4, 6-8=9, 8-10=16, 10-11=20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-50, 6-11=-20, 20-24=-20, 16-17=-30(F)

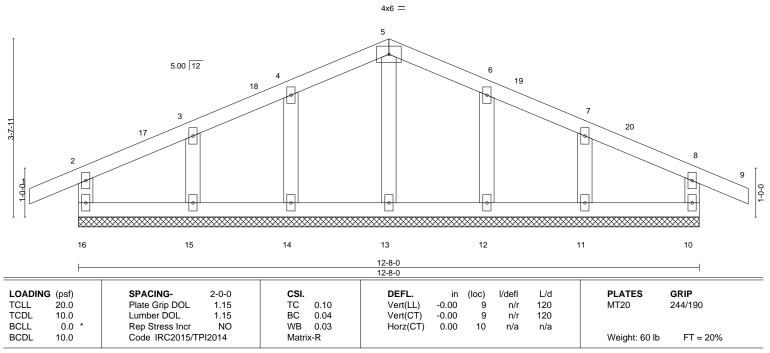
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-20, 6-11=-50, 20-24=-20, 16-17=-30(F)



Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM	
						175614865
4682535	B01G	GABLE	1	1		
					Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		8	.830 s Jul	24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:56 202	25 Page 1
			ID:3TtRaskrdZOI	(r4jVkPWD	Depyhbii-9zoL4FI1Y12wGMcCAZm4xDGU8F6dbYZk4wu	CugyoFpz
-1-0-0	6-	4-0			12-8-0	13-8-0
1-0-0	6-	4-0			6-4-0	1-0-0

Scale = 1:23.5



LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 **WEBS OTHERS** 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS. All bearings 12-8-0.

(lb) - Max Horz 16=21(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 3-9-10, Exterior(2) 3-9-10 to 6-4-0, Corner(3) 6-4-0 to 11-1-10, Exterior(2) 11-1-10 to 13-8-0 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
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 20.0psf 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12. 11.





Truss Type MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Truss Qty 175614866 4682535 B02 COMMON 3 Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:57 2025 Page 1 ID:3TtRaskrdZOKr4jVkPWDepyhbii-dALjlblfJKAnuWBOkHHJUQpSifNLK_xtJaelQ6yoFpy Builders FirstSource (Apex, NC), Apex, NC - 27523 -1-0-0 12-8-0 13-8-0 6-4-0 1-0-0 6-4-0 1-0-0

Scale = 1:25.4

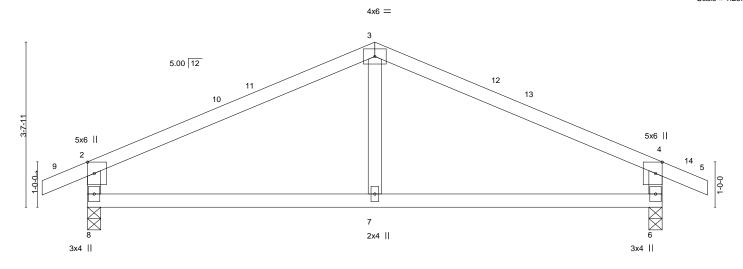


Plate Off	fsets (X,Y)	[2:0-3-0,0-1-12], [4:0-3-0,0-	1-12]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-MR	Wind(LL)	0.01	7-8	>999	240	Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

12-8-0

6-4-0

except end verticals.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

WEBS

Job

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

2x4 SP No.3 REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-31(LC 17)

Max Uplift 8=-32(LC 12), 6=-32(LC 13) Max Grav 8=564(LC 1), 6=564(LC 1)

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

TOP CHORD 2-8=-488/154, 2-3=-597/99, 3-4=-597/99, 4-6=-488/154

BOT CHORD 7-8=-19/472, 6-7=-19/472

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 3-9-10, Interior(1) 3-9-10 to 6-4-0, Exterior(2) 6-4-0 to 13-1-7, Interior(1) 13-1-7 to 13-8-0 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

