

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: CL 3034 Base
CL 3034 Base

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Lumber 2383 (Dunn, NC).

Pages or sheets covered by this seal: I72489009 thru I72489041

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

North Carolina COA: C-0844



April 3, 2025

Gilbert, Eric

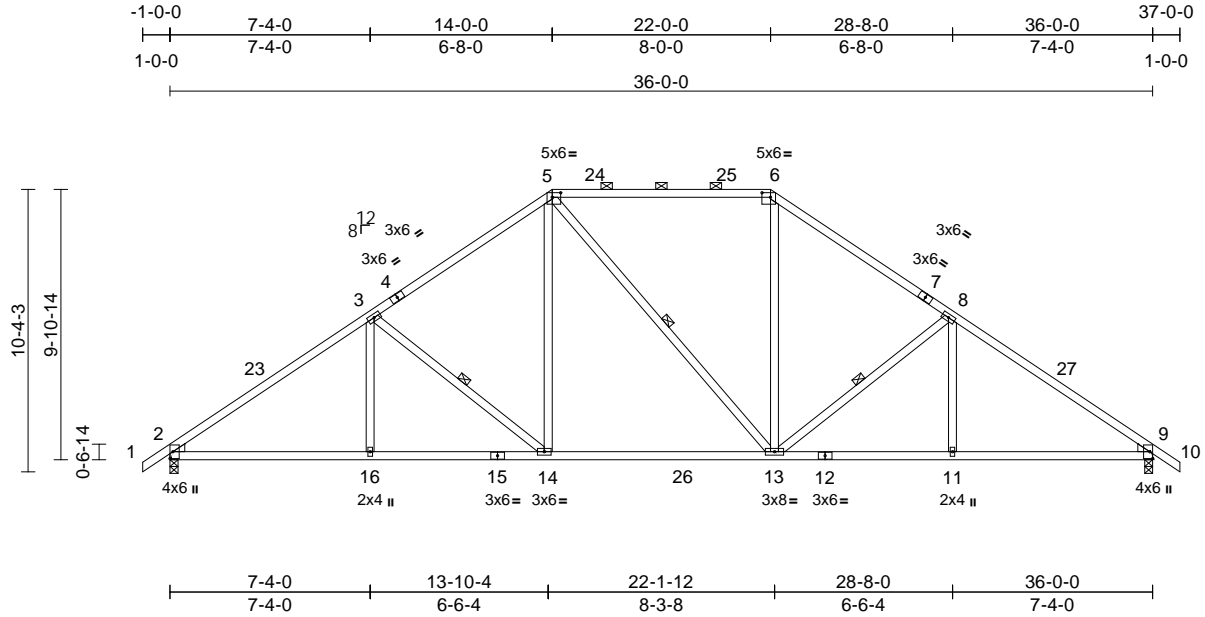
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job CL 3034 Base	Truss A	Truss Type Piggyback Base	Qty 1	Ply 1	CL 3034 Base Job Reference (optional)	I72489009
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:07
ID:yg89FTFE1ZuRSI1qJVVa_PzUVrF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:84.4

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

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	0.58	Vert(LL)	-0.23	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.39	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 205 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP DSS
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* 16-3,11-8:2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except 2-0-0 oc purlins (4-9-13 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-14, 5-13, 8-13

REACTIONS

(size) 2=0-3-8, 9=0-3-8
 Max Horiz 2=-269 (LC 10)
 Max Uplift 2=-202 (LC 12), 9=-202 (LC 13)
 Max Grav 2=1621 (LC 2), 9=1614 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-2312/267, 3-5=-1858/281, 5-6=-1442/301, 6-8=-1844/281, 8-9=-2300/268, 9-10=0/33
 BOT CHORD 2-16=-260/1963, 14-16=-260/1963, 13-14=-84/1463, 11-13=-111/1837, 9-11=-111/1837
 WEBS 3-16=0/252, 3-14=-623/275, 5-14=-73/714, 5-13=-148/149, 6-13=-35/651, 8-13=-625/275, 8-11=0/251

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 14-0-0, Exterior(2R) 14-0-0 to 20-4-15, Interior (1) 20-4-15 to 22-0-0, Exterior(2R) 22-0-0 to 28-8-0, Interior (1) 28-8-0 to 37-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2 and 202 lb uplift at joint 9.
- 9) 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



April 3, 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



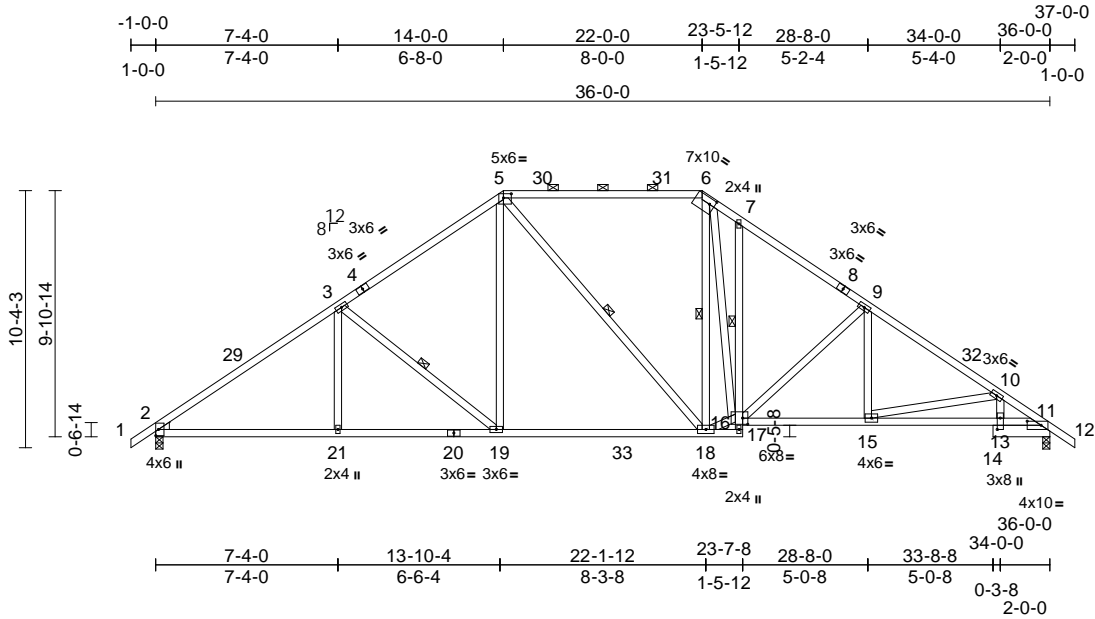
818 Soundside Road
 Edenton, NC 27932

Job CL 3034 Base	Truss A1	Truss Type Piggyback Base	Qty 1	Ply 1	CL 3034 Base Job Reference (optional)	172489010
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:09
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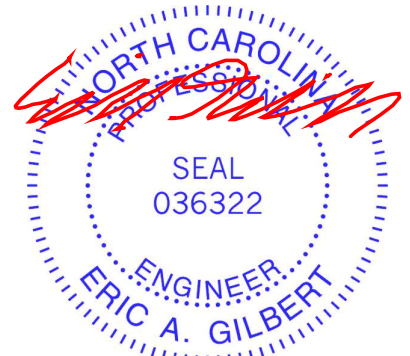
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.22	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.38	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 242 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except* 17-7,20-17:2x4 SP No.2, 14-11:2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 21-3,18-16,9-15,15-10,10-13:2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18.
 1 Row at midpt 7-16
 WEBS 1 Row at midpt 3-19, 5-18, 6-18
REACTIONS (size) 2=0-3-8, 11=0-3-8
 Max Horiz 2=-270 (LC 10)
 Max Uplift 2=-202 (LC 12), 11=-204 (LC 13)
 Max Grav 2=1614 (LC 2), 11=1615 (LC 2)
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-2301/267, 3-5=-1845/280, 5-6=-1432/297, 6-7=-1857/367, 7-9=-1970/285, 9-10=-2435/267, 10-11=-2846/325, 11-12=0/38
 BOT CHORD 2-21=-260/1955, 19-21=-260/1955, 18-19=-84/1454, 17-18=-87/152, 16-17=-209/0, 7-16=-190/165, 15-16=-109/1973, 13-15=-215/2356, 11-13=-220/2334
 WEBS 3-21=0/253, 3-19=-625/275, 5-19=-73/708, 5-18=-150/149, 6-18=-271/150, 16-18=0/1436, 6-16=-245/916, 9-16=-633/211, 9-15=0/348, 10-15=-469/161, 10-13=0/181

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 14-0-0, Exterior(2R) 14-0-0 to 20-4-15, Interior (1) 20-4-15 to 22-0-0, Exterior(2R) 22-0-0 to 28-8-0, Interior (1) 28-8-0 to 37-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- Bearings are assumed to be: Joint 2 SP No.1, Joint 11 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2 and 204 lb uplift at joint 11.
- 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



April 3, 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcomponents.com)

