

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: P25101839A
GLEN GODFREY

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

Pages or sheets covered by this seal: I77100992 thru I77101030

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

North Carolina COA: C-0844



October 16, 2025

Garcia, Juan

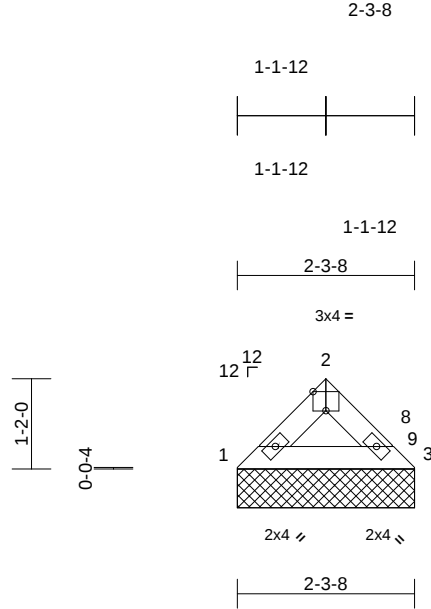
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77100992
P25101839A	V12	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:49
ID:yFTp_gOxS0JE6mDNZ3C9NFyT771-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:29.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-3-8, 3=2-3-8
Max Horiz 1=-25 (LC 10)
Max Uplift 1=-8 (LC 12), 3=-3 (LC 12)
Max Grav 1=90 (LC 2), 3=73 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

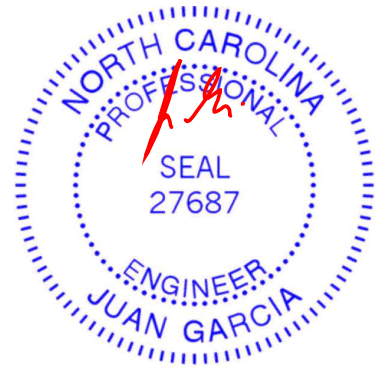
TOP CHORD 1-2=-103/12, 2-3=-92/12
BOT CHORD 1-3=-7/78

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 8 lb uplift at joint 1 and 3 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

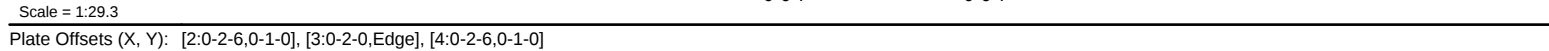
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Longleaf Truss Company, West End, NC - 27376, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:39 Page: 1
ID:?sM3Z_NhwP3Wt4?SeAhIqyT77K-RfC?PsB70Hq3NSgPqnL8w3tUXbGKWrCDoi7J4zJC?f



LUMBER		6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
TOP CHORD	2x4 SP No.1	
BOT CHORD	2x4 SP No.1	
BRACING		7) Gable requires continuous bottom chord bearing.
TOP CHORD	Structural wood sheathing directly applied or 3-1-8 oc purlins.	8) Gable studs spaced at 2-0-0 oc.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
REACTIONS	(size) 2=2-0-2, 4=2-0-2 Max Horiz 2=-39 (LC 10) Max Uplift 2=-21 (LC 12), 4=-21 (LC 12) Max Grav 2=107 (LC 17), 4=107 (LC 18)	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.
FORCES	(lb) - Maximum Compression/Maximum Tension 1-2=0/17, 2-3=-48/12, 3-4=-48/12, 4-5=0/17 2-4=-9/40	11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 21 lb uplift at joint 4, 21 lb uplift at joint 2 and 21 lb uplift at joint 4.
TOP CHORD		12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and
BOT CHORD		

- NOTES**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=12ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) T CLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.

R802.10.2 and referenced standard ANSI/TPI 1.

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

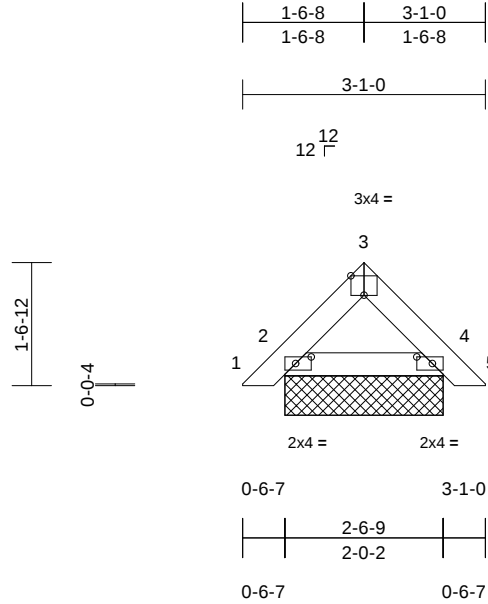


Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77100994
P25101839A	PB06	Piggyback	3	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

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Page: 1



Scale = 1:29.3

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=2-0-2, 4=2-0-2
Max Horiz 2=-39 (LC 10)
Max Uplift 2=-21 (LC 12), 4=-21 (LC 12)
Max Grav 2=107 (LC 17), 4=107 (LC 18)

FORCES

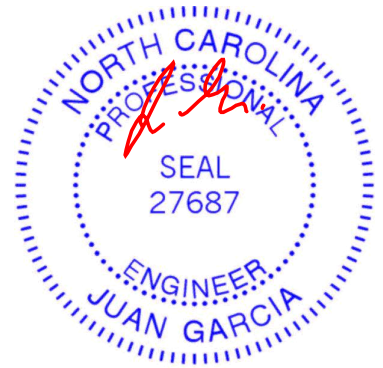
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-48/12, 3-4=-48/12, 4-5=0/17
BOT CHORD 2-4=-9/40

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 21 lb uplift at joint 2, 21 lb uplift at joint 4, 21 lb uplift at joint 2 and 21 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 16,2025

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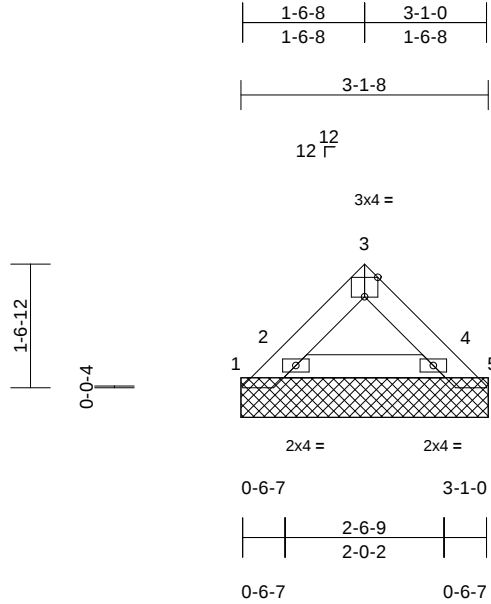
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177100995
P25101839A	PB07	Piggyback	1	3	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

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Page: 1



Scale = 1:29.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
Weight: 29 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-1-8, 2=3-1-8, 4=3-1-8, 5=3-1-8
Max Horiz 1=-39 (LC 10)
Max Uplift 1=-51 (LC 24), 2=-12 (LC 12), 5=-7 (LC 12)
Max Grav 1=16 (LC 9), 2=180 (LC 24), 5=96 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

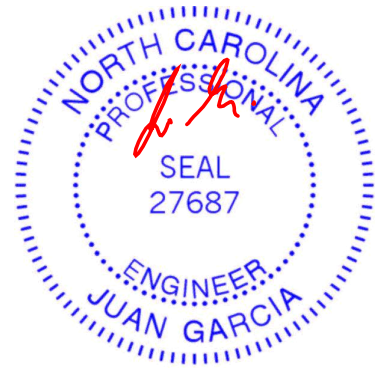
TOP CHORD 1-2=-35/75, 2-3=-59/14, 3-4=-77/13, 4-5=-66/11
BOT CHORD 2-4=-22/57

NOTES

- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 12 lb uplift at joint 2, 51 lb uplift at joint 1, 7 lb uplift at joint 5 and 12 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 16, 2025

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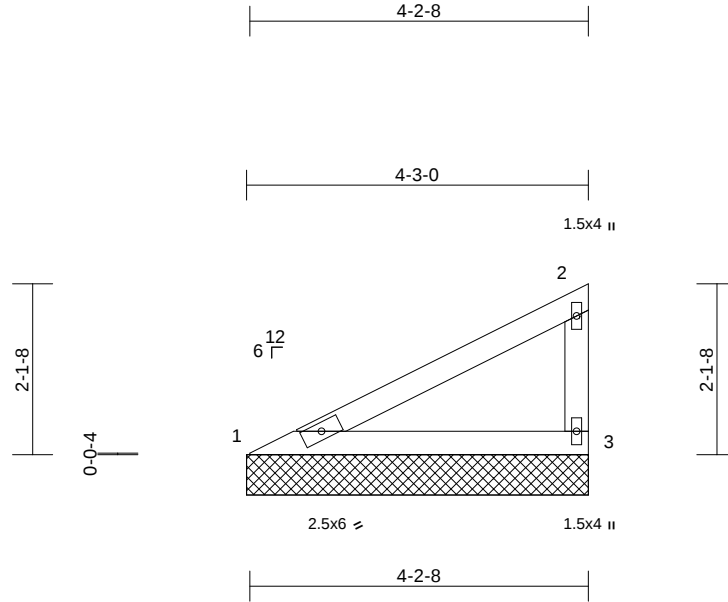
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77100996
P25101839A	V04	Valley	2	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:47
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Page: 1



Scale = 1:28.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-2-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

1=4-3-0, 3=4-3-0
Max Horiz 1=73 (LC 9)
Max Uplift 1=-14 (LC 12), 3=-19 (LC 12)
Max Grav 1=199 (LC 16), 3=199 (LC 16)

FORCES

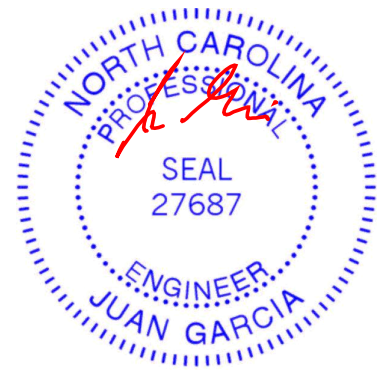
(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=-334/48, 2-3=-128/28
BOT CHORD	1-3=-32/292

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 19 lb uplift at joint 3 and 14 lb uplift at joint 1.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



October 16, 2025

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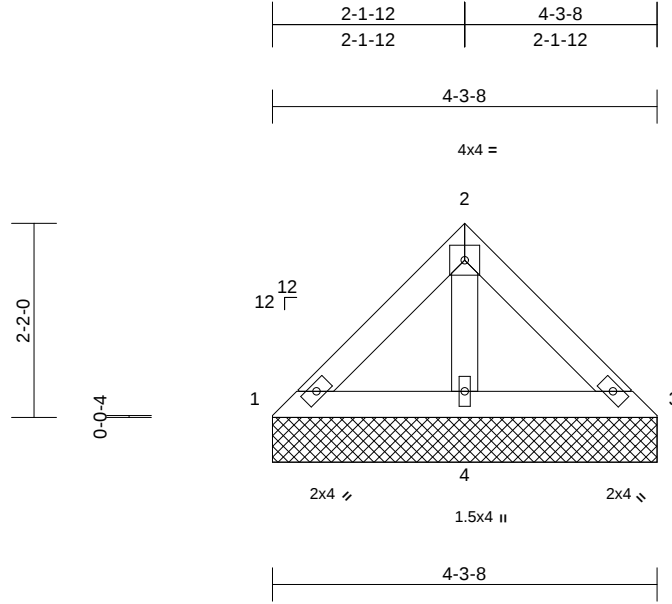
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77100997
P25101839A	V11	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:49
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%
BCDL	10.0											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=4-3-8, 3=4-3-8, 4=4-3-8
Max Horiz 1=-56 (LC 10)
Max Uplift 4=-37 (LC 12)
Max Grav 1=74 (LC 16), 3=74 (LC 17), 4=238 (LC 2)

FORCES

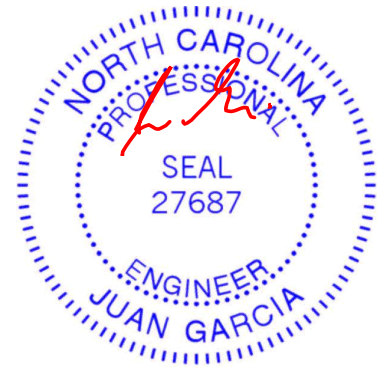
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-63/70, 2-3=-63/64
BOT CHORD 1-4=-42/54, 3-4=-42/42
WEBS 2-4=-135/26

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 37 lb uplift at joint 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



October 16, 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.sbcacompnents.com)

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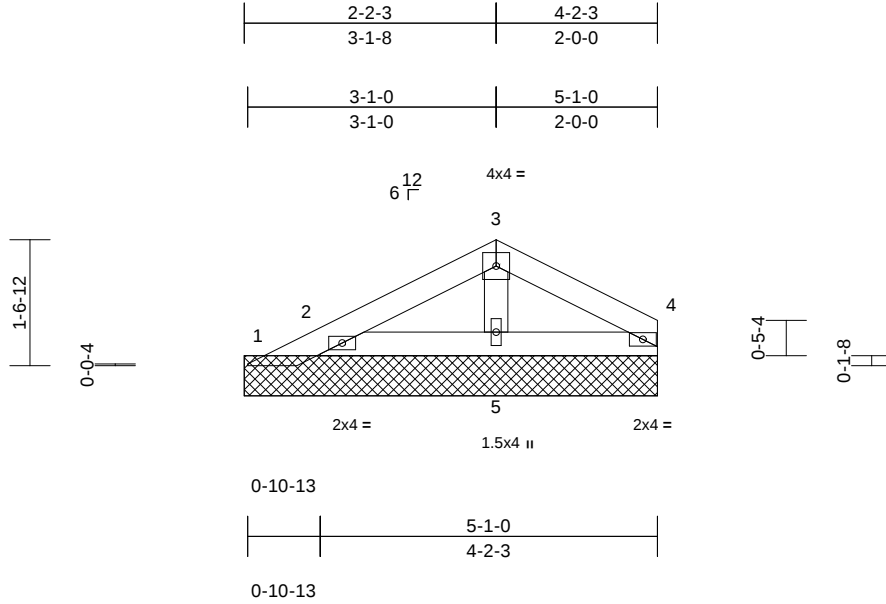
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77100998
P25101839A	PB01	Piggyback	1	3	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 E Nov 14 2024 Print: 8.830 E Nov 14 2024 MiTek Industries, Inc. Thu Oct 16 14:39:05
ID:XgohLeM395xfFJVouxSlodyT77L-TuOuDKr_B0UhQp?AA?09tT1J_YRkwJ1Fci0Ut6ySzha