6-4-0

6-4-0

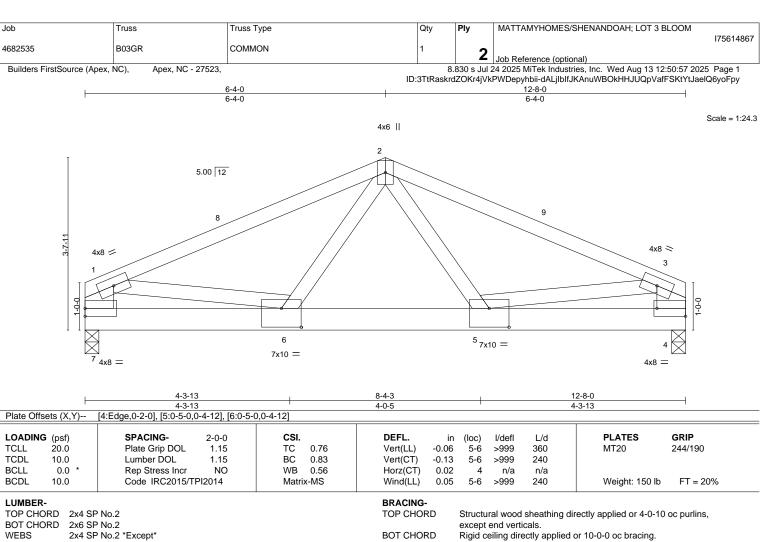


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BOT CHORD

1-7,3-4: 2x8 SP 2400F 2.0E or 2x8 SP DSS

REACTIONS. (size) 7=0-3-8, 4=0-3-8

Max Horz 7=-22(LC 9)

Max Uplift 7=-402(LC 8), 4=-402(LC 9) Max Grav 7=5264(LC 15), 4=5268(LC 15)

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

TOP CHORD 1-7=-3587/297, 1-2=-6752/507, 2-3=-6750/507, 3-4=-3590/297

BOT CHORD 6-7=-171/1391, 5-6=-339/4664, 4-5=-150/1392

WEBS 2-5=-191/2895, 3-5=-344/4878, 2-6=-191/2895, 1-6=-343/4878

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x8 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-6-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=402, 4=402.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-7=-775(F=-755)



August 13,2025

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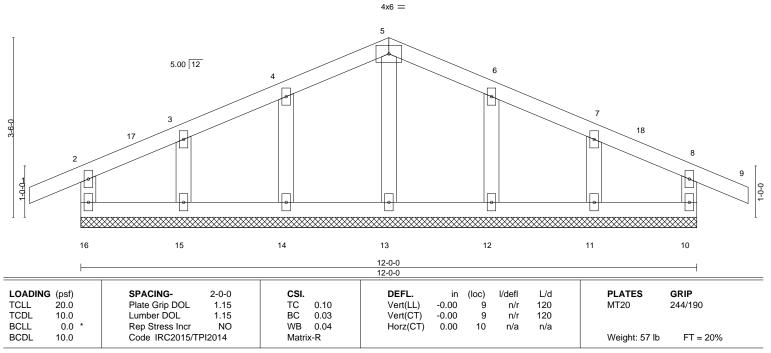
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						175614868
4682535	B04G	GABLE	1	1		
					Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		8.	830 s Jul 2	24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:58	3 2025 Page 1
			ID:3TtRaskrdZC	Kr4jVkPW	/Depyhbii-6Mv5VxJH4eleWgmbl_oY0eLqe2oD3S21	XENJzZyoFpx
-1-0-0	6-	-0-0			12-0-0	13-0-0
1-0-0	6-	-0-0			6-0-0	1-0-0

Scale = 1:22 4



LUMBER-**BRACING-**

Truss Type

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **WEBS**

OTHERS 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS. All bearings 12-0-0.

(lb) - Max Horz 16=-19(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 4-0-0, Exterior(2) 4-0-0 to 6-0-0, Corner(3) 6-0-0 to 10-9-10, Exterior(2) 10-9-10 to 13-0-0 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
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 20.0psf 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



August 13,2025

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MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Job Truss Truss Type Qty 175614869 4682535 B05GR COMMON Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:58 2025 Page 1 Builders FirstSource (Apex, NC), Apex. NC - 27523. ID:3TtRaskrdZOKr4jVkPWDepyhbii-6Mv5VxJH4eleWgmbl_oY0eLhB2ci3K61XENJzZyoFpx 6-0-0 12-0-0 6-0-0 Scale = 1:22.3 4x6 = 5.00 12 8x12 =3 6 5 7x10 = 7x10 =4-1-3 7-10-13 12-0-0 4-1-3 3-9-11 4-1-3 Plate Offsets (X,Y)-[3:Edge,0-7-0], [5:0-5-0,0-4-8], [6:0-5-0,0-4-8], [7:Edge,0-7-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.065-6 >999 244/190 360 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.77 Vert(CT) -0.125-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.54 Horz(CT) 0.01 4 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-MS Wind(LL) 5-6 >999 240 Weight: 141 lb FT = 20%0.04 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, BOT CHORD 2x6 SP No.2 except end verticals. WEBS 2x4 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 1-7,3-4: 2x6 SP No.2 REACTIONS. (size) 7=0-3-8, 4=0-3-8 Max Horz 7=20(LC 8) Max Uplift 7=-385(LC 8), 4=-385(LC 9) Max Grav 7=5036(LC 15), 4=5040(LC 15)