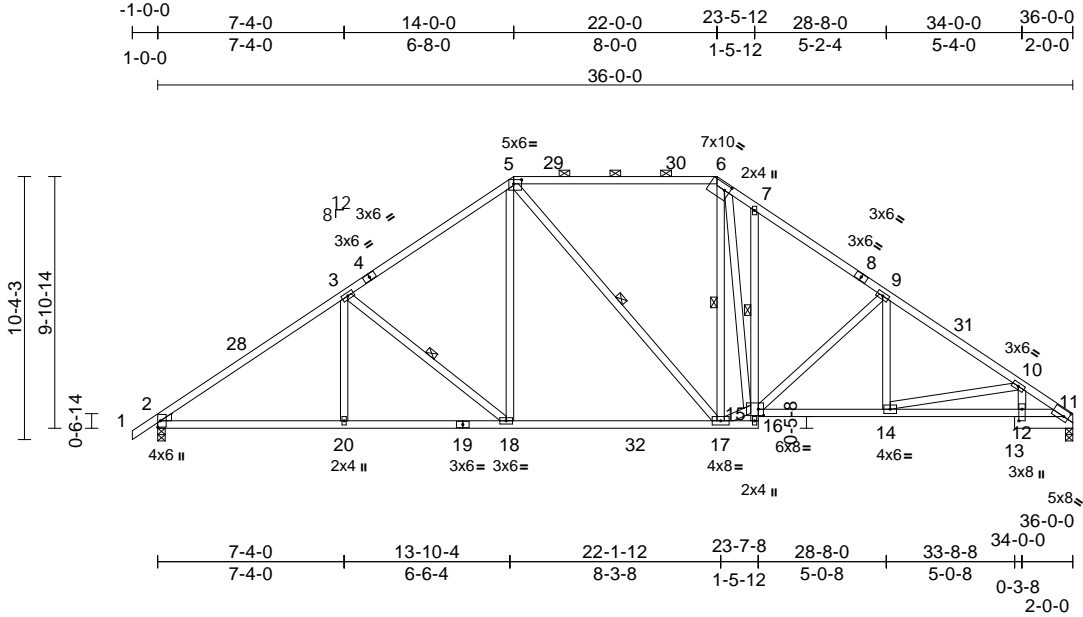
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489011
CL 3034 Base	A1A	Piggyback Base	4	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:09
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Page: 1



Scale = 1:90.6

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:0-2-8,0-2-12], [11:0-2-3,0-3-0], [12:0-5-8,0-1-8], [15:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.22	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.38	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 241 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except* 16-7,19-16:2x4 SP No.2, 13-11:2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 20-3,17-15,9-14,10-12,14-10:2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
 1 Row at midpt 7-15
 WEBS 1 Row at midpt 3-18, 5-17, 6-17
REACTIONS (size) 2=0-3-8, 11=0-3-8
 Max Horiz 2=263 (LC 9)
 Max Uplift 2=-202 (LC 12), 11=-176 (LC 13)
 Max Grav 2=1615 (LC 2), 11=1557 (LC 2)
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-2302/267, 3-5=-1846/284, 5-6=-1435/297, 6-7=-1860/368, 7-9=-1973/287, 9-10=-2441/273, 10-11=-2881/355
 BOT CHORD 2-20=-274/1946, 18-20=-274/1946, 17-18=-92/1444, 16-17=-89/153, 15-16=-209/0, 7-15=-190/165, 14-15=-125/1979, 12-14=-267/2385, 11-12=-270/2361
 WEBS 3-20=0/253, 3-18=-625/275, 5-18=-73/708, 5-17=-150/150, 6-17=-272/155, 15-17=0/1438, 6-15=-256/922, 9-15=-638/215, 9-14=0/353, 10-12=0/187, 10-14=-497/180

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 14-0-0, Exterior(2R) 14-0-0 to 20-4-15, Interior (1) 20-4-15 to 22-0-0, Exterior(2R) 22-0-0 to 28-8-0, Interior (1) 28-8-0 to 35-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 BC DL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.1, Joint 11 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2 and 176 lb uplift at joint 11.
- 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



April 3, 2025

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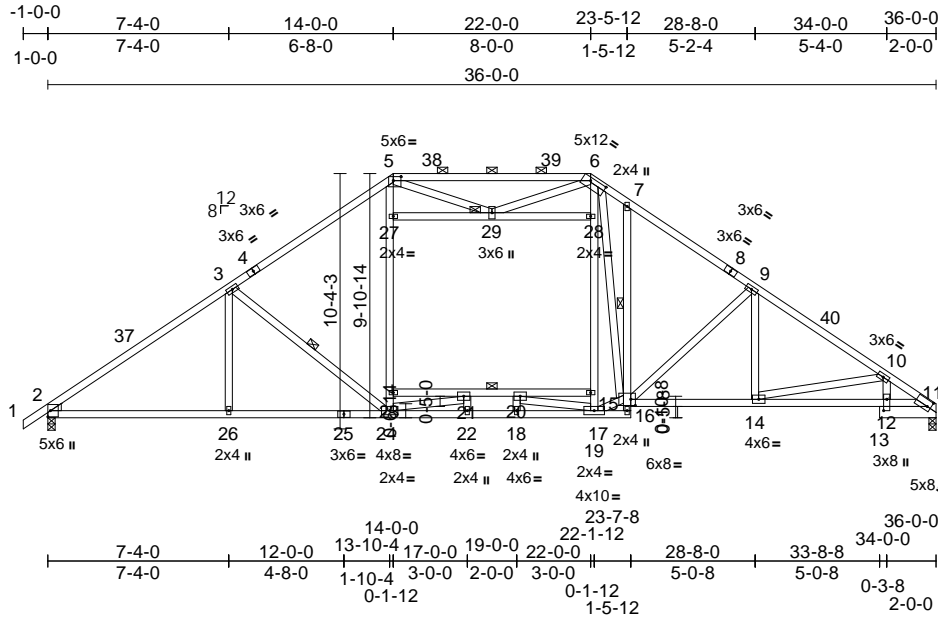
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489012
CL 3034 Base	A1AM	Piggyback Base	2	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:93.4

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:0-8-0,0-1-8], [11:0-1-11,0-3-0], [12:0-5-8,0-1-8], [15:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.19	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.38	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.12	19-23	>830	360	Weight: 269 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP DSS
 BOT CHORD 2x4 SP No.1 *Except* 16-7,23-19:2x4 SP No.2, 13-11:2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 3-24,24-5,17-6,15-6,15-9,27-28:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-1-2 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 6-0-0 oc bracing: 21-23,20-21,19-20.

1 Row at midpt 7-15
 WEBS 1 Row at midpt 3-24
 JOINTS 1 Brace at Jt(s): 29

REACTIONS (size) 2=0-3-8, 11=0-3-8
 Max Horiz 2=263 (LC 9)
 Max Grav 2=1861 (LC 2), 11=1814 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-2803/0, 3-5=-2449/0, 5-6=-1935/0, 6-7=-2491/0, 7-9=-2607/0, 9-10=-3006/0, 10-11=-3362/0
 BOT CHORD 2-26=-92/2358, 24-26=0/2358, 22-24=0/2683, 18-22=0/2683, 17-18=0/2683, 16-17=-30/239, 15-16=-254/75, 7-15=-206/185, 14-15=0/2449, 12-14=0/2780, 11-12=0/2755, 21-23=-154/234, 20-21=-939/0, 19-20=-182/255

WEBS
 3-26=0/250, 3-24=-521/298, 23-24=0/647, 23-27=0/942, 5-27=0/960, 17-19=-443/184, 19-28=-358/304, 6-28=-201/323, 15-17=0/1837, 6-15=-205/1151, 9-15=-559/204, 9-14=0/335, 10-14=-421/183, 10-12=0/188, 21-22=-2/56, 21-24=-1073/25, 18-20=-57/35, 17-20=-1062/0, 27-29=-163/81, 28-29=-169/87, 5-29=-87/195, 6-29=-76/188

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=40ft; Cat II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 14-0-0, Exterior(2R) 14-0-0 to 20-4-15, Interior (1) 20-4-15 to 22-0-0, Exterior(2R) 22-0-0 to 28-8-0, Interior (1) 28-8-0 to 35-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 27-29, 28-29; Wall dead load (10.0psf) on member(s).23-27, 19-28
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 20-21, 19-20
 - Bearings are assumed to be: Joint 2 SP No.1, Joint 11 SP No.2.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
LOAD CASE(S) Standard



April 3, 2025

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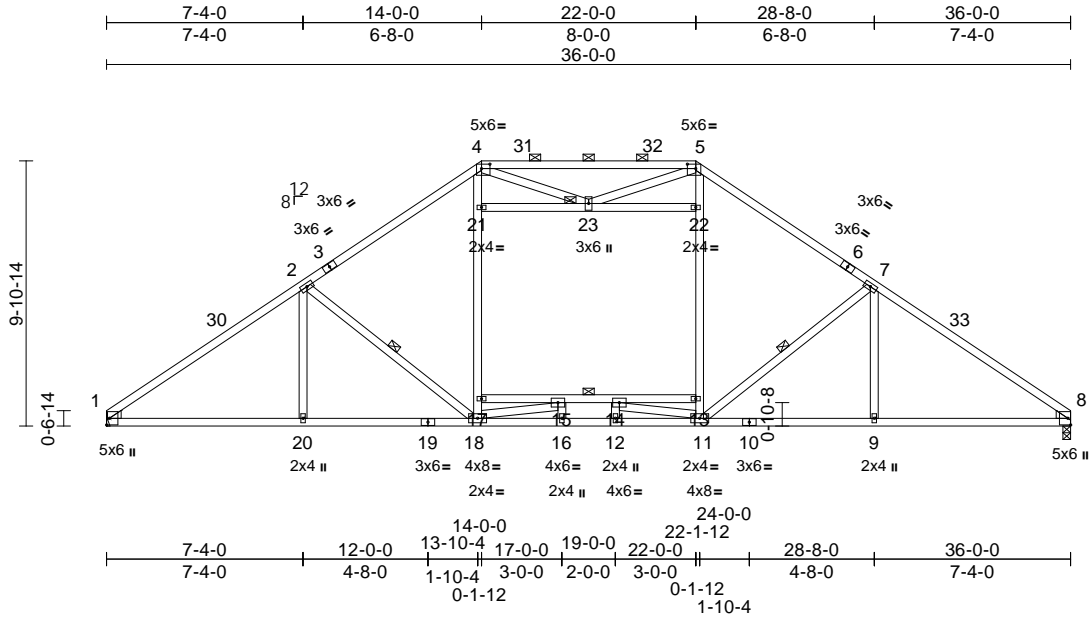
818 Soundside Road
 Edenton, NC 27932

