ENGINEERING BY TRENCO
A MiTek Affiliate

RE: 4682488
MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: 4682488
Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-10 Wind Speed: 115 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

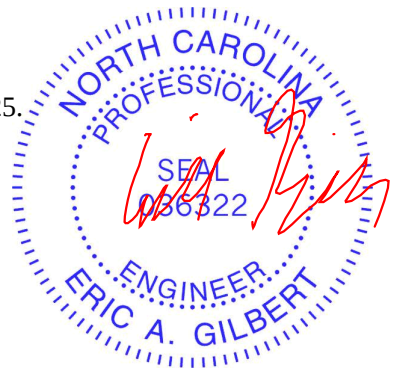
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I74026494	A01G	6/9/2025	21	I74026514	B03G	6/9/2025
2	I74026495	A02	6/9/2025	22	I74026515	B04GR	6/9/2025
3	I74026496	A03	6/9/2025	23	I74026516	B05G	6/9/2025
4	I74026497	A04	6/9/2025	24	I74026517	B06GR	6/9/2025
5	I74026498	A05	6/9/2025	25	I74026518	G01G	6/9/2025
6	I74026499	A05A	6/9/2025	26	I74026519	G02	6/9/2025
7	I74026500	A06T	6/9/2025	27	I74026520	G03	6/9/2025
8	I74026501	A07T	6/9/2025	28	I74026521	MR01GR	6/9/2025
9	I74026502	A08	6/9/2025	29	I74026522	MR02	6/9/2025
10	I74026503	A09G	6/9/2025	30	I74026523	MR03GR	6/9/2025
11	I74026504	A10G	6/9/2025	31	I74026524	MR04GR	6/9/2025
12	I74026505	A11	6/9/2025	32	I74026525	MR05	6/9/2025
13	I74026506	A12G	6/9/2025	33	I74026526	MR06	6/9/2025
14	I74026507	A13	6/9/2025	34	I74026527	MR07	6/9/2025
15	I74026508	A14	6/9/2025	35	I74026528	V01	6/9/2025
16	I74026509	A15	6/9/2025	36	I74026529	V02	6/9/2025
17	I74026510	A16	6/9/2025	37	I74026530	V03	6/9/2025
18	I74026511	A17G	6/9/2025	38	I74026531	V04	6/9/2025
19	I74026512	B01G	6/9/2025	39	I74026532	V05	6/9/2025
20	I74026513	B02	6/9/2025	40	I74026533	V06	6/9/2025

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

Truss Design Engineer's Name: Gilbert, Eric

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

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.

June 09, 2025

Gilbert, Eric

ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 4682488 - MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM

Site Information:

Project Customer: Project Name: 4682488
Lot/Block: Subdivision:
Address:
City, County: State:

No.	Seal#	Truss Name	Date
41	I74026534	V07	6/9/2025

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A01G	Monopitch Supported Gable	1	1	I74026494 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:06 Page: 1
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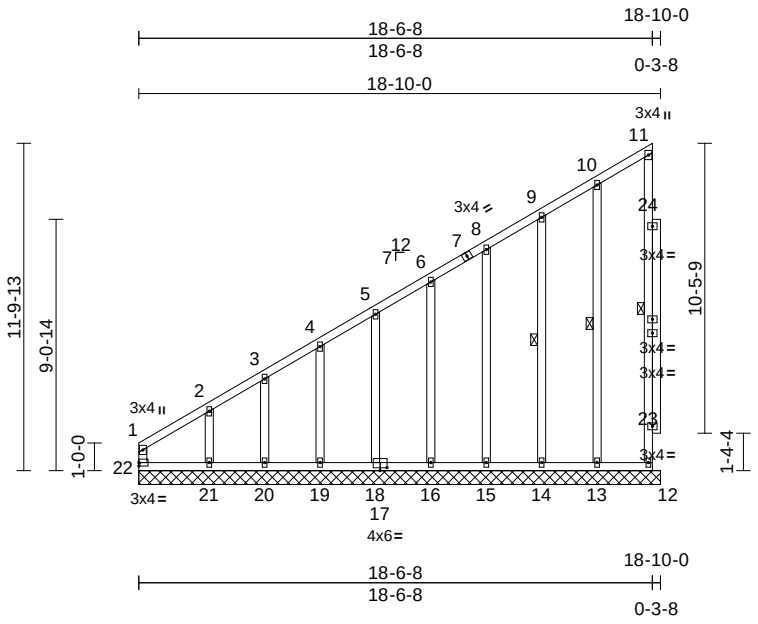

Scale = 1:83.2

Plate Offsets (X, Y): [17:0-3-0,0-1-4]

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	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 160 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 11-12:2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 23-24:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-12, 10-13, 9-14

REACTIONS (size) 12=18-10-0, 13=18-10-0, 14=18-10-0, 15=18-10-0, 16=18-10-0, 18=18-10-0, 19=18-10-0, 20=18-10-0, 21=18-10-0, 22=18-10-0
Max Horiz 22=342 (LC 9)
Max Uplift 12=-22 (LC 9), 13=-28 (LC 12), 14=-34 (LC 12), 15=-36 (LC 12), 16=-35 (LC 12), 18=-32 (LC 12), 19=-45 (LC 12), 21=-174 (LC 12), 22=-110 (LC 10)
Max Grav 12=695 (LC 19), 13=183 (LC 19), 14=155 (LC 19), 15=163 (LC 19), 16=163 (LC 19), 18=160 (LC 19), 19=171 (LC 19), 20=147 (LC 1), 21=277 (LC 19), 22=260 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-283/241, 1-2=-487/470, 2-3=-386/375, 3-4=-363/361, 4-5=-321/324, 5-6=-283/292, 6-8=-243/259, 8-9=-204/226, 9-10=-171/201, 10-11=-137/154, 11-12=-668/79
BOT CHORD 21-22=-138/167, 20-21=-138/167, 19-20=-138/167, 18-19=-138/167, 16-18=-138/167, 15-16=-138/167, 14-15=-138/167, 13-14=-138/167, 12-13=-138/167
WEBS 10-13=-172/94, 9-14=-113/67, 8-15=-124/58, 6-16=-122/59, 5-18=-121/58, 4-19=-126/64, 3-20=-111/40, 2-21=-229/170

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 3-1-12, Exterior (2) 3-1-12 to 18-4-12 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 3-06-00 tall by 2-00-00 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 110 lb uplift at joint 22, 22 lb uplift at joint 12, 28 lb uplift at joint 13, 34 lb uplift at joint 14, 36 lb uplift at joint 15, 35 lb uplift at joint 16, 32 lb uplift at joint 18, 45 lb uplift at joint 19 and 174 lb uplift at joint 21.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-11=-60, 12-22=-20
Concentrated Loads (lb)
Vert: 11=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A02	Monopitch	4	1	I74026495 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:07 Page: 1
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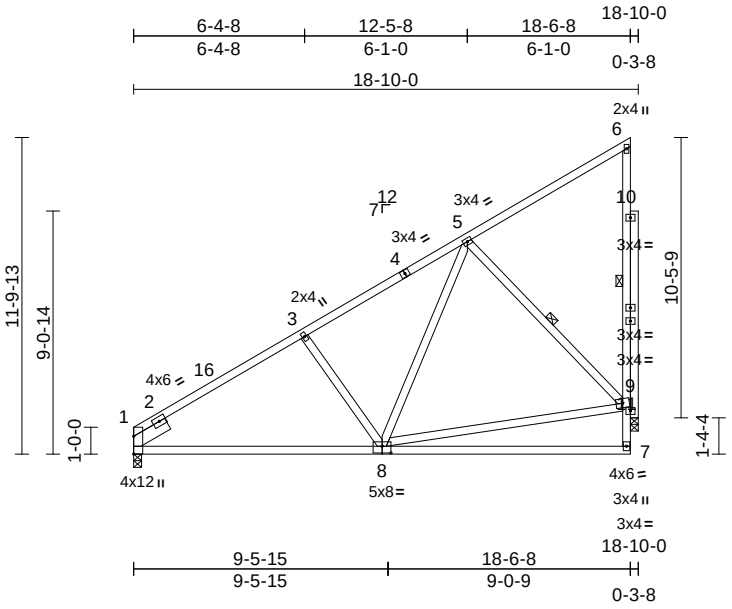

Scale = 1:86

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

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	0.80	Vert(LL)	-0.15	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.32	7-8	>700	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	8-14	>999	240	Weight: 137 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-9, 6-7

REACTIONS (size) 1=0-3-8, 11=0-3-8
Max Horiz 1=337 (LC 11)
Max Uplift 1=-7 (LC 12), 11=-170 (LC 12)
Max Grav 1=736 (LC 1), 11=1391 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-920/74, 3-5=-738/103, 5-6=-181/135, 7-11=0/161, 9-11=-1264/227, 6-9=-778/91
BOT CHORD 1-7=-397/802
WEBS 5-8=-20/467, 3-8=-303/160, 8-9=-290/628, 5-9=-608/179

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 18-4-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 170 lb uplift at joint 11.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 6=-605

June 9,2025

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A03	Monopitch	2	1	I74026496 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:07 Page: 1
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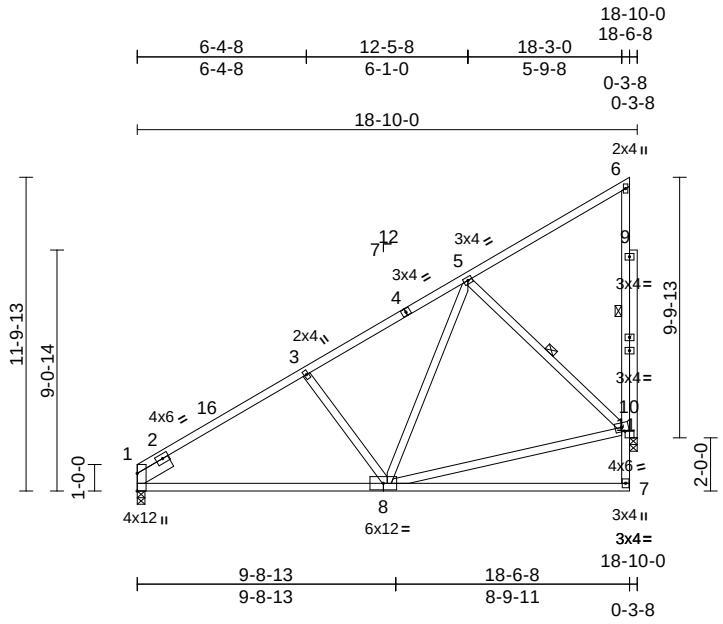

Scale = 1:86.8

Plate Offsets (X, Y): [10:0-1-8,0-1-13]

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	0.76	Vert(LL)	-0.16	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.32	7-8	>686	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	8-14	>999	240	Weight: 135 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 5-10

REACTIONS (size) 1=0-3-8, 11=0-3-8
Max Horiz 1=337 (LC 11)
Max Uplift 1=-7 (LC 12), 11=-170 (LC 12)
Max Grav 1=736 (LC 1), 11=1391 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-921/74, 3-5=-738/103, 5-6=-177/136, 7-11=0/160, 10-11=-1206/217, 6-10=-779/91
BOT CHORD 1-7=-397/803
WEBS 3-8=-303/160, 5-8=-13/450, 8-10=-245/585, 5-10=-599/177

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 18-4-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 170 lb uplift at joint 11.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 6=-605

June 9,2025

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A04	Monopitch	8	1	I74026497 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:08 Page: 1
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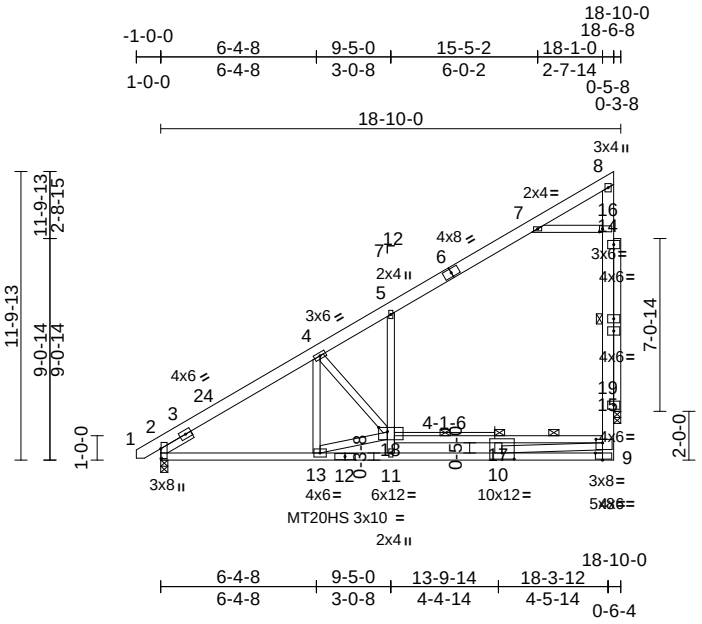

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Plate Offsets (X, Y): [2:0-4-14,0-0-2], [9:0-3-8,Edge], [15:0-3-4,0-1-12], [16:0-1-8,0-1-8], [17:0-6-0,0-3-0], [18:0-4-4,0-2-4]

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	0.69	Vert(LL)	-0.30	11-13	>737	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.57	11	>385	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.05	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.28	11-13	>778	240	Weight: 168 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 12-2:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 8-9:2x6 SP 2400F 2.0E or 2x6 SP DSS, 15-10:2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING
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.
WEBS 1 Row at midpt 8-9
WEBS 3 Rows at 1/4 pts 15-18

REACTIONS (size) 2=0-3-8, 19=0-3-8
Max Horiz 2=340 (LC 11)
Max Uplift 2=-27 (LC 12), 19=-191 (LC 12)
Max Grav 2=870 (LC 1), 19=1663 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-4=-1108/69, 4-5=-452/60, 5-7=-316/111, 7-8=-223/762, 9-15=0/113, 15-19=-16/641, 16-19=-1022/175, 8-16=-1008/170
BOT CHORD 2-13=-365/941, 11-13=-385/2688, 10-11=-395/2753, 9-10=-892/178
WEBS 11-18=-158/151, 5-18=0/210, 17-18=-2528/434, 15-17=-2524/433, 7-16=-828/294, 10-17=-260/40, 4-13=-76/725, 13-18=-1820/271, 4-18=-1051/243, 10-15=-445/3673

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 18-3-12 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2 and 191 lb uplift at joint 19.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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 (lb/ft)
Vert: 1-8=-60, 9-20=-20, 17-18=-40 (F), 15-17=-40 (F)
Concentrated Loads (lb)
Vert: 8=-605

June 9,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A05	Monopitch	2	1	I74026498 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:08 Page: 1
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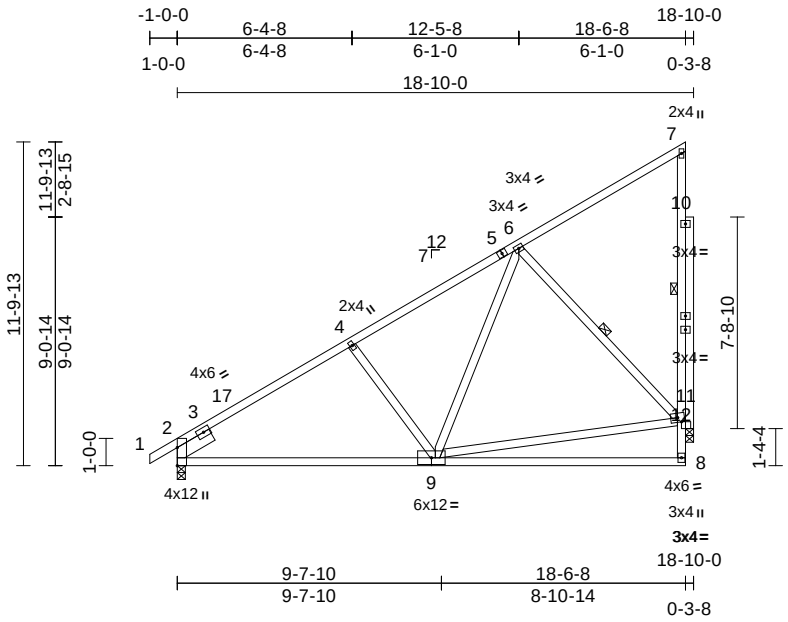

