

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: Farmhouse  
Mattamy - GladesFH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T37548546 thru T37548584

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

North Carolina COA: C-0844



June 6, 2025

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Velez, Joaquin

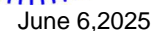
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes),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

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:17 Page: 1  
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## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCdL=6.0psf; BCdL=6.0psf; h=30ft; 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=1.33



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Components Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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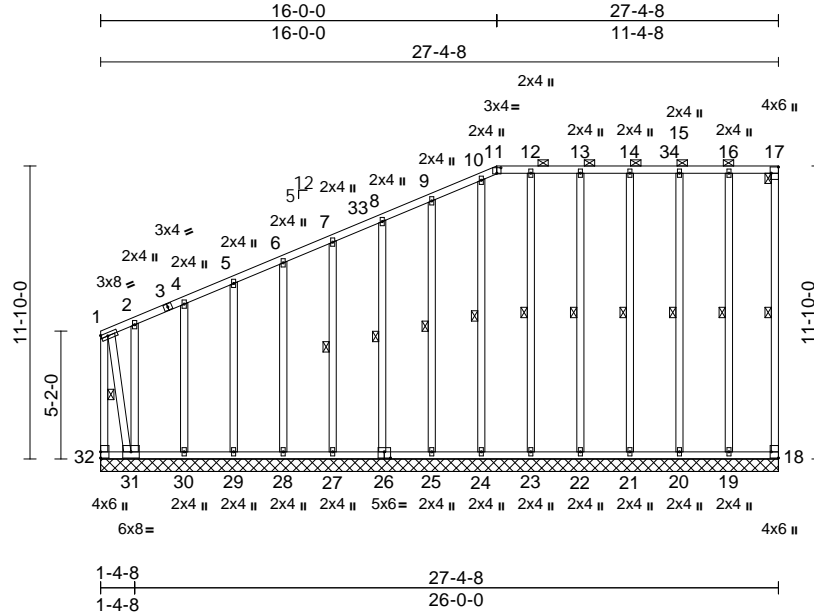
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548547
Farmhouse	A01G	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:18

Page: 1

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Scale = 1:93

Plate Offsets (X, Y): [11:0-2-0,0-2-11], [17:Edge,0-3-8], [18:Edge,0-3-8], [26:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horiz(TL)	-0.01	18	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 295 lb FT = 20%											

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 17-18:2x4 SP No.2
OTHERS	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.): 11-17.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-5-2 oc bracing: 31-32.
WEBS	1 Row at midpt 1-32, 17-18, 16-19, 15-20, 14-21, 13-22, 12-23, 10-24, 9-25, 8-26, 7-27

#### REACTIONS (size)

Max Horiz	18=27-4-8, 19=27-4-8, 20=27-4-8, 21=27-4-8, 22=27-4-8, 23=27-4-8, 24=27-4-8, 25=27-4-8, 26=27-4-8, 27=27-4-8, 28=27-4-8, 29=27-4-8, 30=27-4-8, 31=27-4-8, 32=27-4-8
Max Uplift	32=385 (LC 13)
	18=21 (LC 13), 19=32 (LC 12), 20=31 (LC 13), 21=23 (LC 12), 22=20 (LC 12), 23=29 (LC 13), 24=33 (LC 13), 25=35 (LC 16), 26=31 (LC 16), 27=27 (LC 16), 28=31 (LC 16), 29=26 (LC 16), 30=43 (LC 16), 31=1138 (LC 13), 32=10 (LC 14)
Max Grav	18=92 (LC 34), 19=249 (LC 34), 20=240 (LC 34), 21=239 (LC 34), 22=241 (LC 34), 23=236 (LC 34), 24=195 (LC 35), 25=226 (LC 35), 26=222 (LC 35), 27=224 (LC 35), 28=223 (LC 35), 29=221 (LC 35), 30=233 (LC 35), 31=180 (LC 35), 32=1251 (LC 13)

#### FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension 1-32=1779/1089, 1-2=321/184, 2-4=338/206, 4-5=283/180, 5-6=256/172, 6-7=221/160, 7-8=191/150, 8-9=167/137, 9-10=162/149, 10-11=146/155, 11-12=141/157, 12-13=141/157, 13-14=141/157, 14-15=141/157, 15-16=141/157, 16-17=141/157, 17-18=123/130
BOT CHORD	31-32=470/341, 30-31=142/156, 29-30=142/156, 28-29=142/156, 27-28=142/156, 25-27=142/157, 24-25=142/157, 23-24=142/157, 22-23=142/157, 21-22=142/157, 20-21=142/157, 19-20=142/157, 18-19=142/157
WEBS	16-19=207/111, 15-20=201/61, 14-21=199/44, 13-22=201/48, 12-23=196/57, 10-24=154/87, 9-25=188/68, 8-26=182/69, 7-27=183/60, 6-28=183/66, 5-29=182/59, 4-30=190/120, 2-31=133/60, 1-31=1101/1762

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.

- \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.



June 6,2025

Continued on page 2

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

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ENGINEERING BY  
**TRENCO**  
A MITEK Affiliate

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH
Farmhouse	A01G	Piggyback Base Supported Gable	1	1	T37548547
					Job Reference (optional)

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 32, 21 lb uplift at joint 18, 32 lb uplift at joint 19, 31 lb uplift at joint 20, 23 lb uplift at joint 21, 20 lb uplift at joint 22, 29 lb uplift at joint 23, 33 lb uplift at joint 24, 35 lb uplift at joint 25, 31 lb uplift at joint 26, 27 lb uplift at joint 27, 31 lb uplift at joint 28, 26 lb uplift at joint 29, 43 lb uplift at joint 30 and 1138 lb uplift at joint 31.
- 14) 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

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 1-11=-52, 11-17=-60, 18-32=-20



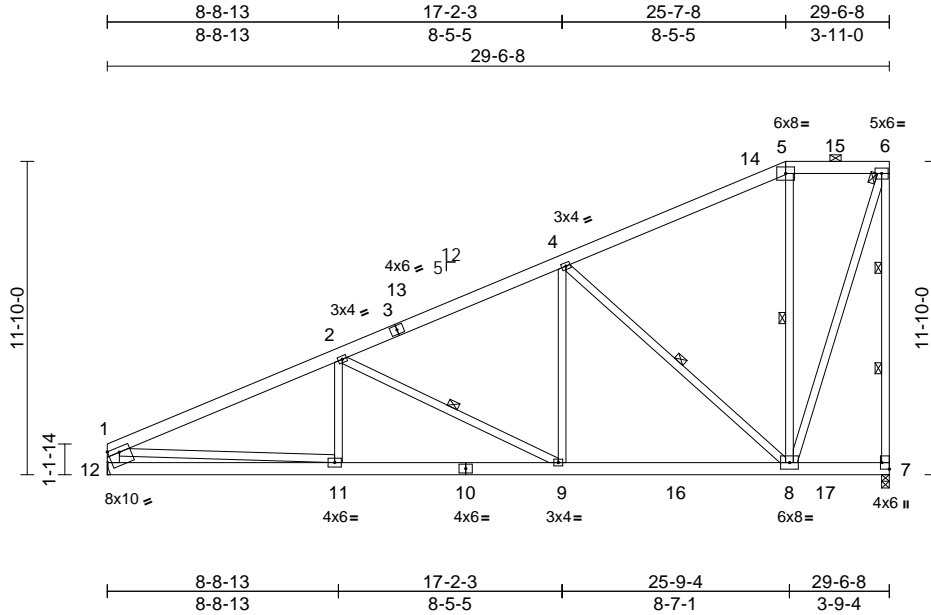
June 6,2025

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548548
Farmhouse	A02	Piggyback Base	6	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:19  
ID:H2focE6Og1VJGrp75VNSc5zFKam-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:87

Plate Offsets (X, Y): [7:Edge,0-3-8], [12:Edge,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	1.00	TC	0.95	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.17	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 253 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 6-7,11-1:2x4 SP No.2,  
12-1:2x6 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
4-8-0 oc purlins, except end verticals, and  
2-0-0 oc purlins (6-0-0 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 9-7-12 oc  
bracing.

WEBS 1 Row at midpt 5-8, 2-9, 4-8  
WEBS 2 Rows at 1/3 pts 6-7

#### REACTIONS

(size) 7=0-3-8, 12= Mechanical  
Max Horiz 12=398 (LC 13)  
Max Uplift 7=141 (LC 16), 12=92 (LC 16)  
Max Grav 7=1332 (LC 35), 12=1253 (LC 35)

#### FORCES

(lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-2=-2202/281, 2-4=-1627/247,  
4-5=-622/185, 5-6=-436/210, 6-7=-1304/255,  
1-12=-1157/204  
BOT CHORD 11-12=-584/628, 9-11=-557/1960,  
8-9=-372/1408, 7-8=-137/153  
WEBS 5-8=-269/202, 1-11=-105/1485, 2-11=0/256,  
2-9=-668/207, 4-9=0/585, 4-8=-1341/274,  
6-8=-273/1358

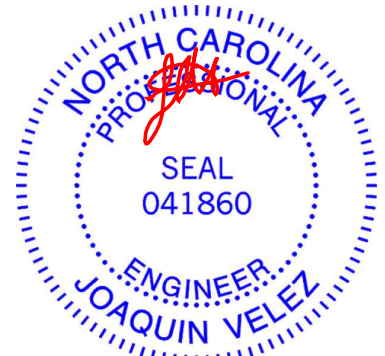
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum  
DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof  
snow); Ps= varies (min. roof snow=15.8 psf Lum  
DOL=1.15 Plate DOL=1.00) see load cases; Category II;  
Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery  
surface
- Roof design snow load has been reduced to account for  
slope.
- Unbalanced snow loads have been considered for this  
design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 141 lb uplift at joint  
7 and 92 lb uplift at joint 12.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate  
Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-5=-52, 5-6=-60, 7-12=-20



June 6,2025

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

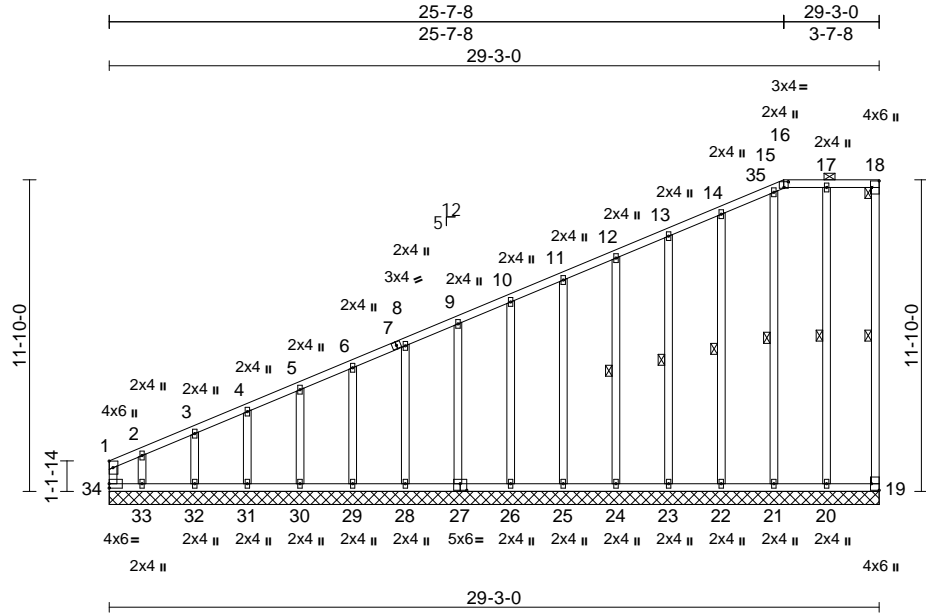
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548549
Farmhouse	A02G	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:19  
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Page: 1



Scale = 1:87.5

Plate Offsets (X, Y): [16:0-2-0,0-2-11], [18:Edge,0-3-8], [19:Edge,0-3-8], [27:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	-0.01	19	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 243 lb FT = 20%											

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 18-19:2x4 SP No.2
OTHERS	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.): 16-18.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 18-19, 17-20, 15-21, 14-22, 13-23, 12-24

#### REACTIONS

(size)	19=29-3-0, 20=29-3-0, 21=29-3-0, 22=29-3-0, 23=29-3-0, 24=29-3-0, 25=29-3-0, 26=29-3-0, 27=29-3-0, 28=29-3-0, 29=29-3-0, 30=29-3-0, 31=29-3-0, 32=29-3-0, 33=29-3-0, 34=29-3-0
Max Horiz	34=403 (LC 13)
Max Uplift	19=14 (LC 13), 20=21 (LC 12), 21=48 (LC 13), 22=39 (LC 16), 23=28 (LC 16), 24=30 (LC 16), 25=30 (LC 16), 26=28 (LC 16), 27=32 (LC 16), 28=26 (LC 16), 29=31 (LC 16), 30=27 (LC 16), 31=37 (LC 16), 33=343 (LC 13)
Max Grav	19=93 (LC 34), 20=251 (LC 34), 21=181 (LC 35), 22=230 (LC 35), 23=222 (LC 35), 24=223 (LC 35), 25=223 (LC 35), 26=221 (LC 35), 27=226 (LC 35), 28=185 (LC 35), 29=160 (LC 2), 30=160 (LC 2), 31=159 (LC 2), 32=165 (LC 2), 33=137 (LC 2), 34=436 (LC 13)

#### FORCES

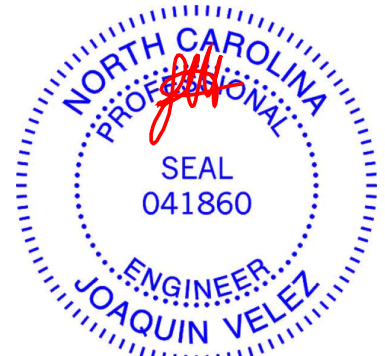
(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-34=-409/199, 1-2=-592/301, 2-3=-472/245, 3-4=-448/238, 4-5=-413/226, 5-6=-381/215, 6-8=-348/203, 8-9=-316/192, 9-10=-283/181, 10-11=-251/170, 11-12=-218/158, 12-13=-185/147, 13-14=-169/136, 14-15=-159/152, 15-16=-149/159, 16-17=-140/156, 17-18=-140/156, 18-19=-126/132
BOT CHORD	33-34=-139/155, 32-33=-139/155, 31-32=-139/155, 30-31=-139/155, 29-30=-139/155, 28-29=-139/155, 26-28=-140/155, 25-26=-140/155, 24-25=-140/155, 23-24=-140/155, 22-23=-140/155, 21-22=-140/155, 20-21=-140/155, 19-20=-140/155
WEBS	17-20=-209/127, 15-21=-141/77, 14-22=-190/65, 13-23=-182/61, 12-24=-183/61, 11-25=-183/63, 10-26=-182/60, 9-27=-186/66, 8-28=-143/60, 6-29=-120/63, 5-30=-120/61, 4-31=-119/67, 3-32=-124/51, 2-33=-184/298

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.