Page: 1



Scale = 1:18.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	6	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-1-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb) - Max Horiz	1=-28 (LC 10)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 2, 4, 5, 6, 9
Max Grav	All reactions 250 (lb) or less at joint (s) 1, 2, 4, 5, 6, 9

FORCES

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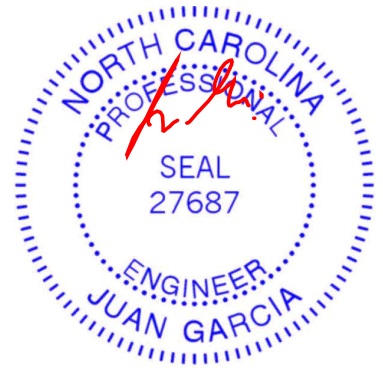
NOTES

- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 100 lb uplift at joint (s) 1, 4, 2, 5, 4, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S)

Standard



October 16, 2025

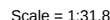
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Longleaf Truss Company, West End, NC - 27376, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:38 Page: 1
ID:?sM3Z NhwP3Wt4?SeAhlayT77K-RfC?PsB70Hg3NSaPnL8w3uITXbGKWRCdoi7J4zJC?f

LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCFL=6.0psf; BCFL=6.0psf; h=12ft;
M=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
BWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 4) TCELL: ASCE 7-16; Pr=20.0 psf (per LL: Lum DOL=1.15
Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL =
1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially
Exp.: Ce=1.0; Cs=1.00; Ct=1.10

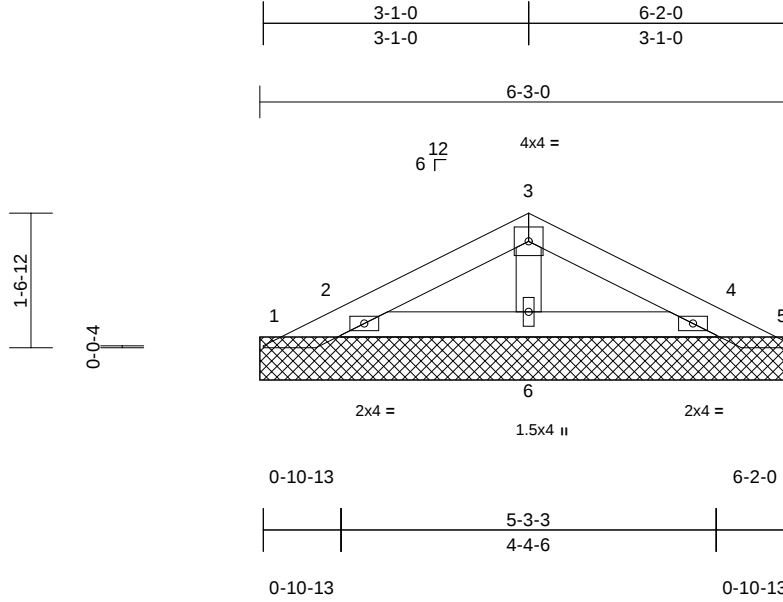


Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101000
P25101839A	PB02	Piggyback	12	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

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Page: 1



Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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=6-3-0, 2=6-3-0, 4=6-3-0, 5=6-3-0, 6=6-3-0
Max Horiz	1=32 (LC 11)
Max Uplift	1=-33 (LC 24), 2=-19 (LC 12), 4=-27 (LC 12), 5=-24 (LC 18)
Max Grav	1=10 (LC 11), 2=208 (LC 17), 4=195 (LC 18), 5=6 (LC 12), 6=152 (LC 2)

FORCES

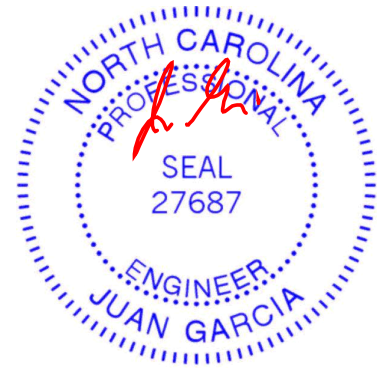
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-32/56, 2-3=-45/24, 3-4=-45/23, 4-5=-2/36
BOT CHORD	2-6=-4/22, 4-6=-5/22
WEBS	3-6=-75/10

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 19 lb uplift at joint 2, 27 lb uplift at joint 4, 33 lb uplift at joint 1, 24 lb uplift at joint 5, 19 lb uplift at joint 2 and 27 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 16,2025

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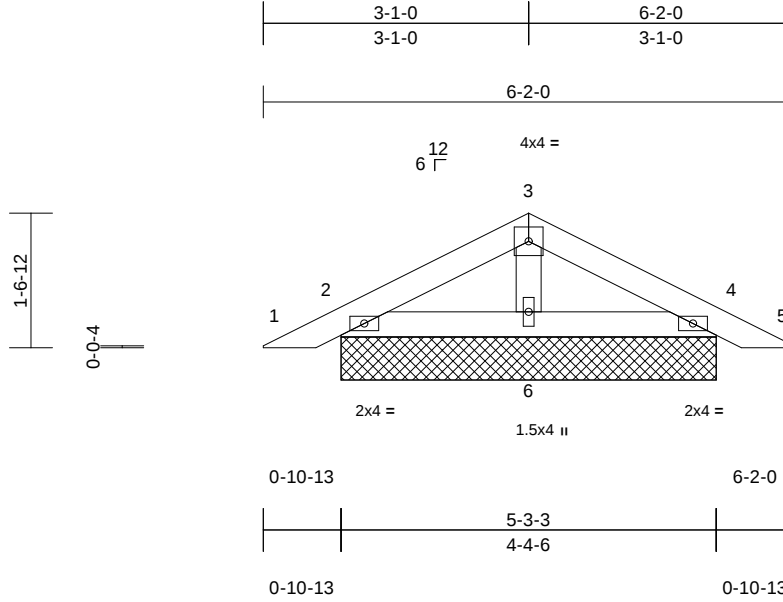
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101001
P25101839A	PB03	Piggyback	2	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

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Page: 1



Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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)	2=4-4-6, 4=4-4-6, 6=4-4-6
Max Horiz	2=32 (LC 11)
Max Uplift	2=-41 (LC 12), 4=-41 (LC 12)
Max Grav	2=148 (LC 17), 4=148 (LC 18), 6=168 (LC 2)

FORCES

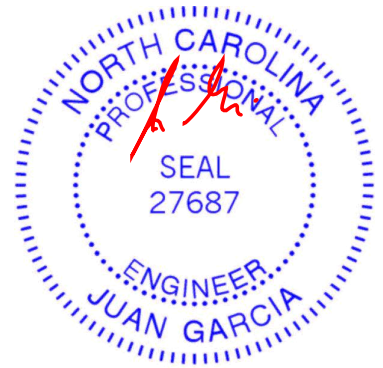
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/19, 2-3=-40/25, 3-4=-39/25, 4-5=0/19
BOT CHORD	2-6=-2/26, 4-6=-2/24
WEBS	3-6=-78/8

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 15.4 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 41 lb uplift at joint 2, 41 lb uplift at joint 4, 41 lb uplift at joint 2 and 41 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 16, 2025

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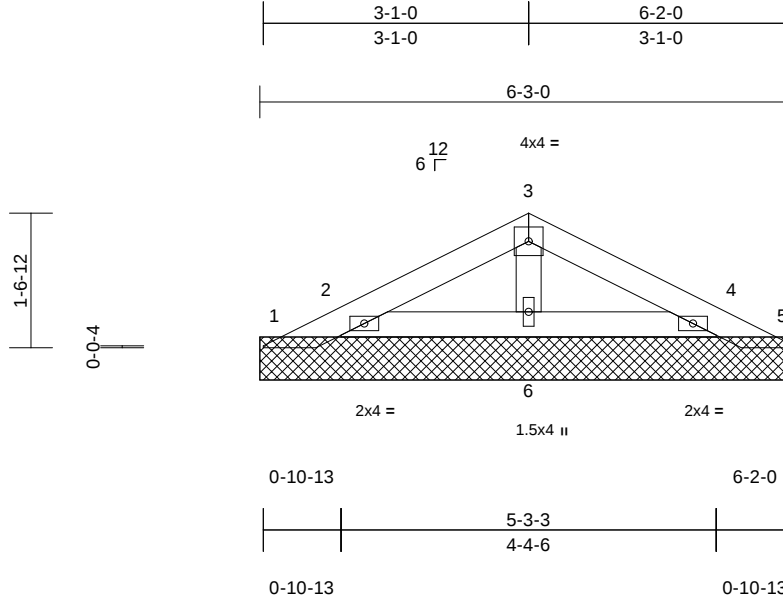
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101002
P25101839A	PB08	Piggyback	1	3	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:39
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Page: 1



Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.01	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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=6-3-0, 2=6-3-0, 4=6-3-0, 5=6-3-0, 6=6-3-0
Max Horiz	1=-32 (LC 10)
Max Uplift	1=-29 (LC 24), 2=-18 (LC 12), 4=-26 (LC 12), 5=-19 (LC 18)
Max Grav	1=12 (LC 11), 2=201 (LC 17), 4=187 (LC 18), 5=5 (LC 12), 6=157 (LC 2)

FORCES

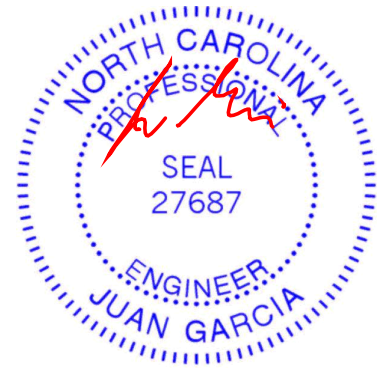
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-33/54, 2-3=-38/23, 3-4=-36/23, 4-5=-2/34
BOT CHORD	2-6=-6/20, 4-6=-5/20
WEBS	3-6=-80/11

NOTES

- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 18 lb uplift at joint 2, 26 lb uplift at joint 4, 29 lb uplift at joint 1, 19 lb uplift at joint 5, 18 lb uplift at joint 2 and 26 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 16, 2025

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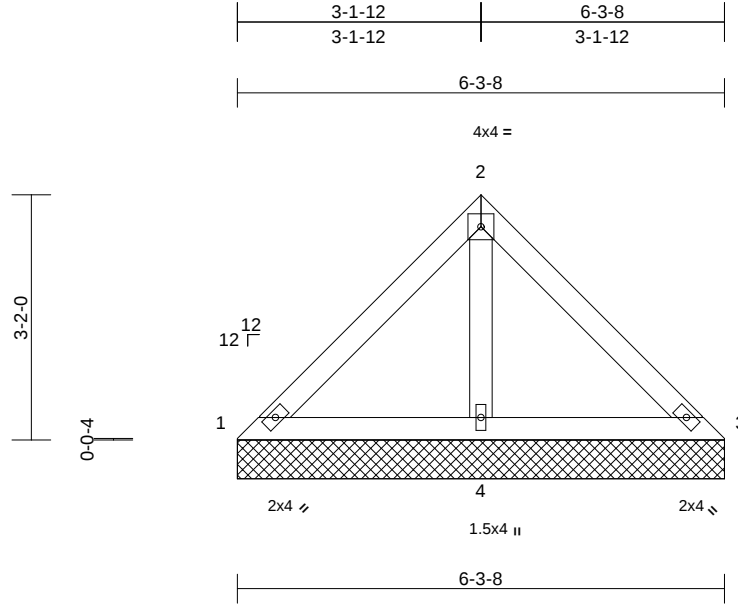
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101003
P25101839A	V10	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:49
ID:yFTp_gOxS0JE6mDNZ3C9NFyT771-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-3-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	1=6-3-8, 3=6-3-8, 4=6-3-8
Max Horiz	1=-85 (LC 10)
Max Uplift	4=-80 (LC 12)
Max Grav	1=76 (LC 16), 3=76 (LC 17), 4=396 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

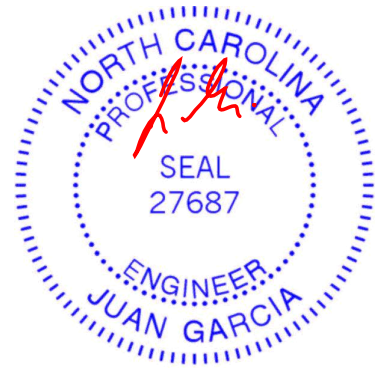
TOP CHORD	1-2=-58/141, 2-3=-58/134
BOT CHORD	1-4=-86/76, 3-4=-86/76
WEBS	2-4=-262/73

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 80 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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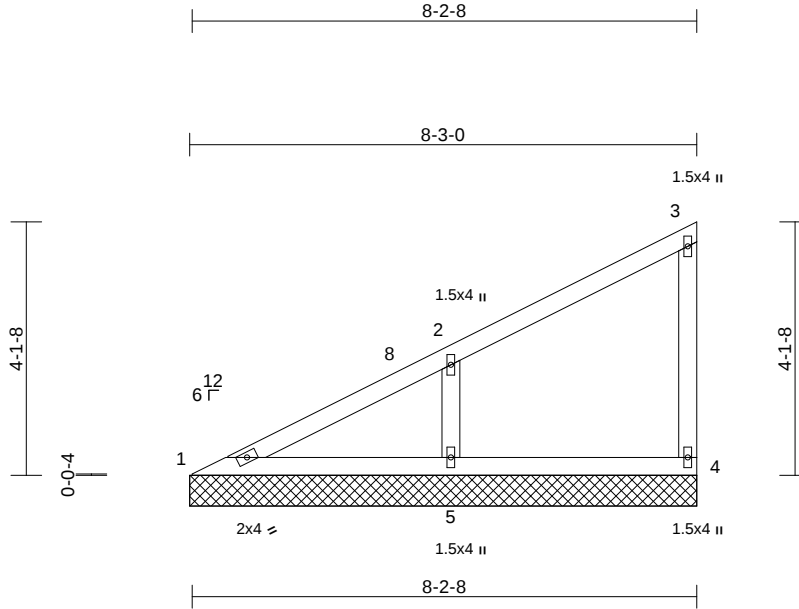
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101004
P25101839A	V03	Valley	2	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

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Page: 1



Scale = 1:37.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0									Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=8-3-0, 4=8-3-0, 5=8-3-0
Max Horiz	1=154 (LC 9)
Max Uplift	4=-24 (LC 9), 5=-73 (LC 12)
Max Grav	1=134 (LC 24), 4=147 (LC 16), 5=449 (LC 16)