Scale = 1:84.1

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

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	0.84	Vert(LL)	-0.15	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.32	8-9	>700	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	9-15	>999	240	Weight: 139 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 6-11

REACTIONS (size) 2=0-3-8, 12=0-3-8
Max Horiz 2=345 (LC 11)
Max Uplift 2=-22 (LC 12), 12=-169 (LC 12)
Max Grav 2=797 (LC 1), 12=1390 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-4=-916/70, 4-6=-734/100, 6-7=-183/138, 8-12=0/162, 11-12=-1197/239, 7-11=-779/90
BOT CHORD 2-8=-401/800
WEBS 4-9=-299/160, 6-9=-21/471, 9-11=-299/628, 6-11=-611/179

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 18-4-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2 and 169 lb uplift at joint 12.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 7=-605

June 9,2025

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A05A	Monopitch	1	1	I74026499 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:09 Page: 1

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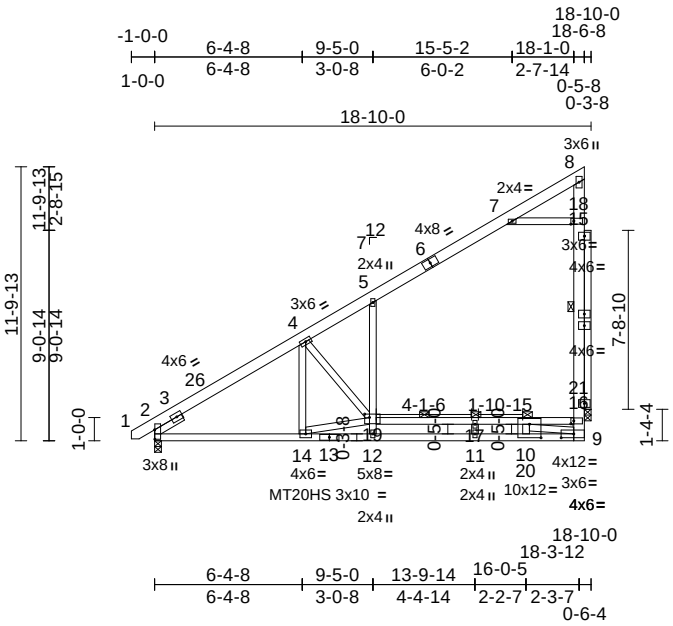

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Plate Offsets (X, Y): [2:0-4-14,0-0-2], [9:0-6-8,0-2-0], [10:0-6-0,0-7-0], [16:0-1-8,0-1-8], [18:0-1-8,0-1-8], [19:0-2-8,0-1-12]

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	0.89	Vert(LL)	-0.39	12-14	>570	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.74	12-14	>298	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.07	21	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.37	12-14	>601	240	Weight: 166 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 13-9:2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS
WEBS 2x4 SP No.3 *Except* 9-8:2x6 SP 2400F 2.0E or 2x6 SP DSS, 19-16:2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 1-5-1

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.
WEBS 1 Row at midpt 8-9
WEBS 3 Rows at 1/4 pts 16-19

REACTIONS (size) 2=0-3-8, 21=0-3-8
Max Horiz 2=340 (LC 11)
Max Uplift 2=-27 (LC 12), 21=-191 (LC 12)
Max Grav 2=870 (LC 1), 21=1663 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-4=-1122/70, 4-5=-504/66, 5-7=-321/112, 7-8=-246/887, 9-16=-28/530, 16-21=-8/602, 18-21=-1060/183, 8-18=-1044/178
BOT CHORD 2-14=-366/952, 12-14=-350/2493, 11-12=-363/2576, 10-11=-363/2576, 9-10=-363/2576
WEBS 12-19=-279/156, 5-19=0/300, 17-19=-2320/397, 17-20=-2355/401, 16-20=-170/1041, 11-17=-30/210, 7-18=-974/324, 4-14=-63/656, 14-19=-1584/230, 4-19=-1056/245, 10-20=-13/171, 9-20=-3415/361

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 18-3-12 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2 and 191 lb uplift at joint 21.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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 (lb/ft)
Vert: 1-8=-60, 9-22=-20, 17-19=-40 (F), 17-20=-40 (F), 16-20=-40 (F)
Concentrated Loads (lb)
Vert: 8=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A06T	Monopitch	1	1	I74026500 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:09 Page: 1
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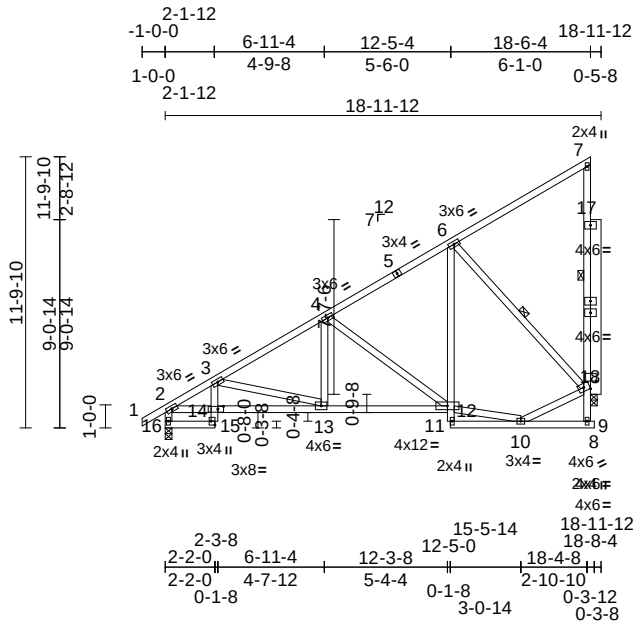

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Plate Offsets (X, Y): [14:0-3-0,0-1-8], [15:Edge,0-2-0], [18:0-3-0,0-4-0]

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	0.70	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.13	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.13	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	-0.07	9-10	>999	240	Weight: 157 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 15-3,11-6:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 7-9:2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-11-3 oc bracing: 13-14.
WEBS 1 Row at midpt 7-9, 6-18

REACTIONS (size) 16=0-3-8, 18=0-3-8
Max Horiz 16=351 (LC 9)
Max Uplift 16=-24 (LC 12), 18=-164 (LC 12)
Max Grav 16=811 (LC 1), 18=1378 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1188/64, 3-4=-1021/45, 4-6=-585/98, 6-7=-184/166, 9-18=-71/76, 7-18=-795/98, 2-16=-774/63
BOT CHORD 15-16=-299/359, 14-15=-49/75, 3-14=-26/70, 13-14=-435/1311, 12-13=-234/916, 11-12=-80/72, 6-12=-6/393, 10-11=-128/219, 9-10=-53/117, 8-9=0/0
WEBS 2-14=-85/946, 4-13=-5/291, 4-12=-507/113, 3-13=-409/208, 10-12=-17/287, 10-18=-152/475, 6-18=-627/166

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-1-12, Interior (1) 2-1-12 to 18-4-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 16 and 164 lb uplift at joint 18.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-7=-60, 15-16=-20, 12-14=-20, 8-11=-20
Concentrated Loads (lb)
Vert: 7=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A07T	Monopitch	5	1	I74026501 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:09 Page: 1
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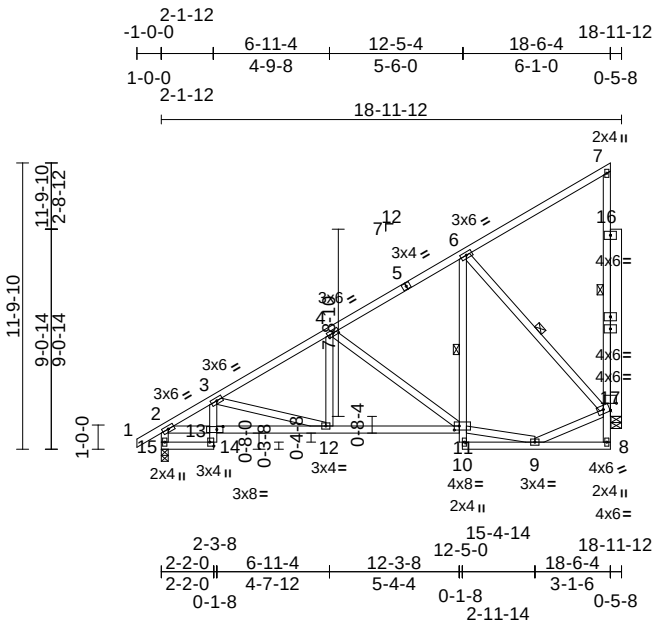

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Plate Offsets (X, Y): [11:0-2-8,0-2-0], [13:0-3-0,0-1-8], [14:Edge,0-2-0], [17:0-3-0,0-3-8]

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	0.72	Vert(LL)	0.06	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.11	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.13	17	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	-0.08	8-9	>999	240	Weight: 157 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 14-3:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 7-8:2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-11-0 oc bracing: 12-13.
WEBS 1 Row at midpt 7-8, 6-10, 6-17

REACTIONS (size) 15=0-3-8, 17=0-5-4
Max Horiz 15=351 (LC 11)
Max Uplift 15=-24 (LC 12), 17=-168 (LC 12)
Max Grav 15=811 (LC 1), 17=1372 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1188/65, 3-4=-1018/45, 4-6=-591/98, 6-7=-186/169, 8-17=-67/71, 7-17=-795/99, 2-15=-774/63
BOT CHORD 14-15=-298/358, 13-14=-50/75, 3-13=-26/69, 12-13=-438/1314, 11-12=-230/911, 9-10=-103/189, 8-9=-67/127
WEBS 2-13=-86/947, 10-11=-68/66, 6-11=-13/396, 4-12=0/296, 4-11=-494/107, 3-12=-416/215, 9-11=-51/329, 9-17=-136/452, 6-17=-650/171

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-1-12, Interior (1) 2-1-12 to 18-4-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 15 and 168 lb uplift at joint 17.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-7=-60, 14-15=-20, 11-13=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A08	Monopitch	1	1	I74026502 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:10 Page: 1
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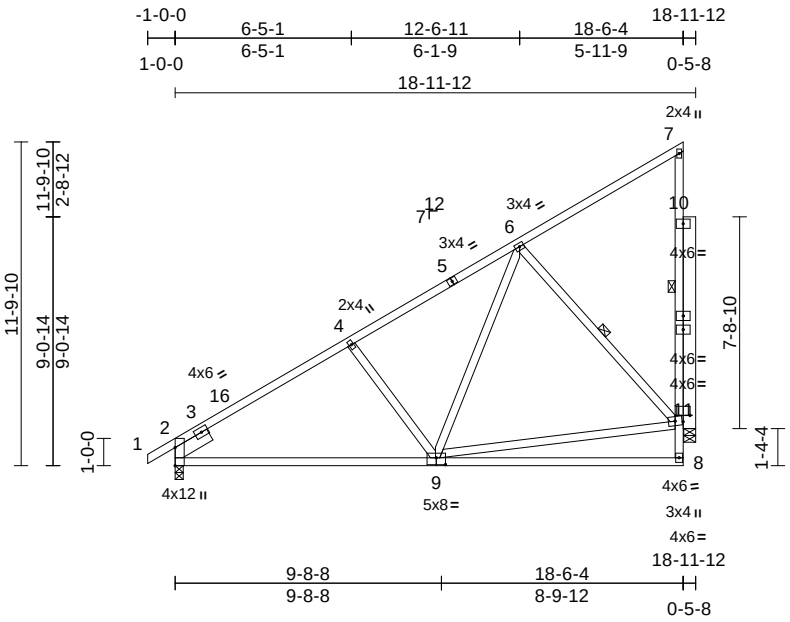

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Plate Offsets (X, Y): [9:0-4-0,0-3-0], [11:0-3-0,0-2-12]

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	0.91	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.26	8-9	>840	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	9-14	>999	240	Weight: 145 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-4

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 6-11

REACTIONS (size) 2=0-3-8, 11=0-5-4
Max Horiz 2=345 (LC 11)
Max Uplift 2=-23 (LC 12), 11=-168 (LC 12)
Max Grav 2=807 (LC 1), 11=1378 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-4=-928/73, 4-6=-736/100, 6-7=-191/137, 8-11=0/167, 7-11=-773/88
BOT CHORD 2-8=-405/808
WEBS 4-9=-306/161, 6-9=-18/483, 9-11=-264/512, 6-11=-621/175

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 18-4-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2 and 168 lb uplift at joint 11.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-60, 8-12=-20
Concentrated Loads (lb)
Vert: 7=-605

June 9,2025

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A09G	Monopitch Supported Gable	1	1	I74026503 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:10 Page: 1
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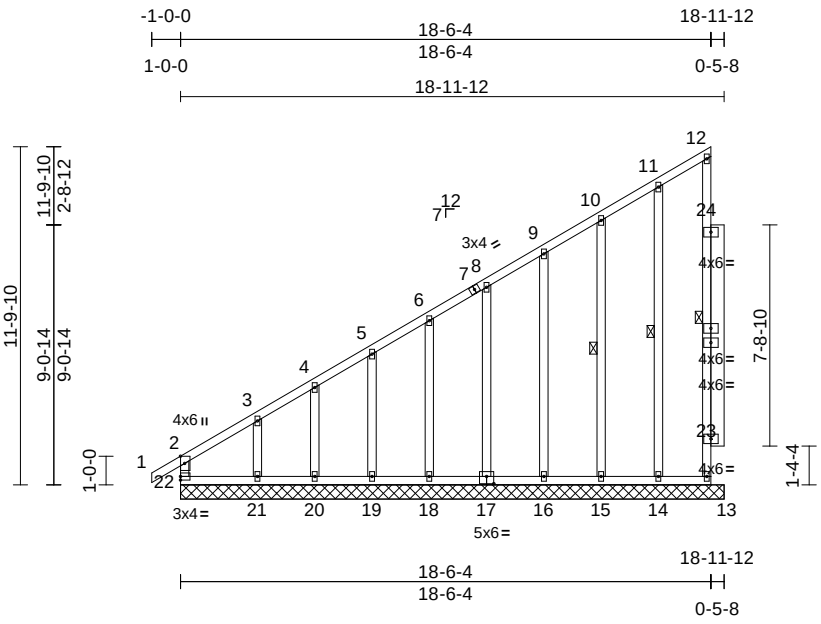

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Plate Offsets (X, Y): [2:0-3-0,Edge], [17:0-3-0,0-3-0]

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	0.75	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 169 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 12-13:2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 23-24:2x6 SP No.2

BRACING
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.
WEBS 1 Row at midpt 12-13, 11-14, 10-15

REACTIONS (size) 13=18-11-12, 14=18-11-12, 15=18-11-12, 16=18-11-12, 17=18-11-12, 18=18-11-12, 19=18-11-12, 20=18-11-12, 21=18-11-12, 22=18-11-12
Max Horiz 22=351 (LC 9)
Max Uplift 13=-24 (LC 12), 14=-22 (LC 12), 15=-35 (LC 12), 16=-35 (LC 12), 17=-35 (LC 12), 18=-32 (LC 12), 19=-45 (LC 12), 21=-170 (LC 12), 22=-81 (LC 8)
Max Grav 13=686 (LC 19), 14=177 (LC 19), 15=157 (LC 19), 16=163 (LC 19), 17=163 (LC 19), 18=160 (LC 19), 19=170 (LC 19), 20=152 (LC 1), 21=261 (LC 19), 22=282 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-22=-276/194, 1-2=0/35, 2-3=-490/471, 3-4=-380/370, 4-5=-361/359, 5-6=-318/321, 6-8=-280/289, 8-9=-240/257, 9-10=-201/223, 10-11=-170/197, 11-12=-141/159, 12-13=-664/80
BOT CHORD 21-22=-137/166, 20-21=-137/166, 19-20=-137/166, 18-19=-137/166, 16-18=-137/166, 15-16=-137/166, 14-15=-137/166, 13-14=-137/166
WEBS 11-14=-160/86, 10-15=-114/64, 9-16=-123/58, 8-17=-122/59, 6-18=-122/57, 5-19=-126/65, 4-20=-115/39, 3-21=-240/189

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 18-4-8 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 3-06-00 tall by 2-00-00 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 81 lb uplift at joint 22, 24 lb uplift at joint 13, 22 lb uplift at joint 14, 35 lb uplift at joint 15, 35 lb uplift at joint 16, 35 lb uplift at joint 17, 32 lb uplift at joint 18, 45 lb uplift at joint 19 and 170 lb uplift at joint 21.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