June 6,2025

Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH
Farmhouse	A02G	Piggyback Base Supported Gable	1	1	T37548549
					Job Reference (optional)

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 19, 21 lb uplift at joint 20, 48 lb uplift at joint 21, 39 lb uplift at joint 22, 28 lb uplift at joint 23, 30 lb uplift at joint 24, 30 lb uplift at joint 25, 28 lb uplift at joint 26, 32 lb uplift at joint 27, 26 lb uplift at joint 28, 31 lb uplift at joint 29, 27 lb uplift at joint 30, 37 lb uplift at joint 31 and 343 lb uplift at joint 33.
- 14) 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

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 1-16=-52, 16-18=-60, 19-34=-20



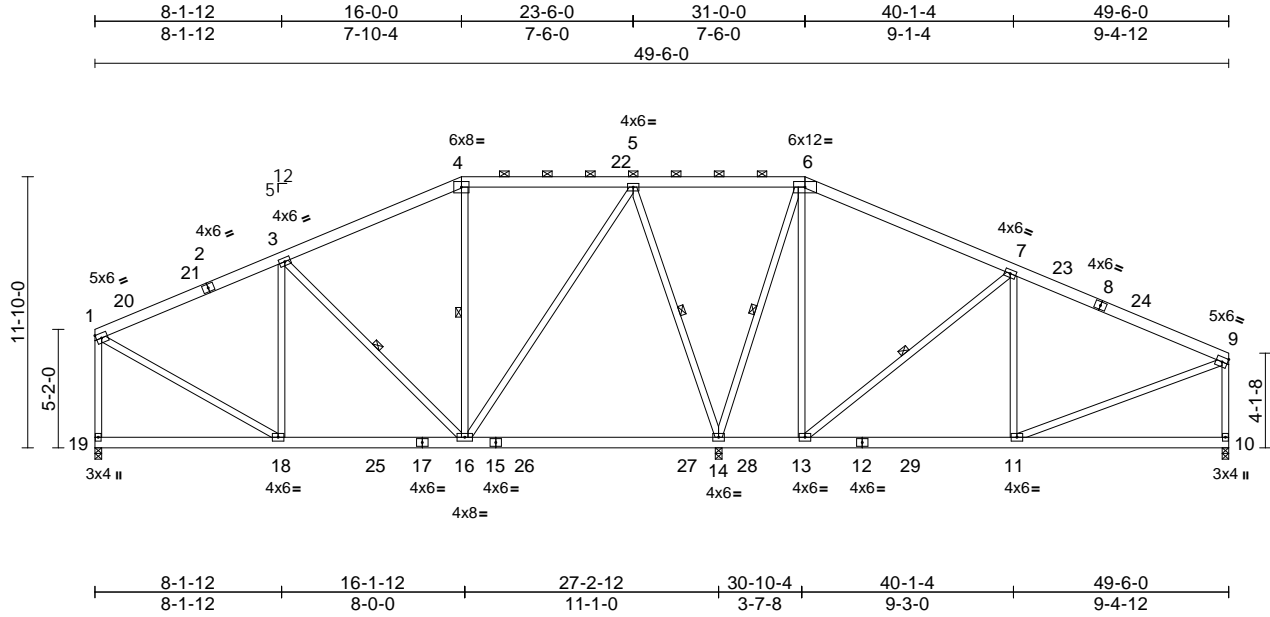
June 6,2025

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548550
Farmhouse	A03	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:20  
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Scale = 1:100.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.14	14-16	>999	240	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.22	14-16	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.01	10	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 419 lb FT = 20%											

<b>LUMBER</b>	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 16-5:2x4 SP No.2
<b>BRACING</b>	
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.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-16, 5-14, 6-14, 3-16, 7-13
<b>REACTIONS</b> (size) 10=0-3-8, 14=0-3-8, 19=0-3-8	
Max Horiz	19=138 (LC 14)
Max Uplift	10=76 (LC 17), 14=119 (LC 13), 19=101 (LC 16)
Max Grav	10=886 (LC 38), 14=2417 (LC 44), 19=1163 (LC 38)
<b>FORCES</b> (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-1002/188, 3-4=-708/217, 4-5=-556/235, 5-6=0/338, 6-7=-255/167, 7-9=-880/168, 9-10=-807/155, 1-19=-1090/195
BOT CHORD	18-19=-124/162, 16-18=-116/854, 14-16=-52/261, 13-14=-73/178, 11-13=-78/733, 10-11=-34/56
WEBS	4-16=-213/89, 5-14=-1380/264, 6-14=-1173/200, 6-13=-69/639, 3-18=-332/167, 5-16=-91/925, 3-16=-516/165, 9-11=-48/746, 1-18=-127/964, 7-11=-64/272, 7-13=-917/204

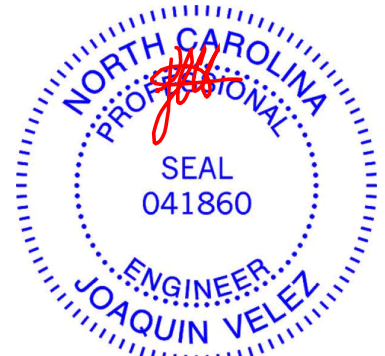
#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 10, 119 lb uplift at joint 14 and 101 lb uplift at joint 19.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-52, 4-6=-60, 6-9=-52, 10-19=-20



June 6, 2025

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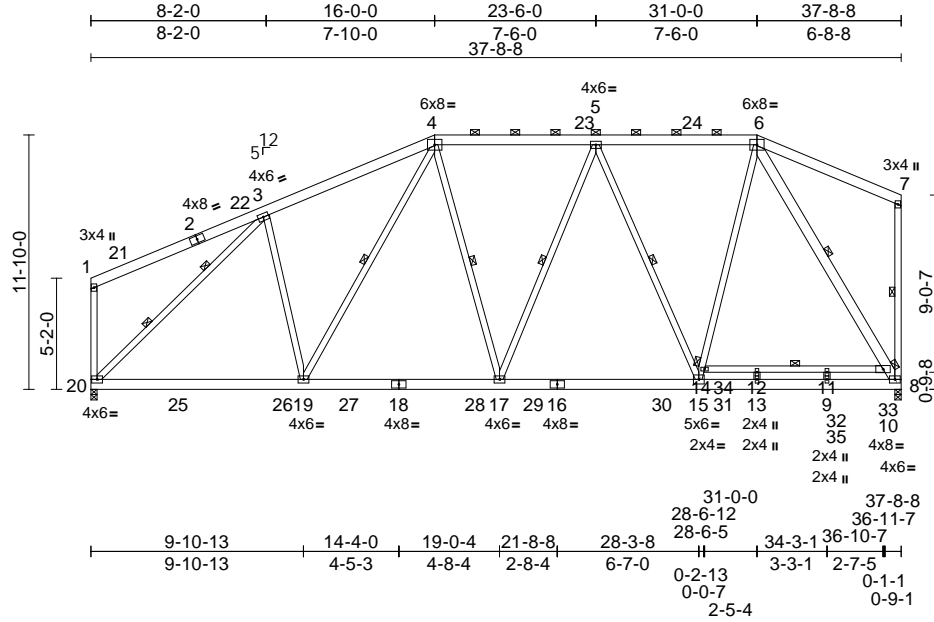
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548551
Farmhouse	A04A	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:20

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Scale = 1:107.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.17	11-12	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.29	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 358 lb	FT = 20%

#### LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 14-10:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 8-6:2x6 SP No.2, 19-4,20-3:2x4 SP No.2

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-6 max.): 4-6
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-8, 6-10, 4-19, 4-17, 5-17, 5-15
WEBS	2 Rows at 1/3 pts 3-20

#### REACTIONS

(size)	8=0-3-8, 20=0-3-8
Max Horiz	20=278 (LC 13)
Max Uplift	8=-16 (LC 13), 20=-102 (LC 16)
Max Grav	8=2003 (LC 43), 20=1818 (LC 44)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-138/145, 3-4=-1796/329, 4-5=-1572/298, 5-6=-1289/241, 6-7=-172/192, 7-8=-285/153, 1-20=-256/129
BOT CHORD	19-20=-401/1497, 17-19=-305/1484, 15-17=-258/1575, 13-15=-161/1055, 9-13=-161/1055, 8-9=-161/1055, 12-14=-83/0, 11-12=-83/0, 10-11=-83/0
WEBS	6-10=-1925/219, 8-10=-2029/187, 4-19=-201/273, 4-17=-97/396, 5-17=-116/300, 5-15=-822/226, 14-15=-29/1286, 6-14=-11/1351, 12-13=-191/0, 9-11=-61/0, 3-19=-36/561, 3-20=-2085/239

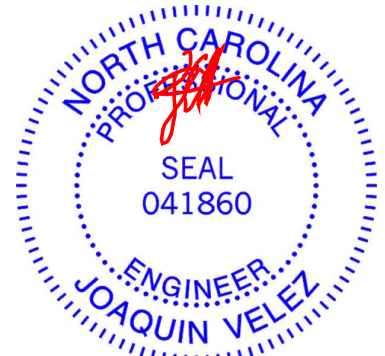
#### NOTES

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 20 and 16 lb uplift at joint 8.
- 10) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-52, 4-6=-60, 6-7=-52, 8-20=-20, 10-14=-20



June 6, 2025

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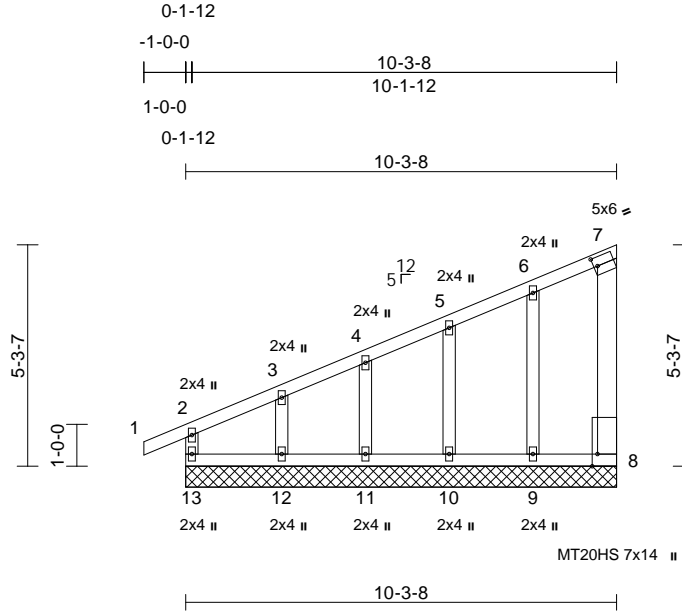
818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548552
Farmhouse	A04G	Monopitch Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:21  
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Page: 1



Scale = 1:55

Plate Offsets (X, Y): [7:0-1-1,0-2-8], [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	1.00	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 61 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size)	8=10-3-8, 9=10-3-8, 10=10-3-8, 11=10-3-8, 12=10-3-8, 13=10-3-8
Max Horiz	13=171 (LC 15)
Max Uplift	8=408 (LC 13), 10=127 (LC 16), 11=7 (LC 16), 12=30 (LC 16), 13=47 (LC 12)
Max Grav	8=63 (LC 23), 9=539 (LC 13), 10=163 (LC 23), 11=160 (LC 2), 12=160 (LC 2), 13=187 (LC 22)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

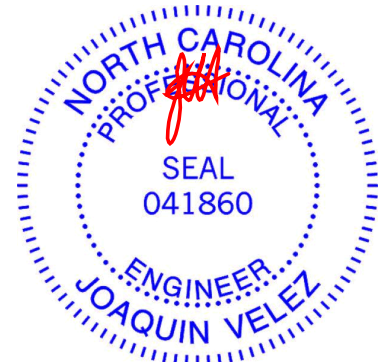
TOP CHORD	1-2=0/44, 2-3=-29/61, 3-4=-35/94, 4-5=-45/130, 5-6=-75/189, 6-7=-68/124, 7-8=-186/330
BOT CHORD	12-13=-286/173, 11-12=-286/173, 10-11=-286/173, 9-10=-286/173, 8-9=-286/173
WEBS	6-9=-380/145, 5-10=-124/164, 4-11=-122/68, 3-12=-112/77, 2-13=-170/118

#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 13, 408 lb uplift at joint 8, 127 lb uplift at joint 10, 7 lb uplift at joint 11 and 30 lb uplift at joint 12.

LOAD CASE(S) Standard



June 6,2025

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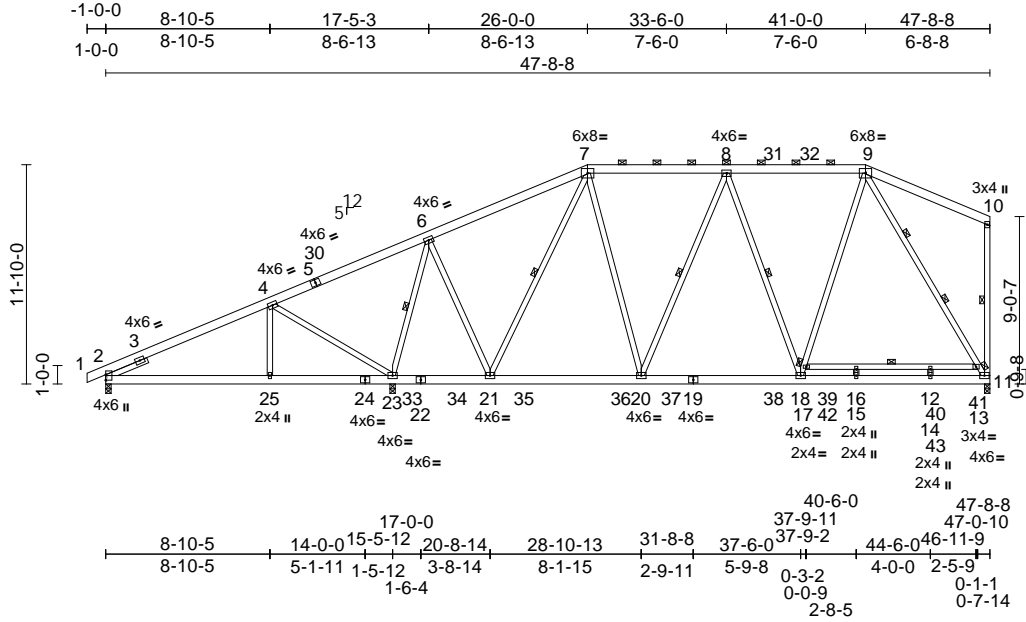
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548553
Farmhouse	A05	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:21

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Scale = 1:124.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.25	14-15	>999	240	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.41	14-15	>937	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.04	11	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 409 lb FT = 20%											

<b>LUMBER</b>	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-13:2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-25,23-4,23-6,16-15,12-14:2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 2-5-0
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17,14-15,13-14.
WEBS	1 Row at midpt 6-23, 10-11, 7-21, 8-20, 8-18
WEBS	2 Rows at 1/3 pts 9-13
<b>REACTIONS</b>	
(size)	2=0-3-8, 11=0-3-8, 23=0-3-8
Max Horiz	2=299 (LC 15)
Max Uplift	2=-57 (LC 16), 23=-161 (LC 16)
Max Grav	2=637 (LC 54), 11=1772 (LC 44), 23=2220 (LC 45)
<b>FORCES</b>	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/38, 2-4=-632/127, 4-6=-101/264, 6-7=-836/255, 7-8=-1149/267, 8-9=-1143/225, 9-10=-178/190, 10-11=-288/152
BOT CHORD	2-25=-401/583, 23-25=-324/583, 21-23=-203/334, 20-21=-205/998, 18-20=-185/1275, 16-18=-125/904, 12-16=-125/904, 11-12=-125/904, 15-17=-87/0, 14-15=-87/0, 13-14=-87/0
WEBS	4-25=0/330, 4-23=-790/220, 6-23=-1775/262, 9-13=-1608/162, 11-13=-1717/126, 7-21=-744/49, 6-21=0/1010, 7-20=0/622, 8-20=-376/43, 8-18=-549/179, 17-18=0/1020, 9-17=0/1094, 15-16=-209/0, 12-14=-72/0

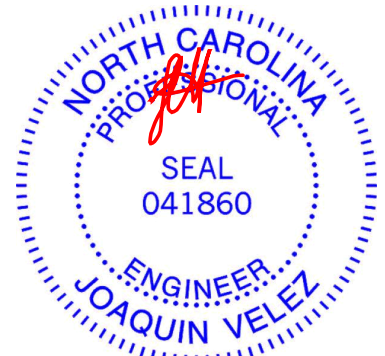
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 161 lb uplift at joint 23.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)

Vert: 1-7=-52, 7-9=-60, 9-10=-52, 11-26=-20, 13-17=-20



June 6,2025

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Edenton, NC 27932

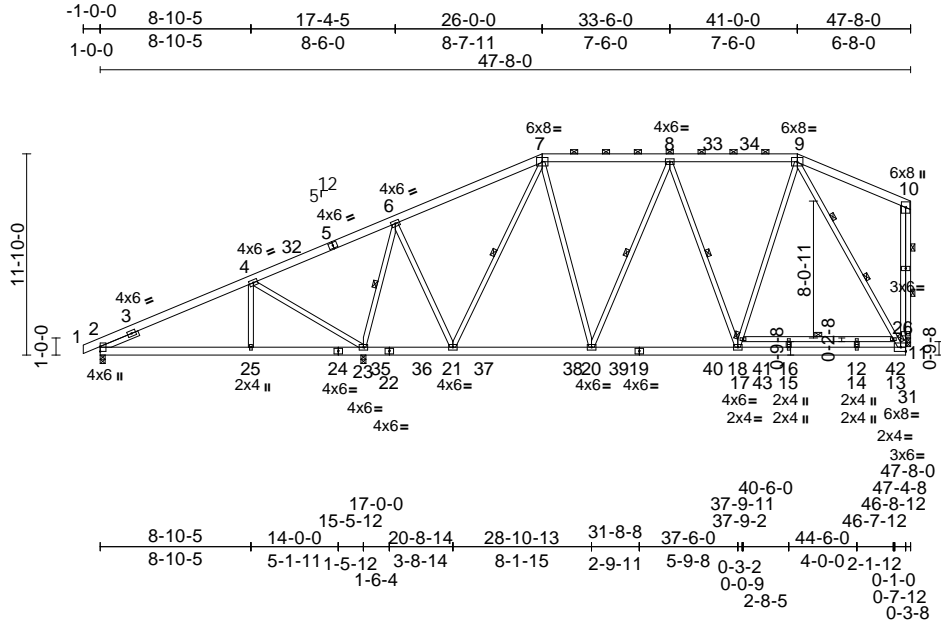
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548554
Farmhouse	A05A	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:22

Page: 1

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Scale = 1:135.5

Loading	(psf)	Spacing	2-1-8	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.23	14-15	>999	240	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.39	14-15	>978	180	
TCDL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	-0.03	31	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 419 lb FT = 20%											

<b>LUMBER</b>	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-13:2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 2-5-0
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	6-0-0 oc bracing: 15-17, 14-15, 13-14.
WEBS	1 Row at midpt 7-21, 8-20, 8-18, 6-23
WEBS	2 Rows at 1/3 pts 9-13, 10-31
<b>REACTIONS</b>	
(size)	2=0-3-8, 23=0-3-8, 31=0-3-0
Max Horiz	2=327 (LC 16)
Max Uplift	2=-38 (LC 16), 23=-184 (LC 16)
Max Grav	2=641 (LC 54), 23=2425 (LC 45), 31=1816 (LC 44)
<b>FORCES</b>	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/41, 2-4=-591/41, 4-6=-65/369, 6-7=-812/184, 7-8=-1176/211, 8-9=-1179/156, 9-10=-194/69, 11-12=-10/1698, 10-26=-10/1698
BOT CHORD	2-25=-348/546, 23-25=-271/546, 21-23=-142/254, 20-21=-138/1009, 18-20=-124/1316, 16-18=-64/939, 12-16=-64/939, 11-12=-64/939, 15-17=-91/0, 14-15=-91/0, 13-14=-91/0
WEBS	7-21=-851/45, 8-20=-418/55, 7-20=0/688, 9-13=-1579/132, 11-13=-1684/101, 8-18=-567/182, 17-18=0/1032, 9-17=0/1109, 4-25=0/355, 4-23=-845/228, 6-23=-1947/271, 6-21=0/1138, 15-16=-214/0, 12-14=-78/0, 10-31=-1818/104

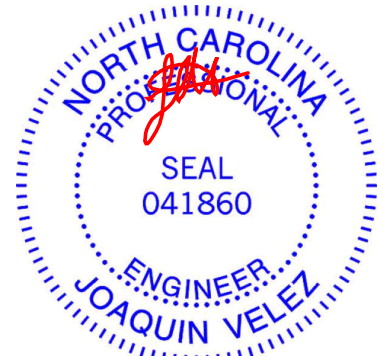
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Bearing at joint(s) 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 23 and 38 lb uplift at joint 2.