Job CL 3034 Base	Truss A3M	Truss Type Piggyback Base	Qty 3	Ply 1	CL 3034 Base Job Reference (optional)	I72489014
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:11
ID:HJNK7JP4m8G1m4PJ9_a592zUVfQ-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:86

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

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	0.79	Vert(LL)	-0.20	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.38	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.14	13-17	>698	360	Weight: 230 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x4 SP DSS
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-18,18-4,11-5,7-11,21-22:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-11-11 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 7-11
 JOINTS 1 Brace at Jt(s): 23

REACTIONS

(size) 1= Mechanical, 8=0-3-8
 Max Horiz 1=251 (LC 9)
 Max Grav 1=1818 (LC 2), 8=1817 (LC 2)

FORCES

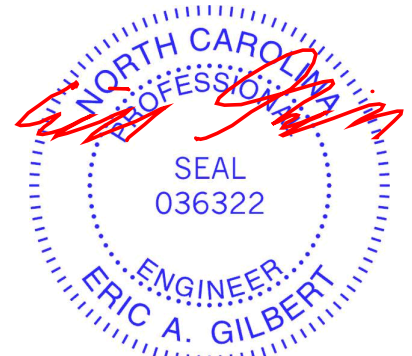
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-2820/0, 2-4=-2466/0, 4-5=-1921/0, 5-7=-2466/0, 7-8=-2820/0
 BOT CHORD 1-20=-120/2374, 18-20=0/2374, 16-18=0/2687, 12-16=0/2687, 11-12=0/2687, 9-11=0/2263, 8-9=0/2263, 15-17=-166/309, 14-15=-923/0, 13-14=-170/309
 WEBS 2-20=0/249, 2-18=-523/302, 17-18=0/668, 17-21=0/955, 4-21=0/974, 11-13=0/668, 13-22=0/955, 5-22=0/974, 7-11=-524/303, 7-9=0/249, 21-23=-208/89, 22-23=-209/90, 4-23=-97/201, 5-23=-97/201, 15-16=-6/50, 15-18=-1099/0, 12-14=-6/50, 11-14=-1099/0

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-6-6, Interior (1) 4-6-6 to 14-0-0, Exterior(2R) 14-0-0 to 20-4-15, Interior (1) 20-4-15 to 22-0-0, Exterior(2R) 22-0-0 to 28-8-0, Interior (1) 28-8-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 21-23, 22-23; Wall dead load (10.0psf) on member(s).17-21, 13-22
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17, 14-15, 13-14
- 9) Bearings are assumed to be: , Joint 8 SP No.2 .
- 10) Refer to girder(s) for truss to truss connections.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



April 3, 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)



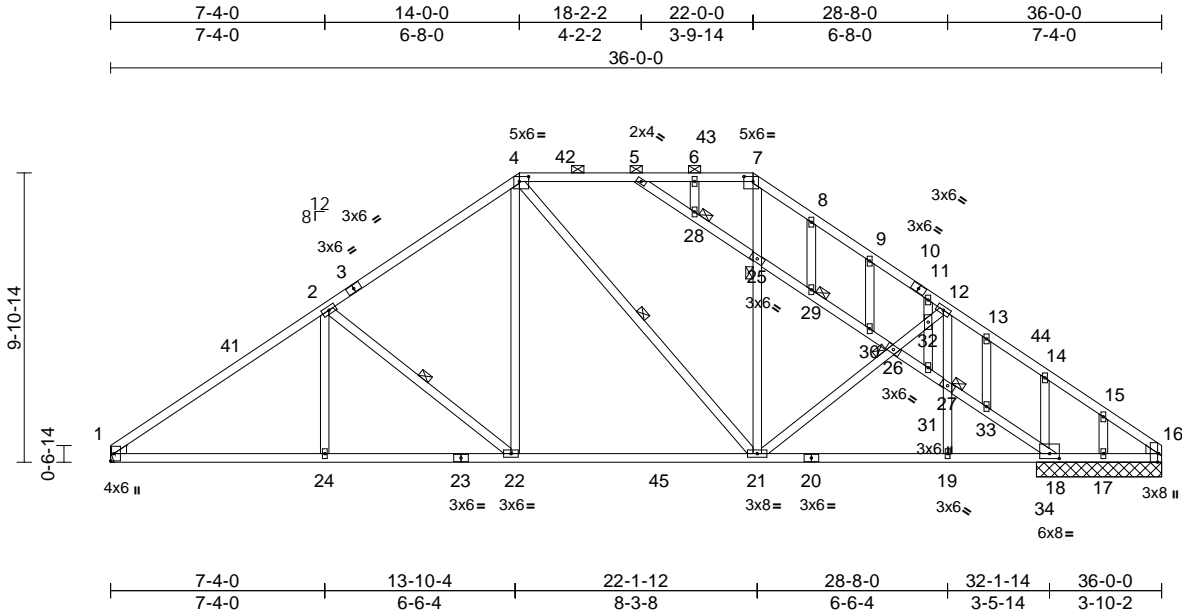
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489015
CL 3034 Base	A3SE	Piggyback Base	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:11
 ID:y2riikPav3d3RW1K72nLrZUVcr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:78.9

Plate Offsets (X, Y): [4:0-3-12,0-2-0], [7:0-3-12,0-2-0], [16:0-3-8,Edge], [18:0-4-0,0-2-0]

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	0.60	Vert(LL)	-0.21	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.36	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.09	16	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 248 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-22,22-4,21-4,21-7,12-21:2x4 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except 2-0-0 oc purlins (4-9-9 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-22, 4-21
 JOINTS 1 Brace at Jt(s): 25, 26, 27, 28, 29

REACTIONS (size)
 1= Mechanical, 16=4-3-8, 17=4-3-8, 18=4-3-8
 Max Horiz 1=251 (LC 9)
 Max Uplift 1=-168 (LC 12), 17=-200 (LC 22), 18=-158 (LC 13)
 Max Grav 1=1499 (LC 19), 16=979 (LC 19), 17=10 (LC 9), 18=848 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-2190/254, 2-4=-1725/253, 4-5=-1361/293, 5-6=-1041/199, 6-7=-1041/199, 7-8=-1261/182, 8-9=-1307/159, 9-11=-1295/113, 11-12=-1155/77, 12-13=-1319/59, 13-14=-1375/51, 14-15=-1309/4, 15-16=-1368/0
 BOT CHORD 1-24=-261/1878, 22-24=-261/1878, 21-22=-90/1363, 19-21=-112/1613, 18-19=-111/1647, 17-18=0/1111, 16-17=0/1111

WEBS
 2-24=0/255, 2-22=-642/279, 4-22=-76/720, 4-21=-205/233, 21-25=-20/553, 7-25=-35/582, 21-26=-406/208, 26-32=-214/112, 12-32=-93/85, 19-27=0/162, 12-27=0/184, 5-28=-490/213, 25-28=-495/221, 25-29=-470/224, 29-30=-476/219, 26-30=-558/243, 26-31=-662/256, 27-31=-715/282, 27-33=-729/260, 33-34=-731/257, 18-34=-869/290, 6-28=-20/23, 8-29=-16/15, 9-30=-171/106, 11-32=-328/95, 31-32=-112/45, 13-33=-9/0, 14-34=-273/121, 15-17=-52/106

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=40ft; Cat II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-6-6, Interior (1) 4-6-6 to 14-0-0, Exterior(2R) 14-0-0 to 20-4-15, Interior (1) 20-4-15 to 22-0-0, Exterior(2R) 22-0-0 to 28-8-0, Interior (1) 28-8-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 4) Provide adequate drainage to prevent water ponding.
 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 6) All plates are 2x4 (||) MT20 unless otherwise indicated.
 7) Gable studs spaced at 2-0-0 oc.
 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 10) Bearings are assumed to be: , Joint 16 SP No.2 .
 11) Refer to girder(s) for truss to truss connections.
 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 1, 158 lb uplift at joint 18 and 200 lb uplift at joint 17.
 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 3, 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/TPI 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)

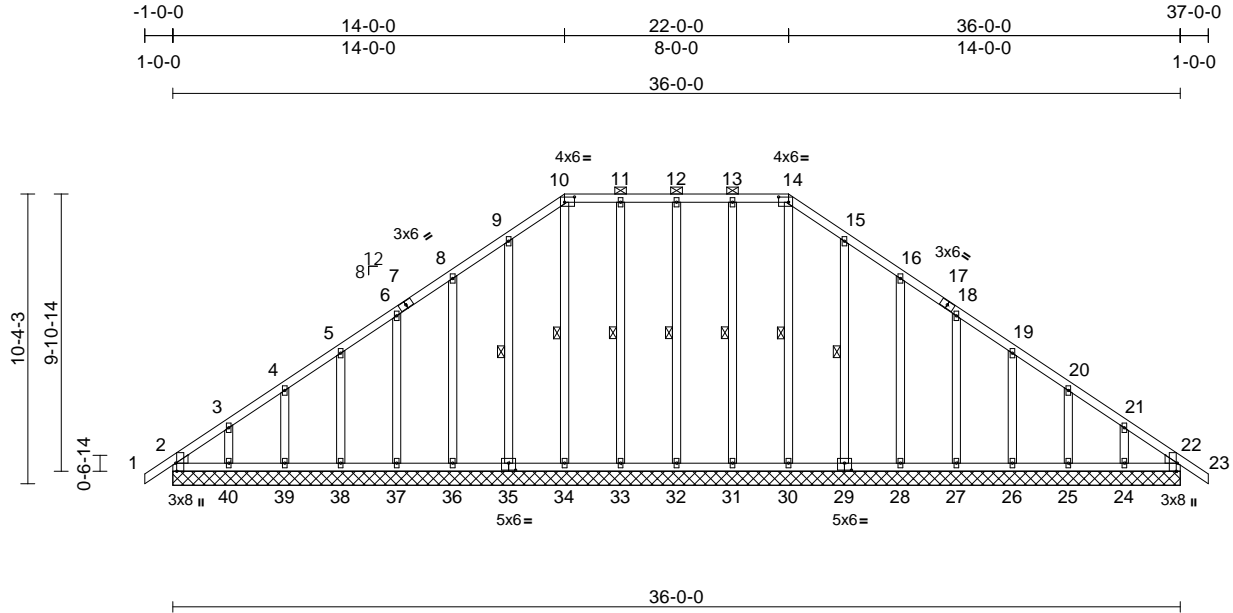
TRENCO ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489016
CL 3034 Base	AE	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:12
 ID:UOLBh0G7_DxWWWXMIz8WBozUVcK-RfC?PsB70Hq3NSgPqnL8w3uITxGKWrCdoi7J4zJc7f