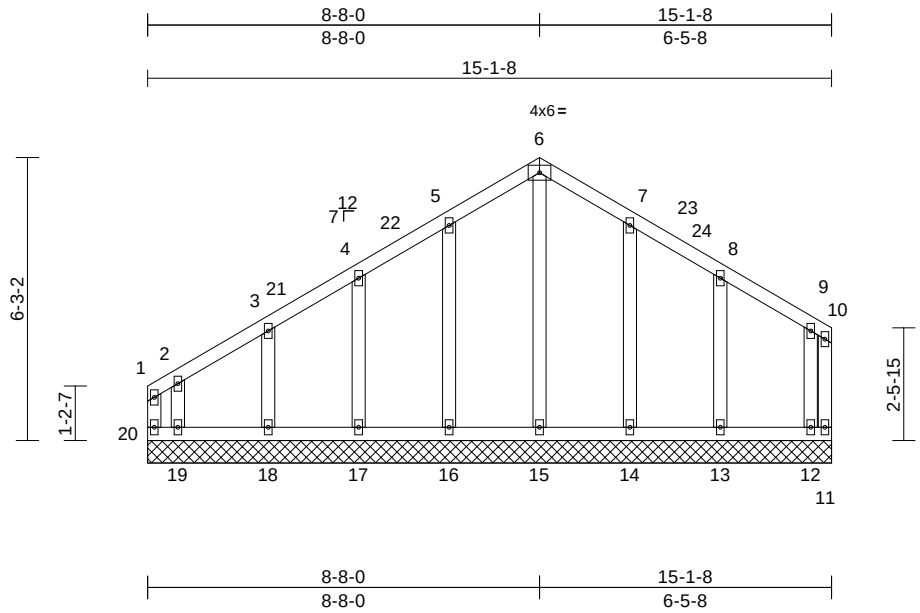
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-12=-60, 13-22=-20
Concentrated Loads (lb)
Vert: 12=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM I74026504
4682488	A10G	Common	2	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:10 Page: 1
ID:v5s7p0VN15_6goUaqUHsdUz9J1_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 93 lb	FT = 20%

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

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

REACTIONS (size) 11=15-1-8, 12=15-1-8, 13=15-1-8, 14=15-1-8, 15=15-1-8, 16=15-1-8, 17=15-1-8, 18=15-1-8, 19=15-1-8, 20=15-1-8
Max Horiz 20=139 (LC 9)
Max Uplift 11=-112 (LC 11), 12=-83 (LC 8), 13=-40 (LC 13), 14=-34 (LC 13), 16=-35 (LC 12), 17=-36 (LC 12), 18=-33 (LC 12), 19=-211 (LC 9), 20=-245 (LC 10)
Max Grav 11=82 (LC 8), 12=195 (LC 20), 13=170 (LC 20), 14=167 (LC 24), 15=154 (LC 19), 16=171 (LC 19), 17=160 (LC 19), 18=166 (LC 1), 19=281 (LC 10), 20=264 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-159/144, 2-3=-111/98, 3-4=-100/94, 4-5=-96/104, 5-6=-129/135, 6-7=-129/133, 7-8=-96/94, 8-9=-60/59, 9-10=-38/35, 1-20=-149/134, 10-11=-32/28
BOT CHORD 19-20=-37/35, 18-19=-37/35, 17-18=-37/35, 16-17=-37/35, 15-16=-37/35, 14-15=-37/35, 13-14=-37/35, 12-13=-37/35, 11-12=-37/35
WEBS 6-15=-114/34, 5-16=-131/60, 4-17=-119/59, 3-18=-127/61, 2-19=-158/110, 7-14=-128/58, 8-13=-130/65, 9-12=-103/54

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-5-15 to 3-5-15, Interior (1) 3-5-15 to 9-0-3, Exterior (2) 9-0-3 to 12-0-3, Interior (1) 12-0-3 to 15-3-15 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 3-06-00 tall by 2-00-00 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 245 lb uplift at joint 20, 112 lb uplift at joint 11, 35 lb uplift at joint 16, 36 lb uplift at joint 17, 33 lb uplift at joint 18, 211 lb uplift at joint 19, 34 lb uplift at joint 14, 40 lb uplift at joint 13 and 83 lb uplift at joint 12.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A11	Common	24	1	I74026505 Job Reference (optional)

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

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:11 Page: 1
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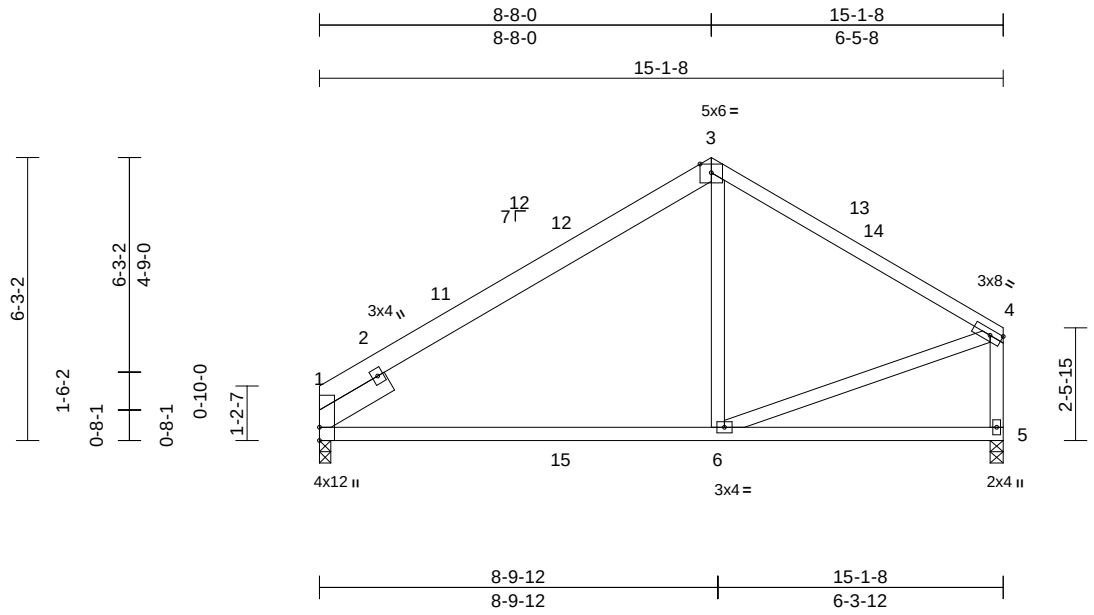

Scale = 1:51

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	0.54	Vert(LL)	-0.09	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.20	6-9	>903	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	6-9	>999	240	Weight: 83 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 3-4:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 5-4:2x4 SP No.2

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

REACTIONS (size) 1=0-3-0, 5=0-3-8
Max Horiz 1=134 (LC 11)
Max Uplift 1=-18 (LC 12), 5=-9 (LC 13)
Max Grav 1=605 (LC 19), 5=599 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-627/63, 3-4=-594/65, 4-5=-555/64
BOT CHORD 1-6=-146/473, 5-6=-30/66
WEBS 3-6=0/220, 4-6=0/469

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-0, Exterior (2) 8-8-0 to 11-8-0, Interior (1) 11-8-0 to 14-11-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 9 lb uplift at joint 5.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A12G	Monopitch Supported Gable	1	1	I74026506 Job Reference (optional)

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

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:11 Page: 1
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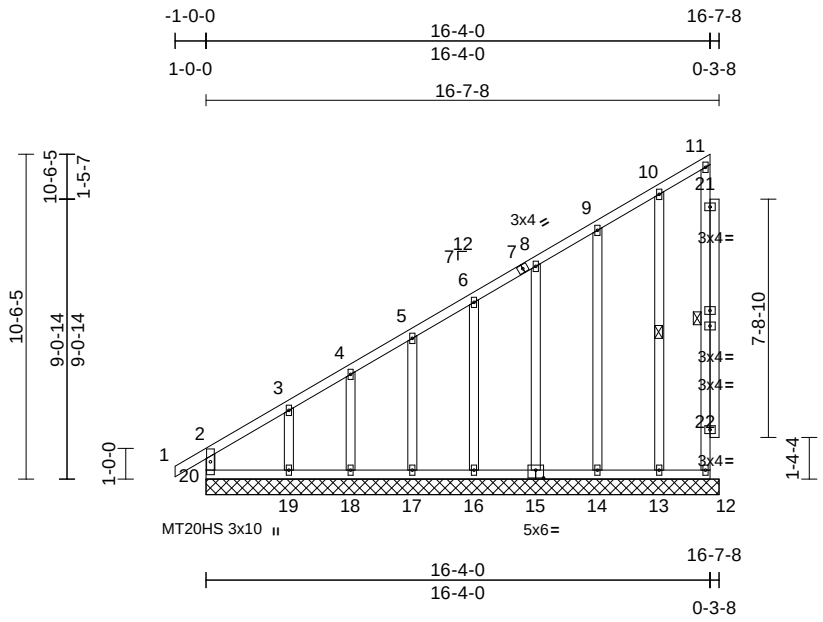

Scale = 1:74.7

Plate Offsets (X, Y): [15:0-3-0,0-3-0]

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	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 139 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3 *Except* 21-22:2x4 SP No.2

BRACING
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.
WEBS 1 Row at midpt 10-13, 11-12

REACTIONS (size) 12=16-7-8, 13=16-7-8, 14=16-7-8, 15=16-7-8, 16=16-7-8, 17=16-7-8, 18=16-7-8, 19=16-7-8, 20=16-7-8
Max Horiz 20=312 (LC 9)
Max Uplift 12=-24 (LC 9), 13=-32 (LC 12), 14=-33 (LC 12), 15=-36 (LC 12), 16=-32 (LC 12), 17=-44 (LC 12), 19=-155 (LC 12), 20=-67 (LC 8)
Max Grav 12=706 (LC 19), 13=169 (LC 19), 14=157 (LC 19), 15=163 (LC 19), 16=161 (LC 19), 17=169 (LC 19), 18=152 (LC 1), 19=253 (LC 19), 20=263 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-20=-240/161, 1-2=0/35, 2-3=-434/420, 3-4=-330/325, 4-5=-309/312, 5-6=-266/275, 6-8=-227/243, 8-9=-188/209, 9-10=-150/182, 10-11=-129/145, 11-12=-684/88
BOT CHORD 19-20=-126/155, 18-19=-126/155, 17-18=-126/155, 16-17=-126/155, 14-16=-126/155, 13-14=-126/155, 12-13=-126/155
WEBS 10-13=-151/78, 9-14=-114/63, 8-15=-124/58, 6-16=-121/58, 5-17=-126/64, 4-18=-115/42, 3-19=-228/176

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 16-2-4 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 MT20 plates unless otherwise indicated.
5) All plates are 2x4 (||) MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 12, 67 lb uplift at joint 20, 32 lb uplift at joint 13, 33 lb uplift at joint 14, 36 lb uplift at joint 15, 32 lb uplift at joint 16, 44 lb uplift at joint 17 and 155 lb uplift at joint 19.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 651 lb down and 51 lb up at 16-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-11=-60, 12-20=-20
Concentrated Loads (lb)
Vert: 11=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A13	Monopitch	3	1	I74026507 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:11 Page: 1
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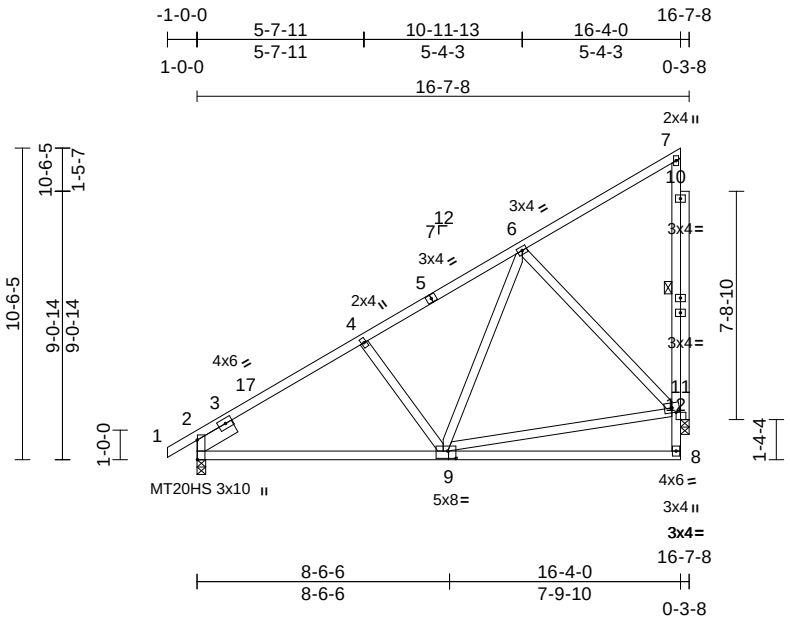

Scale = 1:77.9

Plate Offsets (X, Y): [2:0-7-15,Edge], [9:0-3-5,0-3-0], [11:0-1-12,0-1-12]

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	0.43	Vert(LL)	-0.07	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.15	8-9	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	9-15	>999	240	Weight: 124 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 7-8:2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-3

BRACING
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.
WEBS 1 Row at midpt 7-8

REACTIONS (size) 2=0-3-8, 12=0-3-8
Max Horiz 2=306 (LC 11)
Max Uplift 2=-20 (LC 12), 12=-156 (LC 12)
Max Grav 2=709 (LC 1), 12=1298 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-4=-782/69, 4-6=-614/91, 6-7=-162/123, 8-12=0/133, 11-12=-1131/206, 7-11=-759/84
BOT CHORD 2-8=-357/694
WEBS 4-9=-261/140, 6-9=-12/392, 9-11=-241/550, 6-11=-528/155

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 16-2-4 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2 and 156 lb uplift at joint 12.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 16-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 7=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A14	Monopitch	1	1	I74026508 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:11 Page: 1
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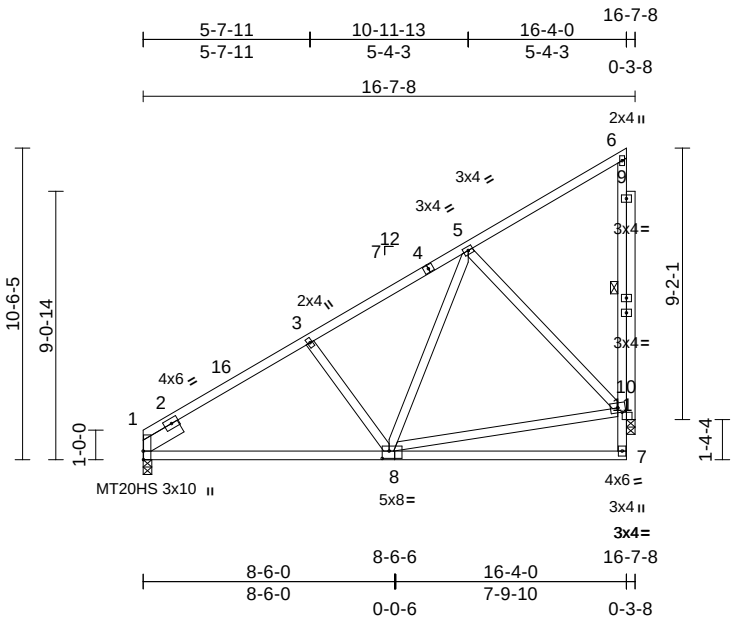


Scale = 1:77.9

Plate Offsets (X, Y): [1:0-3-8,Edge], [8:0-2-13,0-3-0], [10:0-1-12,0-1-12]

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	0.49	Vert(LL)	-0.07	7-8	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.15	7-8	>999	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	8-14	>999	240	Weight: 122 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-3

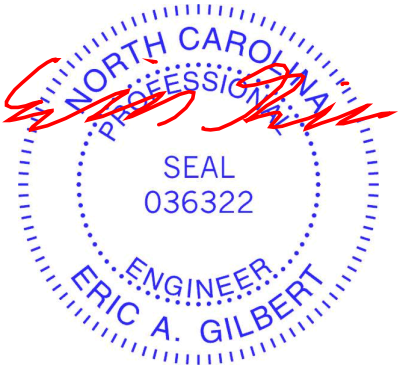
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-7