13) 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
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 1-7=-55, 7-9=-64, 9-10=-55, 11-27=-21, 13-17=-21



June 6,2025

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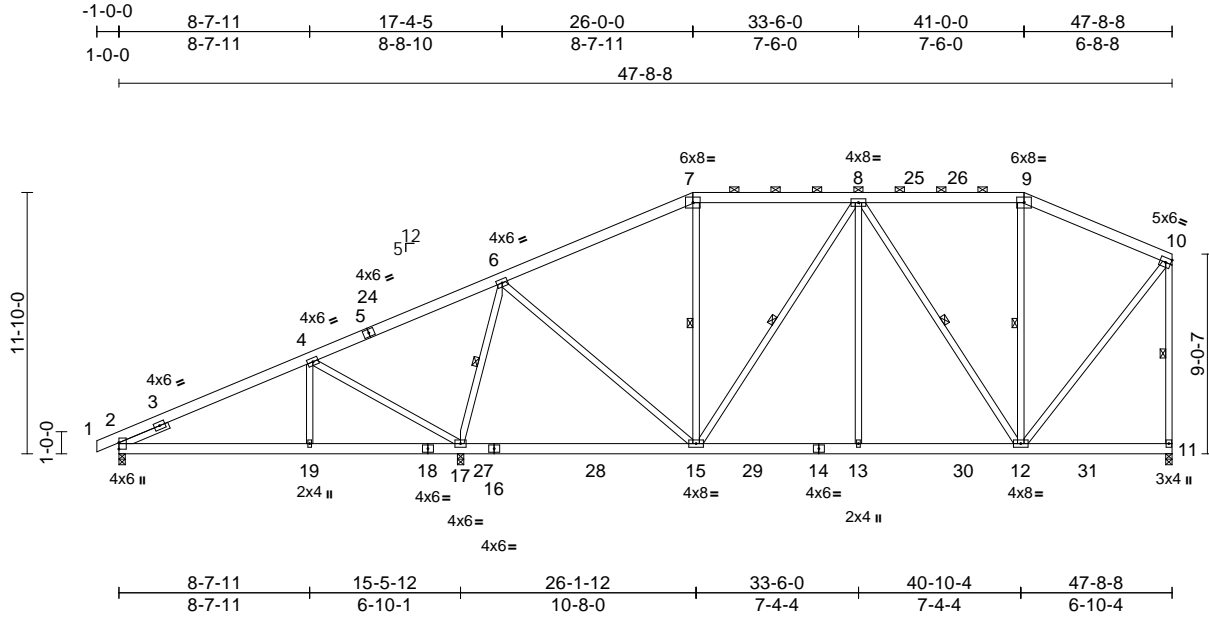
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548555
Farmhouse	A06	Piggyback Base	5	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:22  
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Page: 1



Scale = 1:104.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.80	-0.10	15-17	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	15-17	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.02	11	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 396 lb FT = 20%											

**LUMBER**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 12-8,8-15:2x4 SP No.2  
SLIDER Left 2x4 SP No.3 -- 2-5-0

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 7-15, 8-12, 9-12, 10-11, 8-15, 6-17

**REACTIONS** (size) 2=0-3-8, 11=0-3-8, 17=0-3-8  
Max Horiz 2=299 (LC 15)  
Max Uplift 2=-58 (LC 16), 11=-86 (LC 13), 17=-178 (LC 16)  
Max Grav 2=616 (LC 54), 11=1449 (LC 44), 17=2191 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/38, 2-4=-597/128, 4-6=-121/298, 6-7=-1052/266, 7-8=-927/285, 8-9=-738/255, 9-10=-822/241, 10-11=-1326/228  
BOT CHORD 2-19=-397/552, 17-19=-325/552, 15-17=-202/263, 13-15=-210/1159, 12-13=-210/1159, 11-12=-98/110  
WEBS 7-15=-169/114, 8-12=-774/108, 9-12=-226/152, 10-12=-151/1196, 8-13=0/382, 8-15=-437/51, 4-19=0/286, 4-17=-778/236, 6-17=-1662/334, 6-15=-7/952

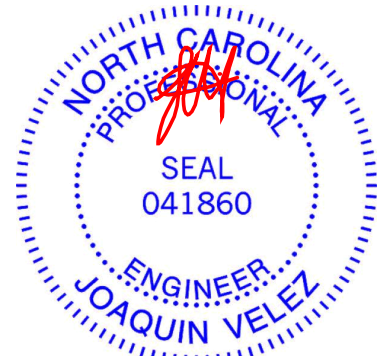
#### NOTES

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2, 86 lb uplift at joint 11 and 178 lb uplift at joint 17.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-7=-52, 7-9=-60, 9-10=-52, 11-20=-20



June 6,2025

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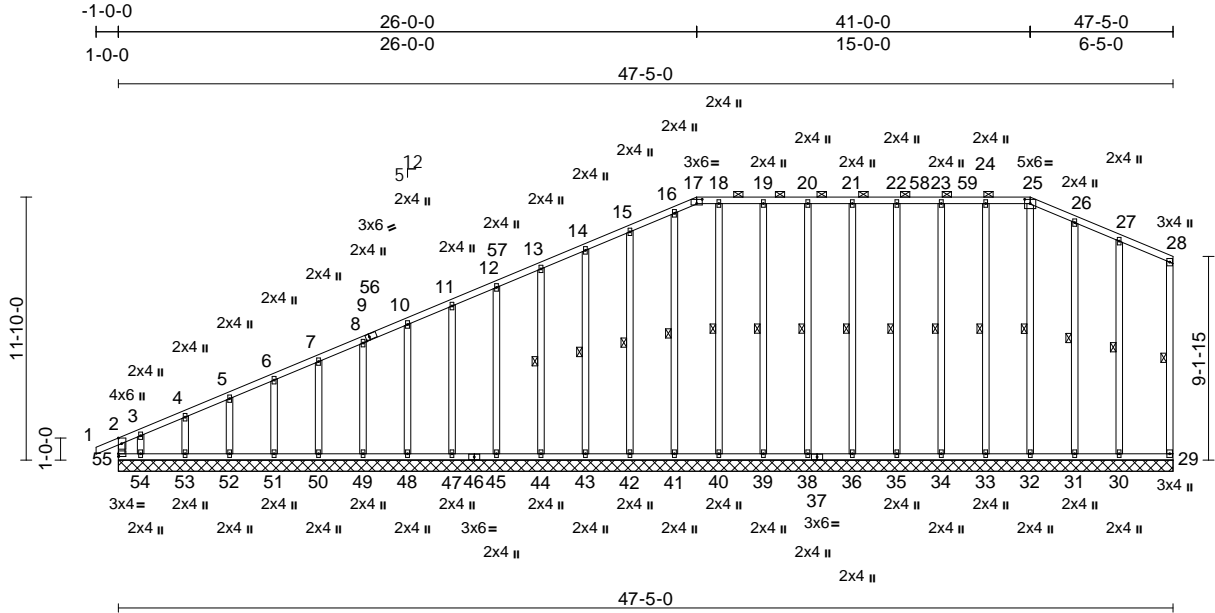
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548556
Farmhouse	A06G	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:23  
ID:oP9Sw8SDPCzNmo9r2hecFhzrASh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCdoi7J4zJC7f

Page: 1



Scale = 1:103.6

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [9:0-2-1,0-1-8], [17:0-3-0,0-2-4], [25:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	29	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 438 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, and 2-0-0 oc purlins (6-0-0 max.): 17-25.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 28-29, 25-32, 24-33, 23-34, 22-35, 21-36, 20-38, 19-39, 18-40, 16-41, 15-42, 14-43, 13-44, 26-31, 27-30

#### REACTIONS (size)

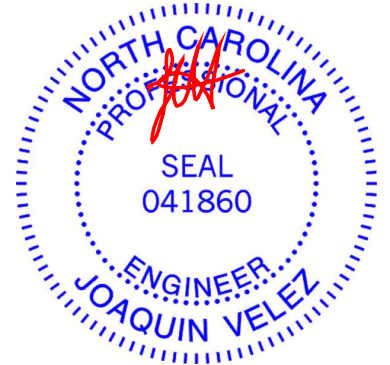
29=47-5-0, 30=47-5-0, 31=47-5-0, 32=47-5-0, 33=47-5-0, 34=47-5-0, 35=47-5-0, 36=47-5-0, 38=47-5-0, 39=47-5-0, 40=47-5-0, 41=47-5-0, 42=47-5-0, 43=47-5-0, 44=47-5-0, 45=47-5-0, 47=47-5-0, 48=47-5-0, 49=47-5-0, 50=47-5-0, 51=47-5-0, 52=47-5-0, 53=47-5-0, 54=47-5-0, 55=47-5-0  
Max Horiz 55=314 (LC 13)  
Max Uplift 29=31 (LC 12), 30=28 (LC 17), 31=36 (LC 17), 32=6 (LC 13), 33=21 (LC 13), 34=19 (LC 12), 35=18 (LC 13), 36=18 (LC 12), 38=18 (LC 13), 39=24 (LC 12), 40=16 (LC 13), 41=4 (LC 13), 42=36 (LC 16), 43=28 (LC 16), 44=29 (LC 16), 45=29 (LC 16), 47=29 (LC 16), 48=29 (LC 16), 49=29 (LC 16), 50=30 (LC 16), 51=28 (LC 16), 52=34 (LC 16), 53=11 (LC 16), 54=268 (LC 16)

Max Grav 29=108 (LC 39), 30=263 (LC 39), 31=225 (LC 39), 32=159 (LC 38), 33=252 (LC 38), 34=239 (LC 38), 35=240 (LC 38), 36=240 (LC 38), 38=239 (LC 38), 39=243 (LC 38), 40=224 (LC 38), 41=209 (LC 39), 42=226 (LC 39), 43=222 (LC 39), 44=223 (LC 39), 45=223 (LC 39), 47=223 (LC 39), 48=222 (LC 39), 49=160 (LC 39), 50=160 (LC 54), 51=161 (LC 2), 52=158 (LC 54), 53=169 (LC 2), 54=81 (LC 7), 55=334 (LC 13)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 2-55=-307/114, 1-2=0/44, 2-3=-456/224, 3-4=-357/186, 4-5=-329/176, 5-6=-295/164, 6-7=-262/153, 7-8=-230/141, 8-10=-197/130, 10-11=-164/118, 11-12=-133/107, 12-13=-122/101, 13-14=-121/134, 14-15=-132/166, 15-16=-146/202, 16-17=-145/211, 17-18=-137/210, 18-19=-137/210, 19-20=-137/210, 20-21=-137/210, 21-22=-137/210, 22-23=-137/210, 23-24=-137/210, 24-25=-137/210, 25-26=-151/216, 26-27=-134/180, 27-28=-142/166, 28-29=-124/128

BOT CHORD 54-55=-103/115, 53-54=-103/115, 52-53=-103/115, 51-52=-103/115, 50-51=-103/115, 49-50=-103/115, 48-49=-103/115, 47-48=-103/115, 45-47=-103/115, 44-45=-103/115, 43-44=-103/115, 42-43=-103/115, 41-42=-103/115, 40-41=-103/115, 39-40=-103/115, 38-39=-103/115, 36-38=-103/115, 35-36=-103/115, 34-35=-103/115, 33-34=-103/115, 32-33=-103/115, 31-32=-103/115, 30-31=-103/115, 29-30=-103/115



June 6, 2025

Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH
Farmhouse	A06G	Piggyback Base Supported Gable	1	1	T37548556
					Job Reference (optional)

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:23

Page: 2

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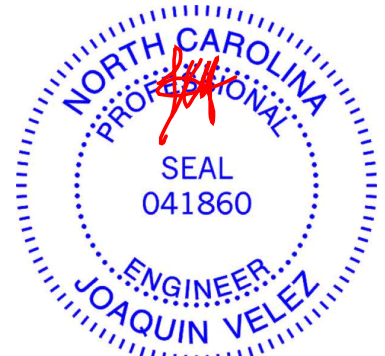
WEBS 25-32=-118/36, 24-33=-212/44,  
23-34=-199/45, 22-35=-200/43,  
21-36=-200/43, 20-38=-199/43,  
19-39=-203/52, 18-40=-184/40,  
16-41=-169/51, 15-42=-186/72,  
14-43=-182/61, 13-44=-183/61,  
12-45=-183/61, 11-47=-183/61,  
10-48=-182/61, 8-49=-120/61, 7-50=-120/61,  
6-51=-120/61, 5-52=-118/64, 4-53=-127/58,  
3-54=-141/246, 26-31=-187/71,  
27-30=-215/105

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) \*\*TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lum DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 29, 6 lb uplift at joint 32, 21 lb uplift at joint 33, 19 lb uplift at joint 34, 18 lb uplift at joint 35, 18 lb uplift at joint 36, 18 lb uplift at joint 38, 24 lb uplift at joint 39, 16 lb uplift at joint 40, 4 lb uplift at joint 41, 36 lb uplift at joint 42, 28 lb uplift at joint 43, 29 lb uplift at joint 44, 29 lb uplift at joint 45, 29 lb uplift at joint 47, 29 lb uplift at joint 48, 29 lb uplift at joint 49, 30 lb uplift at joint 50, 28 lb uplift at joint 51, 34 lb uplift at joint 52, 11 lb uplift at joint 53, 268 lb uplift at joint 54, 36 lb uplift at joint 31 and 28 lb uplift at joint 30.
- 15) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-2=-52, 2-17=-52, 17-25=-60, 25-28=-52, 29-55=-20



June 6, 2025

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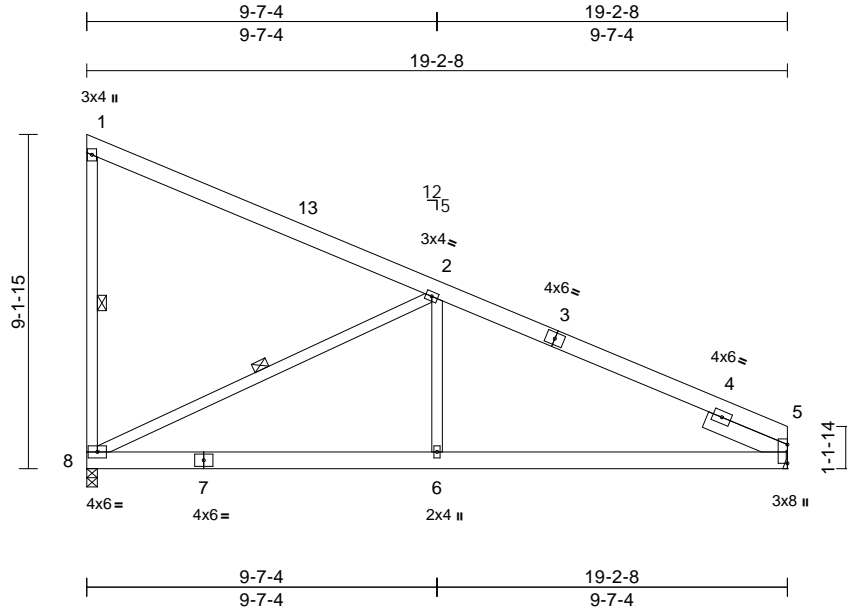
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548557
Farmhouse	A07	Roof Special	8	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:24  
ID:6xt2FPT38iCwxRVi6F6G1gzqBAT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.07	6-8	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.14	6-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 133 lb	FT = 20%

#### LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* 2-6:2x4 SP No.3
SLIDER	Right 2x6 SP No.2 -- 2-5-0

#### BRACING

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

WEBS 1 Row at midpt 1-8, 2-8

REACTIONS	(size) 5= Mechanical, 8=0-3-8
	Max Horiz 8=-296 (LC 14)
	Max Uplift 5=-53 (LC 17), 8=-118 (LC 17)
	Max Grav 5=763 (LC 2), 8=833 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

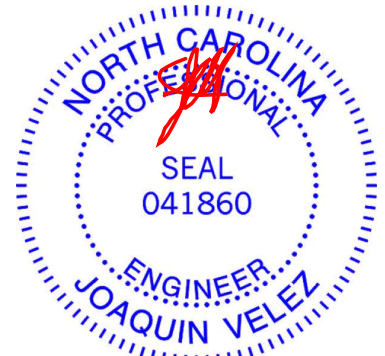
TOP CHORD	1-8=-314/136, 1-2=-208/123, 2-5=-1000/175
BOT CHORD	6-8=-70/923, 5-6=-117/923
WEBS	2-6=0/419, 2-8=-1017/284

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 8 and 53 lb uplift at joint 5.