Page: 1



Scale = 1:82.3
 Plate Offsets (X, Y): [2:0-3-8,Edge], [10:0-4-4,0-2-4], [14:0-4-4,0-2-4], [22:0-3-8,Edge], [29:0-3-0,0-3-0], [35:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS								
											Weight: 274 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.2 *Except*
 37-6,38-5,39-4,40-3,27-18,26-19,25-20,24-21
 :2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 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.): 10-14.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 14-30, 13-31, 12-32, 11-33, 10-34, 9-35, 15-29

REACTIONS (size)
 2=36-0-0, 22=36-0-0, 24=36-0-0, 25=36-0-0, 26=36-0-0, 27=36-0-0, 28=36-0-0, 29=36-0-0, 30=36-0-0, 31=36-0-0, 32=36-0-0, 33=36-0-0, 34=36-0-0, 35=36-0-0, 36=36-0-0, 37=36-0-0, 38=36-0-0, 39=36-0-0, 40=36-0-0
 Max Horiz 2=-269 (LC 10)
 Max Uplift 2=-90 (LC 8), 22=-17 (LC 9), 24=-103 (LC 13), 25=-66 (LC 13), 26=-75 (LC 13), 27=-72 (LC 13), 28=-76 (LC 13), 29=-74 (LC 13), 31=40 (LC 9), 32=-38 (LC 8), 33=38 (LC 9), 34=-11 (LC 9), 35=-76 (LC 12), 36=-75 (LC 12), 37=-72 (LC 12), 38=-76 (LC 12), 39=-63 (LC 12), 40=-115 (LC 12)

FORCES
 (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-245/217, 3-4=-191/186, 4-5=-166/163, 5-6=-147/155, 6-8=-128/186, 8-9=-132/225, 9-10=-170/270, 10-11=-147/246, 11-12=-147/246, 12-13=-147/246, 13-14=-147/246, 14-15=-170/270, 15-16=-132/207, 16-18=-95/142, 18-19=-59/79, 19-20=-70/54, 20-21=-101/74, 21-22=-167/101, 22-23=0/33
 BOT CHORD 2-40=-125/187, 39-40=-89/187, 38-39=-89/187, 37-38=-89/187, 36-37=-89/187, 34-36=-89/187, 33-34=-89/187, 32-33=-89/187, 31-32=-89/187, 30-31=-89/187, 28-30=-89/187, 27-28=-89/187, 26-27=-89/187, 25-26=-89/187, 24-25=-89/187, 22-24=-89/187
 WEBS 14-30=-120/7, 13-31=-128/64, 12-32=-118/62, 11-33=-128/62, 10-34=-138/43, 9-35=-142/100, 8-36=-131/99, 6-37=-133/97, 5-38=-133/98, 4-39=-132/95, 3-40=-137/108, 15-29=-140/98, 16-28=-132/100, 18-27=-133/96, 19-26=-133/98, 20-25=-133/96, 21-24=-131/103

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 3-6-6, Exterior(2N) 3-6-6 to 14-0-0, Corner(3R) 14-0-0 to 18-6-6, Exterior(2N) 18-6-6 to 22-0-0, Corner(3R) 22-0-0 to 26-6-6, Exterior (2N) 26-6-6 to 37-0-0 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 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.

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



April 3, 2025

Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489016
CL 3034 Base	AE	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:12
 ID:UOLBh0oG7_DxWWXMIZ8WB0zUVcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 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) All bearings are assumed to be SP No.2 .
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2, 17 lb uplift at joint 22, 40 lb uplift at joint 31, 38 lb uplift at joint 32, 38 lb uplift at joint 33, 11 lb uplift at joint 34, 76 lb uplift at joint 35, 75 lb uplift at joint 36, 72 lb uplift at joint 37, 76 lb uplift at joint 38, 63 lb uplift at joint 39, 115 lb uplift at joint 40, 74 lb uplift at joint 29, 76 lb uplift at joint 28, 72 lb uplift at joint 27, 75 lb uplift at joint 26, 66 lb uplift at joint 25, 103 lb uplift at joint 24, 90 lb uplift at joint 2 and 17 lb uplift at joint 22.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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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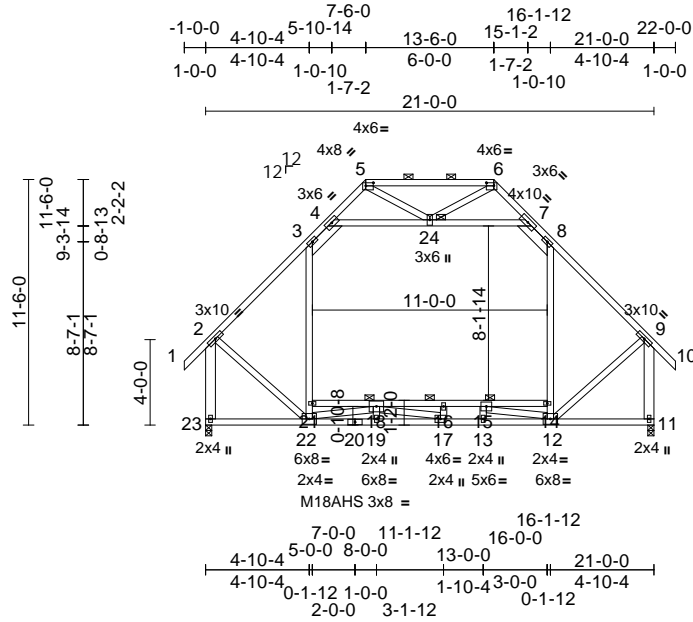
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489017
CL 3034 Base	AT1	Attic	3	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:12
ID:dXqXqhHYkH1CY5okSYc7YlZUVv4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwKCoI7J4zJC?f

Page: 1



Scale = 1:107.9

Plate Offsets (X, Y): [5:0-4-4,0-1-12], [6:0-4-4,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.31	22	>797	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.35	19-22	>713	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.15	14-21	>923	360	Weight: 201 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 3-4,7-8:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 3-22,8-12,4-7:2x4 SP No.1, 23-2,11-9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 11=0-3-8, 23=0-3-8
Max Horiz 23=382 (LC 10)
Max Grav 11=1421 (LC 2), 23=1421 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-1026/44, 3-4=-699/146, 4-5=-397/170, 5-6=-275/106, 6-7=-396/170, 7-8=-702/146, 8-9=-1023/45, 9-10=0/52, 2-23=-1396/0, 9-11=-1392/0
BOT CHORD 22-23=-383/385, 19-22=0/2461, 17-19=0/2461, 13-17=0/2525, 12-13=0/2525, 11-12=-68/94, 18-21=-247/310, 16-18=-1943/0, 15-16=-1943/0, 14-15=-258/319
WEBS 21-22=-132/193, 3-21=-79/401, 12-14=-134/199, 8-14=-83/391, 4-24=-655/130, 7-24=-662/128, 2-22=-16/918, 9-12=-16/920, 18-19=-82/166, 18-22=-1945/0, 16-17=-125/64, 17-18=-420/536, 13-15=-4/131, 12-15=-2103/0, 5-24=-61/155, 6-24=-59/158

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 7-6-0, Exterior(2E) 7-6-0 to 13-6-0, Exterior(2R) 13-6-0 to 19-10-15, Interior (1) 19-10-15 to 22-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-24, 7-24; Wall dead load (5.0psf) on member(s).3-21, 8-14
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-21, 16-18, 15-16, 14-15
- 10) All bearings are assumed to be SP No.2 .
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



April 3, 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/TP1 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)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489018
CL 3034 Base	AT1E	Attic Supported Gable	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:13
 ID:QFSyzQVLM6W3QV3ULATe5IzUVxN-RC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 2

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 32, 131 lb uplift at joint 18, 176 lb uplift at joint 30, 189 lb uplift at joint 20, 109 lb uplift at joint 31 and 109 lb uplift at joint 19.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