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

TOP CHORD 1-7=-3428/284, 1-2=-6438/484, 2-3=-6436/484, 3-4=-3431/284

BOT CHORD 6-7=-159/1272, 5-6=-325/4465, 4-5=-140/1273

WEBS 2-5=-181/2751, 3-5=-331/4704, 2-6=-181/2751, 1-6=-330/4705

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)
- gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=385, 4=385.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-7=-775(F=-755)



August 13,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Truss Type MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Job Truss Qty 175614870 4682535 P01G GABLE Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:58 2025 Page 1 ID:3TtRaskrdZOKr4jVkPWDepyhbii-6Mv5VxJH4eleWgmbl_oY0eLoS2mz3Sb1XENJzZyoFpx Builders FirstSource (Apex, NC), Apex. NC - 27523. -1-0-0 4-9-0 1-0-0 Scale = 1:14 4 12 2x4 || 5.00 12 0-4-1 2x4 || 2x4 II 2x4 = 0-4-8 4-9-0 4-4-8 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL Vert(LL) 360 244/190 1.15 TC 0.24 -0.01 4-11 >999 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.03

0.00

0.01

4-11

4-11

2

>999

>999

except end verticals.

n/a

240

n/a

240

Structural wood sheathing directly applied or 4-9-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 20 lb

FT = 20%

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

(size) 2=0-3-0, 4=Mechanical

Max Horz 2=71(LC 11)

Max Uplift 2=-28(LC 12), 4=-18(LC 12) Max Grav 2=273(LC 1), 4=155(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

1.15

YES

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 3-9-10, Interior(1) 3-9-10 to 4-7-4 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

BC

WB

Matrix-MP

0.18

0.00

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/SH	HENANDOAH; LOT 3 BLOOM	175614871
4682535	P02	MONO TRUSS	5	1	Job Reference (optional	M)	1/56148/1
Builders FirstSource (Apex	, NC), Apex, NC - 27523,		8	.830 s Jul		s, Inc. Wed Aug 13 12:50:59 20)25 Page 1
			ID:3TtRaskrd	ZOKr4jVkF	WDepyhbii-aYTTiHKvry	QV7qLnrhKnZruzBS6CovrAmu	7sV?yoFpw
	-1-0-0 1-0-0	+	4-9-0 4-9-0				
	1-0-0		4-9-0				
							Scale = 1:14.4
Ţ					2	3 (4	
					10		
		5.0	0 12				
2-3-13							
7			/ /				
	2	/ /					
- 4-0 - 1-4-0							
ا ف	1 /						
		N/I				4	
		X				•	
		2x4 =				2x4	
		284 —					
		0-4-8	4-9-0				
		0-4-8	4-4-8			<u> </u>	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	l/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15		Vert(LL) -0.01		>999 360	MT20 244/190)
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.03	3 4-9	>999 240		
BCLL 0.0 *	Rep Stress Incr YES		Horz(CT) 0.00		n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.01	4-9	>999 240	Weight: 19 lb FT =	20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-0, 4=Mechanical

Max Horz 2=71(LC 11)

Max Uplift 2=-28(LC 12), 4=-18(LC 12) Max Grav 2=273(LC 1), 4=155(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 3-9-10, Interior(1) 3-9-10 to 4-7-4 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.