FORCES

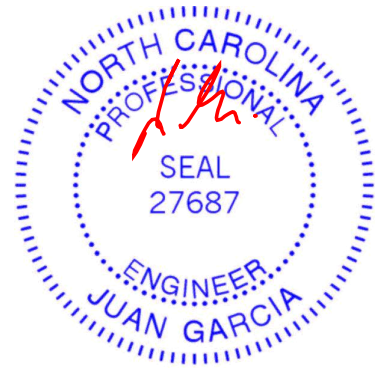
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-230/95, 2-3=-106/48, 3-4=-121/42
BOT CHORD	1-5=-54/197, 4-5=-54/49
WEBS	2-5=-337/119

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 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'-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 24 lb uplift at joint 4 and 73 lb uplift at joint 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

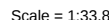
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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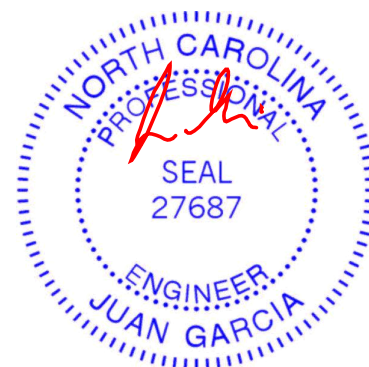
818 Soundside Road
Edenton, NC 27932

Longleaf Truss Company, West End, NC - 27376, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:48 Page: 1
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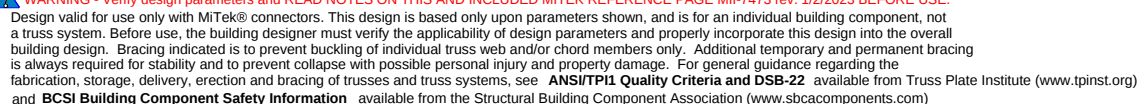


PLATES	GRIP
MT20	244/190
Weight: 34 lb	ET = 20

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCdL=6.0psf; BCdL=6.0psf; h=12ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1 1.
TCdL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



October 16.2025



818 Soundside Road
Edenton, NC 27932

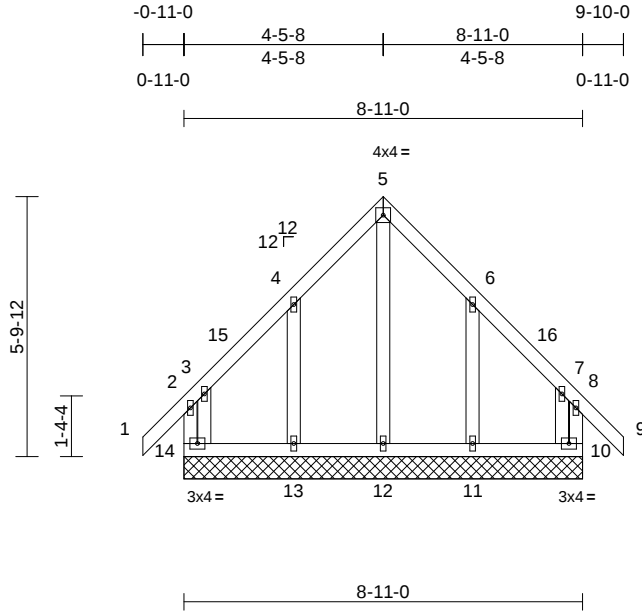
Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101006
P25101839A	T01GE	Common Supported Gable	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:40

Page: 1

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Scale = 1:51.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	10	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0									Weight: 61 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	10=8-11-0, 11=8-11-0, 12=8-11-0, 13=8-11-0, 14=8-11-0
	Max Horiz	14=197 (LC 11)
	Max Uplift	10=-114 (LC 12), 11=-94 (LC 8), 13=-97 (LC 9), 14=-114 (LC 12)
	Max Grav	10=198 (LC 24), 11=264 (LC 25), 12=263 (LC 12), 13=268 (LC 24), 14=206 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension

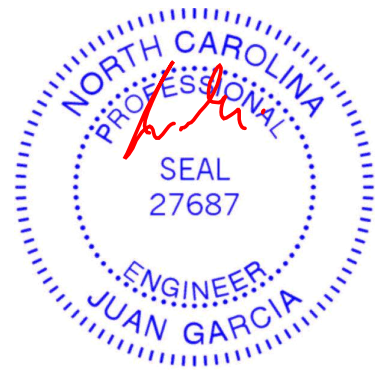
TOP CHORD	2-14=-181/165, 1-2=0/45, 2-3=-81/119, 3-4=-126/108, 4-5=-89/204, 5-6=-89/204, 6-7=-117/108, 7-8=-80/119, 8-9=0/45, 8-10=-177/165
BOT CHORD	13-14=-94/97, 12-13=-94/97, 11-12=-94/97, 10-11=-94/97
WEBS	5-12=-237/9, 4-13=-201/111, 3-14=-220/165, 6-11=-198/111, 7-10=-206/150

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x4 (II) MT20 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 114 lb uplift at joint 14, 114 lb uplift at joint 10, 97 lb uplift at joint 13 and 94 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16,2025

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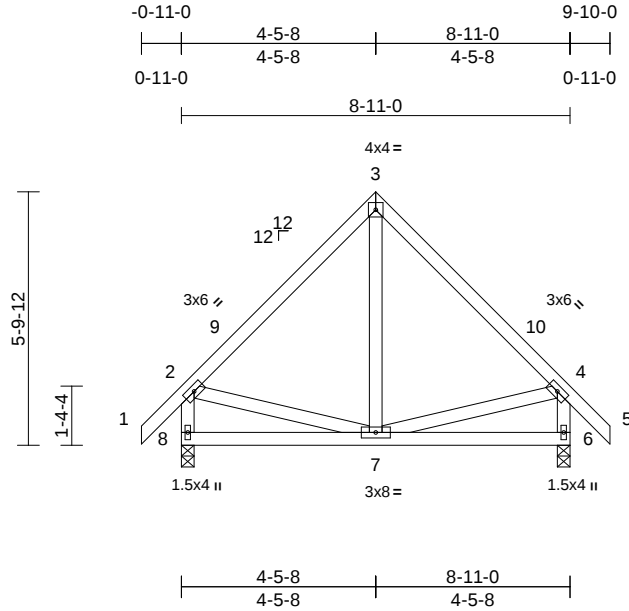
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101007
P25101839A	T01	Common	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:40
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Page: 1



Scale = 1:52.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	6=0-3-8, 8=0-3-8
Max Horiz	8=197 (LC 11)
Max Uplift	6=-73 (LC 12), 8=-73 (LC 12)
Max Grav	6=430 (LC 18), 8=430 (LC 17)

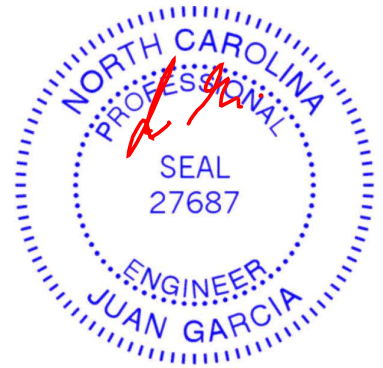
FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-299/62, 3-4=-299/62, 4-5=0/45, 2-8=-397/93, 4-6=-397/93
BOT CHORD	7-8=-192/180, 6-7=-17/15
WEBS	3-7=0/152, 2-7=-16/193, 4-7=-16/193

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 15.4 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 8 and 73 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



October 16, 2025

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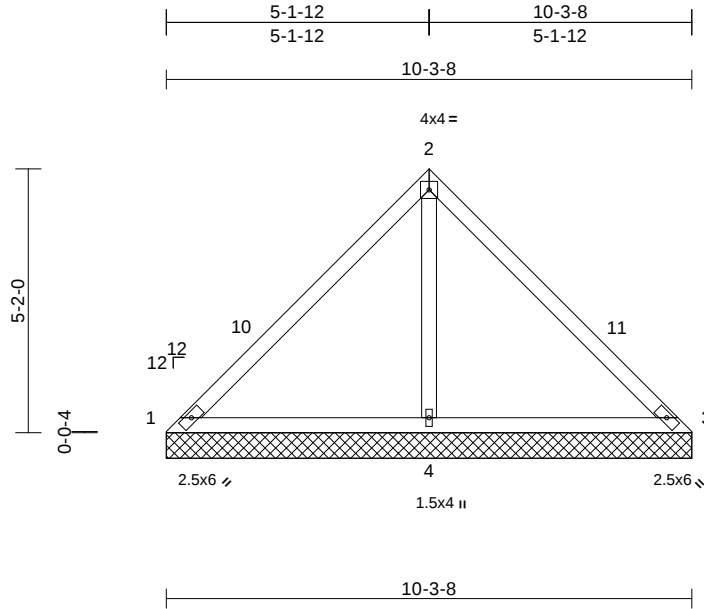
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101008
P25101839A	V08	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:48
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Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=10-3-8, 3=10-3-8, 4=10-3-8
Max Horiz 1=-142 (LC 10)
Max Uplift 1=-106 (LC 30), 3=-2 (LC 12), 4=-81 (LC 12)
Max Grav 1=102 (LC 29), 3=4 (LC 17), 4=850 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

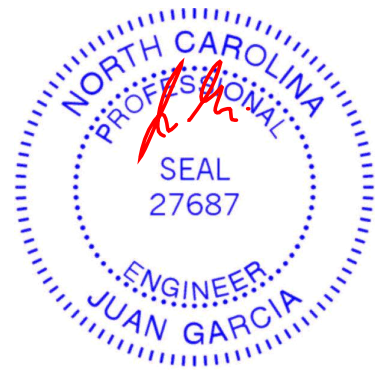
TOP CHORD 1-2=-63/362, 2-3=-183/437
BOT CHORD 1-4=-233/105, 3-4=-293/129
WEBS 2-4=-694/94

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 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 106 lb uplift at joint 1, 2 lb uplift at joint 3, 81 lb uplift at joint 4 and 2 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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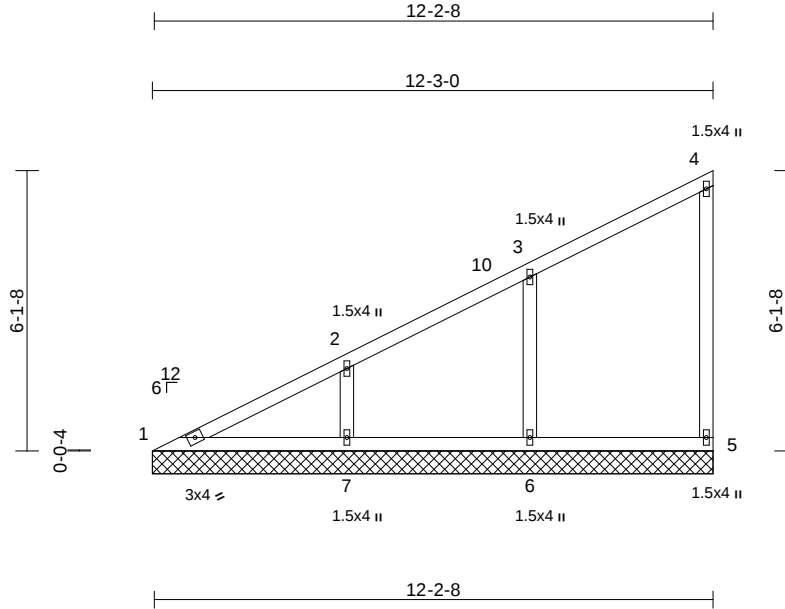
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101009
P25101839A	V02	Valley	2	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:47
ID:T3vRmKNhJBNVdeB0Mhwq2yT77J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 53 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS	(size)	1=12-3-0, 5=12-3-0, 6=12-3-0, 7=12-3-0
	Max Horiz	1=234 (LC 9)
	Max Uplift	5=-33 (LC 9), 6=-68 (LC 12), 7=-62 (LC 12)
	Max Grav	1=169 (LC 24), 5=190 (LC 23), 6=433 (LC 23), 7=433 (LC 23)

FORCES

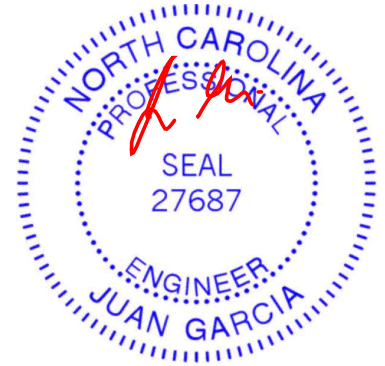
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-305/115, 2-3=-151/87, 3-4=-128/74, 4-5=-130/44
BOT CHORD	1-7=-83/241, 6-7=-83/76, 5-6=-83/76
WEBS	3-6=-305/109, 2-7=-262/106

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5, 68 lb uplift at joint 6 and 62 lb uplift at joint 7.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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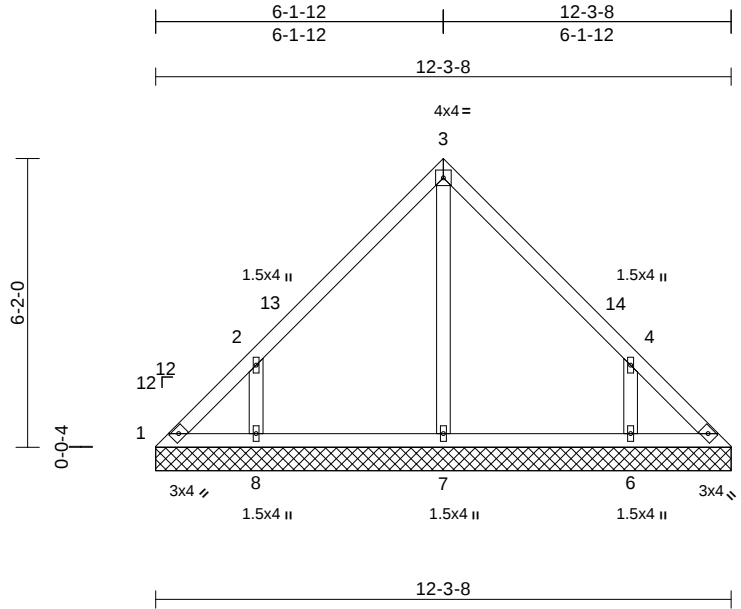
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101010
P25101839A	V07	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:48
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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	1.15	TC	0.19	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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=12-3-8, 5=12-3-8, 6=12-3-8, 7=12-3-8, 8=12-3-8
Max Horiz	1=-171 (LC 10)
Max Uplift	1=-57 (LC 10), 5=-17 (LC 11), 6=-138 (LC 12), 8=-138 (LC 12)
Max Grav	1=131 (LC 24), 5=101 (LC 23), 6=359 (LC 24), 7=222 (LC 2), 8=366 (LC 23)