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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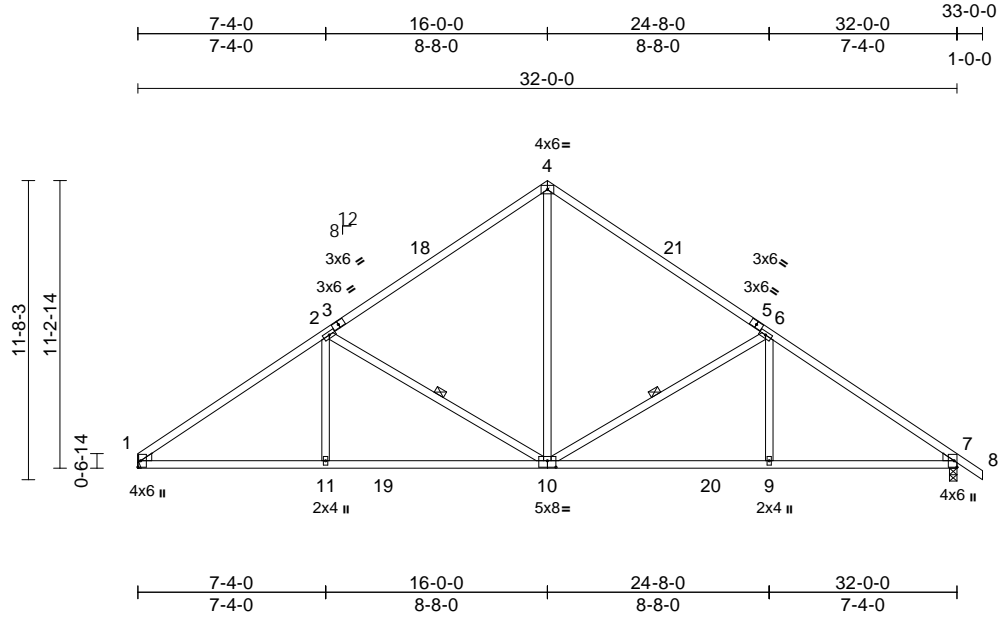
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489019
CL 3034 Base	B1	Common	5	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:13
 ID:1u6XZSKxb620XUBAeDnlc_zUW0m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:90

Plate Offsets (X, Y): [10:0-4-0-0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.16	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.32	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 168 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.1 *Except* 3-1,5-8:2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* 6-9,11-2:2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

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

WEBS 1 Row at midpt 6-10, 2-10
REACTIONS (size) 1= Mechanical, 7=0-3-8
 Max Horiz 1=-298 (LC 8)
 Max Uplift 1=-181 (LC 12), 7=-205 (LC 13)
 Max Grav 1=1457 (LC 19), 7=1515 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-2107/281, 2-4=-1454/300,
 4-6=-1454/299, 6-7=-2103/276, 7-8=0/33
 BOT CHORD 1-11=-301/1886, 9-11=-301/1886,
 7-9=-112/1653
 WEBS 4-10=-102/1021, 6-10=-807/323, 6-9=0/351,
 2-10=-811/325, 2-11=0/352

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-6-6, Interior (1) 4-6-6 to 16-0-0, Exterior(2R) 16-0-0 to 20-6-6, Interior (1) 20-6-6 to 33-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 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.
- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 7 and 181 lb uplift at joint 1.

LOAD CASE(S) Standard



April 3, 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/TP1 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)



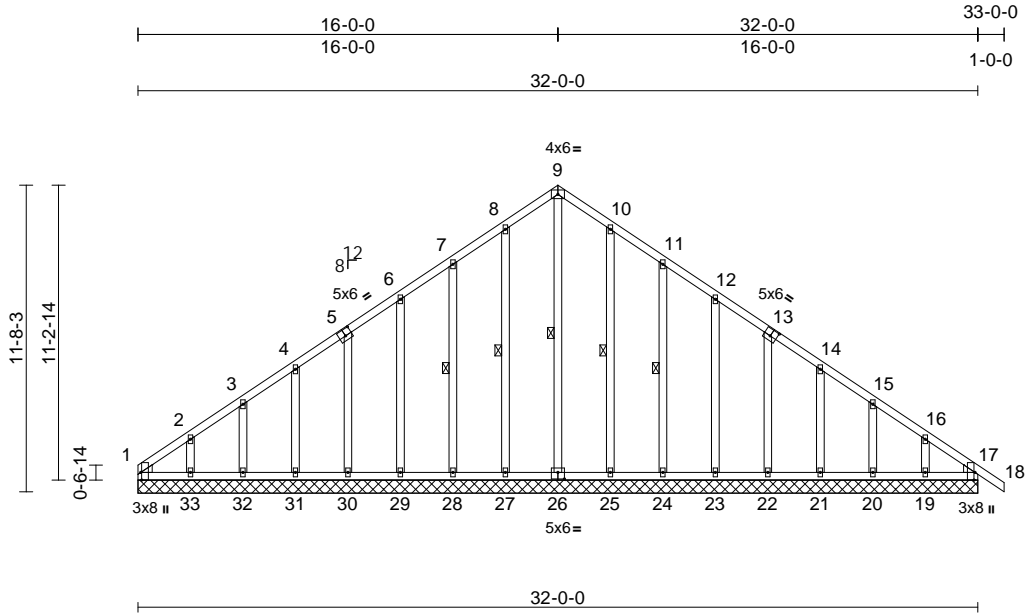
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489020
CL 3034 Base	B1E	Common Supported Gable	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:13
 ID:bhGrXZ24KrpvRlf?_f07srzUW2P-RfC?Psb70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:87.8

Plate Offsets (X, Y): [1:0-3-8,Edge], [5:0-3-0,0-3-0], [13:0-3-0,0-3-0], [17:0-3-8,Edge], [26:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS								Weight: 236 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except*
 26-9,27-8,28-7,29-6,25-10,24-11,23-12:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 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.
 WEBS 1 Row at midpt 9-26, 8-27, 7-28, 10-25, 11-24

REACTIONS (size)
 1=32-0-0, 17=32-0-0, 19=32-0-0, 20=32-0-0, 21=32-0-0, 22=32-0-0, 23=32-0-0, 24=32-0-0, 25=32-0-0, 26=32-0-0, 27=32-0-0, 28=32-0-0, 29=32-0-0, 30=32-0-0, 31=32-0-0, 32=32-0-0, 33=32-0-0
 Max Horiz 1=298 (LC 10)
 Max Uplift 1=104 (LC 10), 17=21 (LC 9), 19=109 (LC 13), 20=66 (LC 13), 21=68 (LC 13), 22=72 (LC 13), 23=78 (LC 13), 24=78 (LC 13), 25=63 (LC 13), 27=67 (LC 12), 28=76 (LC 12), 29=78 (LC 12), 30=72 (LC 12), 31=69 (LC 12), 32=61 (LC 12), 33=131 (LC 12)
 Max Grav 1=185 (LC 12), 17=163 (LC 22), 19=184 (LC 20), 20=172 (LC 20), 21=164 (LC 20), 22=171 (LC 20), 23=181 (LC 20), 24=171 (LC 20), 25=178 (LC 20), 26=263 (LC 13), 27=182 (LC 19), 28=169 (LC 19), 29=181 (LC 19), 30=170 (LC 19), 31=166 (LC 19), 32=164 (LC 19), 33=219 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-290/232, 2-3=-223/198, 3-4=-188/175, 4-6=-169/165, 6-7=-131/204, 7-8=-146/244, 8-9=-180/287, 9-10=-180/287, 10-11=-146/231, 11-12=-108/164, 12-14=-77/98, 14-15=-94/68, 15-16=-146/92, 16-17=-214/120, 17-18=0/33
 BOT CHORD 1-33=-147/226, 32-33=-106/226, 31-32=-106/226, 30-31=-106/226, 29-30=-107/228, 28-29=-107/228, 27-28=-107/228, 25-27=-107/228, 24-25=-107/228, 23-24=-107/228, 22-23=-107/228, 21-22=-104/225, 20-21=-104/225, 19-20=-104/225, 17-19=-104/225
 WEBS 9-26=-245/98, 8-27=-142/91, 7-28=-129/100, 6-29=-141/102, 5-30=-131/97, 4-31=-124/91, 3-32=-132/95, 2-33=-146/115, 10-25=-138/87, 11-24=-131/102, 12-23=-141/102, 13-22=-131/97, 14-21=-123/90, 15-20=-135/97, 16-19=-131/105

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 4-6-6, Exterior(2N) 4-6-6 to 16-0-0, Corner(3R) 16-0-0 to 20-6-6, Exterior(2N) 20-6-6 to 33-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 17, 104 lb uplift at joint 1, 67 lb uplift at joint 27, 76 lb uplift at joint 28, 78 lb uplift at joint 29, 72 lb uplift at joint 30, 69 lb uplift at joint 31, 61 lb uplift at joint 32, 131 lb uplift at joint 33, 63 lb uplift at joint 25, 78 lb uplift at joint 24, 78 lb uplift at joint 23, 72 lb uplift at joint 22, 68 lb uplift at joint 21, 66 lb uplift at joint 20, 109 lb uplift at joint 19, 21 lb uplift at joint 17 and 104 lb uplift at joint 1.