Structural wood sheathing directly applied or 4-9-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Truss Type MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Job Truss Qty 175614872 4682535 P03GR MONO TRUSS Job Reference (optional) Apex. NC - 27523 Builders FirstSource (Apex, NC), 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:50:59 2025 Page 1 ID: 3TtRaskrdZOKr4jVkPWDepyhbii-aYTTiHKvryQV7qLnrhKnZruxiS?bovrAmu7sV?yoFpwlibii-aYTTiHKvryQV7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhKnZruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qLnrhXruxiS?bovrAmu7sVY7qUNZYY7qLnrhXruxiS?bovrAmu7sVY7qUNZYY7qUNZYY7qLnrhXruxiS?bovrAmu7sVY7qUNZY-1-0-0 4-9-0 1-0-0 Scale = 1:14 4 5.00 12 0-4-1 2x4 II 3x4 =0-4-8 4-9-0 4-4-8 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. I/defl L/d in (loc) TCLL 20.0 Plate Grip DOL Vert(LL) >999 360 244/190 1 15 TC 0.34 -0.044-9 MT20 TCDL 10.0 BC 0.60 Vert(CT) -0.08>674 240 Lumber DOL 1.15 4-9 WB 0.00 Horz(CT) **BCLL** 0.0 Rep Stress Incr NO 0.00 2 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.03

4-9

>999

except end verticals.

240

Structural wood sheathing directly applied or 4-9-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 19 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

10.0

2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-0, 4=Mechanical

Max Horz 2=95(LC 7)

Max Uplift 2=-64(LC 8), 4=-33(LC 8) Max Grav 2=459(LC 1), 4=311(LC 1)

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

Code IRC2015/TPI2014

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 6-0-0 end setback.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 4-5=-124(F=-104), 1-2=-60, 2-3=-30(F=30)





Truss Type MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Job Truss Qty 175614873 4682535 P04 JACK Job Reference (optional) 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:51:00 2025 Page 1 ID:3TtRaskrdZOKr4jVkPWDepyhbii-2l1rwdLXcFZMI_wzPPr063R9lsUGXL5J?YsP1RyoFpv Builders FirstSource (Apex, NC), Apex. NC - 27523. -1-0-0 2-0-0 1-0-0 2-0-0 Scale = 1:8.7 5.00 12 1-2-1 1-2-1 2 0-9-10 0-4-1 4 2x4 = 0-4-82-0-0 1-7-8 0-4-8 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL I/defl L/d in (loc) TCLL 20.0 Plate Grip DOL TC 360 244/190 1 15 0.09Vert(LL) -0.00 5 >999 MT20 TCDL 10.0 BC 0.06 Vert(CT) -0.00>999 240 Lumber DOL 1.15 5 WB 0.00 Horz(CT) **BCLL** 0.0 Rep Stress Incr NO -0.003 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-MP Wind(LL) 0.00 5 >999 240 Weight: 8 lb FT = 20%LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 2=0-3-0 Max Horz 2=39(LC 12)

Max Uplift 3=-13(LC 12), 2=-27(LC 8)

Max Grav 3=27(LC 1), 4=24(LC 3), 2=196(LC 1)

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

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-63(F=-3), 4-5=-21(F=-1)



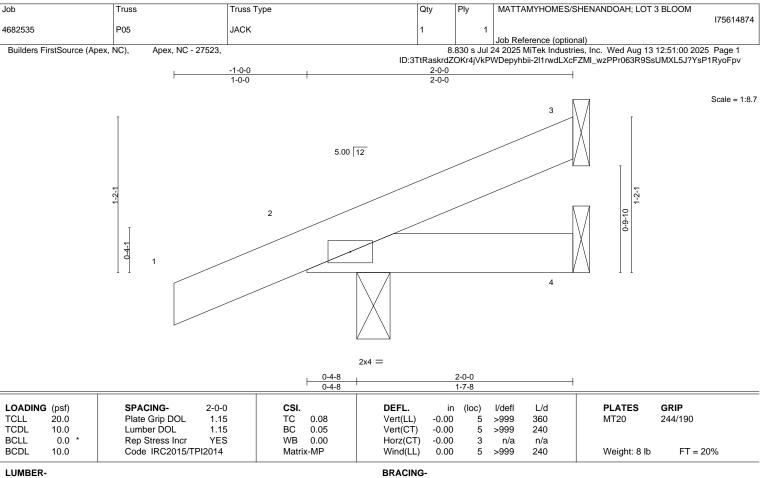
August 13,2025

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TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 3=Mechanical, 4=Mechanical, 2=0-3-0 (size)

Max Horz 2=36(LC 12)

Max Uplift 3=-11(LC 12), 2=-26(LC 8)

Max Grav 3=25(LC 1), 4=23(LC 3), 2=191(LC 1)