LOAD CASE(S) Standard



June 6, 2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacompnents.com](http://www.sbcacompnents.com))

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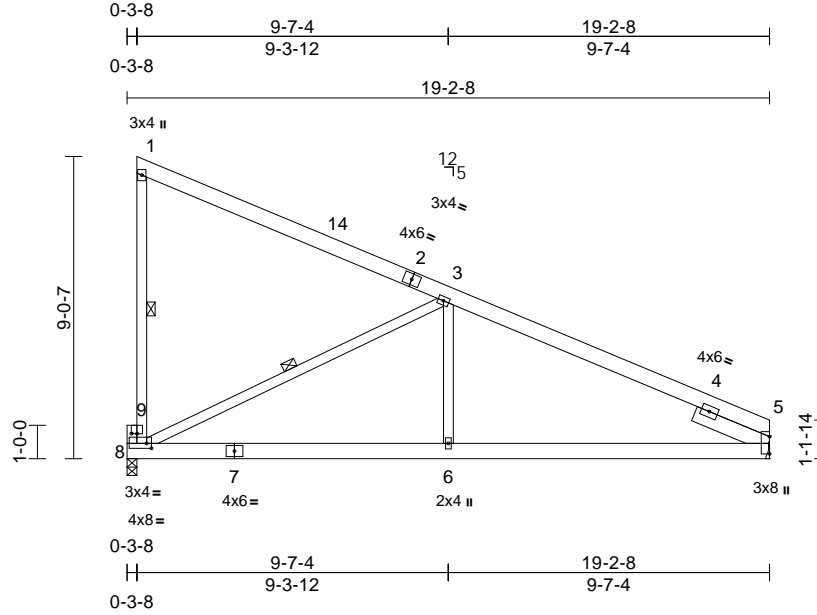
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548558
Farmhouse	A07A	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:24  
ID:6xt2FPT38iCwxRVi6F6G1gzqBAT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:68.9

Plate Offsets (X, Y): [8:0-1-12,0-1-12], [9:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.06	6-8	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	6-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 133 lb	FT = 20%

#### LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* 3-6:2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 -- 2-5-0

#### BRACING

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

WEBS 1 Row at midpt 1-8, 3-8

#### REACTIONS

(size)	5= Mechanical, 8=0-3-8
Max Horiz	8=-262 (LC 14)
Max Uplift	5=-46 (LC 17), 8=-122 (LC 17)
Max Grav	5=757 (LC 2), 8=816 (LC 23)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-8=-302/140, 1-3=-192/112, 3-5=-893/177
BOT CHORD	6-8=-71/907, 5-6=-120/907
WEBS	3-6=0/413, 3-8=-998/273

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface

- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 8 and 46 lb uplift at joint 5.

LOAD CASE(S) Standard



June 6,2025

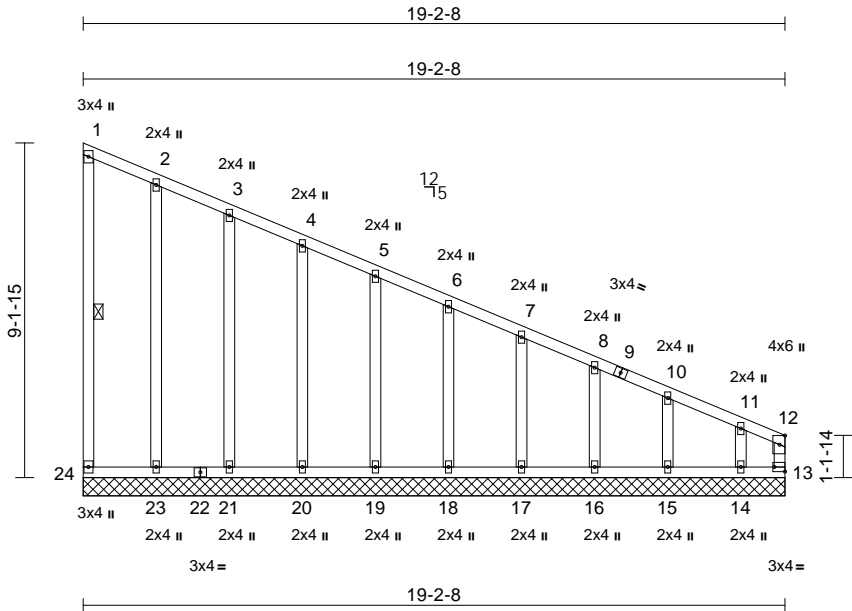
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548559
Farmhouse	A07G	Roof Special Supported Gable	1	1	Job Reference (optional)	



Scale = 1:63.1
Plate Offsets (X, Y): [13:Edge,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	1.00	TC	0.69	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	13	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 133 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.  
WEBS 1 Row at midpt 1-24

**REACTIONS** (size)  
13=19-2-8, 14=19-2-8, 15=19-2-8, 16=19-2-8, 17=19-2-8, 18=19-2-8, 19=19-2-8, 20=19-2-8, 21=19-2-8, 23=19-2-8, 24=19-2-8  
Max Horiz 24=306 (LC 12)  
Max Uplift 14=266 (LC 12), 15=8 (LC 17), 16=35 (LC 17), 17=28 (LC 17), 18=30 (LC 17), 19=29 (LC 17), 20=31 (LC 17), 21=26 (LC 17), 23=31 (LC 17), 24=33 (LC 12)  
Max Grav 13=335 (LC 12), 14=138 (LC 2), 15=165 (LC 2), 16=159 (LC 2), 17=160 (LC 2), 18=160 (LC 2), 19=160 (LC 2), 20=175 (LC 23), 21=208 (LC 23), 23=215 (LC 23), 24=79 (LC 23)

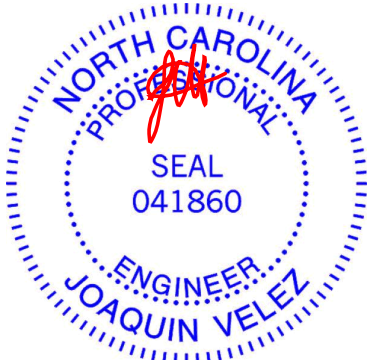
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-24=-63/41, 1-2=-104/101, 2-3=-136/117, 3-4=-161/125, 4-5=-194/137, 5-6=-227/148, 6-7=-260/160, 7-8=-292/171, 8-10=-327/183, 10-11=-353/192, 11-12=-452/238, 12-13=-317/159

**BOT CHORD** 23-24=-207/384, 21-23=-207/384, 20-21=-207/384, 19-20=-207/384, 18-19=-207/384, 17-18=-207/384, 16-17=-207/384, 15-16=-207/384, 14-15=-207/384, 13-14=-207/384  
**WEBS** 2-23=-172/107, 3-21=-169/76, 4-20=-134/62, 5-19=-120/62, 6-18=-120/62, 7-17=-120/61, 8-16=-119/65, 10-15=-124/55, 11-14=-161/245

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33  
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.  
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface  
5) Roof design snow load has been reduced to account for slope.  
6) Unbalanced snow loads have been considered for this design.  
7) Gable requires continuous bottom chord bearing.  
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).  
9) Gable studs spaced at 2-0-0 oc.  
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) \* 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.  
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 24, 31 lb uplift at joint 23, 26 lb uplift at joint 21, 31 lb uplift at joint 20, 29 lb uplift at joint 19, 30 lb uplift at joint 18, 28 lb uplift at joint 17, 35 lb uplift at joint 16, 8 lb uplift at joint 15 and 266 lb uplift at joint 14.

**LOAD CASE(S)** Standard



June 6,2025

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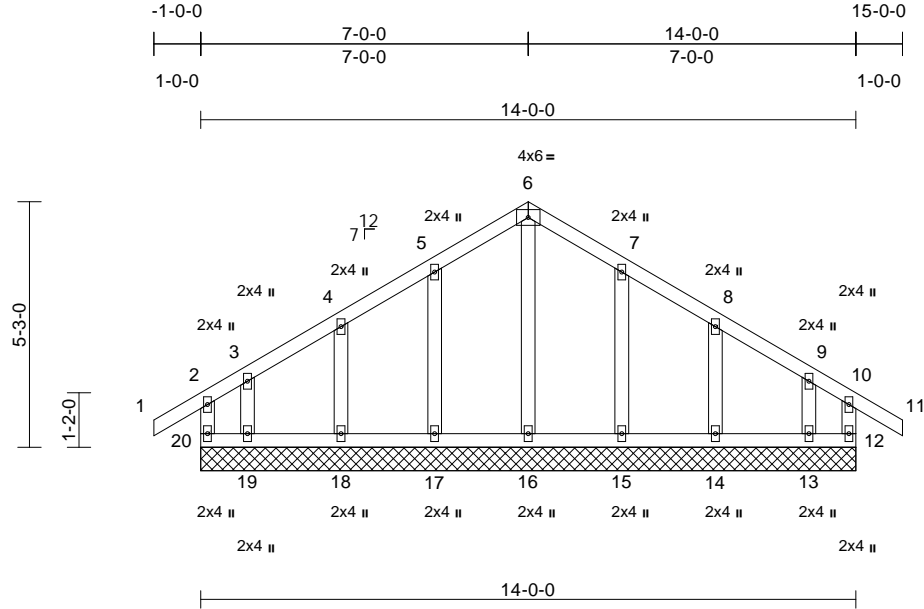
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548560
Farmhouse	B01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:25  
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Page: 1



Scale = 1:49.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.15	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 79 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" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6'-0" oc bracing.

<b>REACTIONS</b> (size)	12=14'-0"-0, 13=14'-0"-0, 14=14'-0"-0, 15=14'-0"-0, 16=14'-0"-0, 17=14'-0"-0, 18=14'-0"-0, 19=14'-0"-0, 20=14'-0"-0
Max Horiz	20=127 (LC 15)
Max Uplift	12=64 (LC 13), 13=65 (LC 17), 14=40 (LC 17), 15=42 (LC 17), 17=42 (LC 16), 18=39 (LC 16), 19=79 (LC 13), 20=84 (LC 12)
Max Grav	12=164 (LC 22), 13=145 (LC 31), 14=166 (LC 31), 15=171 (LC 31), 16=163 (LC 33), 17=172 (LC 30), 18=166 (LC 34), 19=157 (LC 30), 20=164 (LC 22)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-20=-162/71, 1-2=-106/58, 2-3=-74/78, 3-4=-49/67, 4-5=-70/93, 5-6=-106/136, 6-7=-106/136, 7-8=-70/93, 8-9=-38/64, 9-10=-57/61, 10-11=-106/58, 10-12=-162/68
BOT CHORD	19-20=-64/60, 18-19=-64/60, 17-18=-64/60, 16-17=-64/60, 15-16=-64/60, 14-15=-64/60, 13-14=-64/60, 12-13=-64/60
WEBS	6-16=-123/9, 5-17=-132/65, 4-18=-126/67, 3-19=-96/65, 7-15=-131/65, 8-14=-127/66, 9-13=-92/62

#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 20, 64 lb uplift at joint 12, 42 lb uplift at joint 17, 39 lb uplift at joint 18, 79 lb uplift at joint 19, 42 lb uplift at joint 15, 40 lb uplift at joint 14 and 65 lb uplift at joint 13.

LOAD CASE(S) Standard



June 6, 2025

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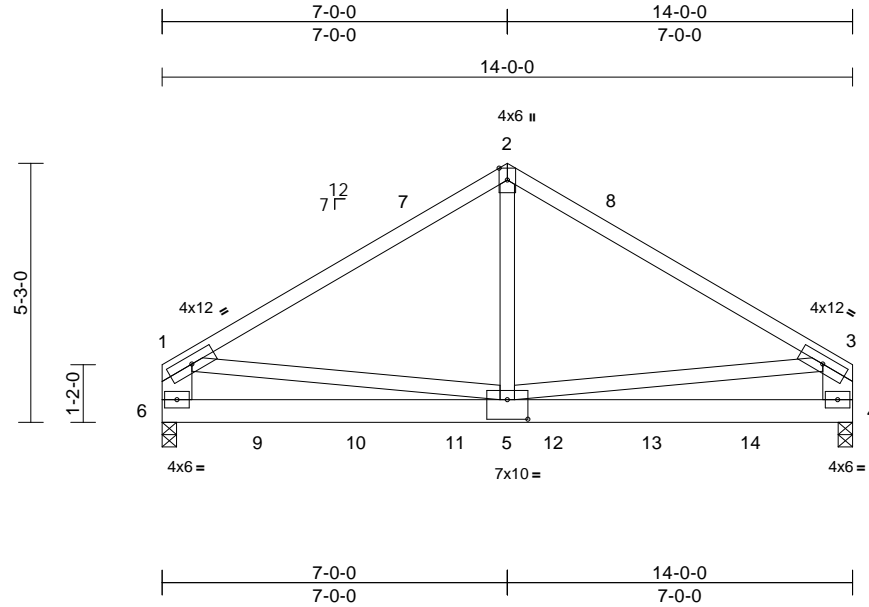
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548561
Farmhouse	B01GR	Common Girder	1	<b>3</b>	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:25  
ID:74kiTg68zguFMOimBNNWgmzlbG?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.7

Plate Offsets (X, Y): [5:0-5:0,0-4:12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.06	5-6	>999	240	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.11	5-6	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.01	4	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 261 lb FT = 20%											

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS  
WEBS 2x4 SP No.3 \*Except\* 6-1,4-3:2x8 SP 2400F 2.0E or 2x8 SP DSS

#### 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=-111 (LC 10)  
Max Uplift 4=-335 (LC 13), 6=-341 (LC 12)  
Max Grav 4=4112 (LC 1), 6=4180 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-4386/387, 2-3=-4386/387,  
1-6=-2641/253, 3-4=-2645/253  
BOT CHORD 5-6=-220/1523, 4-5=-174/1498  
WEBS 2-5=-266/4041, 1-5=-192/2249,  
3-5=-199/2275

#### NOTES

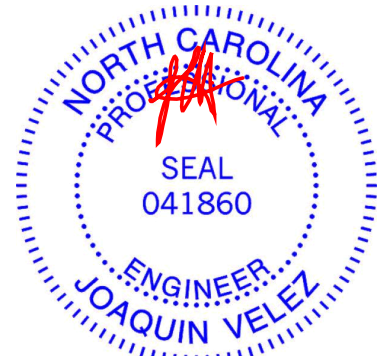
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 6 and 335 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1233 lb down and 104 lb up at 1-11-4, 1233 lb down and 104 lb up at 3-11-4, 1233 lb down and 104 lb up at 5-11-4, 1233 lb down and 104 lb up at 7-11-4, and 1233 lb down and 104 lb up at 9-11-4, and 1233 lb down and 104 lb up at 11-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-2=-46, 2-3=-46, 4-6=-20  
Concentrated Loads (lb)