April 3, 2025

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489020
CL 3034 Base	B1E	Common Supported Gable	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:13
 ID:bhGrXZ24KrpvRLF?_f07srzUW2P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

LOAD CASE(S) Standard

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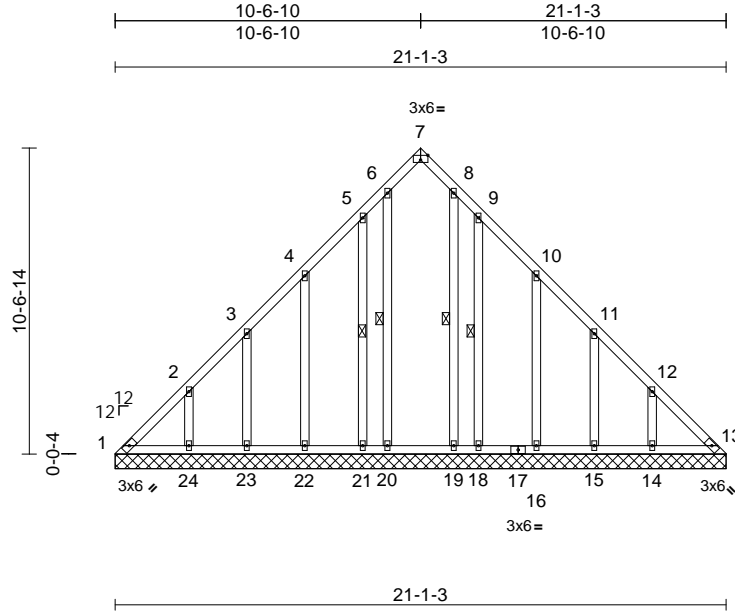
818 Soundside Road
 Edenton, NC 27932

Job CL 3034 Base	Truss CV1	Truss Type Valley	Qty 1	Ply 1	CL 3034 Base Job Reference (optional)	172489021
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:14
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Page: 1



Scale = 1:79.6

Plate Offsets (X, Y): [7:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 161 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except*
23-3,24-2,15-11,14-12:2x4 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.
WEBS 1 Row at midpt 6-20, 8-19, 5-21, 9-18

REACTIONS (size)
1=21-1-3, 13=21-1-3, 14=21-1-3,
15=21-1-3, 16=21-1-3, 18=21-1-3,
19=21-1-3, 20=21-1-3, 21=21-1-3,
22=21-1-3, 23=21-1-3, 24=21-1-3
Max Horiz 1=278 (LC 9)
Max Uplift 1=153 (LC 10), 13=-1 (LC 13),
15=262 (LC 13), 16=99 (LC 13),
18=227 (LC 13), 19=-4 (LC 11),
20=51 (LC 11), 21=-164 (LC 12),
22=-132 (LC 12), 23=-117 (LC 12),
24=-121 (LC 12)
Max Grav 1=204 (LC 9), 13=0 (LC 11),
14=290 (LC 19), 15=196 (LC 20),
16=230 (LC 20), 18=139 (LC 20),
19=384 (LC 22), 20=404 (LC 22),
21=92 (LC 25), 22=224 (LC 19),
23=201 (LC 19), 24=261 (LC 19)

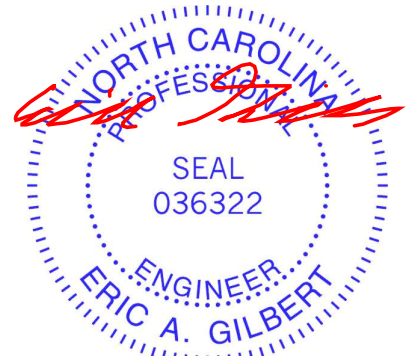
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-304/333, 2-3=-242/286, 3-4=-191/250,
4-5=-158/305, 5-6=-264/437, 6-7=-151/202,
7-8=-151/189, 8-9=-264/401, 9-10=-152/229,
10-11=-54/136, 11-12=-63/106,
12-13=-203/189

BOT CHORD 1-24=-144/152, 23-24=-144/152,
22-23=-144/152, 21-22=-144/152,
20-21=-144/152, 19-20=-144/152,
18-19=-144/152, 16-18=-144/152,
15-16=-144/152, 14-15=-144/152,
13-14=-144/152
WEBS 6-20=-346/143, 8-19=-314/143,
5-21=-197/210, 4-22=-186/157,
3-23=-163/141, 2-24=-184/142,
9-18=-198/232, 10-16=-179/149,
11-15=-193/197, 12-14=-165/67

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-4 to 4-6-14, Exterior(2N) 4-6-14 to 10-6-14, Corner(3R) 10-6-14 to 15-1-4, Exterior(2N) 15-1-4 to 20-9-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
5) All plates are 2x4 (||) MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.

10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 1, 1 lb uplift at joint 13, 51 lb uplift at joint 20, 4 lb uplift at joint 19, 164 lb uplift at joint 21, 132 lb uplift at joint 22, 117 lb uplift at joint 23, 121 lb uplift at joint 24, 227 lb uplift at joint 18, 99 lb uplift at joint 16, 262 lb uplift at joint 15 and 1 lb uplift at joint 13.

LOAD CASE(S) Standard



April 3, 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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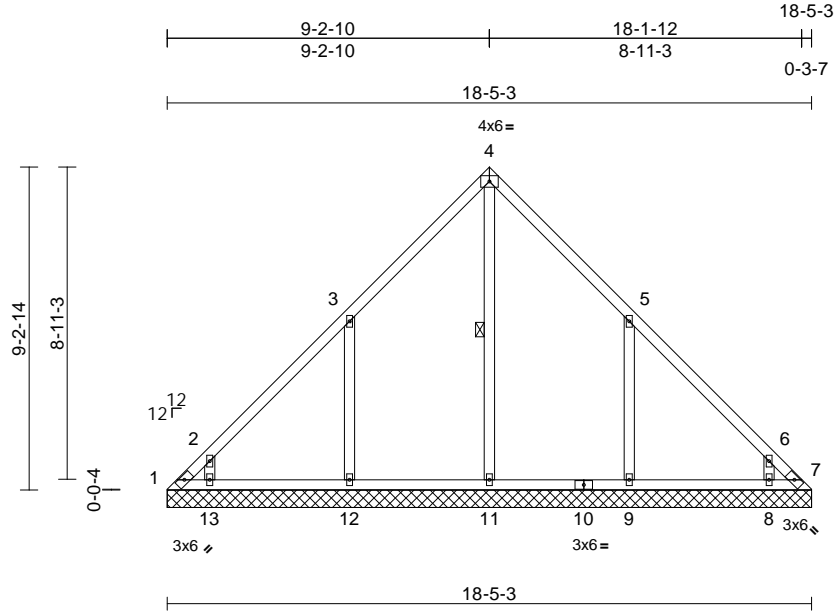
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489022
CL 3034 Base	CV2	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:14
ID:xlQbkC4uAGkGq3YdlyMc_zUW3f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.9

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	0.23	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS						Weight: 94 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 11-4:2x4 SP No.2

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.
WEBS 1 Row at midpt 4-11

REACTIONS

(size) 1=18-5-3, 7=18-5-3, 8=18-5-3, 9=18-5-3, 11=18-5-3, 12=18-5-3, 13=18-5-3
Max Horiz 1=242 (LC 9)
Max Uplift 1=170 (LC 10), 7=-1 (LC 13), 8=-35 (LC 13), 9=-308 (LC 13), 11=-51 (LC 11), 12=-270 (LC 12), 13=-155 (LC 12)
Max Grav 1=194 (LC 9), 7=0 (LC 11), 8=279 (LC 20), 9=515 (LC 20), 11=485 (LC 22), 12=496 (LC 19), 13=338 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-326/279, 2-3=-298/237, 3-4=-323/344, 4-5=-325/318, 5-6=-149/67, 6-7=-166/99
BOT CHORD 1-13=-71/112, 12-13=-30/95, 11-12=-30/95, 9-11=-30/95, 8-9=-30/95, 7-8=-30/95
WEBS 4-11=-363/223, 3-12=-375/316, 2-13=-331/275, 5-9=-387/330, 6-8=-292/235

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-4 to 4-6-10, Exterior(2N) 4-6-10 to 9-2-14, Corner(3R) 9-2-14 to 13-9-4, Exterior(2N) 13-9-4 to 18-5-7 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 1, 1 lb uplift at joint 7, 51 lb uplift at joint 11, 270 lb uplift at joint 12, 155 lb uplift at joint 13, 308 lb uplift at joint 9, 35 lb uplift at joint 8 and 1 lb uplift at joint 7.

LOAD CASE(S) Standard



April 3, 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)



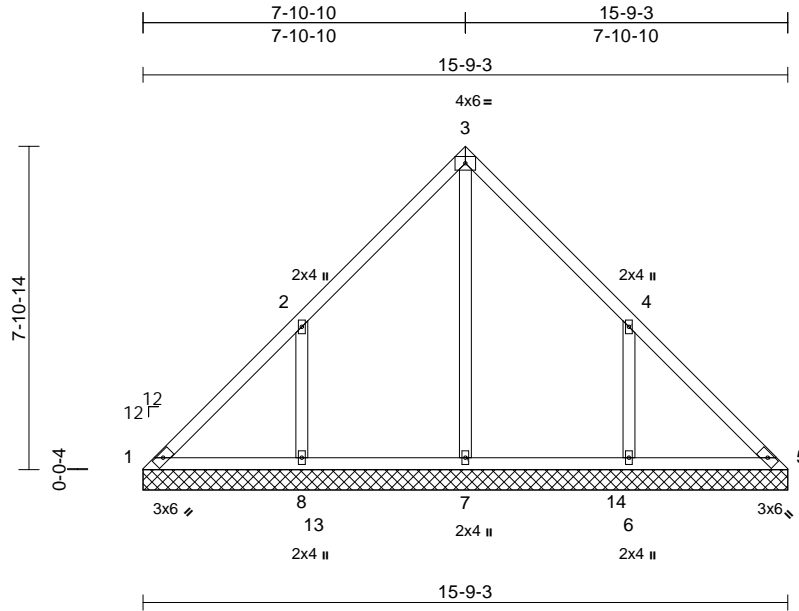
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489023
CL 3034 Base	CV3	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:14
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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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%

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

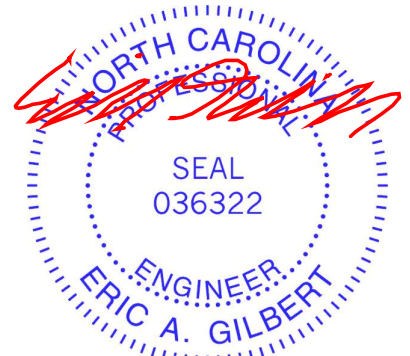
BRACING
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=15-9-3, 5=15-9-3, 6=15-9-3, 7=15-9-3, 8=15-9-3
 Max Horiz 1=207 (LC 9)
 Max Uplift 1=-49 (LC 8), 6=-263 (LC 13), 8=-267 (LC 12)
 Max Grav 1=157 (LC 20), 5=126 (LC 22), 6=512 (LC 20), 7=453 (LC 19), 8=518 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-203/226, 2-3=-95/167, 3-4=-95/137, 4-5=-160/179
 BOT CHORD 1-8=-156/180, 7-8=-156/180, 6-7=-156/180, 5-6=-156/180
 WEBS 3-7=-258/0, 2-8=-373/299, 4-6=-373/297