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

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Structural wood sheathing directly applied or 2-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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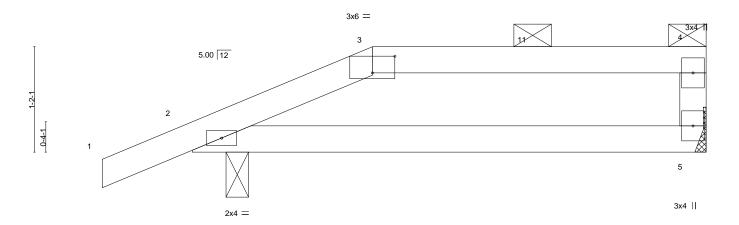
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JOD	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOK	/I
4682535	P06GR	MONO HIP	1	1		I75614875
4002000	T GOOK	Micros I III		<u> </u>	Job Reference (optional)	
Builders FirstSource (Apex, I	NC), Apex, NC - 27523	1	8	.830 s Jul 2	24 2025 MiTek Industries, Inc. Wed Aug 13 12:51:01	2025 Page 1
			ID:3TtRaskrdZOKr4	jVkPWDep	oyhbii-WxbD7zM9NZhCN8VAz6MFeGzEPGnsGoKT[OCczZuyoFpu
	-1-0-0	2-0-0			5-8-8	
	1-0-0	2-0-0			3-8-8	

Scale = 1:12.8



	0-4-	-8	1-7-8					3-8-8			
ts (X,Y)	[3:0-3-0,0-2-4]										
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
20.Ó	Plate Grip DOL	1.15	TC 0).45	Vert(LL)	-0.01	Š-1Ó	>999	360	MT20	244/190
10.0	Lumber DOL	1.15	BC 0).23	Vert(CT)	-0.02	5-10	>999	240		
0.0 *	Rep Stress Incr	NO	WB 0	0.00	Horz(CT)	0.00	5	n/a	n/a		
10.0	Code IRC2015	/TPI2014	Matrix-N	ИR	Wind(LL)	-0.00	5-10	>999	240	Weight: 20 lb	FT = 20%
	(psf) 20.0 10.0 0.0 *	(psf) SPACING-Plate Grip DOL Lumber DOL Rep Stress Incr	(psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0 * Rep Stress Incr NO	(psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC (10.0 Lumber DOL 1.15 BC (0.0 * Rep Stress Incr NO WB (O-4-8 1-7-8	O-4-8	O-4-8	O-4-8	1-7-8 3-8-8	O-4-8 1-7-8 3-8-8	O-4-8 O-4-

BRACING-

TOP CHORD

BOT CHORD

5-8-8

Structural wood sheathing directly applied or 5-8-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-TOP CHORD

REACTIONS.

2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 WEBS

(size) 5=Mechanical, 2=0-3-0

Max Horz 2=37(LC 5)

Max Uplift 5=-18(LC 5), 2=-34(LC 8) Max Grav 5=207(LC 1), 2=321(LC 1)

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

0-4-8

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2-0-0

- 2) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

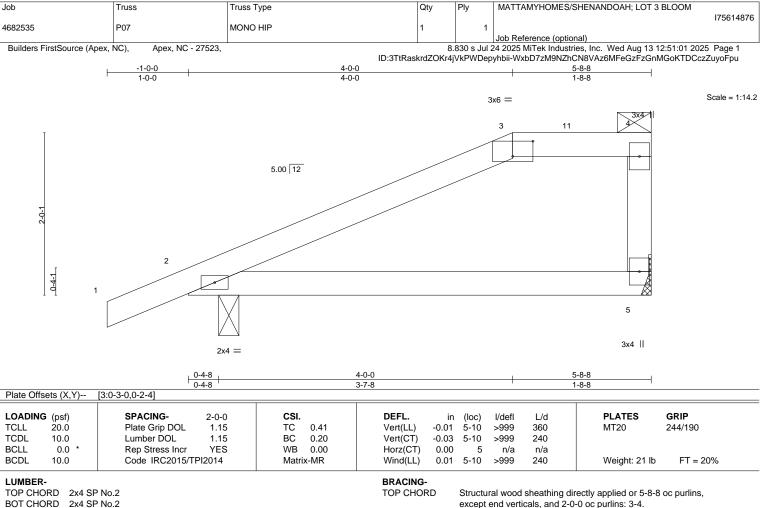
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-63(F=-3), 3-4=-63(F=-3), 5-6=-21(F=-1)







BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS REACTIONS.