REACTIONS (size) 1=0-3-8, 11=0-3-8
Max Horiz 1=299 (LC 11)
Max Uplift 1=-6 (LC 12), 11=-160 (LC 12)
Max Grav 1=648 (LC 1), 11=1346 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-787/73, 3-5=-619/94, 5-6=-163/123, 7-11=0/133, 10-11=-1176/207, 6-10=-805/88
BOT CHORD 1-7=-353/697
WEBS 3-8=-265/140, 5-8=-12/393, 8-10=-240/553, 5-10=-530/155

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 16-2-4 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1 and 160 lb uplift at joint 11.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 668 lb down and 55 lb up at 16-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 6=-650



June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A15	Jack-Closed	16	1	I74026509 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:12 Page: 1
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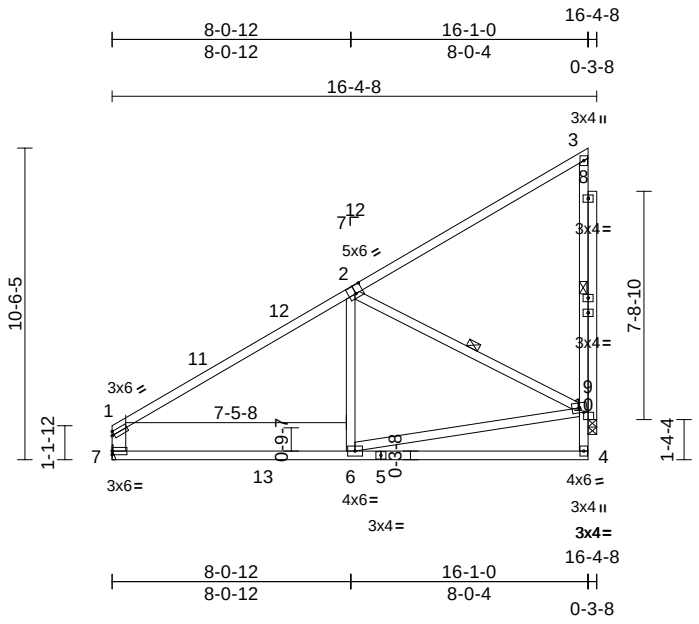

Scale = 1:77.9

Plate Offsets (X, Y): [2:0-3-0,0-3-4], [9:0-1-12,0-1-12]

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	0.90	Vert(LL)	-0.10	4-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.24	4-6	>795	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	-0.04	4-6	>999	240	Weight: 112 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 7-1:2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
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.
WEBS 1 Row at midpt 3-4, 2-9

REACTIONS (size) 7= Mechanical, 10=0-3-8
Max Horiz 7=303 (LC 9)
Max Uplift 10=-78 (LC 12)
Max Grav 7=628 (LC 1), 10=1347 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-531/72, 1-3=-747/148, 4-10=0/144, 9-10=-1176/239, 3-9=-855/116
BOT CHORD 6-7=-184/622, 4-6=-94/95
WEBS 2-6=0/261, 6-9=-287/715, 2-9=-639/117

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-5-12 to 3-5-12, Interior (1) 3-5-12 to 16-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 10.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 651 lb down and 51 lb up at 16-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-7=-20
Concentrated Loads (lb)
Vert: 3=-605

June 9,2025

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A16	Jack-Closed	4	1	I74026510 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:12 Page: 1
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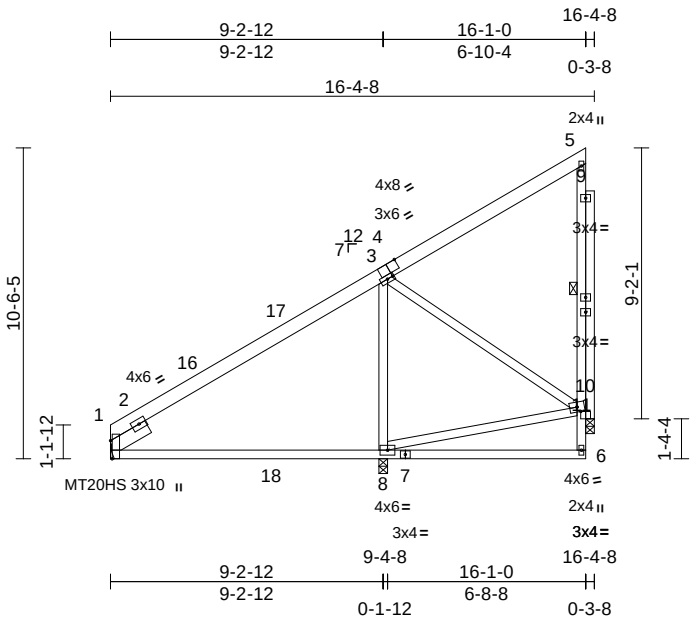

Scale = 1:78

Plate Offsets (X, Y): [1:0-7-6,Edge], [4:0-4-0,Edge], [10:0-1-8,0-1-12]

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	0.48	Vert(LL)	-0.11	8-14	>986	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.23	8-14	>484	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	8-14	>999	240	Weight: 127 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
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.
WEBS 1 Row at midpt 5-6

REACTIONS (size) 1= Mechanical, 8=0-3-8, 11=0-3-8
Max Horiz 1=295 (LC 11)
Max Uplift 1=-83 (LC 12), 8=-23 (LC 10), 11=-211 (LC 12)
Max Grav 1=621 (LC 19), 8=224 (LC 21), 11=1359 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-631/185, 3-5=-196/126, 6-11=0/103, 10-11=-1232/297, 5-10=-812/86
BOT CHORD 1-8=-396/643, 6-8=-106/75
WEBS 3-8=-97/184, 8-10=-364/766, 3-10=-651/264

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-3-0 to 3-3-0, Interior (1) 3-3-0 to 16-2-4 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 1, 23 lb uplift at joint 8 and 211 lb uplift at joint 11.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 668 lb down and 55 lb up at 16-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 6-12=-20
Concentrated Loads (lb)
Vert: 5=-650

June 9,2025

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	A17G	Monopitch	1	1	I74026511 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:12 Page: 1
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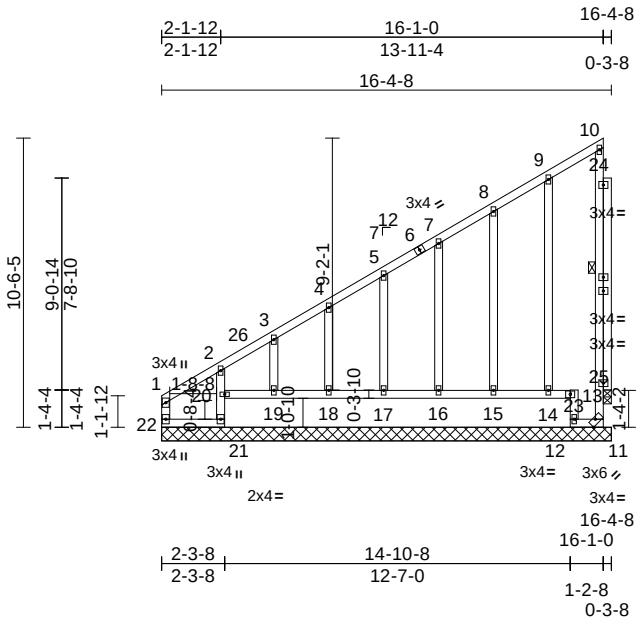

Scale = 1:83.9

Plate Offsets (X, Y): [11:0-3-0,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	0.41	Vert(LL)	0.00	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	0.00	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	-0.07	25	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 127 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 21-2,23-12:2x4 SP No.3
WEBS 2x4 SP No.2 *Except* 22-1:2x4 SP No.3
OTHERS 2x4 SP No.3 *Except* 25-24:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-11

REACTIONS (size) 11=16-4-8, 12=16-4-8, 13=16-4-8, 14=16-4-8, 15=16-4-8, 16=16-4-8, 17=16-4-8, 18=16-4-8, 19=16-4-8, 20=16-4-8, 21=16-4-8, 22=16-4-8, 25=0-3-8
Max Horiz 22=303 (LC 9)
Max Uplift 11=-41 (LC 11), 12=-33 (LC 8), 13=-67 (LC 8), 14=-81 (LC 9), 15=-46 (LC 12), 16=-32 (LC 12), 17=-37 (LC 12), 18=-26 (LC 12), 19=-68 (LC 12), 20=-17 (LC 9), 21=-61 (LC 9), 22=-113 (LC 8), 25=-52 (LC 12)
Max Grav 11=44 (LC 8), 12=60 (LC 11), 13=95 (LC 11), 14=206 (LC 19), 15=156 (LC 1), 16=164 (LC 19), 17=164 (LC 19), 18=159 (LC 1), 19=186 (LC 19), 20=144 (LC 19), 21=67 (LC 10), 22=254 (LC 11), 25=701 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-308/325, 2-3=-308/325, 3-4=-274/291, 4-5=-241/258, 5-7=-208/226, 7-8=-175/192, 8-9=-148/164, 9-10=-124/127, 11-25=0/0, 10-25=-701/66, 1-22=-210/193
BOT CHORD 21-22=-153/170, 20-21=0/0, 2-20=-167/96, 19-20=-131/145, 18-19=-131/145, 17-18=-131/145, 16-17=-131/145, 15-16=-131/145, 14-15=-131/145, 13-14=-131/145, 12-13=0/0, 13-23=0/0, 11-12=-131/145
WEBS 9-14=-146/67, 8-15=-115/63, 7-16=-124/58, 5-17=-122/59, 4-18=-123/57, 3-19=-122/67

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 15-11-4 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 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.
9) Bearing at joint(s) 20, 13, 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 22, 61 lb uplift at joint 21, 17 lb uplift at joint 20, 67 lb uplift at joint 13, 33 lb uplift at joint 12, 41 lb uplift at joint 11, 81 lb uplift at joint 14, 46 lb uplift at joint 15, 32 lb uplift at joint 16, 37 lb uplift at joint 17, 26 lb uplift at joint 18, 68 lb uplift at joint 19 and 52 lb uplift at joint 25.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 651 lb down and 51 lb up at 15-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-10=-60, 21-22=-20, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 10=-605

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	B01G	Common Supported Gable	1	1	I74026512 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:13 Page: 1
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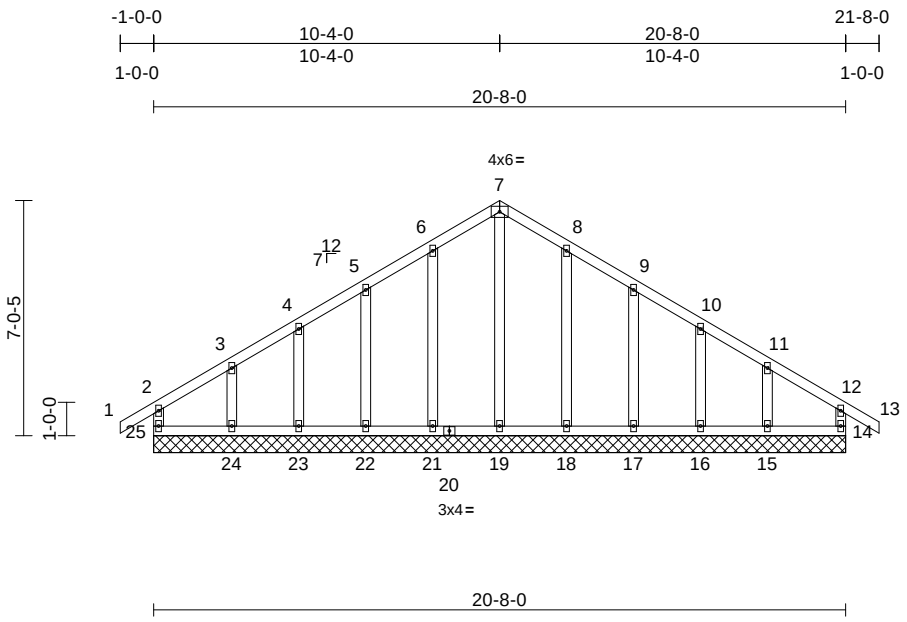


Scale = 1:68.8

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 124 lb	FT = 20%

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

BRACING
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 (size) 14=20-8-0, 15=20-8-0, 16=20-8-0, 17=20-8-0, 18=20-8-0, 19=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0, 24=20-8-0, 25=20-8-0
Max Horiz 25=-153 (LC 10)
Max Uplift 14=-21 (LC 12), 15=-65 (LC 13), 16=-26 (LC 13), 17=-38 (LC 13), 18=-32 (LC 13), 21=-33 (LC 12), 22=-39 (LC 12), 23=-25 (LC 12), 24=-69 (LC 12), 25=-36 (LC 8)
Max Grav 14=163 (LC 24), 15=193 (LC 20), 16=160 (LC 24), 17=163 (LC 20), 18=169 (LC 20), 19=174 (LC 22), 21=170 (LC 19), 22=163 (LC 19), 23=160 (LC 23), 24=201 (LC 19), 25=172 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-25=-142/62, 1-2=0/35, 2-3=-97/87, 3-4=-70/81, 4-5=-89/105, 5-6=-122/136, 6-7=-155/173, 7-8=-155/173, 8-9=-122/136, 9-10=-89/95, 10-11=-58/72, 11-12=-75/65, 12-13=0/35, 12-14=-142/60
BOT CHORD 24-25=-67/75, 23-24=-67/75, 22-23=-67/75, 21-22=-67/75, 19-21=-67/75, 18-19=-67/75, 17-18=-67/75, 16-17=-67/75, 15-16=-67/75, 14-15=-67/75
WEBS 7-19=-134/59, 6-21=-130/57, 5-22=-122/62, 4-23=-121/53, 3-24=-141/81, 8-18=-129/56, 9-17=-122/62, 10-16=-121/53, 11-15=-136/78

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 10-4-0, Corner (3) 10-4-0 to 13-4-0, Exterior (2) 13-4-0 to 21-8-0 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 3-06-00 tall by 2-00-00 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 36 lb uplift at joint 25, 21 lb uplift at joint 14, 33 lb uplift at joint 21, 39 lb uplift at joint 22, 25 lb uplift at joint 23, 69 lb uplift at joint 24, 32 lb uplift at joint 18, 38 lb uplift at joint 17, 26 lb uplift at joint 16 and 65 lb uplift at joint 15.

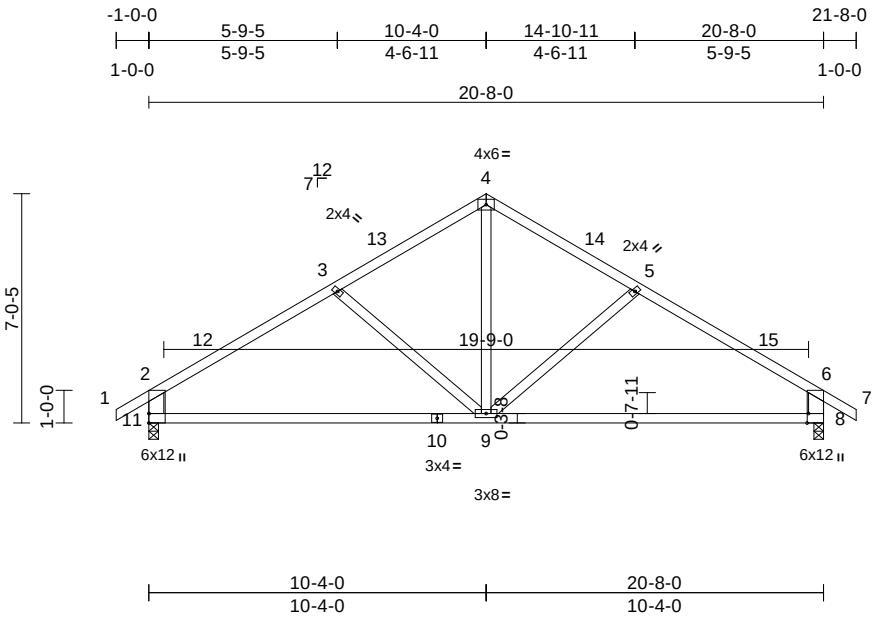
LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	B02	Common	1	1	I74026513 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:13 Page: 1
ID:sxuURE3QM3p?f9Wqup5i6xz9JZ6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:70.6

Plate Offsets (X, Y): [8:0-3-8,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	0.75	Vert(LL)	-0.20	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	8-9	>587	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	9-11	>999	240	Weight: 100 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 11-2,8-6:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 8=0-3-8, 11=0-3-8
Max Horiz 11=-154 (LC 10)
Max Uplift 8=-39 (LC 13), 11=-39 (LC 12)
Max Grav 8=882 (LC 1), 11=882 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-1019/73, 3-4=-783/70, 4-5=-783/70, 5-6=-1019/73, 6-7=0/37, 2-11=-776/112, 6-8=-776/112
BOT CHORD 9-11=-54/778, 8-9=0/770
WEBS 4-9=0/479, 3-9=-209/150, 5-9=-209/150

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-4-0, Exterior (2) 10-4-0 to 13-4-0, Interior (1) 13-4-0 to 21-8-0 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 3-06-00 tall by 2-00-00 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 39 lb uplift at joint 11 and 39 lb uplift at joint 8.