FORCES

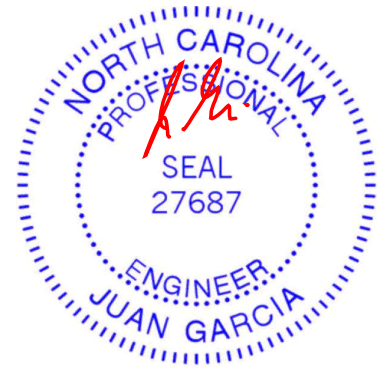
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-155/153, 2-3=-190/99, 3-4=-190/99, 4-5=-124/106
BOT CHORD	1-8=-63/106, 7-8=-62/84, 6-7=-62/84, 5-6=-62/89
WEBS	3-7=-138/0, 2-8=-304/191, 4-6=-303/191

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 1, 17 lb uplift at joint 5, 138 lb uplift at joint 8 and 138 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16,2025

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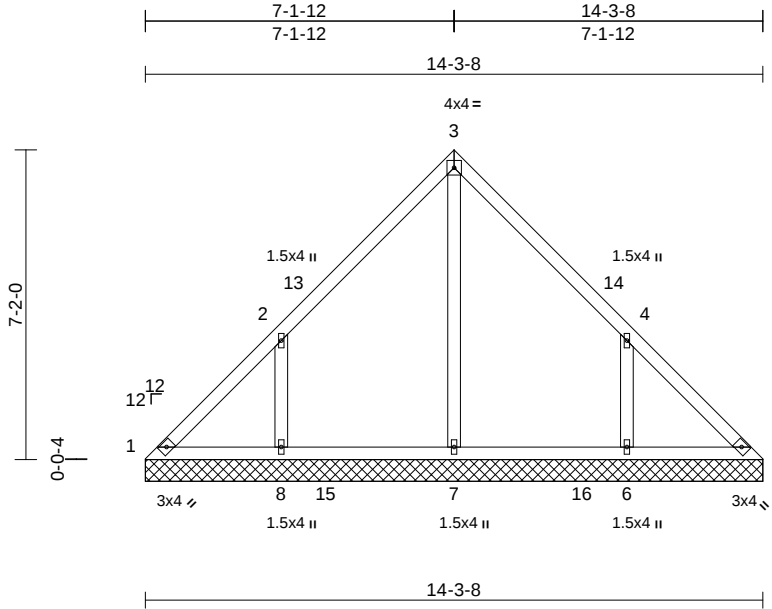
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101011
P25101839A	V06	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:48
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Page: 1



Scale = 1:53.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 67 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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 6-0-0 oc bracing.

REACTIONS

(size)	1=14-3-8, 5=14-3-8, 6=14-3-8, 7=14-3-8, 8=14-3-8
Max Horiz	1=-200 (LC 10)
Max Uplift	1=-43 (LC 10), 6=-155 (LC 12), 8=-155 (LC 12)
Max Grav	1=160 (LC 24), 5=126 (LC 23), 6=471 (LC 24), 7=390 (LC 23), 8=478 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-182/181, 2-3=-162/106, 3-4=-162/106, 4-5=-148/125
BOT CHORD	1-8=-89/146, 7-8=-89/98, 6-7=-89/98, 5-6=-89/106
WEBS	3-7=-188/0, 2-8=-314/195, 4-6=-312/195

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 155 lb uplift at joint 8 and 155 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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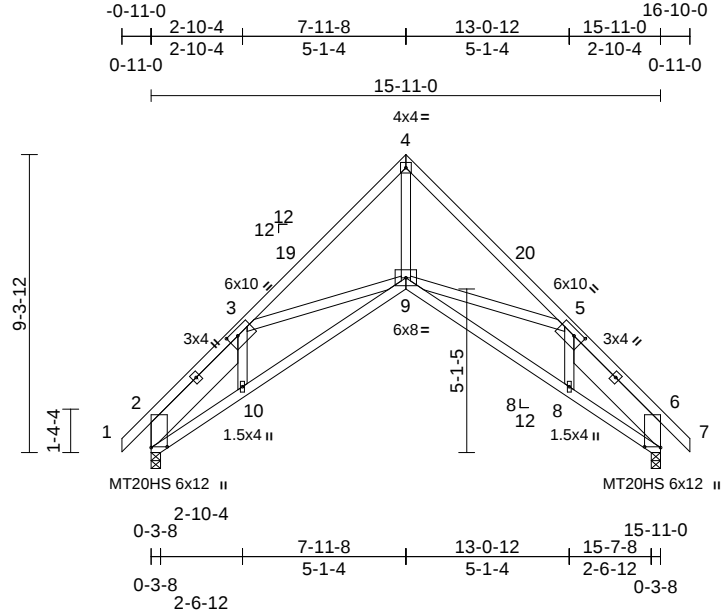
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101012
P25101839A	S01	Scissor	4	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:39
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Page: 1



Scale = 1:72

Plate Offsets (X, Y): [2:0-0-5,0-6-0], [3:0-3-12,0-2-4], [5:0-3-12,0-2-4], [6:0-0-5,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.11	9-10	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.14	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 120 lb											FT = 20%	

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS -- 4-4-10, Right 2x8 SP 2400F 2.0E -- 4-4-10

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-7-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-255 (LC 10)
Max Uplift	2=-97 (LC 12), 6=-97 (LC 12)
Max Grav	2=692 (LC 2), 6=692 (LC 2)

FORCES

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

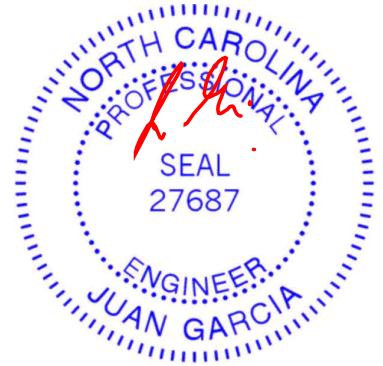
TOP CHORD	1-2=0/39, 2-3=0/483, 3-4=-1117/0, 4-5=-1180/0, 5-6=0/484, 6-7=0/39
BOT CHORD	2-10=-201/1149, 9-10=-126/1193, 8-9=0/912, 6-8=0/872
WEBS	4-9=0/1236, 3-9=-147/260, 3-10=0/145, 5-9=-286/260, 5-8=0/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 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 1.00 times flat roof load of 15.4 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.
- Bearing at joint(s) 2, 6 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 capable of withstanding 97 lb uplift at joint 2 and 97 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16,2025

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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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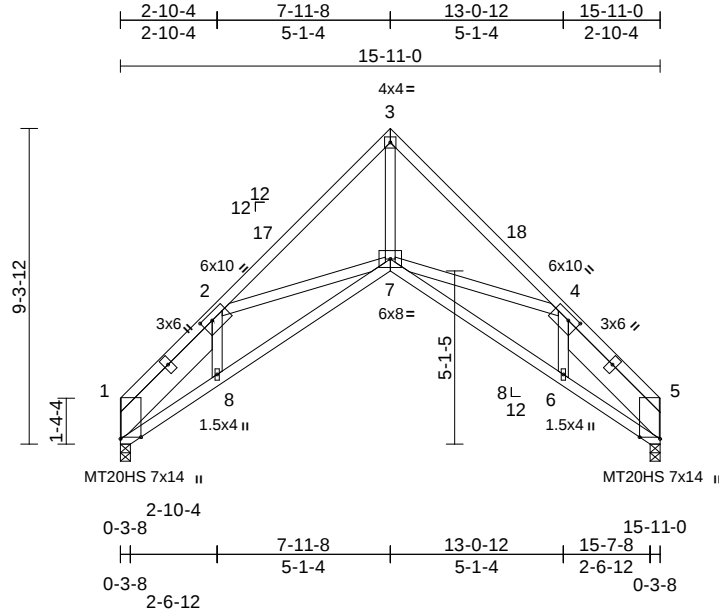
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101013
P25101839A	S02	Scissor	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:40
ID:Tsb3unZ6dZTn4NFaRY76h2yT7u8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?i

Page: 1



Scale = 1:68

Plate Offsets (X, Y): [1:0-0-10,Edge], [2:0-3-12,0-2-4], [4:0-3-12,0-2-4], [5:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04	7-8	>999	240	MT20HS	187/143
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	7-8	>999	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.14	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS -- 4-4-10, Right 2x8 SP DSS -- 4-4-10

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=0-3-8, 5=0-3-8
Max Horiz 1=-228 (LC 10)
Max Uplift 1=-63 (LC 12), 5=-63 (LC 12)
Max Grav 1=637 (LC 2), 5=637 (LC 2)

FORCES

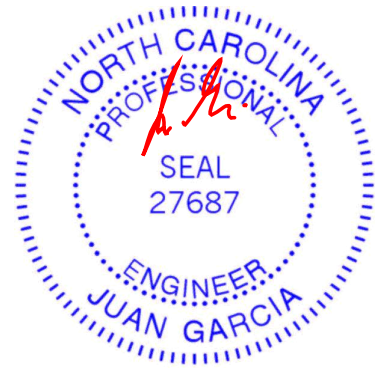
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-8/554, 2-3=-1102/10, 3-4=-1165/17, 4-5=-8/540
BOT CHORD 1-8=-175/1134, 7-8=-168/1178, 6-7=-67/926, 5-6=-45/886
WEBS 3-7=0/1214, 4-7=-281/237, 4-6=0/145, 2-7=-157/232, 2-8=0/145

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- 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.
- Bearing at joint(s) 1, 5 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 capable of withstanding 63 lb uplift at joint 1 and 63 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16,2025

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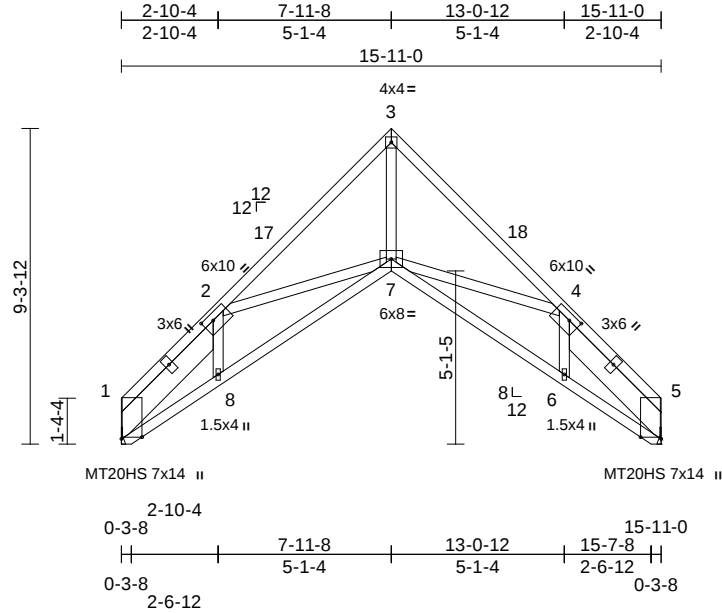
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	
P25101839A	S03	Scissor	10	1	Job Reference (optional)	I77101014

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:40
ID: Tsb3unZ6dZTn4NFaRY76h2yT7u8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?i

Page: 1



Scale = 1:68

Plate Offsets (X, Y): [1:0-0-10,Edge], [2:0-3-12,0-2-4], [4:0-3-12,0-2-4], [5:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04	7-8	>999	240	MT20HS	187/143
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	7-8	>999	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.14	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS -- 4-4-10, Right 2x8 SP 2400F 2.0E -- 4-4-10

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1= Mechanical, 5= Mechanical
Max Horiz 1=-228 (LC 10)
Max Uplift 1=-63 (LC 12), 5=-63 (LC 12)
Max Grav 1=637 (LC 2), 5=637 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

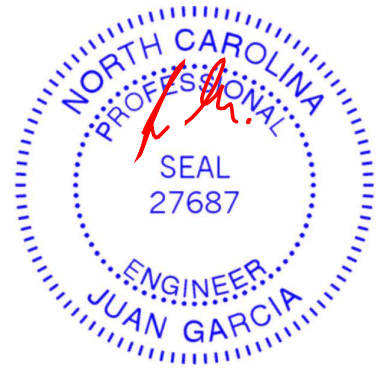
TOP CHORD 1-2=-8/554, 2-3=-1102/10, 3-4=-1165/17, 4-5=-8/542
BOT CHORD 1-8=-175/1135, 7-8=-168/1178, 6-7=-67/927, 5-6=-45/887
WEBS 3-7=0/1214, 2-7=-157/232, 2-8=0/145, 4-7=-281/237, 4-6=0/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1 and 63 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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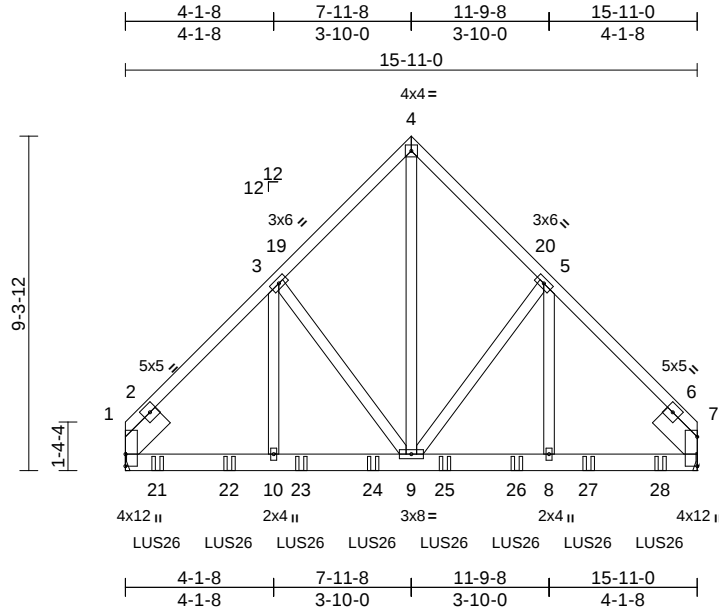
818 Soundside Road
Edenton, NC 27932

Job P25101839A	Truss G01	Truss Type Common Girder	Qty 1	Ply 3	GLEN GODFREY Job Reference (optional)	I77101015
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Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:36
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Page: 1



Scale = 1:64.1

Plate Offsets (X, Y): [1:Edge,0-0-0], [7:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 375 lb											FT = 20%	

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS -- 1-6-0, Right 2x8 SP DSS -- 1-6-0

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= Mechanical, 7= Mechanical
	Max Horiz	1=-228 (LC 10)
	Max Uplift	1=-498 (LC 12), 7=-515 (LC 12)
	Max Grav	1=3225 (LC 24), 7=1644 (LC 19)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=-2526/494, 3-4=-1415/472, 4-5=-1417/472, 5-7=-1605/508
BOT CHORD	1-10=-311/1827, 9-10=-311/1827, 8-9=-273/1080, 7-8=-273/1080
WEBS	3-10=-136/1635, 5-8=-275/184, 4-9=-571/1704, 3-9=-1319/224, 5-9=-250/240