Vert: 9=-1233 (B), 10=-1233 (B), 11=-1233 (B), 12=-1233 (B), 13=-1233 (B), 14=-1233 (B)



June 6,2025

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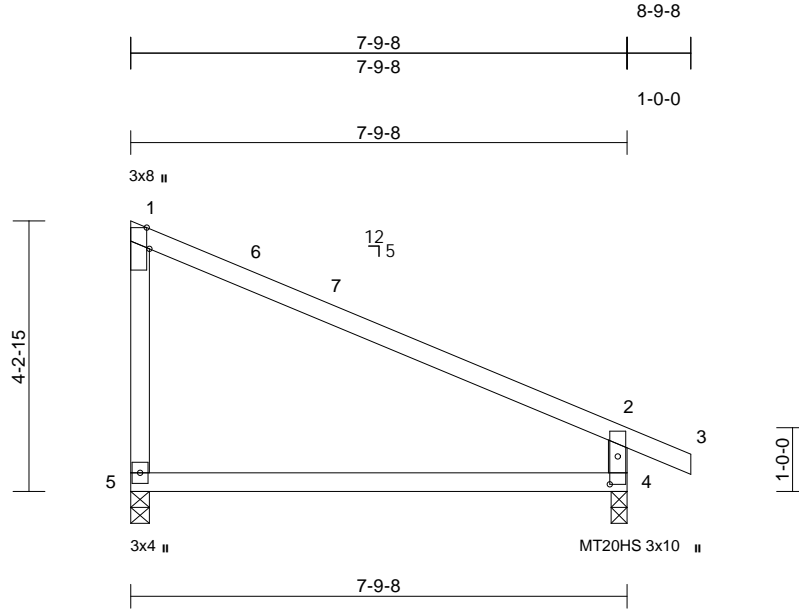
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH
Farmhouse	C01	Roof Special	2	1	Job Reference (optional)
					T37548562

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:25  
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Page: 1



Scale = 1:36.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.12	4-5	>767	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.25	4-5	>362	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 32 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=0-3-0, 5=0-3-8  
Max Horiz 5=-128 (LC 12)  
Max Uplift 4=-35 (LC 17), 5=-34 (LC 17)  
Max Grav 4=374 (LC 2), 5=302 (LC 24)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

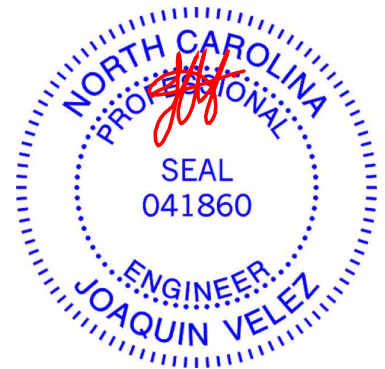
TOP CHORD 1-5=-209/165, 1-2=-165/50, 2-3=0/44,  
2-4=-318/184  
BOT CHORD 4-5=-69/189

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 35 lb uplift at joint 4.

LOAD CASE(S) Standard



June 6, 2025

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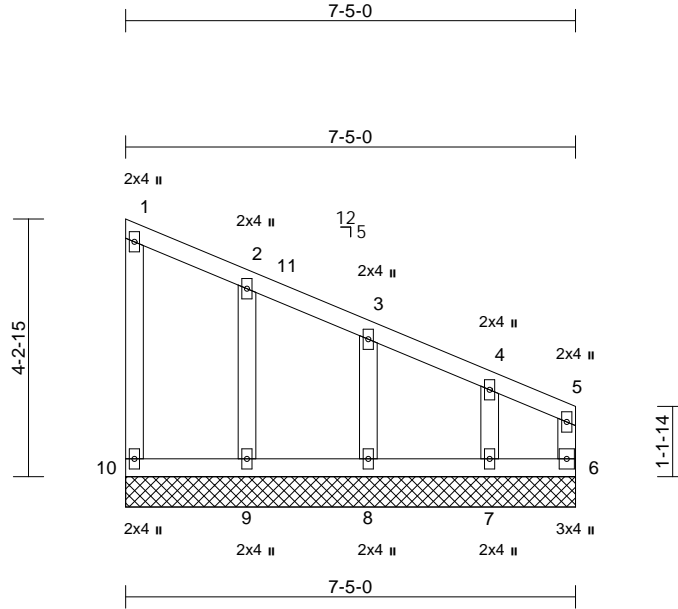
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH
Farmhouse	C01G	Roof Special Supported Gable	1	1	Job Reference (optional)
					T37548563

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:26

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Scale = 1:38

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 39 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.

<b>REACTIONS</b> (size)	6=7-5-0, 7=7-5-0, 8=7-5-0, 9=7-5-0, 10=7-5-0
Max Horiz	10=120 (LC 12)
Max Uplift	7=-91 (LC 17), 8=-22 (LC 17), 9=-27 (LC 17), 10=-14 (LC 12)
Max Grav	6=110 (LC 2), 7=144 (LC 2), 8=163 (LC 2), 9=169 (LC 23), 10=66 (LC 23)

#### FORCES (lb) - Maximum Compression/Maximum Tension

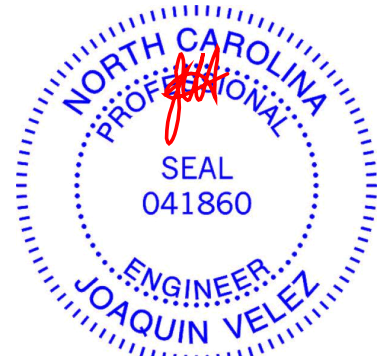
TOP CHORD	1-10=-50/44, 1-2=-61/52, 2-3=-102/74, 3-4=-139/86, 4-5=-207/117, 5-6=-129/63
BOT CHORD	9-10=-117/200, 8-9=-117/200, 7-8=-117/200, 6-7=-117/200
WEBS	2-9=-128/93, 3-8=-122/86, 4-7=-119/161

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior 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=1.33

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 10, 27 lb uplift at joint 9, 22 lb uplift at joint 8 and 91 lb uplift at joint 7.

**LOAD CASE(S)** Standard



June 6, 2025

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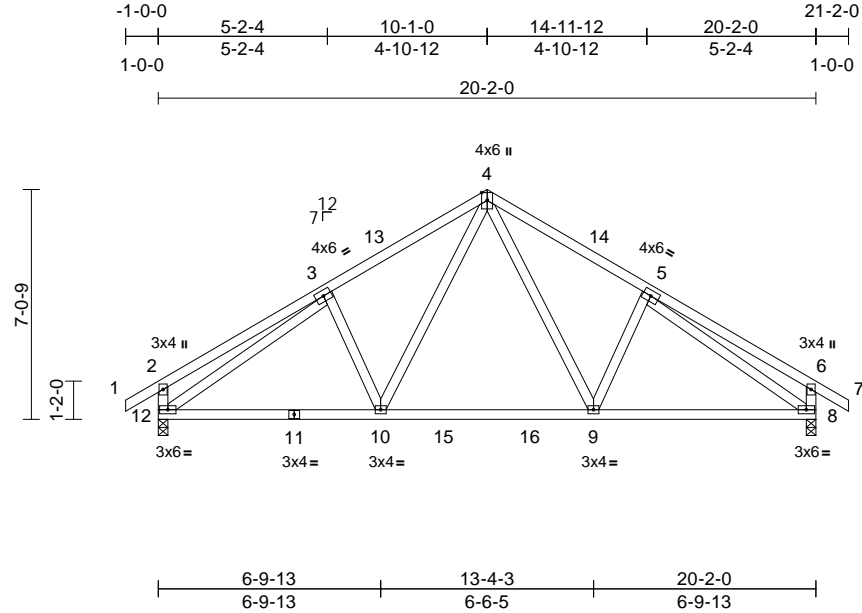
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548564
Farmhouse	D01	Common	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:26

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Scale = 1:70.7

<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.11	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 121 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 5-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (size)

8=0-3-8, 12=0-3-8  
Max Horiz 12=165 (LC 15)  
Max Uplift 8=-57 (LC 17), 12=-57 (LC 16)  
Max Grav 8=864 (LC 2), 12=864 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/58, 2-3=-237/106, 3-4=-919/176,  
4-5=-919/176, 5-6=-237/106, 6-7=0/58,  
2-12=-294/118, 6-8=-294/118

BOT CHORD 10-12=-67/864, 9-10=0/621, 8-9=-38/791

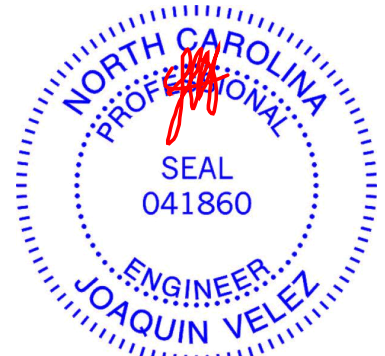
WEBS 4-9=-65/384, 5-9=-189/157, 4-10=-65/384,  
3-10=-189/157, 3-12=-827/49, 5-8=-827/49

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 12 and 57 lb uplift at joint 8.

**LOAD CASE(S)** Standard



June 6, 2025

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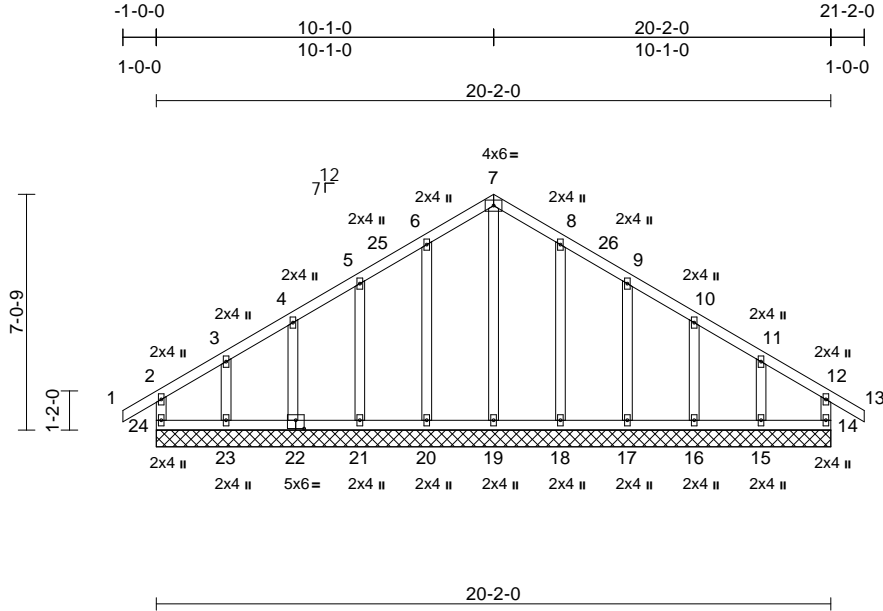
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548565
Farmhouse	D01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:26

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Scale = 1:68.9

Plate Offsets (X, Y): [22:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 123 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" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6'-0" oc bracing.

REACTIONS	(size)	14=20'-2-0, 15=20'-2-0, 16=20'-2-0, 17=20'-2-0, 18=20'-2-0, 19=20'-2-0, 20=20'-2-0, 21=20'-2-0, 22=20'-2-0, 23=20'-2-0, 24=20'-2-0
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Max Horiz 24=165 (LC 14)

Max Uplift 14=39 (LC 13), 15=75 (LC 17), 16=31 (LC 17), 17=44 (LC 17), 18=38 (LC 17), 20=38 (LC 16), 21=44 (LC 16), 22=31 (LC 16), 23=77 (LC 16), 24=55 (LC 12)

Max Grav 14=157 (LC 30), 15=192 (LC 31), 16=163 (LC 35), 17=164 (LC 31), 18=189 (LC 24), 19=181 (LC 33), 20=189 (LC 23), 21=162 (LC 30), 22=162 (LC 34), 23=199 (LC 30), 24=173 (LC 31)

#### FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension	2-24=-141/72, 1-2=0/58, 2-3=-99/94, 3-4=-69/87, 4-5=-89/112, 5-6=-124/149, 6-7=-159/188, 7-8=-159/188, 8-9=-124/149, 9-10=-89/105, 10-11=-54/79, 11-12=-78/76, 12-13=0/58, 12-14=-140/68
BOT CHORD		23-24=-77/81, 21-23=-78/81, 20-21=-78/80, 19-20=-78/80, 18-19=-78/80, 17-18=-78/80, 16-17=-78/80, 15-16=-78/80, 14-15=-78/80

WEBS 7-19=-142/60, 6-20=-149/63, 5-21=-122/66, 4-22=-122/59, 3-23=-136/84, 8-18=-149/62, 9-17=-123/67, 10-16=-123/60, 11-15=-133/83

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 24, 39 lb uplift at joint 14, 38 lb uplift at joint 20, 44 lb uplift at joint 21, 31 lb uplift at joint 22, 77 lb uplift at joint 23, 38 lb uplift at joint 18, 44 lb uplift at joint 17, 31 lb uplift at joint 16 and 75 lb uplift at joint 15.

LOAD CASE(S) Standard



June 6,2025

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

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ENGINEERING BY  
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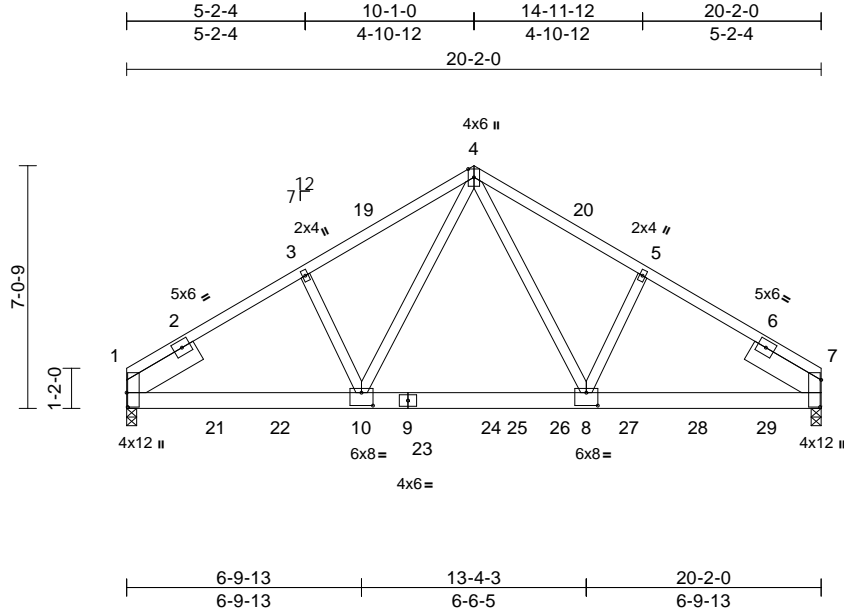
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548566
Farmhouse	D01GR	Common Girder	1	3	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:27  
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Page: 1



Scale = 1:66.9

Plate Offsets (X, Y): [1:0-5-0,0-0-6], [7:0-9-7,0-0-6], [8:0-4-0,0-4-8], [10:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.10	8-10	>999	240	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.19	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 388 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-5-0,  
Right 2x8 SP 2400F 2.0E or DSS -- 2-5-0

#### 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, 7=0-3-8  
Max Horiz 1=124 (LC 11)  
Max Uplift 1=-365 (LC 12), 7=-343 (LC 13)  
Max Grav 1=4692 (LC 2), 7=4339 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-3=-5359/443, 3-4=-5242/486,  
4-5=-5262/495, 5-7=-5380/452  
BOT CHORD 1-10=-396/4504, 8-10=-226/3322,  
7-8=-320/4521  
WEBS 4-8=-281/2749, 5-8=-81/246,  
4-10=-264/2708, 3-10=-81/244

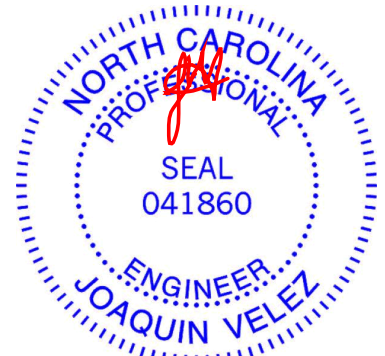
#### NOTES

- 3-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 0-8-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 1 and 343 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 747 lb down and 62 lb up at 0-7-3, 743 lb down and 65 lb up at 2-7-2, 737 lb down and 58 lb up at 4-5-11, 737 lb down and 58 lb up at 6-8-11, 743 lb down and 65 lb up at 8-7-2, 743 lb down and 65 lb up at 10-7-3, 743 lb down and 65 lb up at 12-7-3, 743 lb down and 65 lb up at 14-7-2, and 743 lb down and 65 lb up at 16-7-2, and 743 lb down and 65 lb up at 18-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-46, 4-7=-46, 11-15=-20  
Concentrated Loads (lb)  
Vert: 10=-684 (B), 13=-693 (B), 21=-689 (B),  
22=-684 (B), 23=-689 (B), 24=-689 (B), 26=-689 (B),  
27=-689 (B), 28=-689 (B), 29=-689 (B)



June 6, 2025

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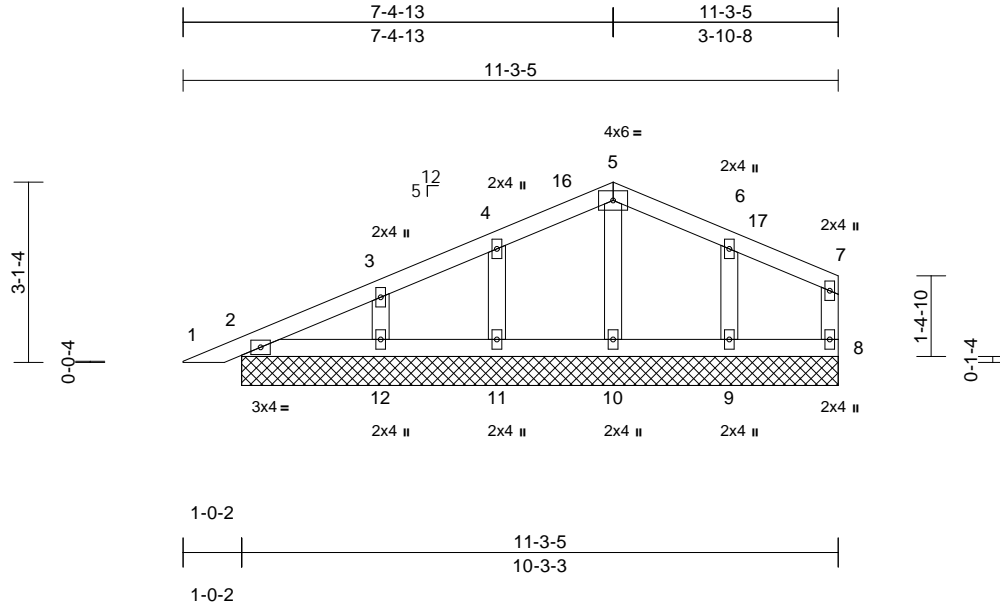
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548567
Farmhouse	PB01	Piggyback	6	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:27

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Scale = 1:39.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 44 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.