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-4 to 4-6-10, Exterior(2N) 4-6-10 to 7-10-14, Corner(3R) 7-10-14 to 12-5-4, Exterior(2N) 12-5-4 to 15-9-7 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 267 lb uplift at joint 8 and 263 lb uplift at joint 6.
- LOAD CASE(S)** Standard



April 3, 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)



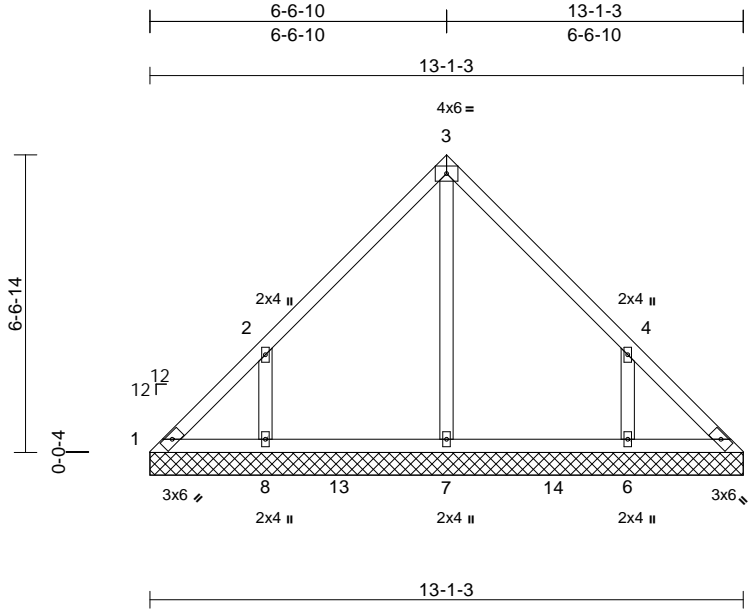
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489024
CL 3034 Base	CV4	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:50.9

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 61 lb	FT = 20%

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

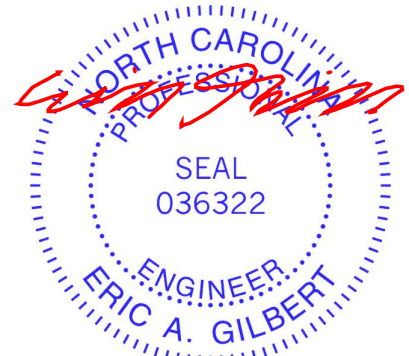
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=13-1-3, 5=13-1-3, 6=13-1-3, 7=13-1-3, 8=13-1-3
 Max Horiz 1=171 (LC 9)
 Max Uplift 1=-52 (LC 8), 5=-12 (LC 9), 6=-220 (LC 13), 8=-225 (LC 12)
 Max Grav 1=141 (LC 20), 5=110 (LC 19), 6=420 (LC 20), 7=360 (LC 19), 8=426 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-170/151, 2-3=-157/145, 3-4=-149/141, 4-5=-138/102
 BOT CHORD 1-8=-73/128, 7-8=-73/128, 6-7=-73/128, 5-6=-73/128
 WEBS 3-7=-162/0, 2-8=-341/281, 4-6=-341/281

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-4 to 4-6-10, Exterior(2N) 4-6-10 to 6-6-14, Corner(3R) 6-6-14 to 11-1-4, Exterior(2N) 11-1-4 to 13-1-7 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 4-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) All bearings are assumed to be SP No.2 .
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1, 12 lb uplift at joint 5, 225 lb uplift at joint 8 and 220 lb uplift at joint 6.
- LOAD CASE(S)** Standard



April 3, 2025

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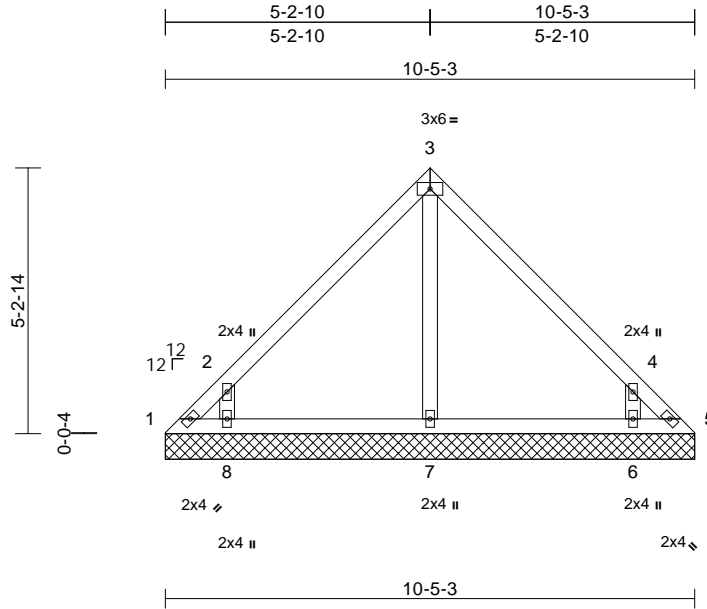
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489025
CL 3034 Base	CV5	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:45.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 45 lb	FT = 20%

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

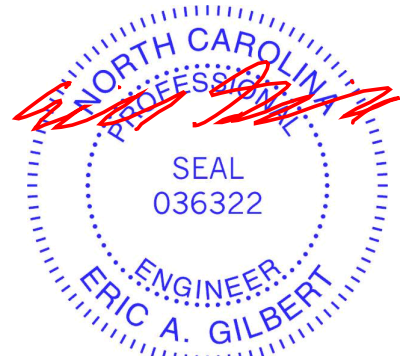
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=10-5-3, 5=10-5-3, 6=10-5-3, 7=10-5-3, 8=10-5-3
 Max Horiz 1=-135 (LC 8)
 Max Uplift 1=-99 (LC 10), 5=-64 (LC 11), 6=-210 (LC 13), 8=-218 (LC 12)
 Max Grav 1=128 (LC 12), 5=104 (LC 13), 6=351 (LC 20), 7=208 (LC 1), 8=360 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-235/162, 2-3=-174/122, 3-4=-162/122, 4-5=-210/152
 BOT CHORD 1-8=-92/104, 7-8=-40/92, 6-7=-40/92, 5-6=-92/117
 WEBS 3-7=-121/1, 2-8=-428/385, 4-6=-428/385

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-4 to 4-6-10, Exterior(2N) 4-6-10 to 5-2-14, Corner(3R) 5-2-14 to 9-9-4, Exterior(2N) 9-9-4 to 10-5-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1, 64 lb uplift at joint 5, 218 lb uplift at joint 8 and 210 lb uplift at joint 6.
- LOAD CASE(S)** Standard



April 3, 2025

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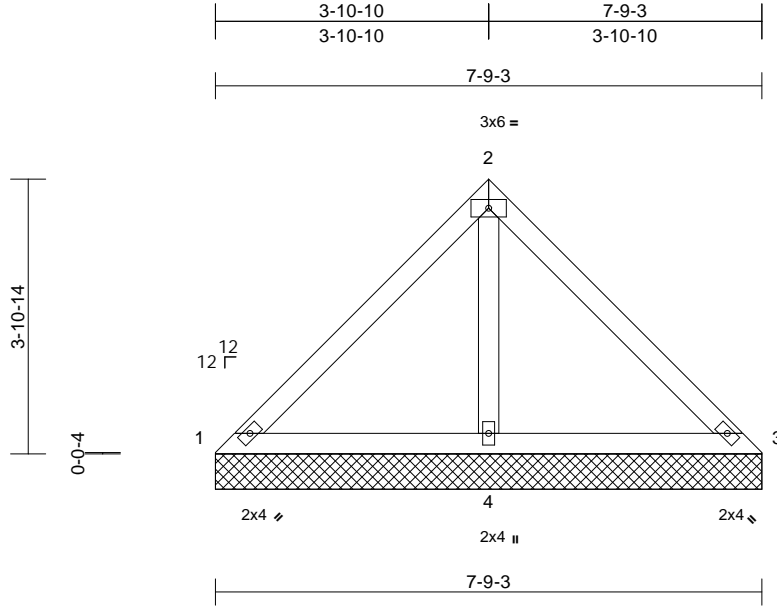
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489026
CL 3034 Base	CV6	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:15
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Page: 1



Scale = 1:32.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 7-9-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=7-9-3, 3=7-9-3, 4=7-9-3
 Max Horiz 1=-99 (LC 10)
 Max Uplift 1=-11 (LC 26), 3=-11 (LC 25), 4=-154 (LC 12)
 Max Grav 1=67 (LC 25), 3=67 (LC 26), 4=546 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

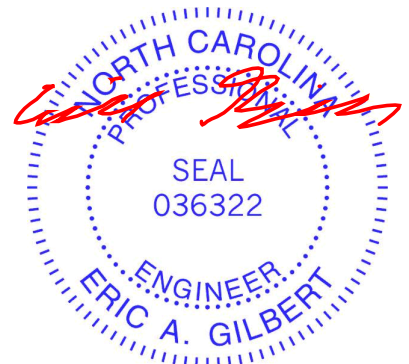
TOP CHORD 1-2=-118/211, 2-3=-118/205
 BOT CHORD 1-4=-220/188, 3-4=-220/188
 WEBS 2-4=-433/247

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 11 lb uplift at joint 3 and 154 lb uplift at joint 4.