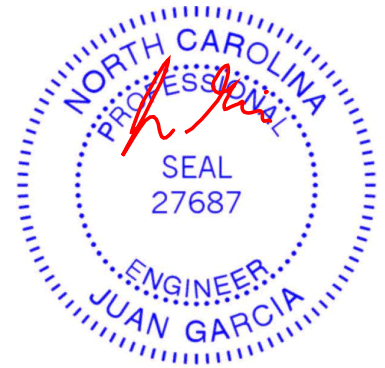
NOTES

- 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 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 498 lb uplift at joint 1 and 515 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-12 from the left end to 4-10-12 to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-10-12 from the left end to 14-10-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-51, 4-7=-51, 11-15=-20
Concentrated Loads (lb)
Vert: 21=-671 (F), 22=-670 (F), 23=-670 (F), 24=-191 (F), 25=-186 (F), 26=-186 (F), 27=-186 (F), 28=-186 (F)



October 16,2025

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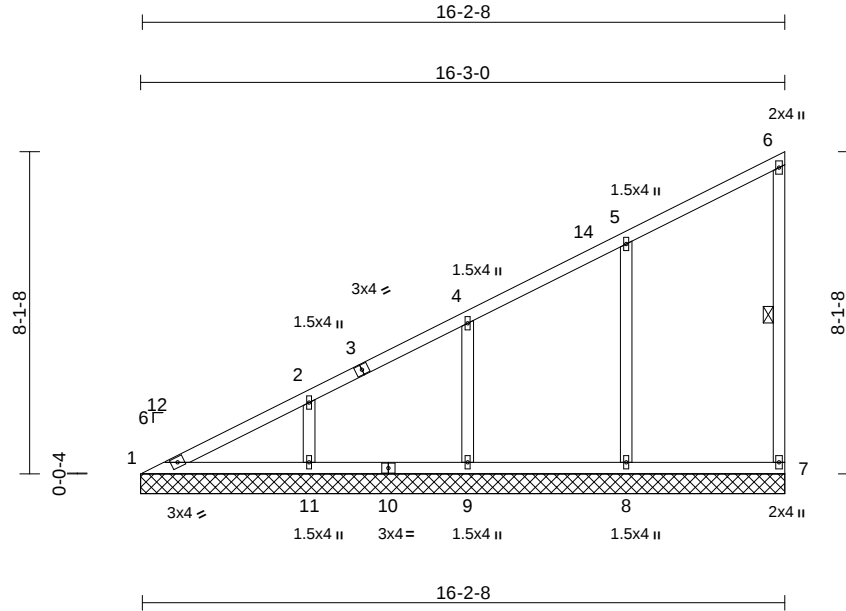
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101016
P25101839A	V01	Valley	2	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:47
ID:T3vRmKNJhJBVndeB0Mhwq2yT77J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.14	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	7	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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 6-7
REACTIONS (size)	1=16-3-0, 7=16-3-0, 8=16-3-0, 9=16-3-0, 11=16-3-0
Max Horiz	1=315 (LC 9)
Max Uplift	7=-42 (LC 9), 8=-69 (LC 12), 9=-63 (LC 12), 11=-60 (LC 12)
Max Grav	1=185 (LC 24), 7=185 (LC 23), 8=489 (LC 23), 9=389 (LC 23), 11=442 (LC 23)

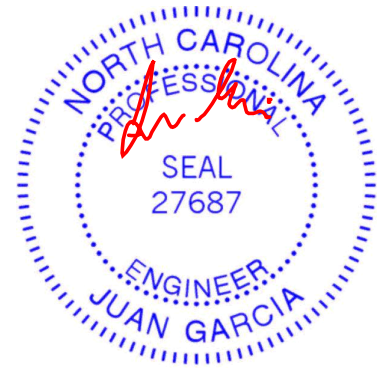
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-340/148, 2-4=-212/115, 4-5=-183/100, 5-6=-147/99, 6-7=-129/46
BOT CHORD	1-11=-112/243, 9-11=-112/102, 8-9=-112/102, 7-8=-112/102
WEBS	5-8=-312/94, 4-9=-232/118, 2-11=-268/101

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 7, 69 lb uplift at joint 8, 63 lb uplift at joint 9 and 60 lb uplift at joint 11.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 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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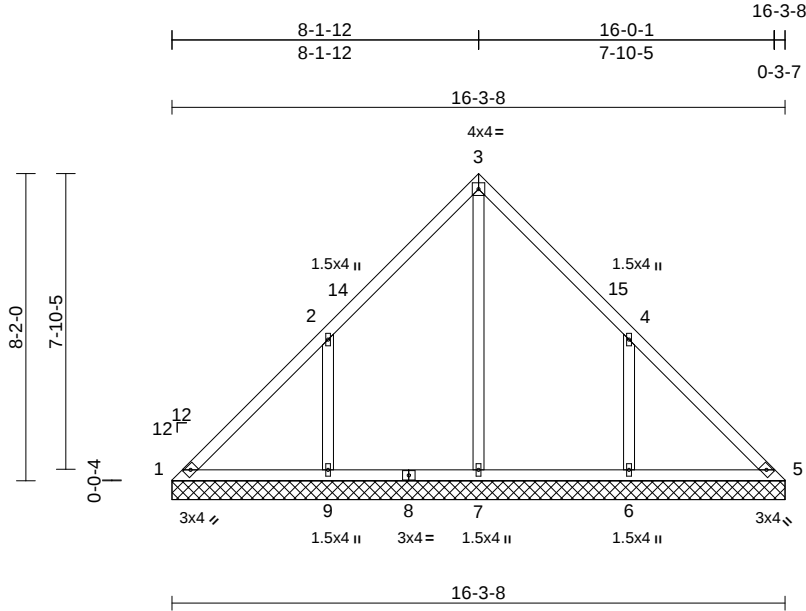
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101017
P25101839A	V05	Valley	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:48
ID:T3vRmKNJhJBVdeB0Mhwq2yT77J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 79 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
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 6-0-0 oc bracing.

REACTIONS

(size)	1=16-3-8, 5=16-3-8, 6=16-3-8, 7=16-3-8, 9=16-3-8
Max Horiz	1=-228 (LC 10)
Max Uplift	1=-46 (LC 10), 6=-179 (LC 12), 9=-179 (LC 12)
Max Grav	1=165 (LC 24), 5=127 (LC 23), 6=553 (LC 24), 7=457 (LC 23), 9=559 (LC 23)

FORCES

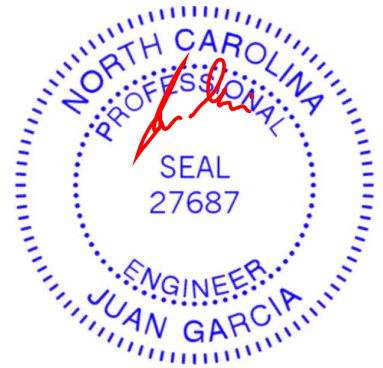
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-180/251, 2-3=-121/146, 3-4=-121/118, 4-5=-140/202
BOT CHORD	1-9=-125/158, 7-9=-125/133, 6-7=-125/133, 5-6=-125/133
WEBS	3-7=-267/0, 2-9=-349/215, 4-6=-346/215

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 179 lb uplift at joint 9 and 179 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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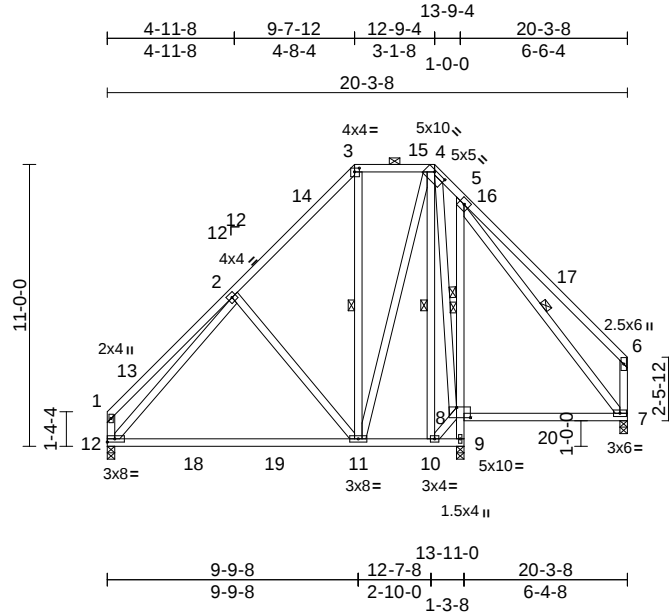
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101018
P25101839A	T03	Piggyback Base	3	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:41
ID:whceh46DMwLk_N12TuddZayT8h4-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:89.9

Plate Offsets (X, Y): [3:0-2-4,0-1-12], [4:0-6-0,0-0-12], [8:0-6-8,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.29	11-12	>574	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.47	11-12	>347	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 190 lb FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* 9-5:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.

1 Row at midpt 5-8

WEBS 1 Row at midpt 3-11, 4-10, 4-8, 5-7

REACTIONS (size) 7=0-3-8, 9=0-3-8, 12=0-3-8
Max Horiz 12=313 (LC 11)
Max Uplift 7=-52 (LC 12), 9=-43 (LC 12), 12=-63 (LC 12)
Max Grav 7=474 (LC 42), 9=1016 (LC 42), 12=808 (LC 44)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-440/115, 2-3=-557/188, 3-4=-276/187, 4-5=-439/372, 5-6=-389/228, 1-12=-398/104, 6-7=-427/196

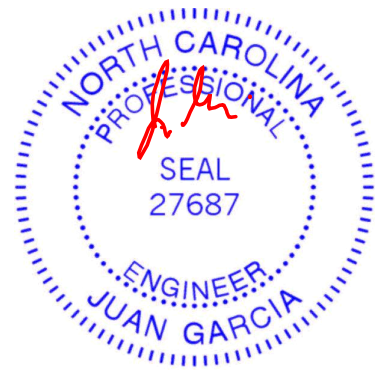
BOT CHORD 11-12=-150/604, 10-11=-97/169, 9-10=-85/0, 8-9=-937/68, 5-8=-748/380, 7-8=-75/156, 2-11=-386/202, 3-11=-66/97, 4-11=-39/725, 4-10=-341/5, 8-10=-97/325, 4-8=-251/110, 2-12=-494/69, 5-7=-174/152

NOTES

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

- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 9, 63 lb uplift at joint 12 and 52 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



October 16, 2025

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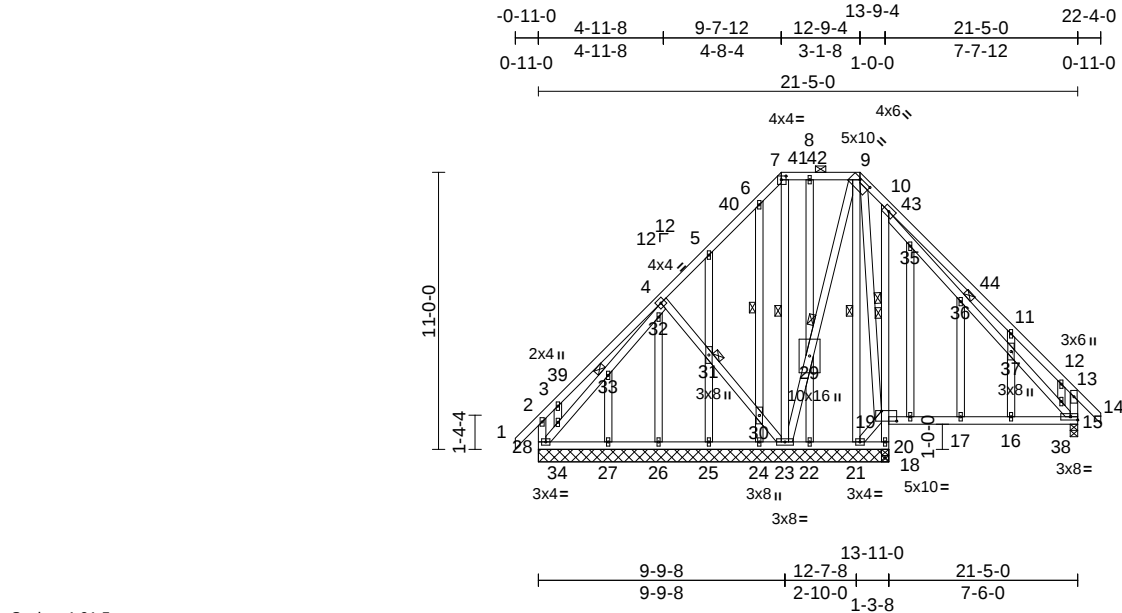
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101019
P25101839A	T02	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:41
ID:mPr4EjTt1s4NqhhXwkJZdWYt77C-RfC?PsB70Hq3NSgPqnL8w3uTXbGKwRCDoi7J4zJC?i

Page: 1



Scale = 1:91.5		Plate Offsets (X, Y): [7:0-2-4,0-1-12], [9:0-6-0,0-0-12], [19:0-7-4,0-4-12]	
Loading	(psf)	Spacing	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0*	Code	IRC2018/TPI2014
BCDL	10.0		
CSI		DEFL	
TC	0.70	in (loc)	l/defl L/d
BC	0.46	Vert(LL)	-0.09 16-17 >964 240
WB	0.78	Vert(CT)	-0.14 16-17 >639 180
Matrix-MS		Horz(CT)	0.01 15 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 275 lb FT = 20%	