<b>REACTIONS</b>	(size)	2=10-3-3, 8=10-3-3, 9=10-3-3, 10=10-3-3, 11=10-3-3, 12=10-3-3
	Max Horiz	2=48 (LC 20)
	Max Uplift	2=-13 (LC 12), 8=-5 (LC 17), 9=-35 (LC 17), 11=-31 (LC 16), 12=-35 (LC 16)
	Max Grav	2=127 (LC 2), 8=60 (LC 2), 9=170 (LC 24), 10=146 (LC 2), 11=159 (LC 34), 12=194 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

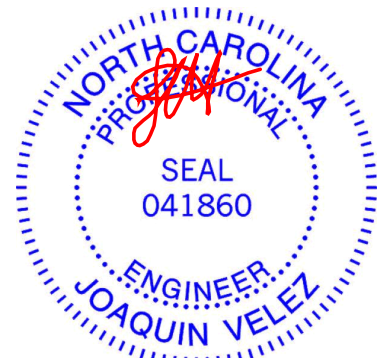
TOP CHORD	1-2=0/25, 2-3=-39/28, 3-4=-34/37, 4-5=-48/75, 5-6=-48/75, 6-7=-31/37, 7-8=-45/33
BOT CHORD	2-12=-14/23, 11-12=-13/18, 10-11=-13/18, 9-10=-13/18, 8-9=-13/18
WEBS	5-10=-104/22, 4-11=-126/76, 3-12=-132/74, 6-9=-130/78

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 8, 13 lb uplift at joint 2, 31 lb uplift at joint 11, 35 lb uplift at joint 12, 35 lb uplift at joint 9 and 13 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 6, 2025

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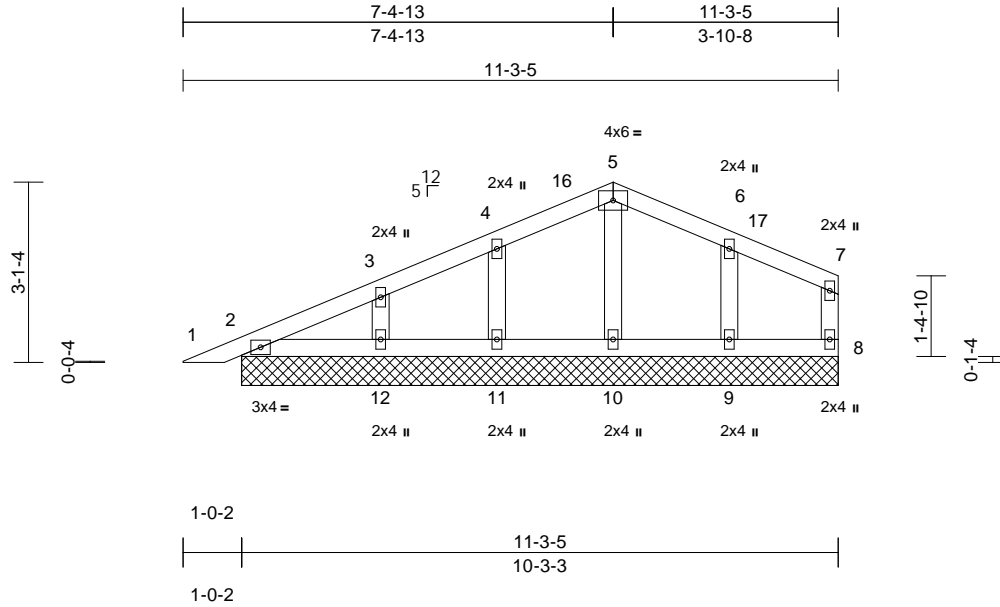
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548568
Farmhouse	PB01G	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:27  
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Page: 1



Scale = 1:39.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 44 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.

<b>REACTIONS</b>	(size)	2=10-3-3, 8=10-3-3, 9=10-3-3, 10=10-3-3, 11=10-3-3, 12=10-3-3
	Max Horiz	2=48 (LC 20)
	Max Uplift	2=-13 (LC 12), 8=-5 (LC 17), 9=-35 (LC 17), 11=-31 (LC 16), 12=-35 (LC 16)
	Max Grav	2=127 (LC 2), 8=60 (LC 2), 9=170 (LC 24), 10=146 (LC 2), 11=159 (LC 34), 12=194 (LC 2)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/25, 2-3=-39/28, 3-4=-34/37, 4-5=-48/75, 5-6=-48/75, 6-7=-31/37, 7-8=-45/33
BOT CHORD	2-12=-14/23, 11-12=-13/18, 10-11=-13/18, 9-10=-13/18, 8-9=-13/18
WEBS	5-10=-104/22, 4-11=-126/76, 3-12=-132/74, 6-9=-130/78

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 8, 13 lb uplift at joint 2, 31 lb uplift at joint 11, 35 lb uplift at joint 12, 35 lb uplift at joint 9 and 13 lb uplift at joint 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 6,2025

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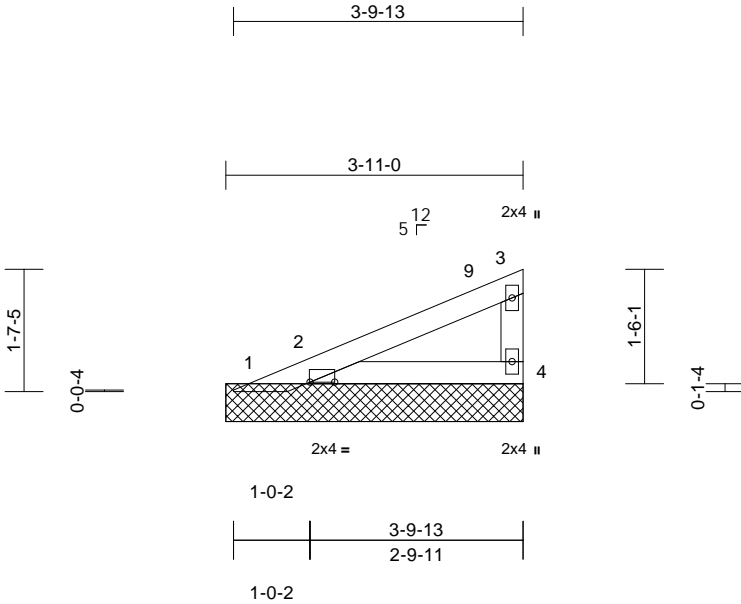
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548569
Farmhouse	PB02	Piggyback	6	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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Page: 1



Scale = 1:30.4																
Plate Offsets (X, Y): [2:0-3-14,Edge]																
<b>Loading</b>		(psf)	<b>Spacing</b>		2-0-0	<b>CSI</b>		<b>DEFL</b>			in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)		20.0	Plate Grip DOL		1.00	TC		0.20	Vert(LL)	n/a	-	n/a	999		MT20	244/190
Snow (Ps/Pf)		15.8/20.0	Lumber DOL		1.15	BC		0.05	Vert(TL)	n/a	-	n/a	999			
TCDL		10.0	Rep Stress Incr		YES	WB		0.00	Horiz(TL)	0.00	4	n/a	n/a			
BCLL		0.0*	Code		IRC2015/TPI2014	Matrix-MP										
BCDL		10.0													Weight: 12 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=3-11-0, 2=3-11-0, 4=3-11-0  
Max Horiz 1=45 (LC 13)  
Max Uplift 1=-53 (LC 2), 2=-27 (LC 16), 4=-10 (LC 16)  
Max Grav 1=19 (LC 16), 2=245 (LC 2), 4=92 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-107/83, 2-3=-38/29, 3-4=-59/46  
BOT CHORD 2-4=-19/19

**NOTES**

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Gable requires continuous bottom chord bearing.
- 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) Bearing at joint(s) 2, 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 10 lb uplift at joint 4, 53 lb uplift at joint 1 and 27 lb uplift at joint 2.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 6,2025

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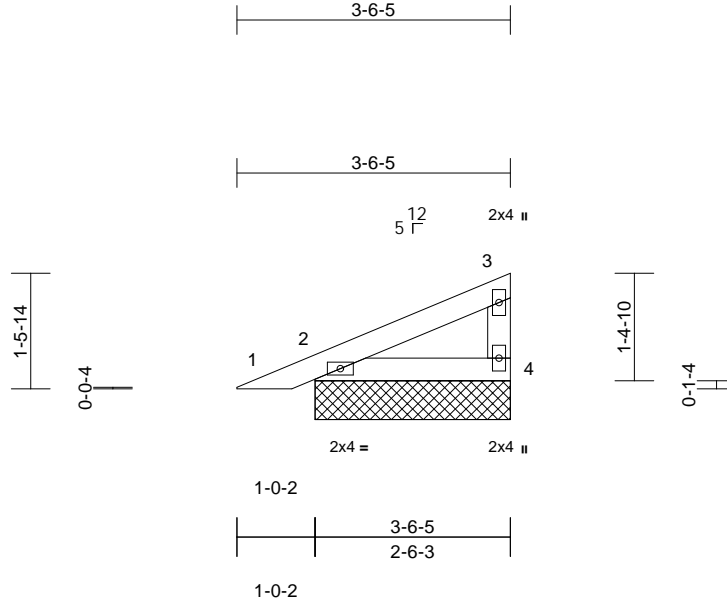
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**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548570
Farmhouse	PB02G	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:28  
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Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										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 3-7-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (size) 2=2-6-3, 4=2-6-3

Max Horiz 2=40 (LC 15)  
Max Uplift 2=-19 (LC 16), 4=-11 (LC 16)  
Max Grav 2=139 (LC 2), 4=92 (LC 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

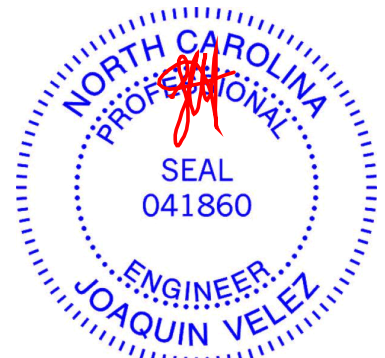
TOP CHORD 1-2=0/25, 2-3=-36/28, 3-4=-57/42  
BOT CHORD 2-4=-20/28

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.

- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4, 19 lb uplift at joint 2 and 19 lb uplift at joint 2.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 6, 2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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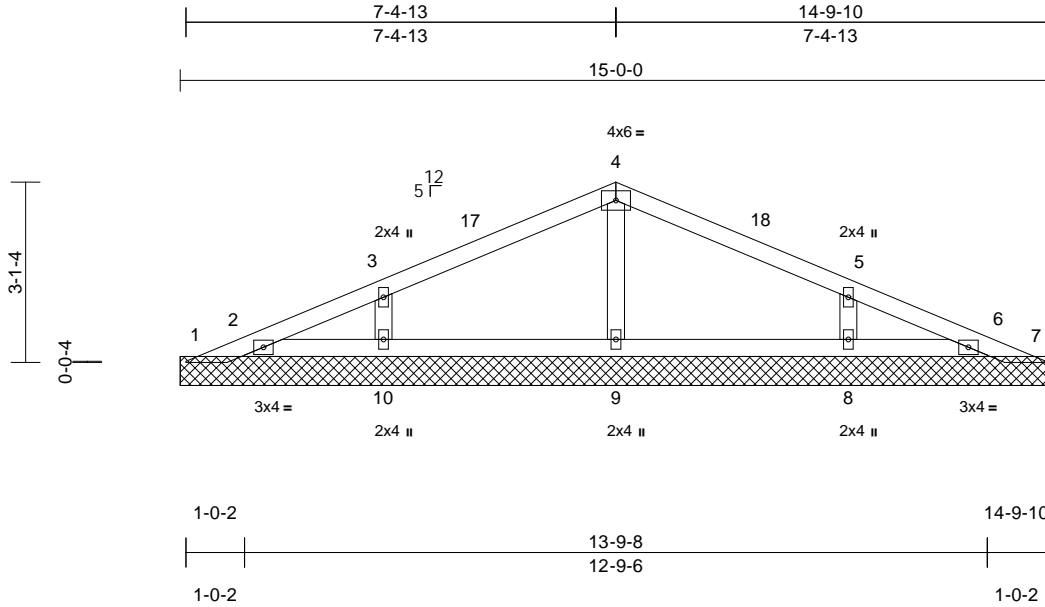
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548571
Farmhouse	PB03	Piggyback	13	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:28  
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Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 49 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 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size)	1=15-0-0, 2=15-0-0, 6=15-0-0, 7=15-0-0, 8=15-0-0, 9=15-0-0, 10=15-0-0
Max Horiz	1=42 (LC 16)
Max Uplift	1=-17 (LC 17), 7=-5 (LC 17), 8=-64 (LC 17), 10=-63 (LC 16)
Max Grav	1=20 (LC 32), 2=117 (LC 2), 6=101 (LC 2), 7=22 (LC 24), 8=306 (LC 35), 9=294 (LC 2), 10=308 (LC 34)

#### FORCES

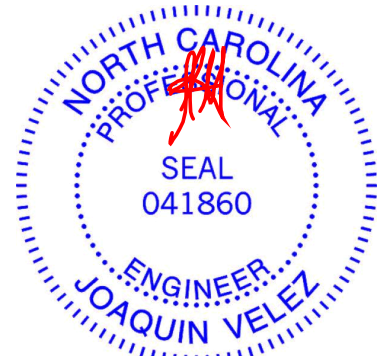
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-43/54, 2-3=-40/35, 3-4=-70/64, 4-5=-70/64, 5-6=-29/27, 6-7=-7/14
BOT CHORD	2-10=-3/34, 9-10=-3/34, 8-9=-3/34, 6-8=-3/34
WEBS	4-9=-209/56, 3-10=-240/124, 5-8=-239/125

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 5 lb uplift at joint 7, 63 lb uplift at joint 10 and 64 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 6, 2025