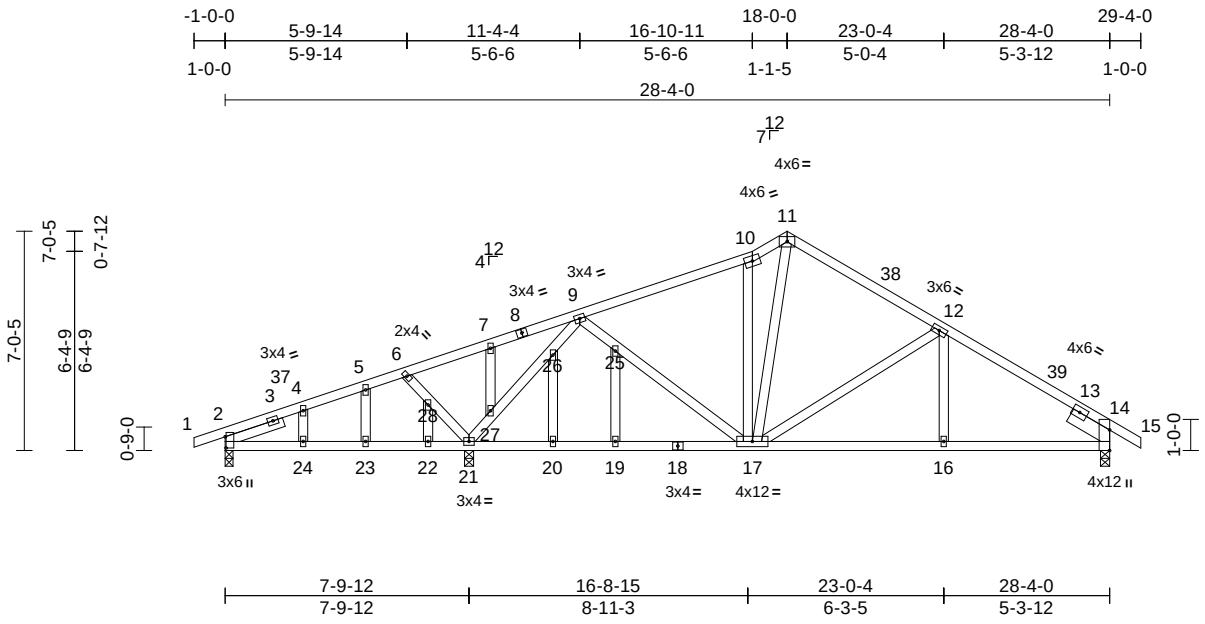
LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	B03G	Roof Special	1	1	I74026514 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:13 Page: 1
ID:l9WwljYkq?fFSFX3abRbw9z93?m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:73.8

Plate Offsets (X, Y): [2:0-4-5,0-0-5]

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	0.60	Vert(LL)	-0.05	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.12	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	24	>999	240	Weight: 172 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-11-12, Right 2x6 SP No.2 -- 1-6-3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 14=0-3-8, 21=0-3-8
Max Horiz 2=150 (LC 11)
Max Uplift 2=-57 (LC 8), 14=-44 (LC 13), 21=-55 (LC 12)
Max Grav 2=321 (LC 23), 14=852 (LC 1), 21=1238 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-4=-214/31, 4-5=-173/47, 5-6=-114/59, 6-7=0/199, 7-9=0/244, 9-10=-739/82, 10-11=-749/111, 11-12=-729/84, 12-14=-1034/92, 14-15=0/30
BOT CHORD 2-24=-109/152, 23-24=-109/152, 22-23=-109/152, 21-22=-109/152, 20-21=-39/475, 19-20=-39/475, 17-19=-39/475, 16-17=0/822, 14-16=-33/822
WEBS 6-28=-398/75, 21-28=-446/73, 21-27=-1065/39, 26-27=-1029/12, 9-26=-1022/38, 9-25=0/258, 17-25=0/224, 10-17=-322/101, 11-17=-70/496, 12-17=-331/106, 12-16=0/187, 19-25=0/87, 20-26=0/80, 7-27=-46/35, 22-28=0/73, 5-23=0/118, 4-24=-84/40

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 18-0-0, Exterior (2) 18-0-0 to 21-0-0, Interior (1) 21-0-0 to 29-4-0 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 studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 14, 55 lb uplift at joint 21 and 57 lb uplift at joint 2.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	B04GR	Roof Special Girder	1	**2**	I74026515 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:14 Page: 1
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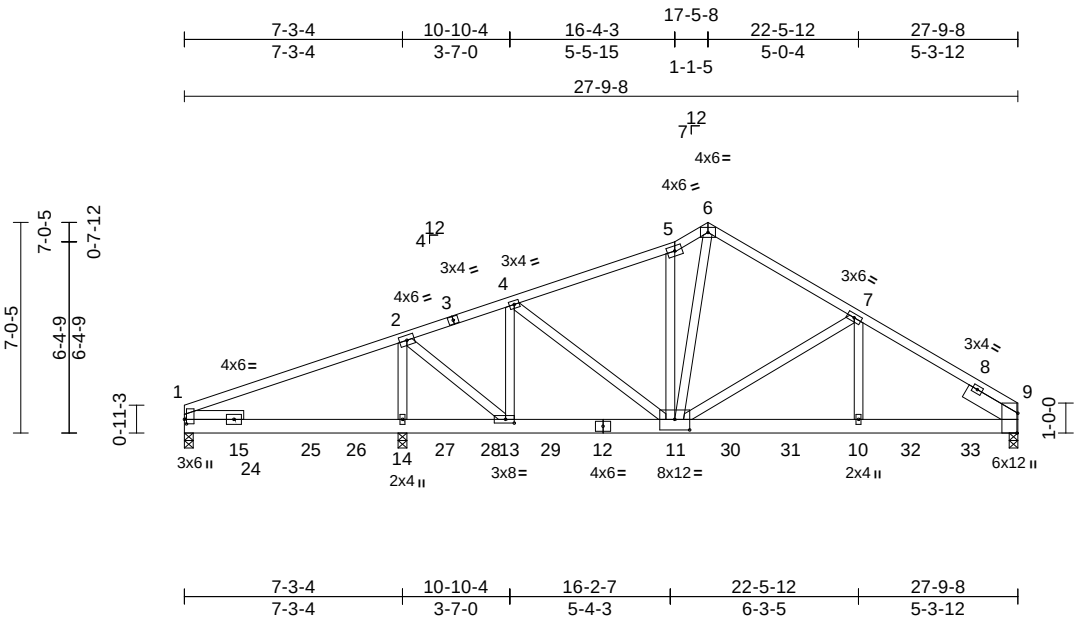

Scale = 1:76.8

Plate Offsets (X, Y): [1:0-1-13,0-0-13], [9:0-7-15,Edge], [11:0-6-0,0-4-4], [13:0-3-8,0-1-8]

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	0.67	Vert(LL)	-0.08	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.17	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	14-22	>999	240	Weight: 353 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 3-1:2x4 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-11-12, Right 2x6 SP No.2 -- 1-11-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 9=0-3-8, 14=0-3-8
Max Horiz 1=139 (LC 5)
Max Uplift 1=-425 (LC 4)
Max Grav 1=1537 (LC 19), 9=3739 (LC 1), 14=5410 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-448/533, 2-4=-2926/0, 4-5=-3662/0, 5-6=-3883/0, 6-7=-3375/0, 7-9=-4984/0
BOT CHORD 1-14=-566/527, 13-14=-566/411, 11-13=0/2727, 10-11=0/4215, 9-10=0/4215
WEBS 5-11=-867/0, 6-11=0/3321, 7-10=0/1470, 2-14=-3181/0, 4-13=-987/0, 2-13=0/3090, 4-11=0/906, 7-11=-1591/0

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web 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 (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 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 425 lb uplift at joint 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 609 lb down and 91 lb up at 0-6-8, 602 lb down and 95 lb up at 2-9-4, 602 lb down and 95 lb up at 4-9-4, 602 lb down and 95 lb up at 6-3-8, 608 lb down at 9-3-0, 608 lb down at 10-9-4, 608 lb down at 12-9-4, 608 lb down at 14-9-4, 608 lb down at 16-9-4, 608 lb down at 18-9-4, 608 lb down at 20-9-4, 608 lb down at 22-9-4, and 608 lb down at 24-9-4, and 608 lb down at 26-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-6=-60, 6-9=-60, 16-20=-20
Concentrated Loads (lb)
Vert: 12=-608 (B), 11=-608 (B), 10=-608 (B), 20=-596 (B), 24=-588 (B), 25=-588 (B), 26=-588 (B), 27=-608 (B), 28=-608 (B), 29=-608 (B), 30=-608 (B), 31=-608 (B), 32=-608 (B), 33=-608 (B)

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	B05G	Common Supported Gable	1	1	I74026516
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:14 Page: 1
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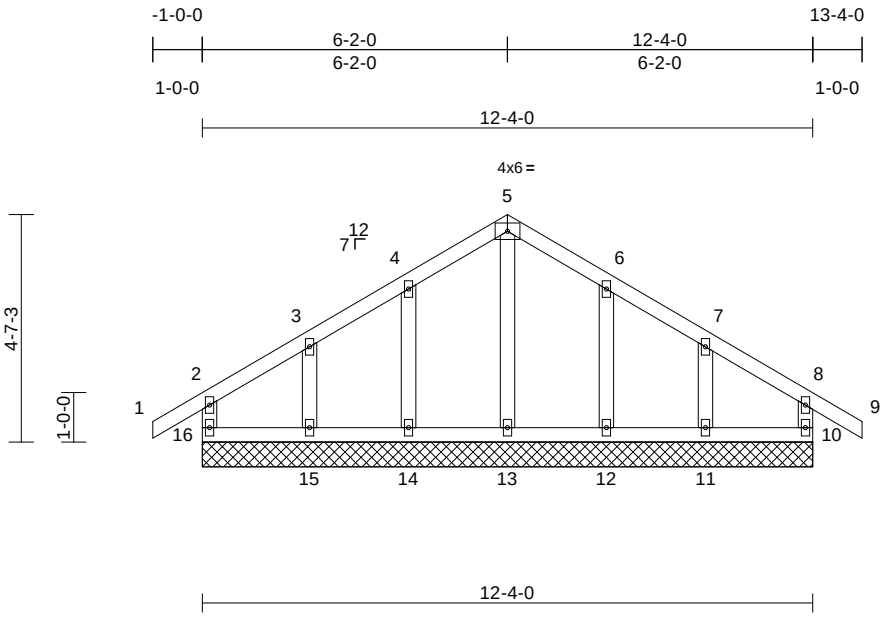

Scale = 1:46.6

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 65 lb	FT = 20%

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

BRACING
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 (size) 10=12-4-0, 11=12-4-0, 12=12-4-0, 13=12-4-0, 14=12-4-0, 15=12-4-0, 16=12-4-0
Max Horiz 16=105 (LC 11)
Max Uplift 10=-20 (LC 12), 11=-49 (LC 13), 12=-33 (LC 13), 14=-33 (LC 12), 15=-50 (LC 12), 16=-23 (LC 13)
Max Grav 10=155 (LC 24), 11=175 (LC 20), 12=171 (LC 24), 13=154 (LC 1), 14=171 (LC 23), 15=179 (LC 19), 16=155 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-136/75, 1-2=0/35, 2-3=-60/58, 3-4=-65/72, 4-5=-100/114, 5-6=-100/113, 6-7=-64/73, 7-8=-51/50, 8-9=0/35, 8-10=-136/73
BOT CHORD 15-16=-49/51, 14-15=-49/51, 13-14=-49/51, 12-13=-49/51, 11-12=-49/51, 10-11=-49/51
WEBS 5-13=-113/5, 4-14=-132/59, 3-15=-126/68, 6-12=-132/59, 7-11=-124/67

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-2-0, Exterior (2) 2-2-0 to 6-2-0, Corner (3) 6-2-0 to 9-2-0, Exterior (2) 9-2-0 to 13-4-0 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 3-06-00 tall by 2-00-00 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 23 lb uplift at joint 16, 20 lb uplift at joint 10, 33 lb uplift at joint 14, 50 lb uplift at joint 15, 33 lb uplift at joint 12 and 49 lb uplift at joint 11.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	B06GR	Common Girder	1	**2**	I74026517 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:14 Page: 1
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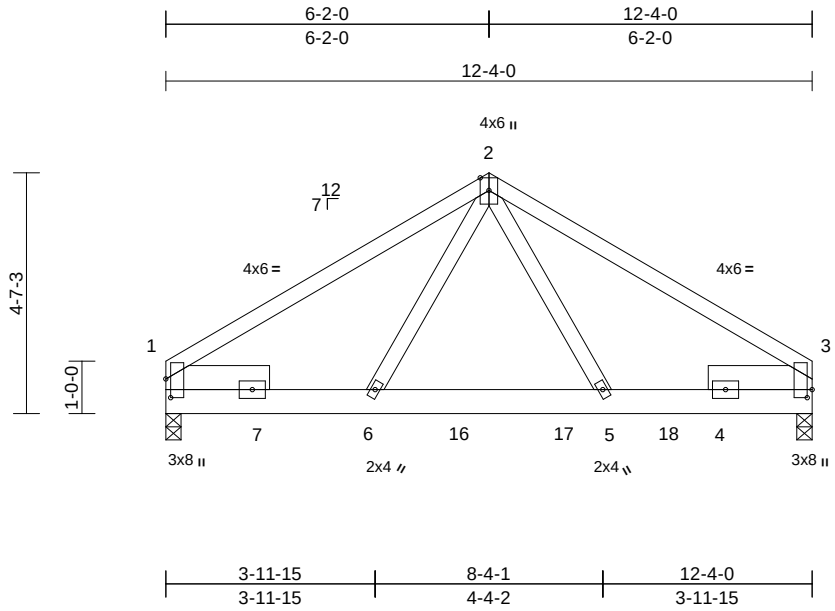

Scale = 1:44

Plate Offsets (X, Y): [1:0-4-5,0-1-2], [3:0-1-14,0-1-2]

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	0.29	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.08	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.00	5-6	>999	240	Weight: 146 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-11-12, Right 2x6 SP No.2 -- 1-11-12

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=0-3-8, 3=0-3-8
Max Horiz 1=71 (LC 5)
Max Grav 1=2154 (LC 1), 3=2485 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2762/0, 2-3=-2723/0
BOT CHORD 1-6=-94/2300, 5-6=0/1633, 3-5=-30/2266
WEBS 2-6=0/1425, 2-5=0/1353

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web 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 (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 608 lb down at 1-7-4, 608 lb down at 3-7-4, 608 lb down at 5-7-4, 608 lb down at 7-7-4, and 608 lb down at 9-7-4, and 611 lb down at 11-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 8-12=-20
Concentrated Loads (lb)
Vert: 6=-608 (B), 7=-608 (B), 14=-611 (B), 16=-608 (B), 17=-608 (B), 18=-608 (B)