LUMBER		TOP CHORD	1-2=0/45, 2-3=-93/109, 3-4=-212/208, 4-5=-175/191, 5-6=-127/259, 6-7=-83/305, 7-8=-50/240, 8-9=-50/240, 9-10=-261/390, 10-11=-599/383, 11-12=-533/218, 12-13=-698/251, 13-14=0/45, 2-28=-138/132, 13-15=-735/282	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.
TOP CHORD	2x4 SP No.1	BOT CHORD	27-28=-209/232, 26-27=-209/232, 25-26=-209/232, 24-25=-209/232, 23-24=-209/232, 22-23=-137/125, 21-22=-137/125, 20-21=-134/20, 19-20=-764/58, 10-19=-710/298, 18-19=-115/104, 17-18=-115/104, 16-17=-115/104, 15-16=-115/104	4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
BOT CHORD	2x4 SP No.1 *Except* 20-10:2x4 SP No.3	WEBS	4-31=-235/146, 30-31=-243/152, 23-30=-240/150, 7-23=-146/27, 23-29=-42/46, 9-29=-39/45, 9-21=-101/48, 19-21=-69/215, 9-19=-140/156, 28-34=-174/65, 33-34=-126/151, 32-33=-145/137, 4-32=-302/153, 10-35=-211/582, 35-36=-207/568, 36-37=-211/547, 37-38=-166/451, 15-38=-219/593, 8-29=-172/12, 22-29=-170/12, 6-30=-181/51, 24-30=-185/55, 5-31=-141/76, 25-31=-133/68, 26-32=-176/38, 27-33=-70/27, 3-34=-195/91, 18-35=-10/27, 17-36=0/34, 11-37=-298/176, 16-37=-169/116, 12-38=-72/193	5) Unbalanced snow loads have been considered for this design.
WEBS	2x4 SP No.3			6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
OTHERS	2x4 SP No.3			7) Provide adequate drainage to prevent water ponding.
BRACING				8) All plates are 1.5x4 () MT20 unless otherwise indicated.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-9.			9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:			10) Gable studs spaced at 2-0-0 oc.
1 Row at midpt	10-19			11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 7-23, 9-21, 9-19, 6-30			
JOINTS	1 Brace at Jt(s): 29, 31, 33, 36			
REACTIONS	(size)			
	15=0-3-8, 20=13-11-0, 21=13-11-0, 22=13-11-0, 23=13-11-0, 24=13-11-0, 25=13-11-0, 26=13-11-0, 27=13-11-0, 28=13-11-0			
Max Horiz	28=-337 (LC 10)			
Max Uplift	15=-136 (LC 12), 20=-50 (LC 12), 21=-83 (LC 43), 23=-59 (LC 11), 24=-34 (LC 12), 25=-43 (LC 12), 26=-9 (LC 8), 27=-3 (LC 12), 28=-148 (LC 12)			
Max Grav	15=466 (LC 35), 20=759 (LC 35), 21=46 (LC 11), 22=201 (LC 34), 23=218 (LC 43), 24=218 (LC 43), 25=175 (LC 35), 26=215 (LC 45), 27=120 (LC 35), 28=308 (LC 35)			
FORCES	(lb) - Maximum Compression/Maximum Tension			

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60



October 16,2025

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY
P25101839A	T02	Piggyback Base Structural Gable	1	1	I77101019
					Job Reference (optional)

- 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 20, 59 lb uplift at joint 23, 83 lb uplift at joint 21, 148 lb uplift at joint 28, 136 lb uplift at joint 15, 34 lb uplift at joint 24, 43 lb uplift at joint 25, 9 lb uplift at joint 26 and 3 lb uplift at joint 27.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

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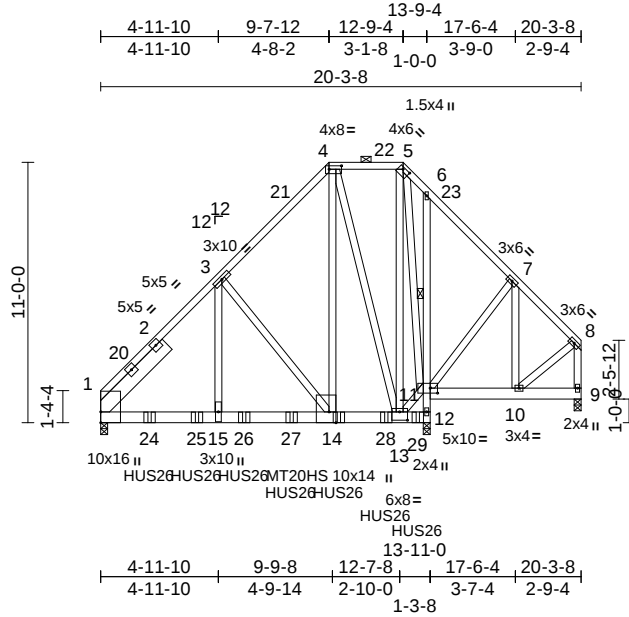
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101020
P25101839A	T04	Piggyback Base Girder	1	3	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:42
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Page: 1



Scale = 1:97.4

Plate Offsets (X, Y): [4:0-6-4,0-1-12], [5:0-3-12,0-1-0], [11:0-3-12,0-2-8], [13:0-4-0,0-4-4], [14:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.18	14-15	>915	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	-0.03	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 657 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1 *Except* 12-6:2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS -- 4-0-0

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.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

1 Row at midpt 6-11

REACTIONS

(size) 1=0-3-8, 9=0-3-8, 12=0-3-8
Max Horiz 1=302 (LC 11)
Max Uplift 1=-659 (LC 12), 9=-220 (LC 12), 12=-498 (LC 12)
Max Grav 1=7876 (LC 42), 9=2549 (LC 42), 12=6219 (LC 44)

FORCES

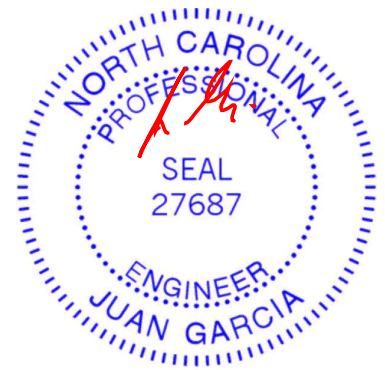
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-7893/720, 3-4=-4554/537, 4-5=-2025/342, 5-6=-2608/467, 6-7=-2530/342, 7-8=-1903/213, 8-9=-2454/225
BOT CHORD 1-15=-554/5531, 14-15=-554/5531, 13-14=-324/3363, 12-13=-534/44, 11-12=-4752/388, 6-11=-514/163, 10-11=-129/1318, 9-10=-21/43
WEBS 3-15=-377/4976, 3-14=-3580/435, 4-14=-645/7340, 4-13=-4676/395, 5-13=-442/4313, 11-13=-318/3402, 5-11=-2477/155, 7-11=-109/839, 7-10=-1232/152, 8-10=-140/1668

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 - 3 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 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 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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 659 lb uplift at joint 1, 498 lb uplift at joint 12 and 220 lb uplift at joint 9.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 13-4-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-51, 4-5=-61, 5-8=-51, 12-16=-20, 9-11=-20
Concentrated Loads (lb)
Vert: 14=-1842 (B), 24=-1842 (B), 25=-1842 (B), 26=-1842 (B), 27=-1842 (B), 28=-1842 (B), 29=-1842 (B)



October 16, 2025

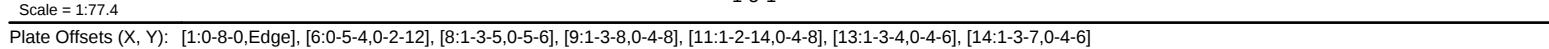
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Longleaf Truss Company, West End, NC - 27376, Run: 8.83 E Nov 14 2024 Print: 8.830 E Nov 14 2024 MiTek Industries, Inc. Thu Oct 16 15:02:52 Page: 1
ID:QFipJTbM9AjVKhPzZz9amTyT7u6-BQ6LiG658TGC76bQGC7nDPe92mQ4mYOILCBTVySzLH



LUMBER		1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-8-0 oc. Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.	1) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 735 lb uplift at joint 8.
TOP CHORD	2x6 SP DSS *Except* 6-7:2x6 SP No.1		
BOT CHORD	2x10 SP DSS		
WEBS	2x4 SP No.3 *Except* 7-8:2x6 SP No.1		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.		2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	3) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
REACTIONS	(lb/size) 1=4825/0-3-8, 8=5124/0-3-8	3) Unbalanced roof live loads have been considered for this design.	4) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-4 from the left end to 4-0-4 to connect truss(es) to front face of bottom chord.
	Max Horiz 1=323 (LC 12)	4) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60	15) Use MiTek JL24 (With 4-16d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 10-0-0 oc max. starting at 6-0-4 from the left end to 20-0-4 to connect truss(es) to front face of bottom chord.
	Max Uplift 1=323 (LC 12), 8=735 (LC 12)	5) TC LL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.	16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-4 from the left end to 16-0-4 to connect truss(es) to front face of bottom chord.
	Max Grav 1=5146 (LC 23), 8=5444 (LC 23)	6) Unbalanced snow loads have been considered for this design.	
FORCES		7) Provide adequate drainage to prevent water ponding.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		8) All plates are MT20 plates unless otherwise indicated.	
TOP CHORD	1-2=-8763/610, 2-3=-7217/517, 3-19=-7175/519, 4-19=-7162/532, 4-20=-4986/409, 5-20=-4878/422, 5-6=-2431/270	9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
BOT CHORD	1-22=-506/3220, 1-22=-506/3220, 1-23=-799/7792, 14-23=-800/7878, 14-24=-803/7875, 24-25=-803/7875, 25-26=-803/7875, 13-26=-803/7875, 12-13=-665/6498, 12-27=-665/6498, 11-27=-665/6498, 11-28=-484/4418, 10-28=-484/4418, 10-29=-484/4418, 29-30=-484/4418, 30-31=-484/4418, 9-31=-484/4418, 9-32=-277/2191, 32-33=-277/2191, 8-33=-277/2191	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, with BCDL = 20.0psf.	
WEBS	2-14=-55/1275, 4-13=-130/2800, 2-13=-1548/155, 5-11=-285/4236, 4-11=-2998/258, 6-9=-578/5245, 5-9=-4098/383, 6-8=-4982/630		
NOTES			

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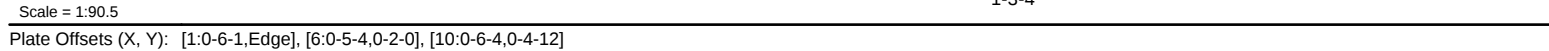
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY
P25101839A	T08	Piggyback Base Girder	1	3	I77101021
			Job Reference (optional)		

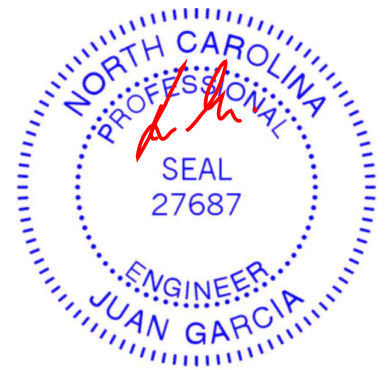
- 17) N/A
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) N/A
- 20) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S) Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-6=-51, 6-7=-61, 8-15=-40
- Concentrated Loads (lb)
- Vert: 12=-602 (F), 22=-602 (F), 23=-602 (F), 24=-602 (F), 25=-602 (F), 26=-602 (F), 27=-602 (F), 28=-602 (F), 30=-602 (F), 31=-602 (F), 32=-1607 (F)

Longleaf Truss Company, West End, NC - 27376, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:46 Page: 1
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LUMBER		2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
TOP CHORD	2x4 SP No.1	Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft;
BOT CHORD	2x4 SP No.1 *Except* 11-7:2x4 SP No.3	B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;
WEBS	2x4 SP No.3	MWFRS (directional); cantilever left and right exposed ;
SLIDER	Left 2x6 SP No.1 -- 1-6-0	end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
BRACING		3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
TOP CHORD	Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.	4) Unbalanced snow loads have been considered for this design.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:	5) Provide adequate drainage to prevent water ponding.
1 Row at midpt	7-10	6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 8-9, 5-12, 6-10, 7-9	7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
REACTIONS	(size) 1=0-3-8, 9= Mechanical, 11=0-3-8	8) Refer to girder(s) for truss to truss connections.
	Max Horiz 1=401 (LC 9)	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 9, 76 lb uplift at joint 1 and 75 lb uplift at joint 11.
	Max Uplift 1=-76 (LC 12), 9=-104 (LC 9), 11=-75 (LC 12)	10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
	Max Grav 1=992 (LC 35), 9=211 (LC 30), 11=1549 (LC 35)	11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
FORCES		LOAD CASE(S) Standard
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-3=-1470/142, 3-5=-986/144, 5-6=-305/143, 6-7=-113/143, 7-8=-142/127, 8-9=-148/71	
BOT CHORD	1-15=-344/1399, 13-15=-215/1399, 12-13=-158/886, 11-12=-160/24, 10-11=-1613/41, 7-10=-285/5, 9-10=-176/124	
WEBS	3-15=0/247, 3-13=-619/121, 5-13=0/616, 5-12=-1135/166, 6-12=-93/825, 10-12=-92/341, 6-10=-1099/151, 7-9=-38/190	

LOAD CASE(S) Standard

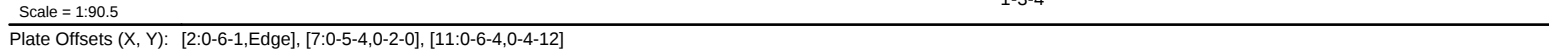


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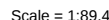
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Longleaf Truss Company, West End, NC - 27376, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:46 Page: 1
ID:uebZOMQb_eZyM4NmhUEdSgyT77G-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKwCDoi7J4zJC?f



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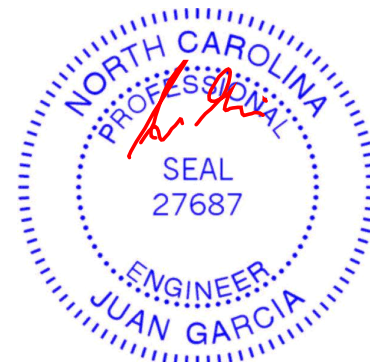
Longleaf Truss Company, West End, NC - 27376, Run: 8.83 E Nov 14 2024 Print: 8.830 E Nov 14 2024 MiTek Industries, Inc. Thu Oct 16 15:27:12 Page: 1
ID: B WdSlVaKnSyh9P6bSsHE9vT779-RJKI7Vnul2D2HUC1oqJ9OH6duJfrsICtMsmiHySz T



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.14	23-25	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.29	23-25	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.05	14	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	20.0											
											Weight: 1685 lb FT = 20%	

- 4) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft;
B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed,
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL =
1.15 Plate DOL = 1.15); Is=1-0.0; Rough Cat B; Partially
Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 6) Unbalanced snow loads have been considered for this
design.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 20.Opsf.

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.



Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY
P25101839A	T07	Piggyback Base Girder	1	3	I77101024
					Job Reference (optional)

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 504 lb uplift at joint 14 and 660 lb uplift at joint 1.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-4 from the left end to 4-0-4 to connect truss(es) to back face of bottom chord.
- 15) N/A

- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-4 from the left end to 14-0-4 to connect truss(es) to back face of bottom chord.
- 17) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 16-0-4 from the left end to connect truss(es) to back face of bottom chord.
- 18) N/A

- 19) Fill all nail holes where hanger is in contact with lumber.
- 20) N/A

21) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-6=-51, 6-8=-61, 17-28=-40, 14-16=-40, 8-13=-51
 Concentrated Loads (lb)
 Vert: 25=-602 (B), 36=-602 (B), 37=-602 (B), 38=-602 (B), 39=-602 (B), 40=-602 (B), 41=-602 (B), 42=-602 (B), 44=-602 (B), 45=-602 (B), 46=-2543 (B)

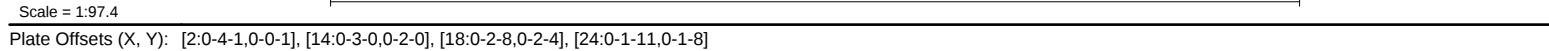
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Longleaf Truss Company, West End, NC - 27376, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:42 Page: 1
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LUMBER		Max Grav	2=256 (LC 25), 27=95 (LC 25), 28=206 (LC 45), 29=213 (LC 35), 30=216 (LC 35), 31=215 (LC 35), 32=214 (LC 35), 33=226 (LC 35), 34=162 (LC 18), 36=225 (LC 34), 37=222 (LC 34), 38=187 (LC 42), 39=218 (LC 35), 40=215 (LC 35), 42=215 (LC 35), 43=214 (LC 35), 44=219 (LC 35), 45=179 (LC 43), 46=174 (LC 24), 47=148 (LC 2), 48=268 (LC 24)	WEBS 18-34=-122/16, 17-36=-185/33, 16-37=-182/45, 15-38=-147/41, 13-39=-178/36, 12-40=-175/62, 11-42=-175/55, 10-43=-174/56, 9-44=-179/56, 8-45=-140/56, 7-46=-130/57, 5-47=-114/52, 4-48=-186/74, 19-33=-186/51, 20-32=-174/59, 21-31=-175/55, 22-30=-175/56, 23-29=-174/55, 25-28=-147/59
TOP CHORD	2x4 SP No.1			
BOT CHORD	2x4 SP No.1			
WEBS	2x4 SP No.3			
OTHERS	2x4 SP No.3			
SLIDER	Left 2x6 SP No.1 -- 1-6-0			
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.): 14-18.			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
WEBS	1 Row at midpt	18-34, 17-36, 16-37, 15-38, 13-39, 12-40, 19-33, 20-32		
REACTIONS (size)	2=40-11-8, 27=40-11-8, 28=40-11-8, 29=40-11-8, 30=40-11-8, 31=40-11-8, 32=40-11-8, 33=40-11-8, 34=40-11-8, 36=40-11-8, 37=40-11-8, 38=40-11-8, 39=40-11-8, 40=40-11-8, 42=40-11-8, 43=40-11-8, 44=40-11-8, 45=40-11-8, 46=40-11-8, 47=40-11-8, 48=40-11-8			
Max Horiz	2=326 (LC 11)			
Max Uplift	2=-85 (LC 10), 27=-32 (LC 12), 28=-44 (LC 12), 29=-28 (LC 12), 30=-33 (LC 12), 31=-31 (LC 12), 32=-35 (LC 12), 33=-27 (LC 12), 36=-9 (LC 12), 37=-21 (LC 12), 38=-1 (LC 11), 39=-12 (LC 12), 40=-38 (LC 12), 42=-31 (LC 12), 43=-32 (LC 12), 44=-32 (LC 12), 45=-31 (LC 12), 46=-34 (LC 12), 47=-25 (LC 12), 48=-74 (LC 9)			
			FORCES	(lb) - Maximum Compression/Maximum Tension
			TOP CHORD	1-2=0/25, 2-4=-308/282, 4-5=-278/236, 5-7=-271/229, 7-8=-258/211, 8-9=-245/196, 9-10=-233/180, 10-11=-220/189, 11-12=-208/224, 12-13=-197/262, 13-14=-179/289, 14-15=-151/272, 15-16=-151/272, 16-17=-151/272, 17-18=-151/272, 18-19=-171/291, 19-20=-155/257, 20-21=-138/220, 21-22=-123/184, 22-23=-106/148, 23-25=-92/113, 25-26=-75/76, 26-27=-84/54 2-48=-54/49, 47-48=-54/49, 46-47=-54/49, 45-46=-54/49, 44-45=-54/49, 43-44=-54/49, 42-43=-54/49, 40-42=-54/49, 39-40=-54/49, 38-39=-54/49, 37-38=-54/49, 36-37=-54/49, 34-36=-54/49, 33-34=-54/49, 32-33=-54/49, 31-32=-54/49, 30-31=-54/49, 29-30=-54/49, 28-29=-54/49, 27-28=-54/49
			BOT CHORD	
				NOTES
				1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=12ft; B=45ft; L=41ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY
P25101839A	T05	Piggyback Base Supported Gable	1	1	I77101025
					Job Reference (optional)

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 1.5x4 (I) MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 27, 85 lb uplift at joint 2, 9 lb uplift at joint 36, 21 lb uplift at joint 37, 1 lb uplift at joint 38, 12 lb uplift at joint 39, 38 lb uplift at joint 40, 31 lb uplift at joint 42, 32 lb uplift at joint 43, 32 lb uplift at joint 44, 31 lb uplift at joint 45, 34 lb uplift at joint 46, 25 lb uplift at joint 47, 74 lb uplift at joint 48, 27 lb uplift at joint 33, 35 lb uplift at joint 32, 31 lb uplift at joint 31, 33 lb uplift at joint 30, 28 lb uplift at joint 29, 44 lb uplift at joint 28 and 85 lb uplift at joint 2.
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 49.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) 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

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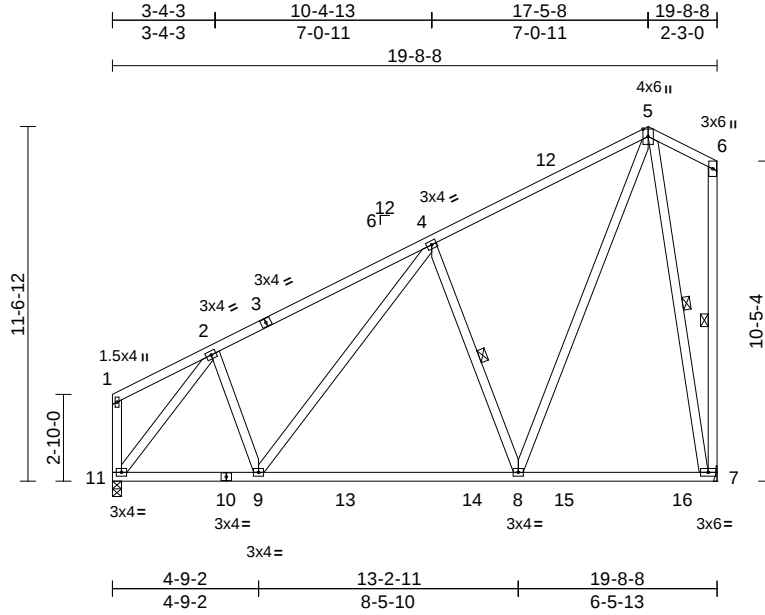
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101026
P25101839A	T11	Common	3	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:45
ID:yFTp_gOxS0JE6mDNZ3C9NFyT771-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:75.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.16	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.26	8-9	>914	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 154 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* 7-6:2x4 SP No.1

BRACING

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

WEBS 1 Row at midpt 4-8, 6-7, 5-7

REACTIONS

(size) 7= Mechanical, 11=0-3-8
Max Horiz 11=427 (LC 11)
Max Uplift 7=-91 (LC 12), 11=-62 (LC 12)
Max Grav 7=1009 (LC 23), 11=897 (LC 23)

FORCES

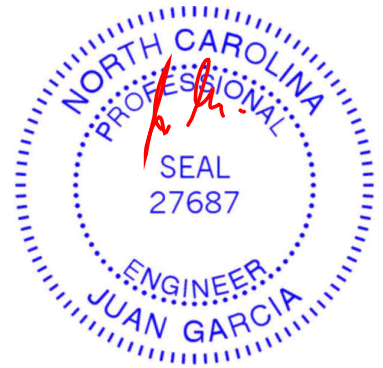
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-57/66, 2-4=-864/162, 4-5=-640/202, 5-6=-220/195, 6-7=-184/141, 1-11=-60/36
BOT CHORD 9-11=-288/784, 8-9=-187/710, 7-8=-144/217
WEBS 5-8=-128/913, 4-8=-526/210, 4-9=-82/201, 2-9=0/253, 5-7=-945/202, 2-11=-1013/51

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 7 and 62 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 16, 2025

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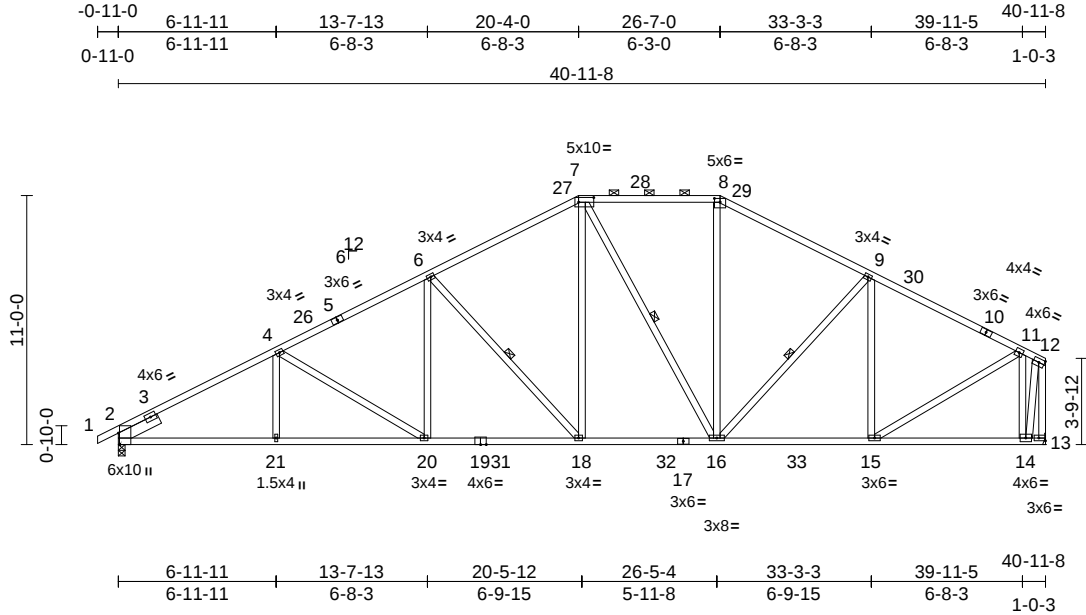
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101027
P25101839A	T06	Piggyback Base	7	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

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Page: 1



Scale = 1:101.8

Plate Offsets (X, Y): [2:0-6-1,Edge], [7:0-8-0,0-2-8], [8:0-3-0,0-2-0], [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	1.15	TC	0.80	Vert(LL)	-0.23	20-21	>999	240	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.40	20-21	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.11	13	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 276 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 1-5:2x4 SP DSS
BOT CHORD 2x4 SP No.1 *Except* 2-19:2x4 SP DSS
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.1 -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-6 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-18, 7-16, 9-16

REACTIONS

(size) 2=0-3-8, 13= Mechanical
Max Horiz 2=326 (LC 11)
Max Uplift 2=-195 (LC 12), 13=-162 (LC 12)
Max Grav 2=2056 (LC 43), 13=2051 (LC 45)

FORCES

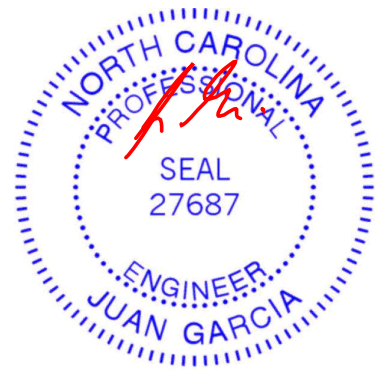
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-4=-3395/302, 4-6=-3025/318, 6-7=-2309/323, 7-8=-1778/308, 8-9=-2087/308, 9-11=-2108/244, 11-12=-465/65, 12-13=-2037/121
BOT CHORD 2-21=-197/3123, 20-21=-197/3123, 18-20=-109/2796, 16-18=-1/2065, 15-16=-44/1804, 14-15=-1/496, 13-14=-37/53
WEBS 4-21=0/192, 4-20=-420/102, 6-20=0/529, 6-18=-1096/159, 7-18=-41/1066, 7-16=-462/54, 8-16=-11/620, 9-16=-150/198, 9-15=-567/116, 11-15=-61/1543, 11-14=-1801/230, 12-14=-143/1953

NOTES

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

- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2 and 162 lb uplift at joint 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



October 16,2025

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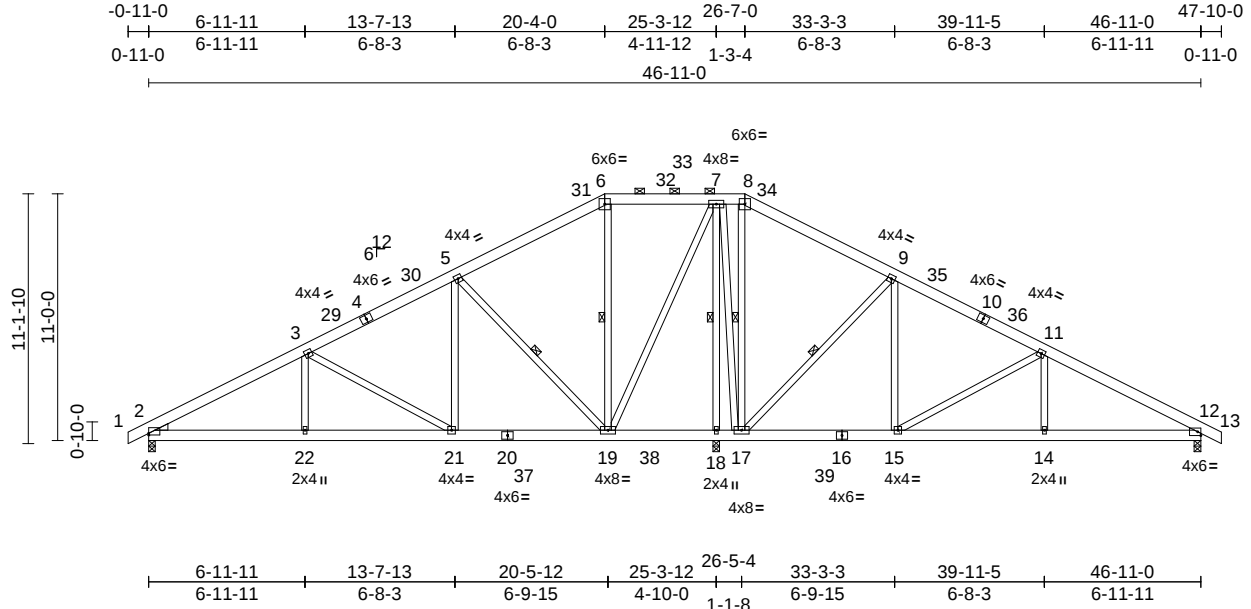
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	I77101028
P25101839A	T09	Piggyback Base	4	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:44
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Page: 1