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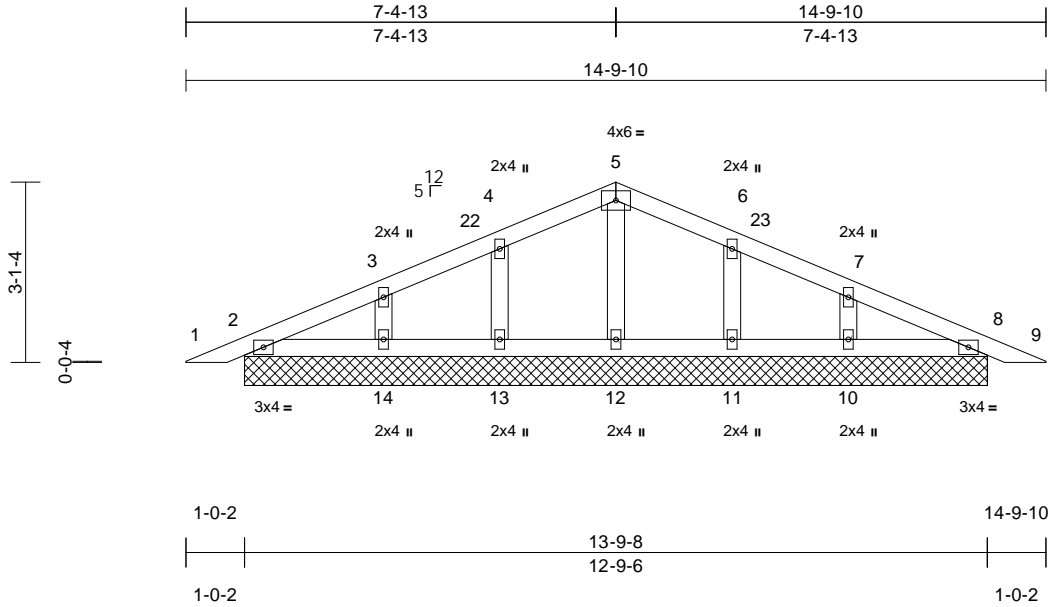
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548572
Farmhouse	PB03G	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MITek Industries, Inc. Thu Jun 05 14:28:28  
ID:EBIkLL3hYdAJEVFO1cGnxBzlae1-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2'-0"	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 54 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 6'-0" oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

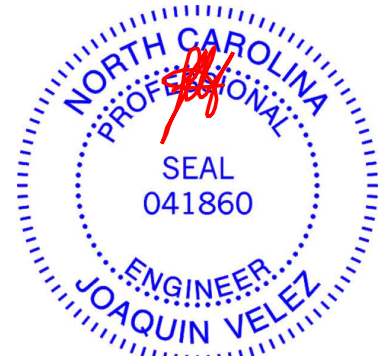
**REACTIONS** (size)  
2=12-9-6, 8=12-9-6, 10=12-9-6,  
11=12-9-6, 12=12-9-6, 13=12-9-6,  
14=12-9-6  
Max Horiz 2=42 (LC 16)  
Max Uplift 2=-13 (LC 12), 8=-15 (LC 17),  
10=-34 (LC 17), 11=-31 (LC 17),  
13=-31 (LC 16), 14=-35 (LC 16)  
Max Grav 2=128 (LC 2), 8=128 (LC 2),  
10=194 (LC 2), 11=160 (LC 24),  
12=145 (LC 2), 13=160 (LC 23),  
14=194 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/25, 2-3=-37/32, 3-4=-35/43,  
4-5=-37/73, 5-6=-37/73, 6-7=-35/38,  
7-8=-30/19, 8-9=0/25  
BOT CHORD 2-14=-8/39, 13-14=-7/39, 12-13=-7/39,  
11-12=-7/39, 10-11=-7/39, 8-10=-8/39  
WEBS 5-12=-101/0, 4-13=-126/68, 3-14=-132/67,  
6-11=-126/68, 7-10=-132/67

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 2, 15 lb uplift at joint 8, 31 lb uplift at joint 13, 35 lb uplift at joint 14, 31 lb uplift at joint 11, 34 lb uplift at joint 10, 13 lb uplift at joint 2 and 15 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 6, 2025

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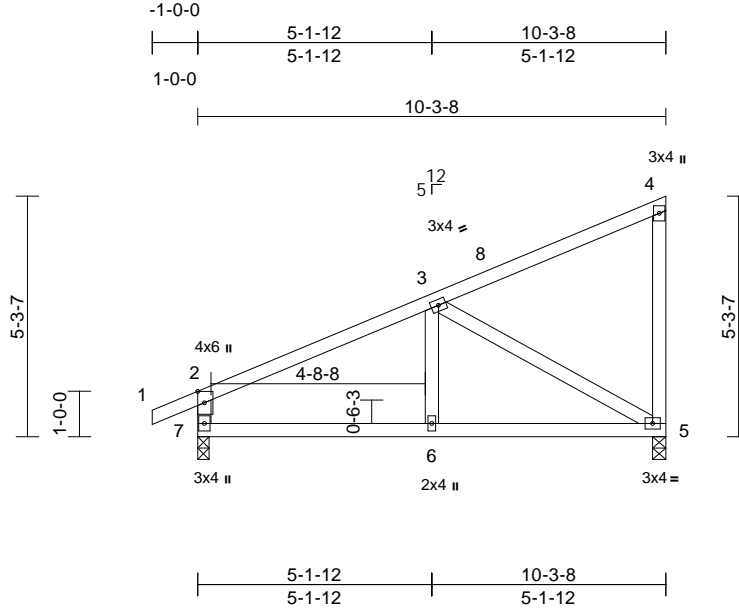
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548573
Farmhouse	SP01	Monopitch	11	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:29  
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Page: 1



Scale = 1:50.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.06	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 53 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) 5=0-3-8, 7=0-3-0  
Max Horiz 7=178 (LC 13)  
Max Uplift 5=-63 (LC 16), 7=-44 (LC 16)  
Max Grav 5=417 (LC 23), 7=473 (LC 2)

#### FORCES

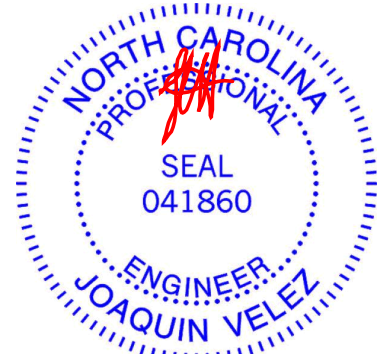
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/44, 2-3=-480/105, 3-4=-116/75,  
4-5=-161/89, 2-7=-403/160  
BOT CHORD 6-7=-224/381, 5-6=-224/381  
WEBS 3-6=0/203, 3-5=-423/200

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7 and 63 lb uplift at joint 5.

LOAD CASE(S) Standard



June 6,2025

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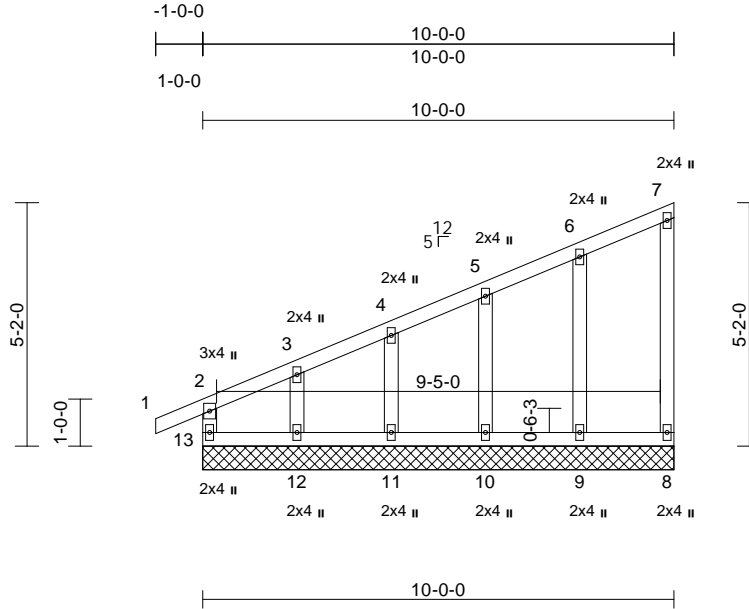
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548574
Farmhouse	SP01G	Monopitch Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:29  
ID:7GvXYLE6vwEiUcTqxWixyzlYYq-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:48.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 55 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" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS	(size)	8=10'-0-0, 9=10'-0-0, 10=10'-0-0, 11=10'-0-0, 12=10'-0-0, 13=10'-0-0
	Max Horiz	13=138 (LC 16)
	Max Uplift	8=-11 (LC 16), 9=-30 (LC 16), 10=-34 (LC 16), 11=-10 (LC 16), 12=-110 (LC 16)
	Max Grav	8=67 (LC 23), 9=199 (LC 23), 10=160 (LC 23), 11=165 (LC 2), 12=140 (LC 2), 13=188 (LC 22)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-13=-164/0, 1-2=0/44, 2-3=-194/74, 3-4=-133/53, 4-5=-99/41, 5-6=-60/29, 6-7=-31/15
BOT CHORD	12-13=0/0, 11-12=0/0, 10-11=0/0, 9-10=0/0, 8-9=0/0
WEBS	6-9=-156/81, 5-10=-121/79, 4-11=-124/65, 3-12=-102/137, 7-8=-52/28

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 8, 30 lb uplift at joint 9, 34 lb uplift at joint 10, 10 lb uplift at joint 11 and 110 lb uplift at joint 12.

LOAD CASE(S) Standard



June 6,2025

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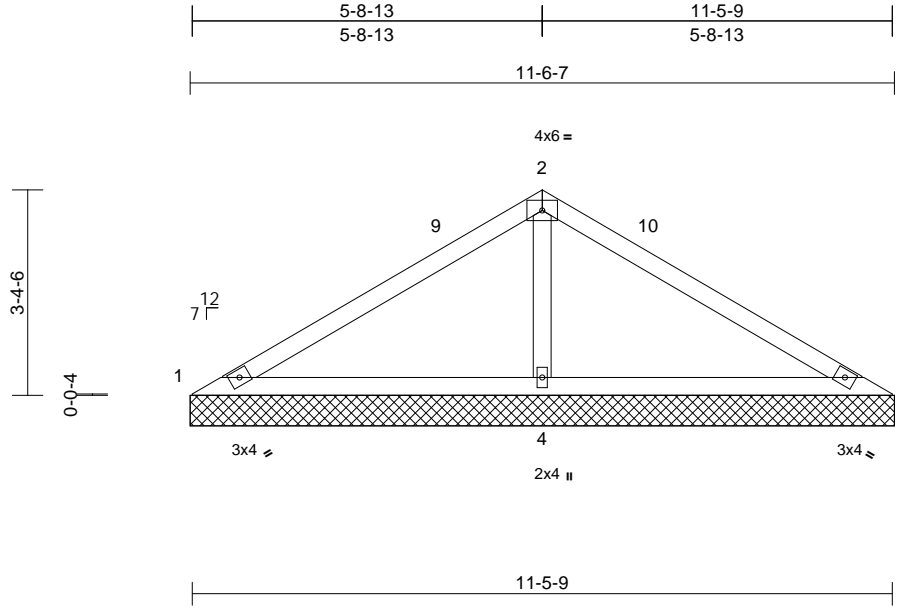
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548575
Farmhouse	V01	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:29  
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Page: 1



Scale = 1:37.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 39 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=11-6-7, 3=11-6-7, 4=11-6-7
Max Horiz	1=67 (LC 15)
Max Uplift	1=-48 (LC 34), 3=-48 (LC 33), 4=-57 (LC 16)
Max Grav	1=67 (LC 33), 3=67 (LC 34), 4=899 (LC 2)

#### FORCES

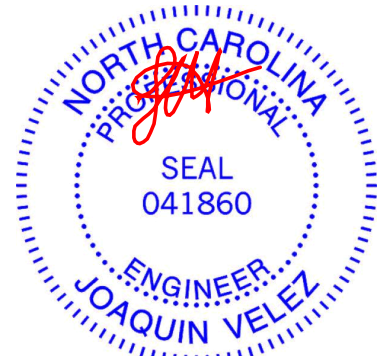
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-82/473, 2-3=-82/473
BOT CHORD	1-4=-347/119, 3-4=-347/119
WEBS	2-4=-707/166

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1, 48 lb uplift at joint 3 and 57 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

**LOAD CASE(S)** Standard



June 6, 2025

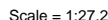
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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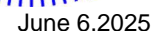
Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:29 Page: 1  
ID:?Gqc9iZ1fXTLHvSTVQ0ee2zladN-RfC?PsB70Hg3NSqPqnL8w3ulTXbGKWRcDoi?J4zJC?f



- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 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 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 38 lb uplift at joint 4.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
 Vasd=95mph; TCdL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

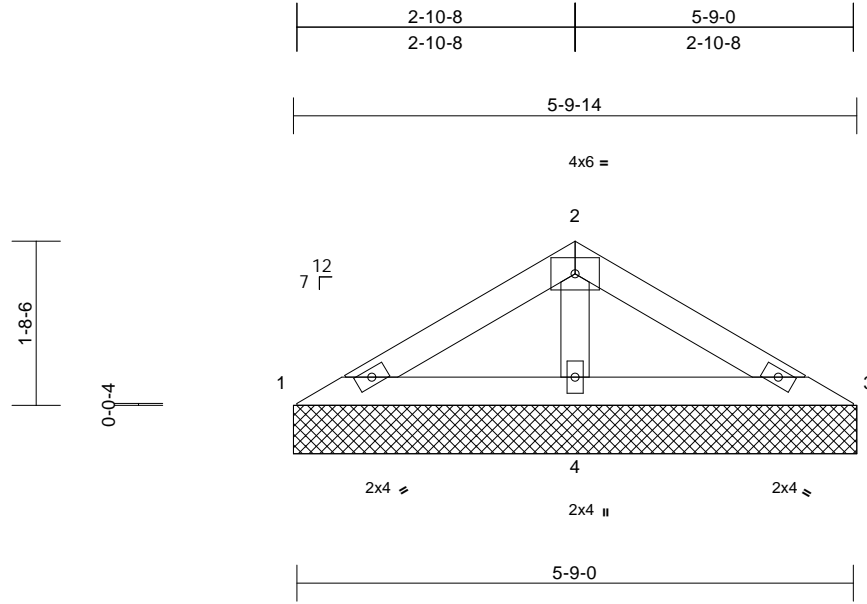


Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548577
Farmhouse	V03	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:30  
ID:?Gqc9Iz1fXtLHySTVQ0ee2ZladN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 5-9-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
<b>REACTIONS</b>	(size) 1=5-9-14, 3=5-9-14, 4=5-9-14
	Max Horiz 1=32 (LC 13)
	Max Uplift 1=-5 (LC 16), 3=-10 (LC 17), 4=-15 (LC 16)
	Max Grav 1=69 (LC 33), 3=69 (LC 34), 4=358 (LC 2)
<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-70/140, 2-3=-70/140
BOT CHORD	1-4=-111/57, 3-4=-111/57
WEBS	2-4=-231/53

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 10 lb uplift at joint 3 and 15 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

**LOAD CASE(S)** Standard



June 6,2025

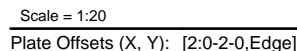
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Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:30 Page: 1  
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<b>LUMBER</b>		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 2-10-11 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
<b>REACTIONS</b>		
(size)	1=2-11-9, 3=2-11-9	
Max Horiz	1=15 (LC 13)	
Max Uplift	1=-7 (LC 16), 3=-7 (LC 17)	
Max Grav	1=119 (LC 2), 3=119 (LC 2)	
<b>FORCES</b>		
(lb) -	Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-180/29, 2-3=-180/29	
BOT CHORD	1-3=-17/152	
		6) Unbalanced snow loads have been considered for this design.
		7) Gable requires continuous bottom chord bearing.
		8) Gable studs spaced at 4-0-0 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 7 lb uplift at joint 1 and 7 lb uplift at joint 3.
		12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
	<b>LOAD CASE(S)</b>	Standard

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/ITPI 1.
  - 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
  - 5) Roof design snow load has been reduced to account for slope.