(size) 5=Mechanical, 2=0-3-0

Max Horz 2=63(LC 11) Max Uplift 5=-13(LC 9), 2=-32(LC 12) Max Grav 5=196(LC 1), 2=309(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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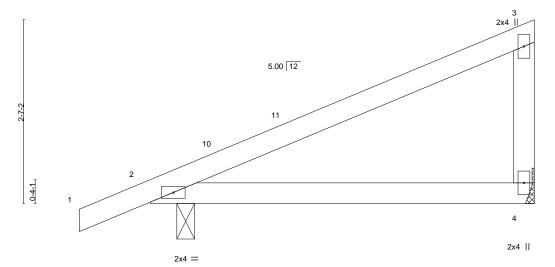
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Truss Type MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM Job Truss Qty 175614877 4682535 P08 GABLE 3 Job Reference (optional) Builders FirstSource (Apex, NC), Apex. NC - 27523.

8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:51:01 2025 Page 1 ID:3TtRaskrdZOKr4jVkPWDepyhbii-WxbD7zM9NZhCN8VAz6MFeGzG4GnZGoKTDCczZuyoFpu -1-0-0 5-5-0 1-0-0

Scale = 1:16.2



0-4-8 5-5-0 0-4-8 5-0-8

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL		in (loc	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(I	.L) -0.	02 4-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(0	CT) -0.	05 4-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT) 0.	00 2	2 n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-MP	Wind	LL) 0.	02 4-9	>999	240	Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-0, 4=Mechanical

Max Horz 2=80(LC 11)

Max Uplift 2=-29(LC 12), 4=-22(LC 12) Max Grav 2=298(LC 1), 4=184(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-3-4 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 5-5-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

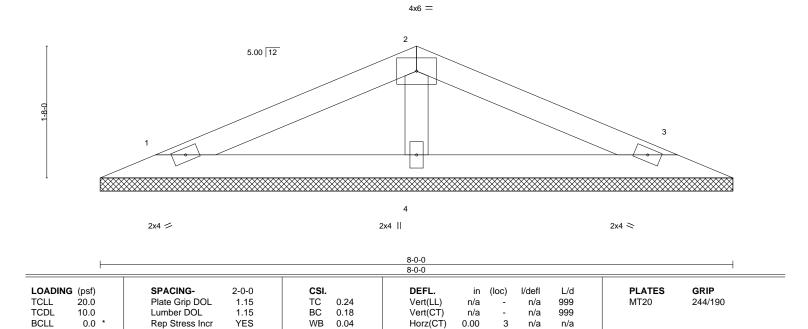
except end verticals.



ı							•	175614878
ı	4682535	V01		VALLEY	-	1	1	
ı								Job Reference (optional)
	Builders FirstSource (Apex,	NC),	Apex, NC - 27523,			8.8	330 s Jul 2	24 2025 MiTek Industries, Inc. Wed Aug 13 12:51:02 2025 Page 1
					ID:3TtF	RaskrdZO	Kr4jVkPW	Depyhbii79cLJMn8tp3_H4MXqtUBUWTRg7r?FzcSsLW6KyoFpt
4-0-0		-0-0	8-0-0					
4-0-0		-0-0	4-0-0					

Scale = 1:14.6

MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

Job

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

10.0

REACTIONS. (size) 1=8-0-0, 3=8-0-0, 4=8-0-0

Max Horz 1=18(LC 16)

Truss

Truss Type

Max Uplift 1=-12(LC 12), 3=-16(LC 13)

Max Grav 1=118(LC 23), 3=118(LC 24), 4=294(LC 1)

Code IRC2015/TPI2014

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

Matrix-S

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



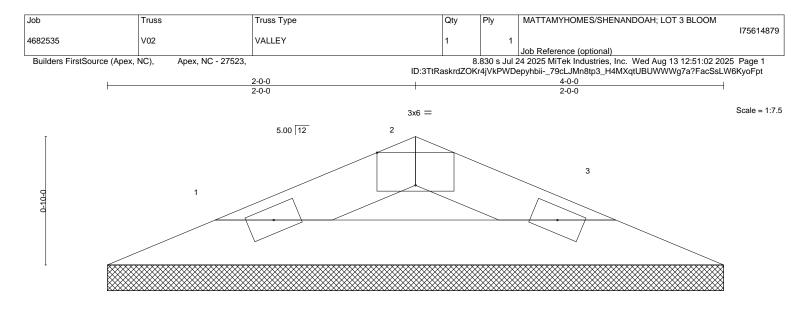
Weight: 24 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 20%