Scale = 1:102.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.06	19-21	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	19-21	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 393 lb											FT = 20%	

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,17-18.
WEBS 1 Row at midpt 6-19, 8-17, 9-17, 5-19, 7-18

REACTIONS

(size) 2=0-3-8, 12=0-3-8, 18=0-3-8
Max Horiz 2=274 (LC 11)
Max Uplift 2=-125 (LC 12), 12=-109 (LC 12), 18=-205 (LC 12)
Max Grav 2=1089 (LC 43), 12=903 (LC 25), 18=2709 (LC 43)

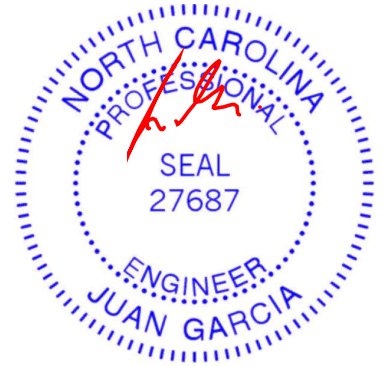
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-1623/168, 3-5=-1055/173, 5-6=-287/171, 6-7=-157/185, 7-8=0/382, 8-9=0/499, 9-11=-658/139, 11-12=-1246/136, 12-13=0/25
BOT CHORD 2-22=-129/1574, 21-22=-55/1574, 19-21=-1/1023, 18-19=-449/195, 17-18=-449/195, 15-17=0/461, 14-15=-27/1036, 12-14=-54/1036
WEBS 3-22=0/251, 5-21=0/645, 6-19=-260/39, 8-17=-349/23, 9-15=0/683, 9-17=-1224/168, 11-14=0/258, 3-21=-655/118, 11-15=-679/120, 5-19=-1192/167, 7-18=-1756/141, 7-17=-16/580, 7-19=-79/1273

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 1.00 times flat roof load of 15.4 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 109 lb uplift at joint 12, 125 lb uplift at joint 2 and 205 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



October 16,2025

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Edenton, NC 27932

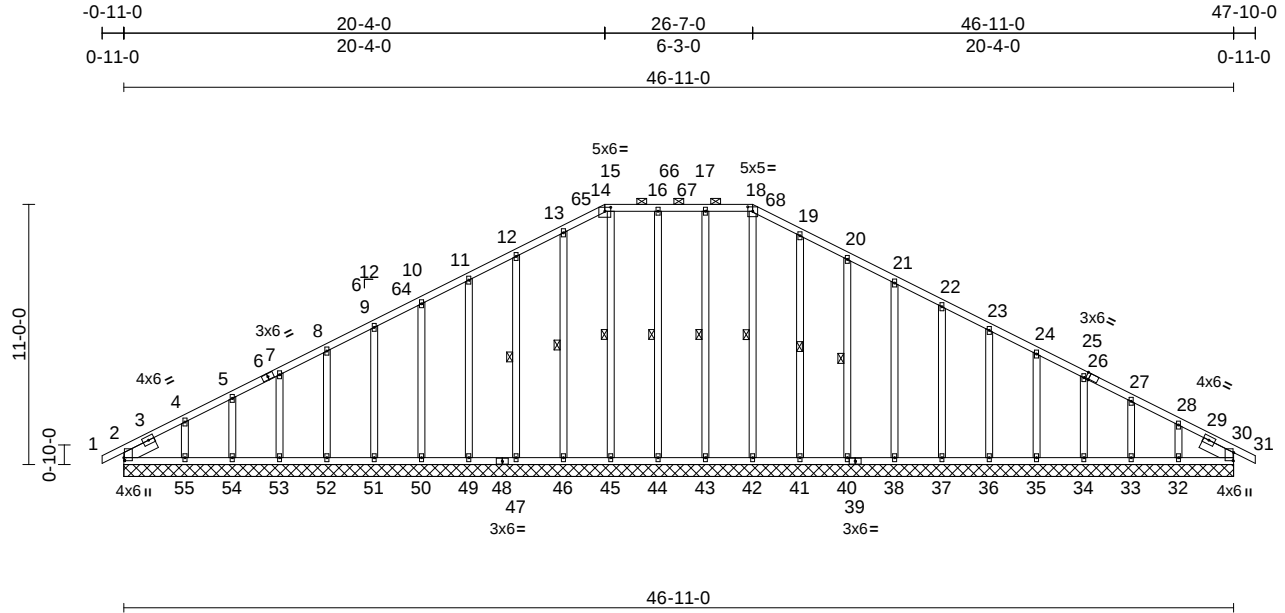
Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101029
P25101839A	T10	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:45

Page: 1

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Scale = 1:97.4

Plate Offsets (X, Y): [2:0-1-8,0-0-5], [14:0-3-0,0-2-0], [18:0-2-8,0-2-4], [26:0-1-9,Edge], [30:0-4-1,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	30	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 367 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-18.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 18-42, 17-43, 16-44, 15-45, 13-46, 12-47, 19-41, 20-40

REACTIONS (size)

2=46-11-0, 30=46-11-0,
32=46-11-0, 33=46-11-0,
34=46-11-0, 35=46-11-0,
36=46-11-0, 37=46-11-0,
38=46-11-0, 40=46-11-0,
41=46-11-0, 42=46-11-0,
43=46-11-0, 44=46-11-0,
45=46-11-0, 46=46-11-0,
47=46-11-0, 49=46-11-0,
50=46-11-0, 51=46-11-0,
52=46-11-0, 53=46-11-0,
54=46-11-0, 55=46-11-0
Max Horiz 2=-274 (LC 10)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-4=-210/212, 4-5=-188/172, 5-7=-179/162, 7-8=-166/144, 8-9=-154/128, 9-10=-143/112, 10-11=-134/146, 11-12=-124/181, 12-13=-116/219, 13-14=-106/247, 14-15=-69/234, 15-16=-69/234, 16-17=-69/234, 17-18=-69/234, 18-19=-100/248, 19-20=-83/214, 20-21=-71/177, 21-22=-62/142, 22-23=-63/106, 23-24=-71/70, 24-25=-73/38, 25-27=-82/55, 27-28=-91/68, 28-30=-95/97, 30-31=0/25

BOT CHORD 2-55=-83/113, 54-55=-83/113, 53-54=-83/113, 52-53=-83/113, 51-52=-83/113, 50-51=-83/113, 49-50=-83/113, 47-49=-83/113, 46-47=-83/113, 45-46=-83/113, 44-45=-83/113, 43-44=-83/113, 42-43=-83/113, 41-42=-83/113, 40-41=-83/113, 38-40=-83/113, 37-38=-83/113, 36-37=-83/113, 35-36=-83/113, 34-35=-83/113, 33-34=-83/113, 32-33=-83/113, 30-32=-83/113
WEBS 18-42=-115/0, 17-43=-184/34, 16-44=-182/44, 15-45=-127/3, 13-46=-177/39, 12-47=-176/61, 11-49=-175/55, 10-50=-174/56, 9-51=-179/56, 8-52=-141/55, 7-53=-130/57, 5-54=-115/50, 4-55=-175/78, 19-41=-185/52, 20-40=-174/58, 21-38=-175/55, 22-37=-174/56, 23-36=-179/56, 24-35=-141/56, 25-34=-129/57, 27-33=-122/51, 28-32=-149/75

NOTES



October 16, 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.

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.sbcacompoments.com)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY
P25101839A	T10	Piggyback Base Supported Gable	1	1	I77101029
					Job Reference (optional)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=47ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 10 lb uplift at joint 43, 20 lb uplift at joint 44, 15 lb uplift at joint 46, 37 lb uplift at joint 47, 31 lb uplift at joint 49, 32 lb uplift at joint 50, 32 lb uplift at joint 51, 31 lb uplift at joint 52, 34 lb uplift at joint 53, 21 lb uplift at joint 54, 68 lb uplift at joint 55, 28 lb uplift at joint 41, 34 lb uplift at joint 40, 31 lb uplift at joint 38, 32 lb uplift at joint 37, 32 lb uplift at joint 36, 31 lb uplift at joint 35, 34 lb uplift at joint 34, 23 lb uplift at joint 33, 65 lb uplift at joint 32 and 40 lb uplift at joint 2.
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 56.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) 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

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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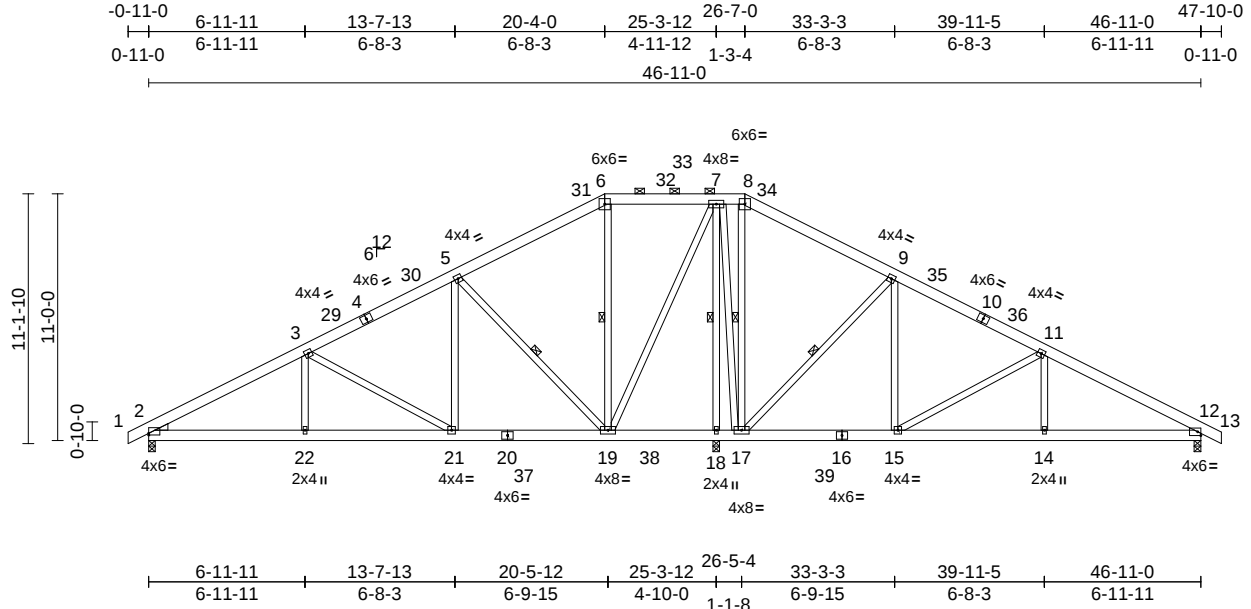
Job	Truss	Truss Type	Qty	Ply	GLEN GODFREY	177101030
P25101839A	T14	Piggyback Base	1	1	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 18:09:46

Page: 1

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Scale = 1:102.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.06	19-21	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	19-21	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 393 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,17-18.
WEBS 1 Row at midpt 5-19, 6-19, 8-17, 9-17, 7-18

REACTIONS

(size) 2=0-3-8, 12=0-3-8, 18=0-3-8
Max Horiz 2=-274 (LC 10)
Max Uplift 2=-125 (LC 12), 12=-109 (LC 12), 18=-205 (LC 12)
Max Grav 2=1089 (LC 43), 12=903 (LC 25), 18=2709 (LC 43)

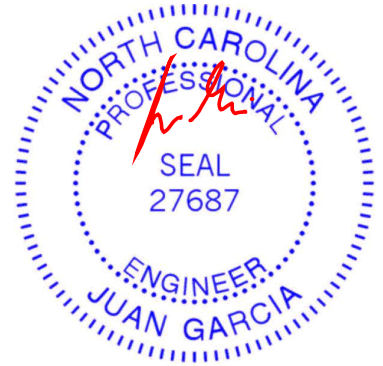
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-1623/168, 3-5=-1055/173, 5-6=-287/171, 6-7=-157/185, 7-8=0/382, 8-9=0/499, 9-11=-658/139, 11-12=-1246/136, 12-13=0/25
BOT CHORD 2-22=-129/1574, 21-22=-55/1574, 19-21=-1/1023, 18-19=-449/195, 17-18=-449/195, 15-17=0/461, 14-15=-27/1036, 12-14=-54/1036
WEBS 3-22=0/251, 3-21=-655/118, 5-21=0/645, 5-19=-1192/167, 6-19=-260/39, 8-17=-349/23, 9-17=-1224/168, 9-15=0/683, 11-15=-679/120, 11-14=0/258, 7-18=-1756/141, 7-17=-16/580, 7-19=-79/1273

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 1.00 times flat roof load of 15.4 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 125 lb uplift at joint 2, 109 lb uplift at joint 12 and 205 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



October 16,2025

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

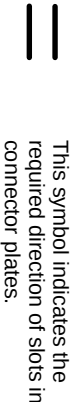
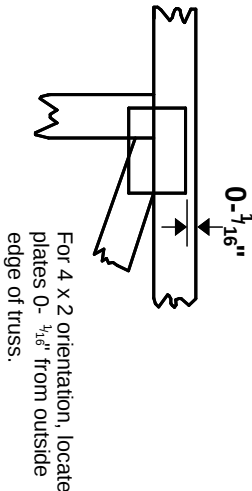
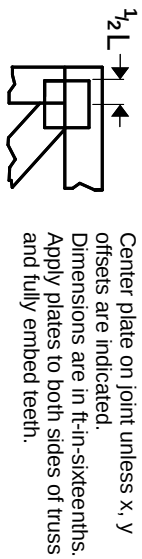
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

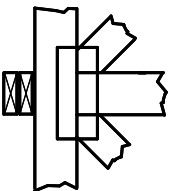
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

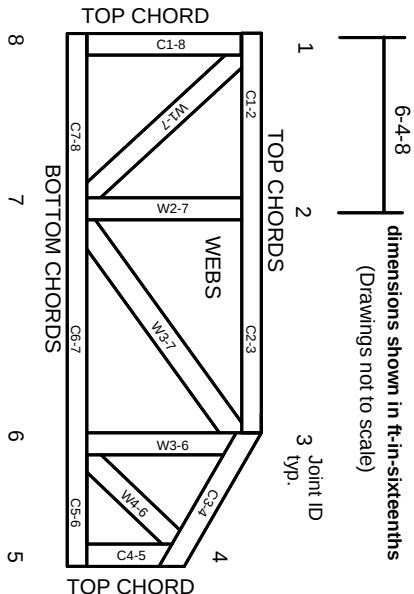
BEARING



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/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

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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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023