June 6.2025

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**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-141.5 Rev. 1/2/2023 BEFORE USE.**

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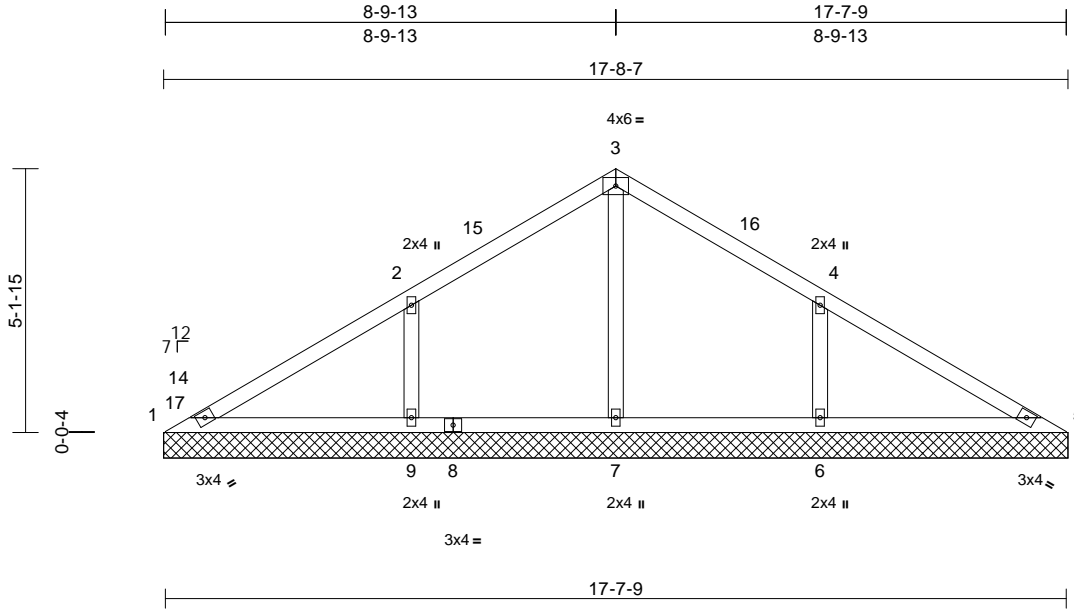
Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548579
Farmhouse	V05	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:30

Page: 1

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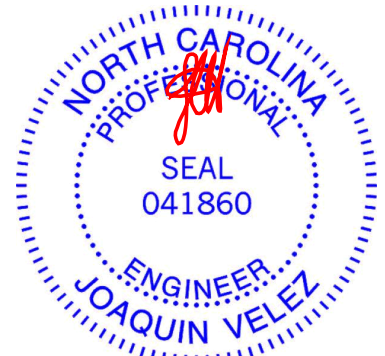


<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 68 lb	FT = 20%

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
<b>BRACING</b>	
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.
<b>REACTIONS</b> (size)	1=17-8-7, 5=17-8-7, 6=17-8-7, 7=17-8-7, 9=17-8-7
Max Horiz	1=-105 (LC 12)
Max Uplift	1=-1 (LC 12), 6=-104 (LC 17), 9=-104 (LC 16)
Max Grav	1=74 (LC 33), 5=103 (LC 34), 6=426 (LC 30), 7=406 (LC 2), 9=425 (LC 29)
<b>FORCES</b> (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-108/250, 2-3=0/202, 3-4=0/202, 4-5=-131/228
BOT CHORD	1-9=-165/110, 7-9=-165/75, 6-7=-165/75, 5-6=-165/109
WEBS	3-7=-352/8, 2-9=-300/144, 4-6=-301/144

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
  - Roof design snow load has been reduced to account for slope.
  - Unbalanced snow loads have been considered for this design.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 104 lb uplift at joint 9 and 104 lb uplift at joint 6.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- LOAD CASE(S)** Standard



June 6, 2025

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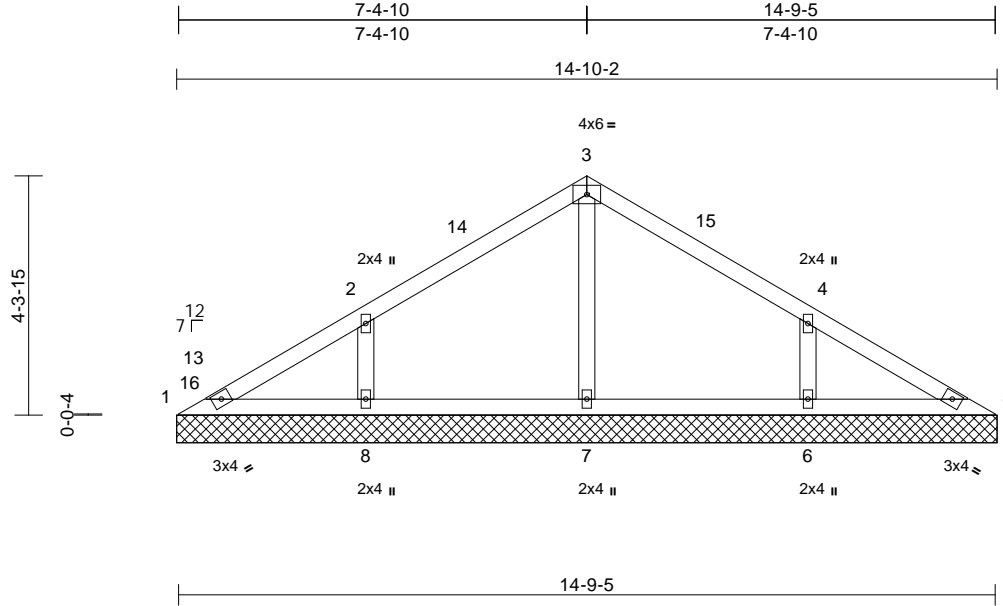
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548580
Farmhouse	V06	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:30  
ID:jTzpqxuzlqsW061fab?zEkzlacy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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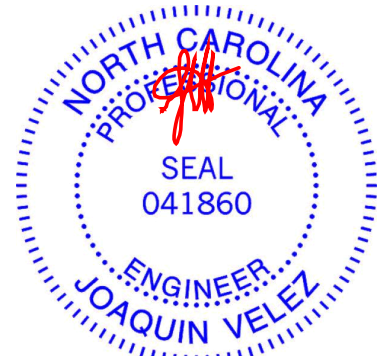


<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 56 lb	FT = 20%

<b>LUMBER</b>		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
OTHERS	2x4 SP No.3	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
<b>REACTIONS</b>	(size)	1=14-10-2, 5=14-10-2, 6=14-10-2, 7=14-10-2, 8=14-10-2
	Max Horiz	1=-87 (LC 12)
	Max Uplift	1=-4 (LC 12), 6=-86 (LC 17), 8=-86 (LC 16)
	Max Grav	1=70 (LC 30), 5=90 (LC 34), 6=350 (LC 30), 7=324 (LC 2), 8=348 (LC 29)
<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-112/122, 2-3=-52/107, 3-4=-44/96, 4-5=-115/96	
BOT CHORD	1-8=-61/104, 7-8=-61/52, 6-7=-61/52, 5-6=-61/95	
WEBS	3-7=-248/11, 2-8=-257/126, 4-6=-258/126	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
  - Roof design snow load has been reduced to account for slope.
  - Unbalanced snow loads have been considered for this design.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 86 lb uplift at joint 8 and 86 lb uplift at joint 6.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- LOAD CASE(S)** Standard



June 6, 2025

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

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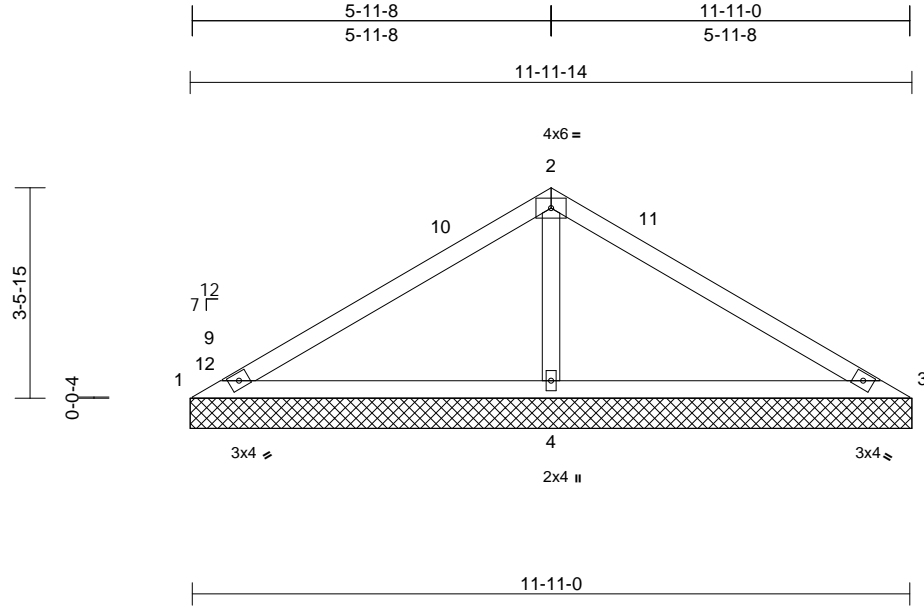
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548581
Farmhouse	V07	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:31  
ID:jTzpqxuzlqsW061fab?zEkzlacy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwRCDoi7J4zJC?f

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Scale = 1:38.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 41 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=11-11-14, 3=11-11-14, 4=11-11-14
Max Horiz	1=-70 (LC 12)
Max Uplift	1=-66 (LC 34), 3=-54 (LC 33), 4=-58 (LC 16)
Max Grav	1=35 (LC 33), 3=64 (LC 34), 4=944 (LC 2)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-87/503, 2-3=-87/503
BOT CHORD	1-4=-369/125, 3-4=-369/125
WEBS	2-4=-746/173

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 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 66 lb uplift at joint 1, 54 lb uplift at joint 3 and 58 lb uplift at joint 4.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

**LOAD CASE(S)** Standard



June 6, 2025

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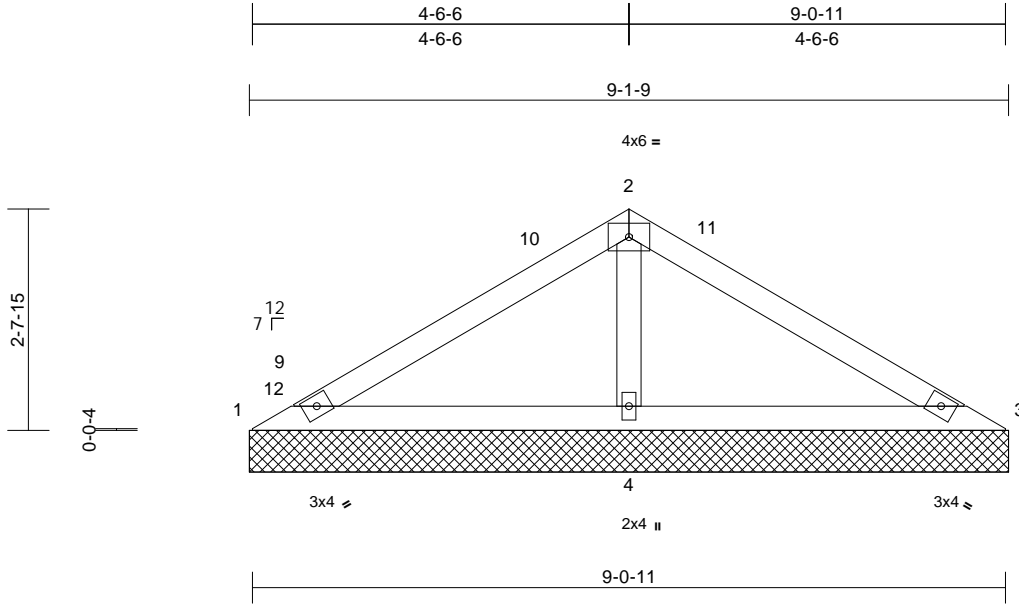
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548582
Farmhouse	V08	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:31  
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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	1.00	TC	0.23	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.22	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 30 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 9'-0-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6'-0-0 oc bracing.

#### REACTIONS

(size)	1=9-1-9, 3=9-1-9, 4=9-1-9
Max Horiz	1=-52 (LC 12)
Max Uplift	1=-23 (LC 34), 3=-12 (LC 12), 4=-32 (LC 16)
Max Grav	1=50 (LC 33), 3=79 (LC 34), 4=637 (LC 2)

#### FORCES

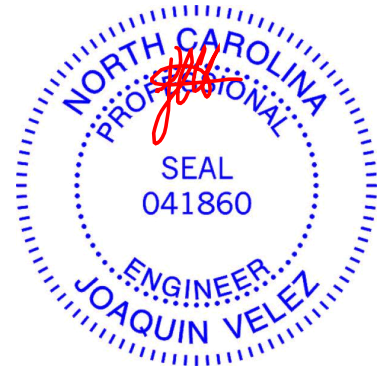
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-57/300, 2-3=-78/300
BOT CHORD	1-4=-218/80, 3-4=-218/80
WEBS	2-4=-479/113

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 12 lb uplift at joint 3 and 32 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

**LOAD CASE(S)** Standard



June 6,2025

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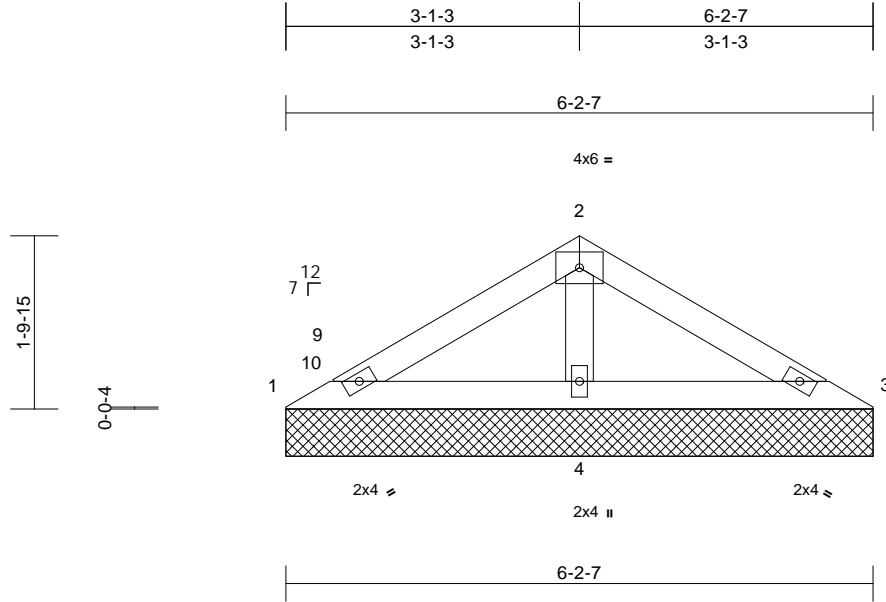
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - GladesFH	T37548583
Farmhouse	V09	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:31  
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Page: 1



Scale = 1:24.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.10	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.12	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							
BCDL	10.0									Weight: 20 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 6-2-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size)	1=6-2-7, 3=6-2-7, 4=6-2-7
Max Horiz	1=-34 (LC 12)
Max Uplift	3=-11 (LC 17), 4=-15 (LC 16)
Max Grav	1=45 (LC 33), 3=72 (LC 34), 4=382 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

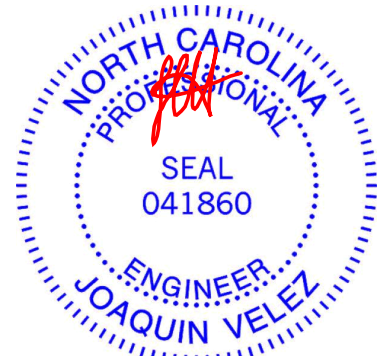
TOP CHORD	1-2=-56/151, 2-3=-74/151
BOT CHORD	1-4=-120/52, 3-4=-120/59
WEBS	2-4=-251/57

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lum DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface

- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 3 and 15 lb uplift at joint 4.

LOAD CASE(S) Standard



June 6, 2025

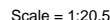
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818 Soundside Road  
Edenton, NC 27932

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557, Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 14:28:31 Page: 1  
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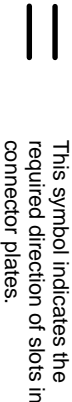
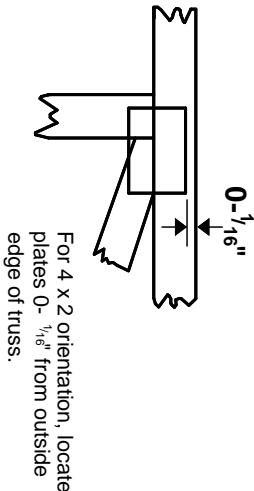
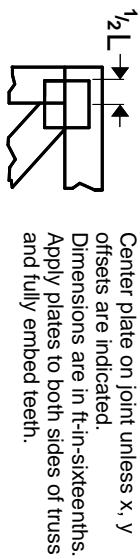
June 6.2025

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818 Soundside Road  
Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



\* Plate location details available in MITek software or upon request.

## PLATE SIZE

**4 X 4**

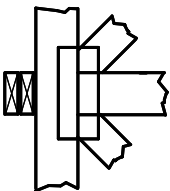
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

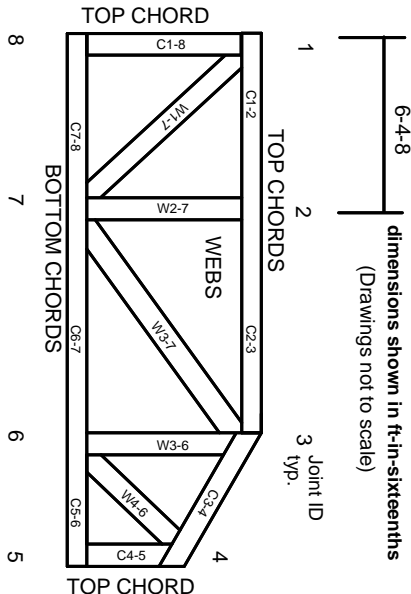


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: 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/TP1 section 6.3. These truss designs rely on lumber values established by others.

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# 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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