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	G01G	Common Supported Gable	1	1	I74026518 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:14 Page: 1
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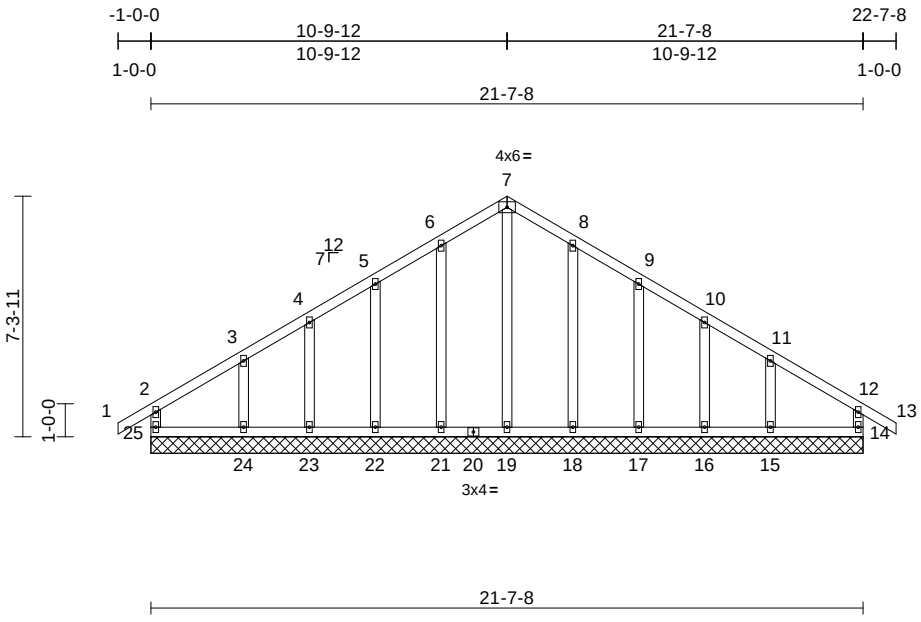

Scale = 1:70

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 131 lb	FT = 20%

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

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

REACTIONS (size) 14=21-7-8, 15=21-7-8, 16=21-7-8, 17=21-7-8, 18=21-7-8, 19=21-7-8, 21=21-7-8, 22=21-7-8, 23=21-7-8, 24=21-7-8, 25=21-7-8
Max Horiz 25=158 (LC 11)
Max Uplift 14=-24 (LC 12), 15=-69 (LC 13), 16=-23 (LC 13), 17=-39 (LC 13), 18=-31 (LC 13), 21=-32 (LC 12), 22=-40 (LC 12), 23=-21 (LC 12), 24=-73 (LC 12), 25=-32 (LC 13)
Max Grav 14=184 (LC 1), 15=221 (LC 20), 16=150 (LC 1), 17=166 (LC 20), 18=168 (LC 20), 19=171 (LC 22), 21=169 (LC 19), 22=166 (LC 19), 23=150 (LC 1), 24=228 (LC 19), 25=188 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-25=-159/69, 1-2=0/35, 2-3=-109/89, 3-4=-81/91, 4-5=-107/115, 5-6=-142/149, 6-7=-173/185, 7-8=-173/185, 8-9=-142/149, 9-10=-107/107, 10-11=-79/82, 11-12=-92/68, 12-13=0/35, 12-14=-159/67
BOT CHORD 24-25=-65/79, 23-24=-65/79, 22-23=-65/79, 21-22=-65/79, 19-21=-65/79, 18-19=-65/79, 17-18=-65/79, 16-17=-65/79, 15-16=-65/79, 14-15=-65/79
WEBS 7-19=-143/77, 6-21=-129/56, 5-22=-124/63, 4-23=-115/50, 3-24=-162/89, 8-18=-129/56, 9-17=-124/63, 10-16=-115/50, 11-15=-158/87

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 10-9-12, Corner (3) 10-9-12 to 13-9-12, Exterior (2) 13-9-12 to 22-7-8 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 3-06-00 tall by 2-00-00 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 32 lb uplift at joint 25, 24 lb uplift at joint 14, 32 lb uplift at joint 21, 40 lb uplift at joint 22, 21 lb uplift at joint 23, 73 lb uplift at joint 24, 31 lb uplift at joint 18, 39 lb uplift at joint 17, 23 lb uplift at joint 16 and 69 lb uplift at joint 15.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	G02	Common	4	1	I74026519 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:15 Page: 1
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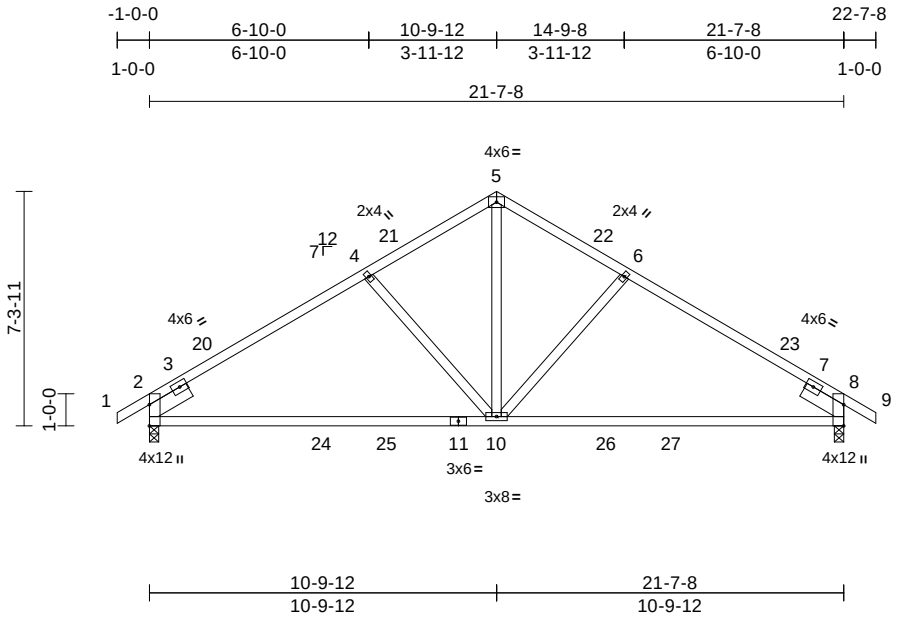

Scale = 1:71.8

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

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	0.53	Vert(LL)	-0.18	10-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.36	10-18	>731	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	10-14	>999	240	Weight: 108 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=-136 (LC 10)
Max Uplift 2=-37 (LC 12), 8=-37 (LC 13)
Max Grav 2=925 (LC 1), 8=925 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-4=-1103/76, 4-5=-875/82, 5-6=-875/82, 6-8=-1102/76, 8-9=0/30
BOT CHORD 2-10=-174/932, 8-10=-90/871
WEBS 5-10=-23/635, 6-10=-293/152, 4-10=-293/151

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-9-12, Exterior (2) 10-9-12 to 13-9-12, Interior (1) 13-9-12 to 22-7-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 37 lb uplift at joint 8.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	G03	Common	1	1	I74026520 Job Reference (optional)

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

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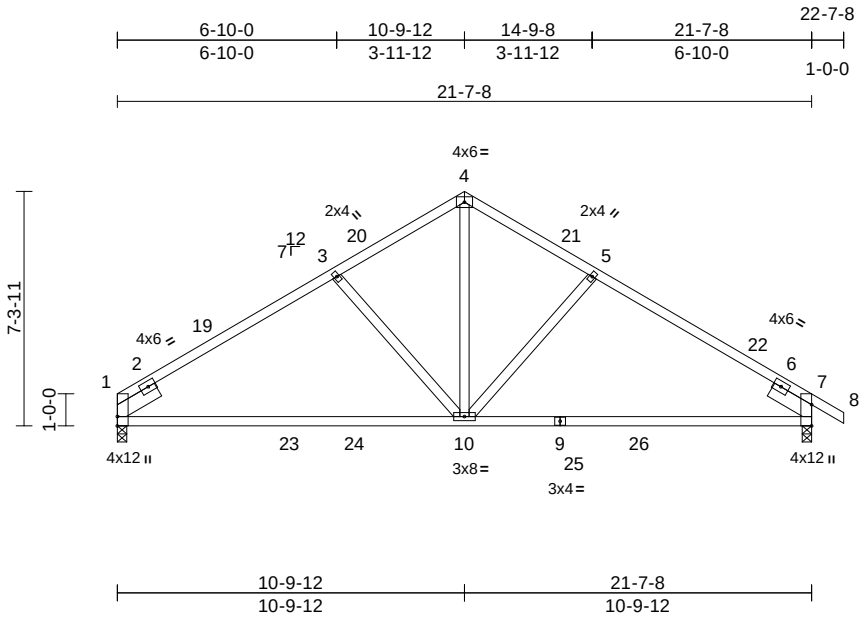

Scale = 1:71.8

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	0.52	Vert(LL)	-0.18	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.36	10-13	>725	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	10-13	>999	240	Weight: 106 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-6-4, Right 2x6 SP No.2 -- 1-6-4

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-5-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8
Max Horiz 1=-132 (LC 8)
Max Uplift 1=-23 (LC 12), 7=-37 (LC 13)
Max Grav 1=864 (LC 1), 7=926 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-3=-1107/80, 3-4=-879/85, 4-5=-878/82, 5-7=-1105/76, 7-8=0/30
BOT CHORD	1-10=-171/936, 7-10=-90/873
WEBS	4-10=-26/639, 5-10=-293/152, 3-10=-297/152

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-9-12, Exterior (2) 10-9-12 to 13-9-12, Interior (1) 13-9-12 to 22-7-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 37 lb uplift at joint 7.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	MR01GR	Half Hip Girder	2	1	I74026521 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:15 Page: 1
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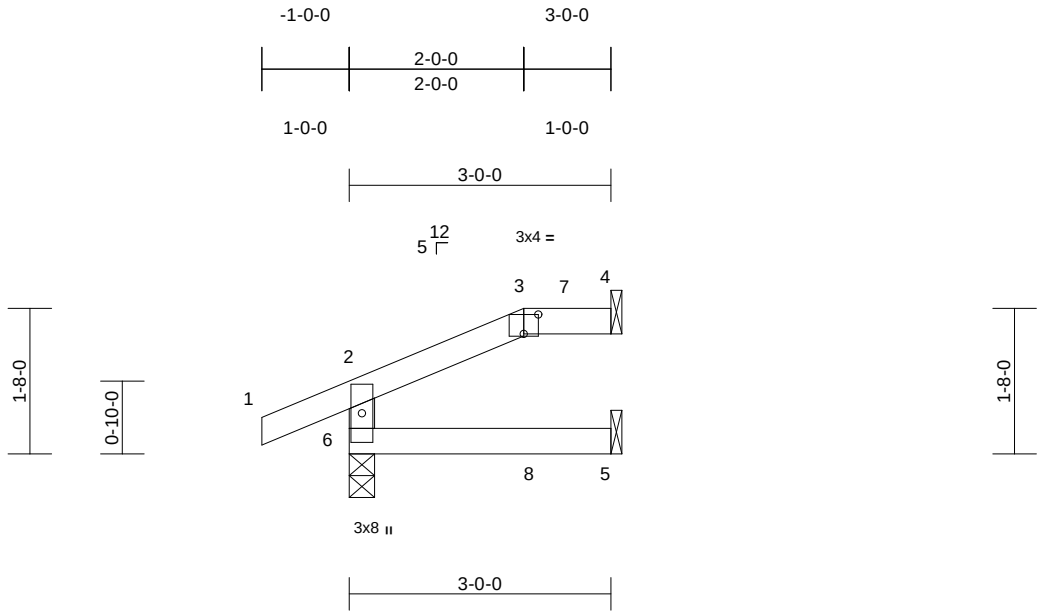

Scale = 1:26.4

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

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	0.11	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.00	5-6	>999	240	Weight: 11 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 6=0-3-8
Max Horiz 6=33 (LC 5)
Max Uplift 4=-25 (LC 5), 6=-22 (LC 4)
Max Grav 4=70 (LC 1), 5=52 (LC 3), 6=196 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-38/2, 3-4=0/0, 2-6=-167/45
BOT CHORD 5-6=0/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 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 25 lb uplift at joint 4 and 22 lb uplift at joint 6.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 17 lb up at 2-0-0 on top chord, and 3 lb down and 1 lb up at 2-0-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
10) 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-1 (B), 8=-3 (B)

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	MR02	Jack-Open	3	1	I74026522 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:15 Page: 1
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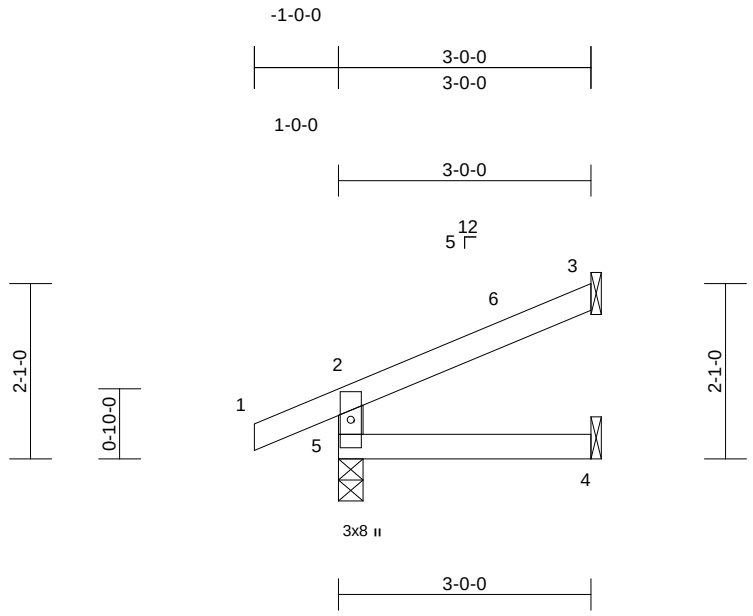

Scale = 1:27.4

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	0.12	Vert(LL)	0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
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-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=42 (LC 12)
Max Uplift 3=-31 (LC 12), 5=-14 (LC 8)
Max Grav 3=70 (LC 1), 4=52 (LC 3), 5=195 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-167/92, 1-2=0/26, 2-3=-40/20
BOT CHORD 4-5=0/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-4 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 3-06-00 tall by 2-00-00 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 14 lb uplift at joint 5 and 31 lb uplift at joint 3.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	MR03GR	Jack-Open Girder	2	1	I74026523 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:15 Page: 1
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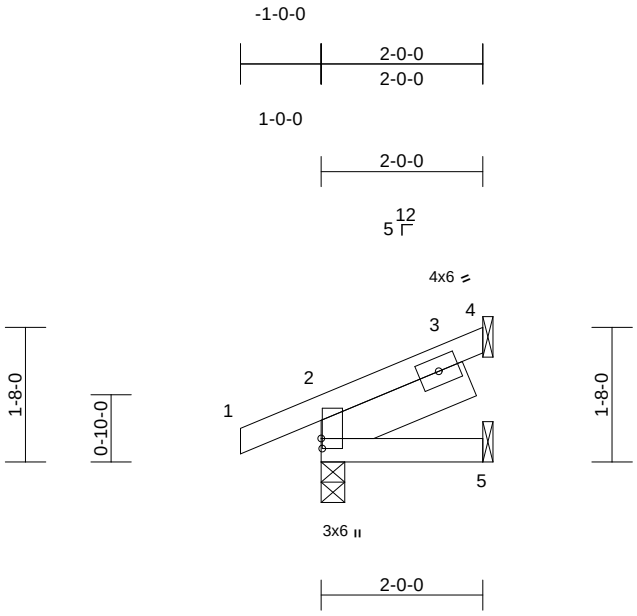

Scale = 1:28.5

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

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	0.08	Vert(LL)	0.00	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	8	>999	240	Weight: 13 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-11-12

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.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 5= Mechanical
Max Horiz 2=36 (LC 8)
Max Uplift 2=-11 (LC 4), 3=-27 (LC 8)
Max Grav 2=143 (LC 1), 3=46 (LC 1), 5=24 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-42/4, 3-4=-3/0
BOT CHORD 2-5=-10/0