2x4 / 2x4 >

4-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-3-0.Edge]

1 1010 0110010 (71)17	[2.0 0 0,2090]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 10 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3 **BRACING-**

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

REACTIONS. (size) 1=4-0-0, 3=4-0-0

Max Horz 1=-7(LC 13)

Max Uplift 1=-4(LC 12), 3=-4(LC 13)

Max Grav 1=102(LC 1), 3=102(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





175614880 4682535 V03 VALLEY Job Reference (optional) Builders FirstSource (Apex, NC), Apex. NC - 27523. 8.830 s Jul 24 2025 MiTek Industries, Inc. Wed Aug 13 12:51:03 2025 Page 1 ID:3TtRaskrdZOKr4jVkPWDepyhbii-SKj_YfNQvAxwcRfY4XOjjh3dJ3SUki8mhW54emyoFps 4-4-0 8-8-0 4-4-0

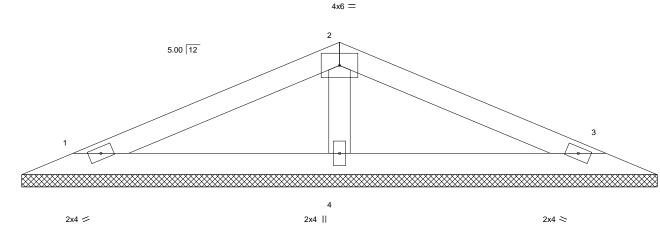
Qty

Scale = 1:15.7

MATTAMYHOMES/SHENANDOAH; LOT 3 BLOOM

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



				8-8-0	!
LOADING TCLL	20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.30	DEFL. in (loc) l/defl L/d PLATES Vert(LL) n/a - n/a 999 MT20	GRIP 244/190
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.22 WB 0.04	Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 26	6 lb FT = 20%

8-8-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

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

REACTIONS. (size) 1=8-8-0, 3=8-8-0, 4=8-8-0

Max Horz 1=20(LC 16)

Truss

Truss Type

Max Uplift 1=-14(LC 12), 3=-17(LC 13)

Max Grav 1=129(LC 23), 3=129(LC 24), 4=324(LC 1)

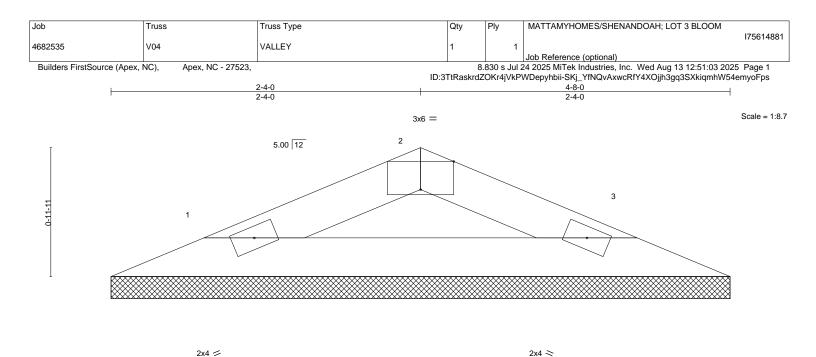
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







			4-8-0									
						4-8-0						1
Plate Offs	sets (X,Y)	[2:0-3-0,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-8-0, 3=4-8-0

Max Horz 1=-9(LC 13)

Max Uplift 1=-5(LC 12), 3=-5(LC 13)

Max Grav 1=128(LC 1), 3=128(LC 1)

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

NOTES-

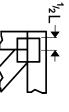
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



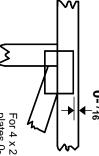


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

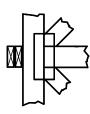
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur. Min size shown is for crushing only.

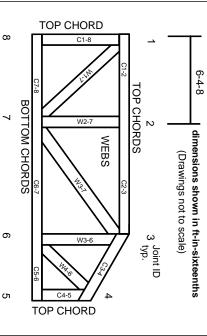
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek®



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ 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.

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- 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/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 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.
- 15. 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/TPI 1 Quality Criteria.
 The design does not take into account any dynamic

or other loads other than those expressly stated.