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 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 11 lb uplift at joint 2 and 27 lb uplift at joint 3.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	MR04GR	Hip Girder	1	1	I74026524 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:16 Page: 1
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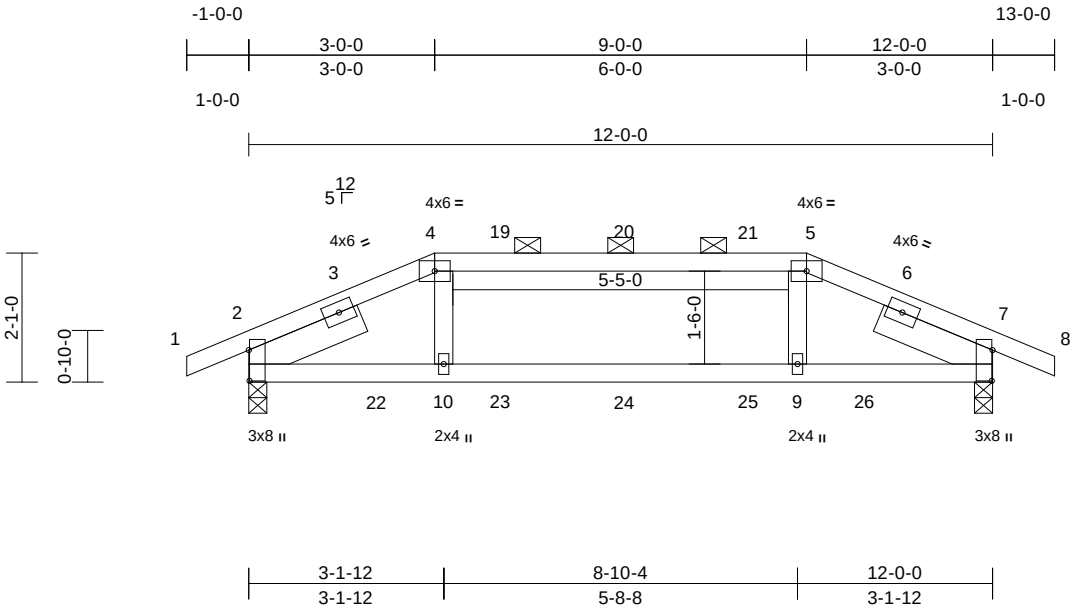

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Plate Offsets (X, Y): [2:0-5-15,0-0-2], [7:0-5-15,0-0-2]

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	0.75	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	9-10	>999	240	Weight: 54 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-11-12, Right 2x6 SP No.2 -- 1-11-12

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

REACTIONS (size) 2=0-3-8, 7=0-3-8
Max Horiz 2=-22 (LC 9)
Max Uplift 2=-92 (LC 8), 7=-91 (LC 9)
Max Grav 2=616 (LC 1), 7=617 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-4=-839/110, 4-5=-758/107, 5-7=-839/110, 7-8=0/23
BOT CHORD 2-10=-79/750, 9-10=-75/758, 7-9=-79/750
WEBS 4-10=0/198, 5-9=0/198

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 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 92 lb uplift at joint 2 and 91 lb uplift at joint 7.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 29 lb up at 4-0-12, and 25 lb down and 26 lb up at 6-0-12, and 25 lb down and 29 lb up at 8-0-12 on top chord, and 50 lb down and 37 lb up at 2-0-12, 13 lb down at 4-0-12, 13 lb down at 6-0-12, and 13 lb down at 8-0-12, and 50 lb down and 37 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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 (lb/ft)
Vert: 1-4=-60, 4-5=-60, 5-8=-60, 11-15=-20
Concentrated Loads (lb)
Vert: 19=-10 (B), 20=-10 (B), 21=-10 (B), 22=-50 (B), 23=-8 (B), 24=-8 (B), 25=-8 (B), 26=-50 (B)

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	MR05	Hip	1	1	I74026525 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:16 Page: 1
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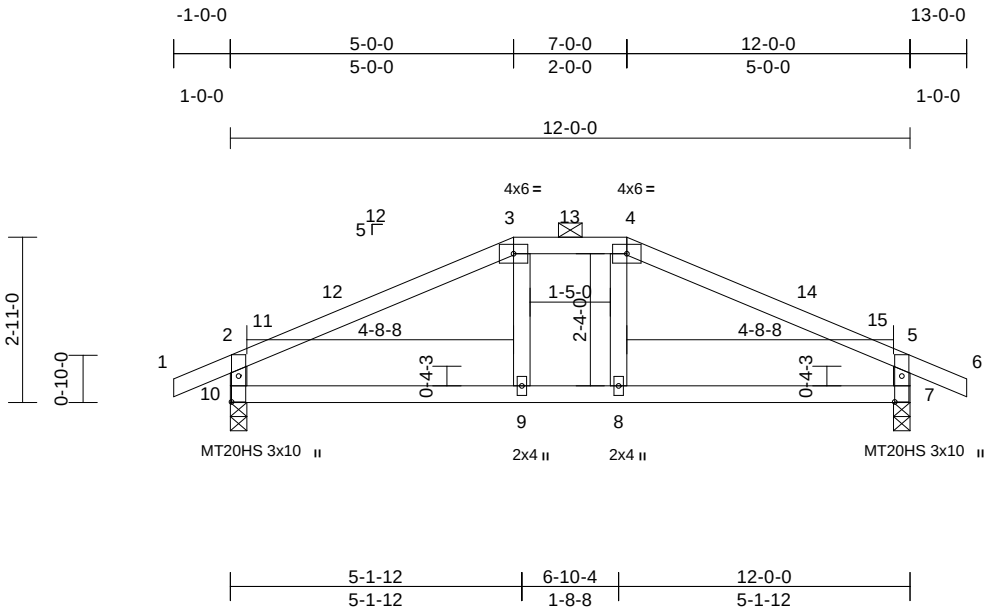

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Plate Offsets (X, Y): [7:0-5-8,0-1-8], [10:0-5-8,0-1-8]

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	0.72	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	7-8	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.02	9-10	>999	240	Weight: 48 lb	FT = 20%

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

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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-3-8, 10=0-3-8
Max Horiz 10=-18 (LC 13)
Max Uplift 7=-34 (LC 13), 10=-34 (LC 12)
Max Grav 7=537 (LC 1), 10=537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-607/94, 3-4=-494/100, 4-5=-607/94, 5-6=0/26, 2-10=-466/138, 5-7=-466/138
BOT CHORD 9-10=-26/492, 8-9=-23/494, 7-8=-24/492
WEBS 3-9=0/120, 4-8=0/120

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-0-0, Exterior (2) 5-0-0 to 11-2-15, Interior (1) 11-2-15 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 10 and 34 lb uplift at joint 7.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM I74026526
4682488	MR06	Common	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:16 Page: 1
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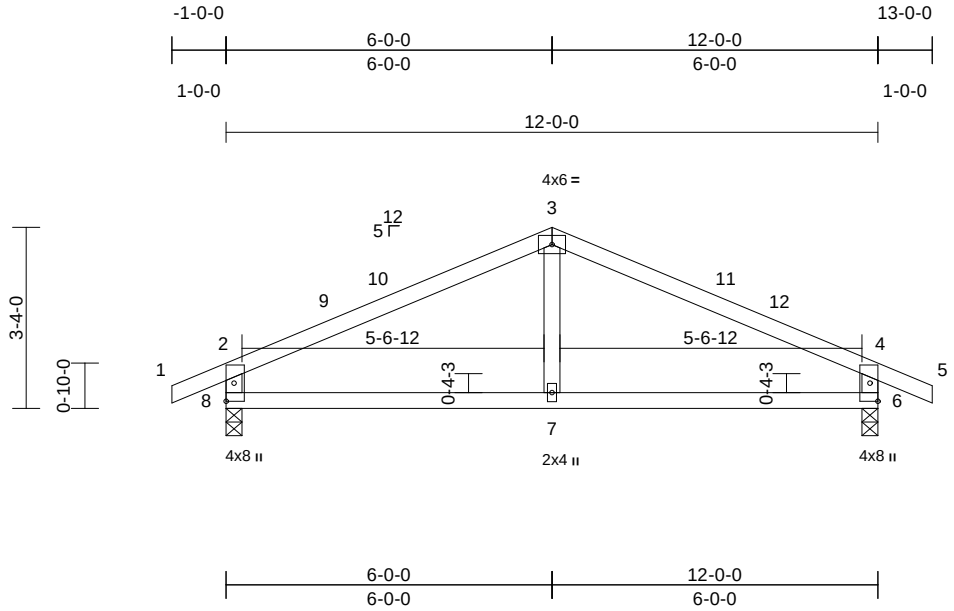

Scale = 1:42.4

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	0.76	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	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/TPI2014	Matrix-MR		Wind(LL)	0.01	7-8	>999	240	Weight: 46 lb	FT = 20%

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

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

REACTIONS (size) 6=0-3-8, 8=0-3-8
Max Horiz 8=-24 (LC 13)
Max Uplift 6=-33 (LC 13), 8=-33 (LC 12)
Max Grav 6=537 (LC 1), 8=537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-590/69, 3-4=-590/69, 4-5=0/26, 2-8=-471/129, 4-6=-471/129
BOT CHORD 7-8=0/472, 6-7=0/472
WEBS 3-7=0/235

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 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) 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 3-06-00 tall by 2-00-00 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 33 lb uplift at joint 8 and 33 lb uplift at joint 6.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	MR07	Common	1	1	I74026527 Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:16 Page: 1
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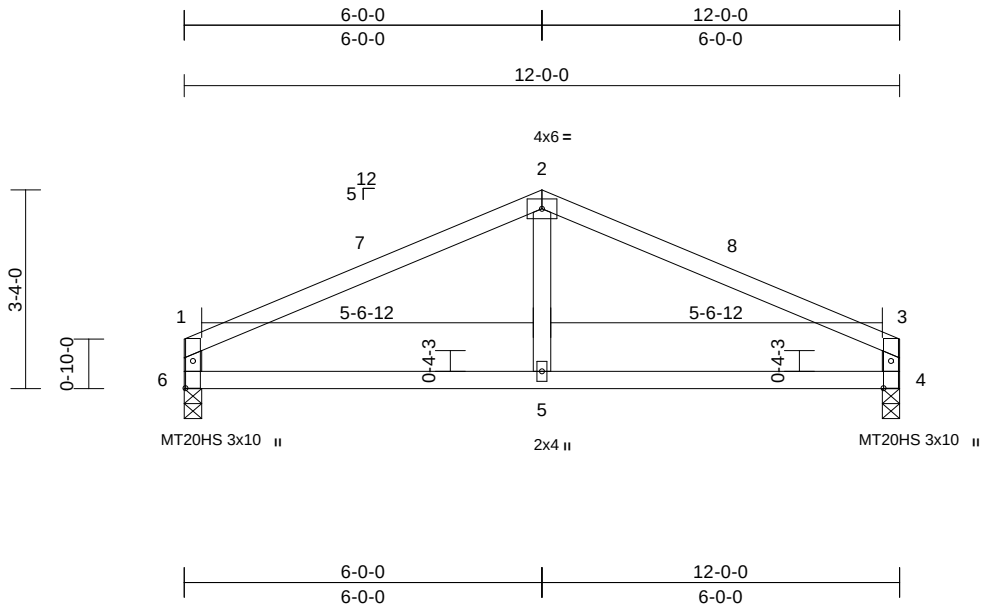

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Plate Offsets (X, Y): [4:0-5-8,0-1-8], [6:0-5-8,0-1-8]

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	0.64	Vert(LL)	-0.04	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.08	5	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.02	5-6	>999	240	Weight: 43 lb	FT = 20%

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

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

REACTIONS (size) 4=0-3-8, 6=0-3-8
Max Horiz 6=-17 (LC 17)
Max Uplift 4=-16 (LC 13), 6=-16 (LC 12)
Max Grav 4=468 (LC 1), 6=468 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-593/78, 2-3=-593/75, 1-6=-391/89, 3-4=-391/87
BOT CHORD 5-6=-26/479, 4-5=-26/479
WEBS 2-5=0/220

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 11-10-4 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 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 16 lb uplift at joint 6 and 16 lb uplift at joint 4.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	V01	Valley	1	1	I74026528
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:17 Page: 1
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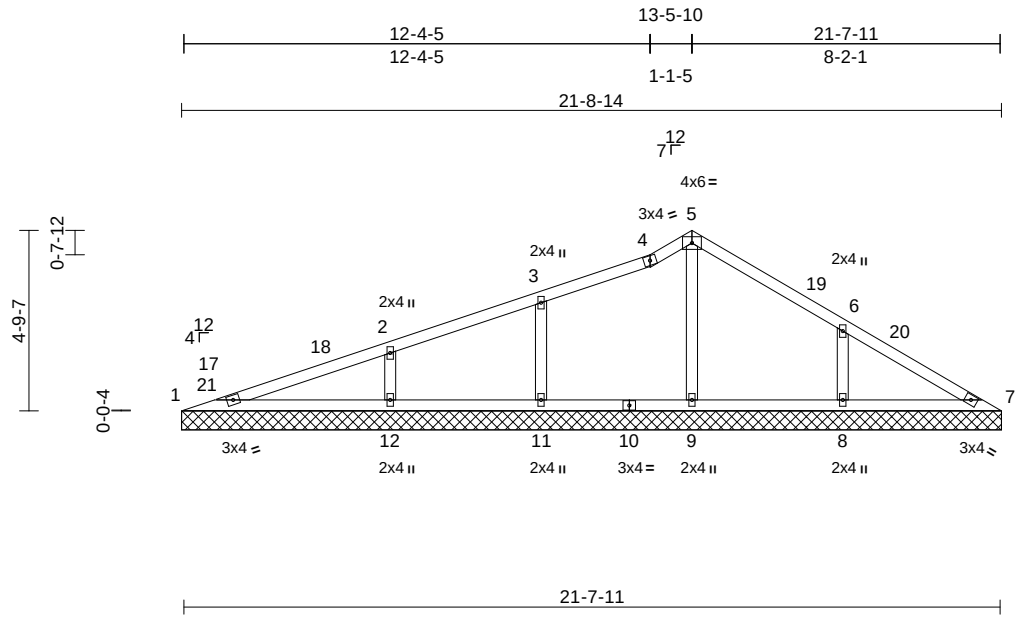

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 80 lb	FT = 20%

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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=21-8-14, 7=21-8-14, 8=21-8-14, 9=21-8-14, 11=21-8-14, 12=21-8-14
Max Horiz 1=102 (LC 11)
Max Uplift 7=-4 (LC 23), 8=-80 (LC 13), 11=-47 (LC 12), 12=-49 (LC 8)
Max Grav 1=94 (LC 23), 7=92 (LC 24), 8=382 (LC 24), 9=449 (LC 1), 11=290 (LC 23), 12=434 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-224/211, 2-3=-43/194, 3-4=-11/173, 4-5=-1/219, 5-6=0/230, 6-7=-113/242
BOT CHORD 1-12=-152/213, 11-12=-152/59, 9-11=-152/59, 8-9=-152/59, 7-8=-152/94
WEBS 5-9=-371/29, 3-11=-230/97, 2-12=-293/91, 6-8=-274/120

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-13 to 3-10-13, Interior (1) 3-10-13 to 13-6-6, Exterior (2) 13-6-6 to 16-6-6, Interior (1) 16-6-6 to 21-8-14 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 requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 7, 47 lb uplift at joint 11, 49 lb uplift at joint 12 and 80 lb uplift at joint 8.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	V02	Valley	1	1	I74026529
					Job Reference (optional)

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

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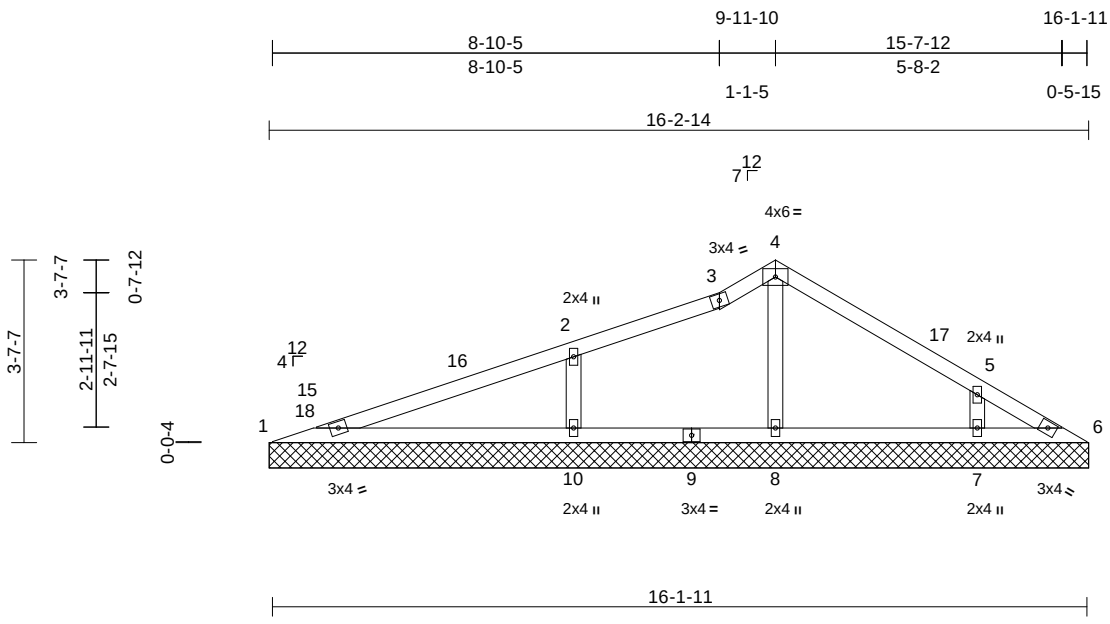


Scale = 1:45.7

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=16-2-14, 6=16-2-14, 7=16-2-14, 8=16-2-14, 10=16-2-14
Max Horiz 1=75 (LC 11)
Max Uplift 6=-52 (LC 23), 7=-62 (LC 13), 10=-60 (LC 12)
Max Grav 1=108 (LC 1), 6=20 (LC 12), 7=302 (LC 24), 8=409 (LC 1), 10=471 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-265/238, 2-3=-31/187, 3-4=-21/228, 4-5=-18/233, 5-6=-56/228
BOT CHORD 1-10=-173/252, 8-10=-173/52, 7-8=-173/52, 6-7=-173/52
WEBS 4-8=-352/49, 2-10=-318/104, 5-7=-245/115

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-13 to 3-10-13, Interior (1) 3-10-13 to 10-0-6, Exterior (2) 10-0-6 to 13-0-6, Interior (1) 13-0-6 to 16-2-14 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 requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 6, 60 lb uplift at joint 10 and 62 lb uplift at joint 7.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 6.

LOAD CASE(S) Standard

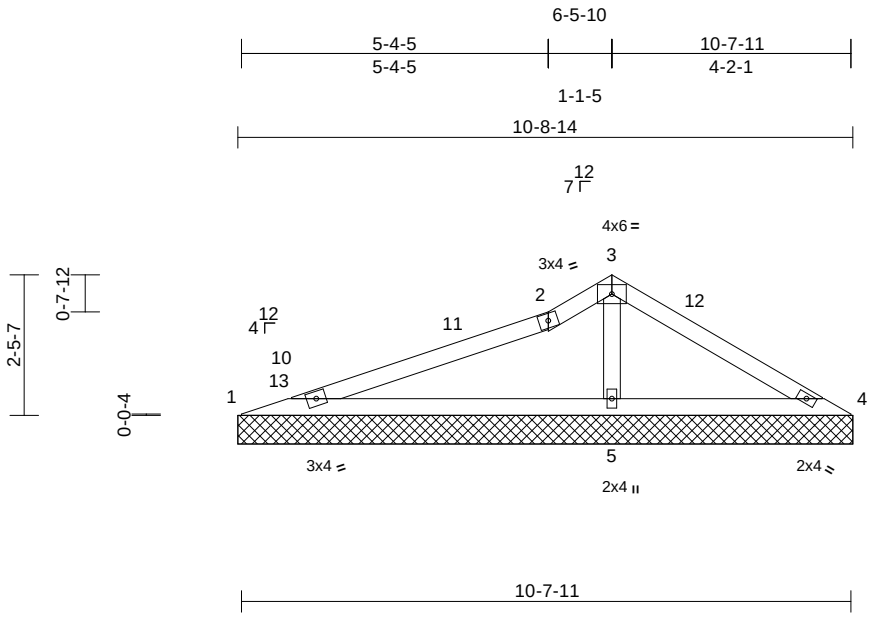
June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	V03	Valley	1	1	I74026530
					Job Reference (optional)

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

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:17 Page: 1
ID:MjAD5VJI_473CnsQ722g70z9Gmc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.2

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 34 lb	FT = 20%

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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=10-8-14, 4=10-8-14, 5=10-8-14
Max Horiz 1=48 (LC 11)
Max Uplift 4=-177 (LC 23), 5=-69 (LC 12)
Max Grav 1=43 (LC 23), 4=48 (LC 9), 5=868 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-97/507, 2-3=-87/560, 3-4=-105/574
BOT CHORD 1-5=-451/122, 4-5=-451/122
WEBS 3-5=-704/148

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-13 to 3-10-13, Interior (1) 3-10-13 to 6-6-6, Exterior (2) 6-6-6 to 9-7-15, Interior (1) 9-7-15 to 10-8-14 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 requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 69 lb uplift at joint 5.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 4.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	V04	Valley	1	1	I74026531 Job Reference (optional)

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

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:17 Page: 1
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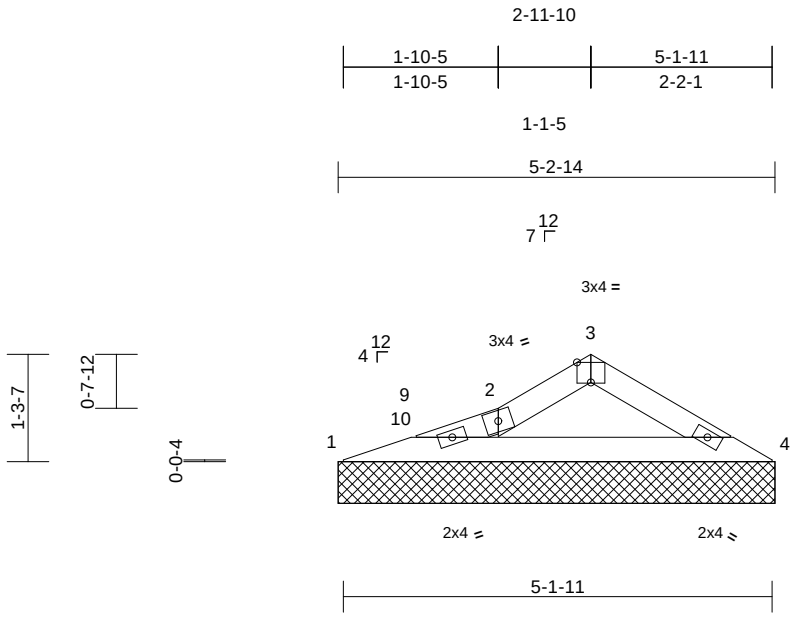

Scale = 1:27.6

Plate Offsets (X, Y): [3:0-2-0,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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 14 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-2-14, 4=5-2-14
Max Horiz 1=21 (LC 11)
Max Uplift 4=-4 (LC 13)
Max Grav 1=160 (LC 1), 4=205 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-446/63, 2-3=-291/50, 3-4=-362/50
BOT CHORD 1-4=-50/423

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-13 to 1-11-1, Interior (1) 1-11-1 to 3-0-6, Exterior (2) 3-0-6 to 5-2-14 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 requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 4.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 4.

LOAD CASE(S) Standard

June 9,2025

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	V05	Valley	1	1	I74026532
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:17 Page: 1
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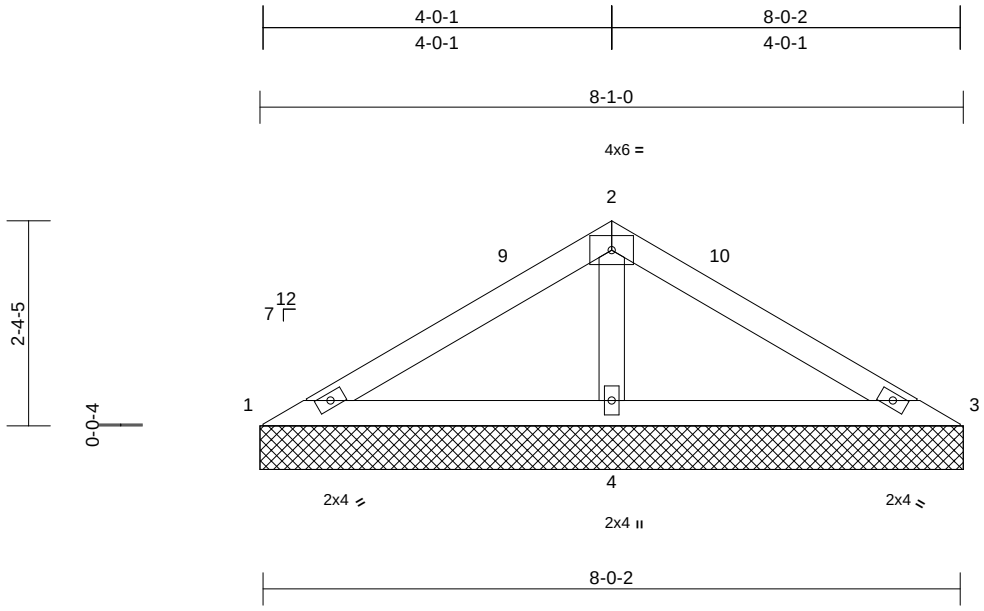

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 27 lb	FT = 20%

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 8-0-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=8-1-0, 3=8-1-0, 4=8-1-0
Max Horiz 1=43 (LC 9)
Max Uplift 1=-3 (LC 12), 3=-10 (LC 13), 4=-15 (LC 12)
Max Grav 1=79 (LC 23), 3=79 (LC 24), 4=544 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-82/243, 2-3=-82/243
BOT CHORD 1-4=-169/68, 3-4=-169/68
WEBS 2-4=-399/77

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-0-8, Exterior (2) 4-0-8 to 7-0-1, Interior (1) 7-0-1 to 8-1-0 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 10 lb uplift at joint 3 and 15 lb uplift at joint 4.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

June 9,2025

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM
4682488	V06	Valley	1	1	I74026533 Job Reference (optional)

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

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:18 Page: 1
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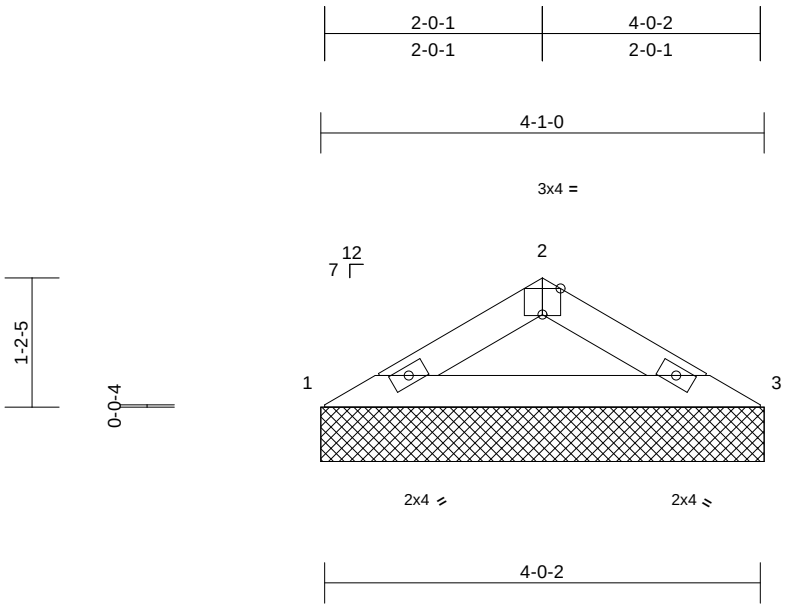

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Plate Offsets (X, Y): [2:0-2-0,Edge]

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=4-1-0, 3=4-1-0
Max Horiz 1=-20 (LC 8)
Max Uplift 1=-5 (LC 12), 3=-5 (LC 13)
Max Grav 1=163 (LC 1), 3=163 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-267/34, 2-3=-267/34
BOT CHORD 1-3=-22/226

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 5 lb uplift at joint 3.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 14 BLOOM I74026534
4682488	V07	Valley	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Fri Jun 06 09:06:18 Page: 1
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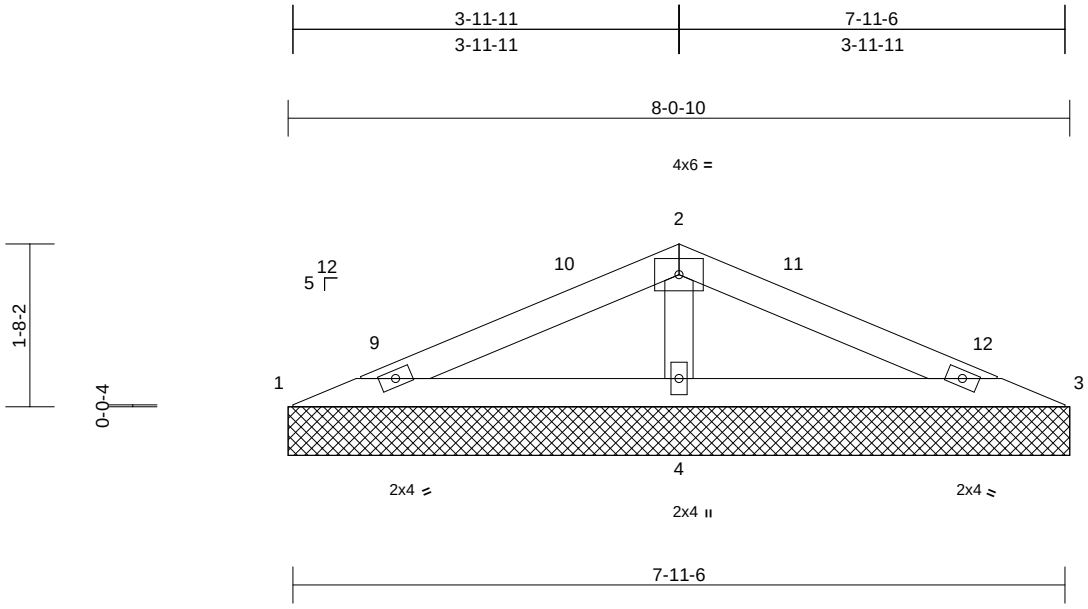

Scale = 1:23.7

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 24 lb	FT = 20%

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 7-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=8-0-10, 3=8-0-10, 4=8-0-10
Max Horiz 1=20 (LC 12)
Max Uplift 1=-9 (LC 12), 3=-13 (LC 13), 4=-5 (LC 12)
Max Grav 1=92 (LC 23), 3=92 (LC 24), 4=507 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-119/248, 2-3=-119/248
BOT CHORD 1-4=-194/105, 3-4=-194/105
WEBS 2-4=-358/99

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-0-5, Exterior (2) 4-0-5 to 7-0-5, Interior (1) 7-0-5 to 8-0-10 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 13 lb uplift at joint 3 and 5 lb uplift at joint 4.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard

June 9,2025

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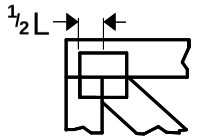
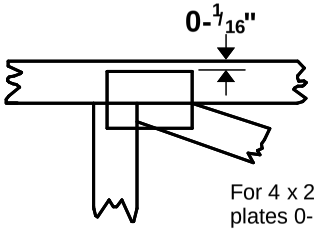
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

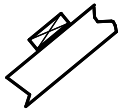
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

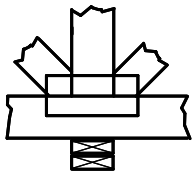
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

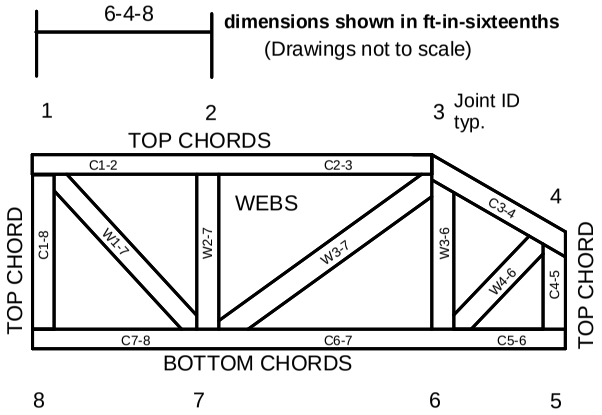


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & 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-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.

MiTek®

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.