LOAD CASE(S) Standard



April 3, 2025

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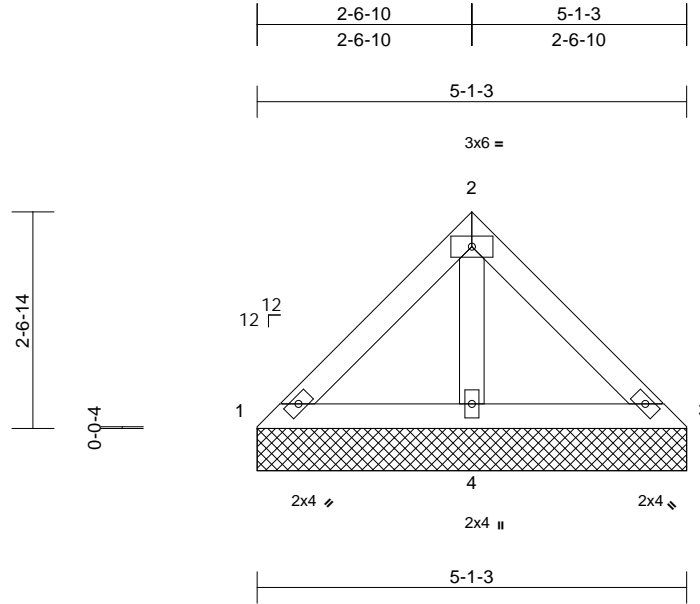
818 Soundside Road
 Edenton, NC 27932

Job CL 3034 Base	Truss CV7	Truss Type Valley	Qty 1	Ply 1	CL 3034 Base Job Reference (optional)	172489027
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:27.3

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=5-1-3, 3=5-1-3, 4=5-1-3
Max Horiz 1=-63 (LC 8)
Max Uplift 3=-1 (LC 13), 4=-69 (LC 12)
Max Grav 1=64 (LC 25), 3=64 (LC 26), 4=304 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-53/98, 2-3=-53/88
BOT CHORD 1-4=-105/79, 3-4=-105/79
WEBS 2-4=-195/76

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 3 and 69 lb uplift at joint 4.

LOAD CASE(S) Standard



April 3, 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)



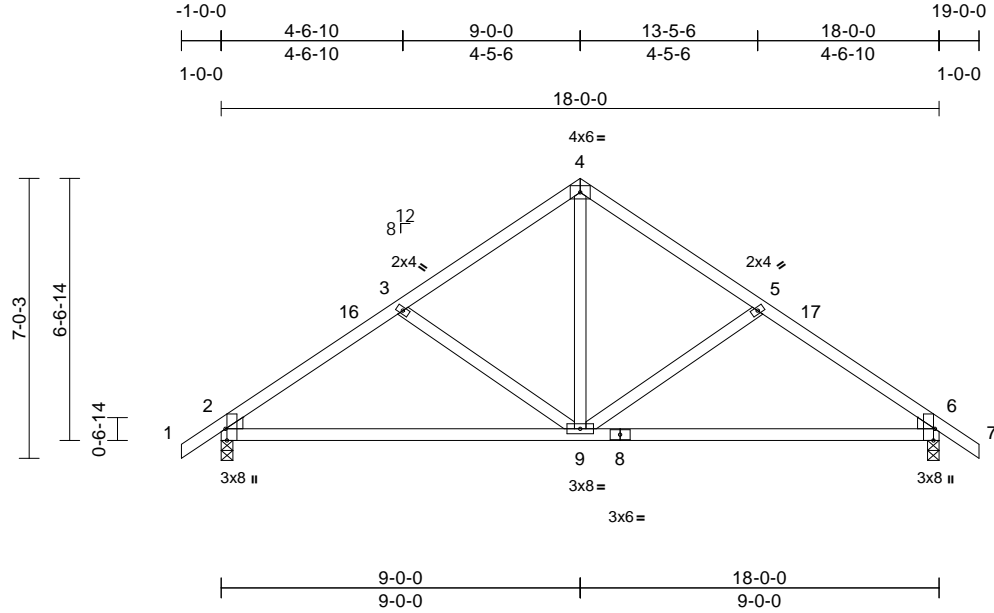
818 Soundside Road
Edenton, NC 27932

Job CL 3034 Base	Truss D1	Truss Type Common	Qty 6	Ply 1	CL 3034 Base Job Reference (optional)	172489028
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:16
ID:2R4NdaDK78fTB?2n4kgThozUW4n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.09	9-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.19	9-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 89 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.3
- WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-10-8 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=179 (LC 11)
- Max Uplift 2=-126 (LC 12), 6=-126 (LC 13)
- Max Grav 2=780 (LC 1), 6=780 (LC 1)

FORCES

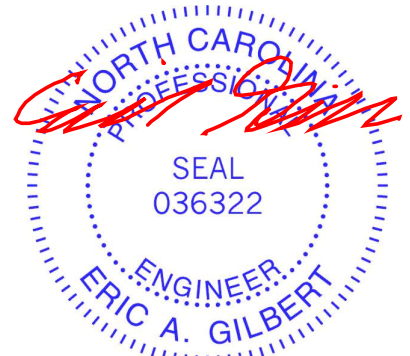
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/33, 2-3=-958/183, 3-4=-736/166, 4-5=-736/166, 5-6=-958/183, 6-7=0/33
- BOT CHORD 2-9=-159/794, 6-9=-69/754
- WEBS 4-9=-54/512, 5-9=-295/198, 3-9=-295/197

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 9-0-0, Exterior(2R) 9-0-0 to 13-6-15, Interior (1) 13-6-15 to 19-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2 and 126 lb uplift at joint 6.

LOAD CASE(S) Standard



April 3, 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/TP1 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)



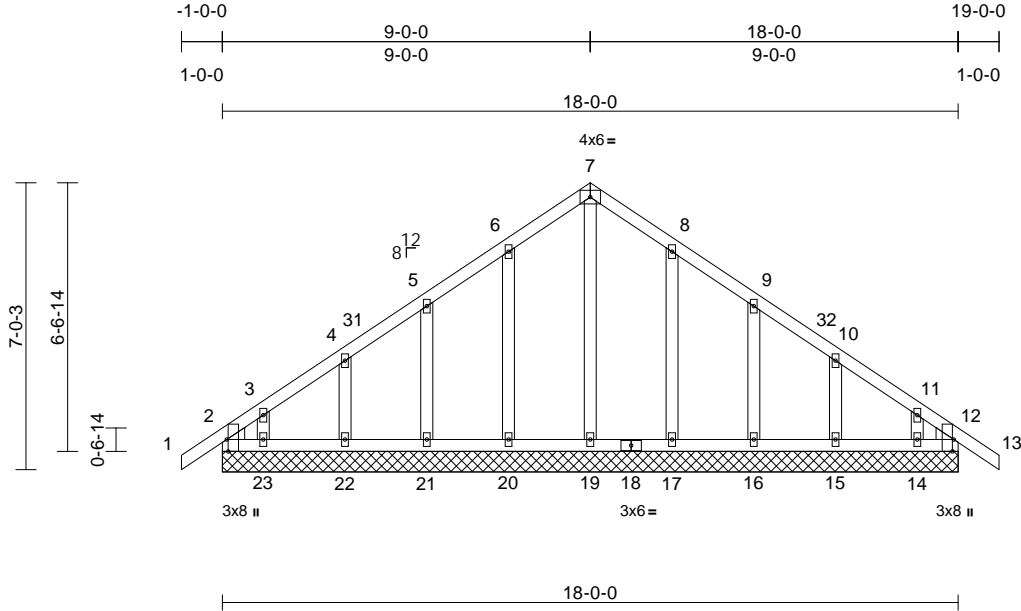
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489029
CL 3034 Base	D1E	Common Supported Gable	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:16
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Page: 1



Scale = 1:56.4
 Plate Offsets (X, Y): [2:0-3-8,Edge], [12:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 105 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

WEBS
 7-19=-140/22, 6-20=-142/109,
 5-21=-130/112, 4-22=-138/132,
 3-23=-104/110, 8-17=-140/109,
 9-16=-130/112, 10-15=-138/132,
 11-14=-99/109

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2, 22 lb uplift at joint 12, 75 lb uplift at joint 20, 74 lb uplift at joint 21, 74 lb uplift at joint 22, 88 lb uplift at joint 23, 74 lb uplift at joint 17, 74 lb uplift at joint 16, 74 lb uplift at joint 15, 78 lb uplift at joint 14, 67 lb uplift at joint 2 and 22 lb uplift at joint 12.

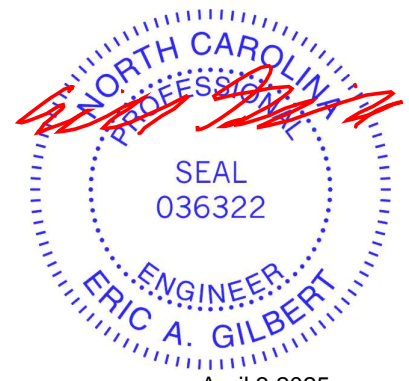
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 3-6-6, Exterior(2N) 3-6-6 to 9-0-0, Corner(3R) 9-0-0 to 13-6-6, Exterior(2N) 13-6-6 to 19-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard

REACTIONS (size)
 2=18-0-0, 12=18-0-0, 14=18-0-0,
 15=18-0-0, 16=18-0-0, 17=18-0-0,
 19=18-0-0, 20=18-0-0, 21=18-0-0,
 22=18-0-0, 23=18-0-0
 Max Horiz 2=179 (LC 11)
 Max Uplift 2=-67 (LC 8), 12=-22 (LC 9),
 14=-78 (LC 13), 15=-74 (LC 13),
 16=-74 (LC 13), 17=-74 (LC 13),
 20=-75 (LC 12), 21=-74 (LC 12),
 22=-74 (LC 12), 23=-88 (LC 12)
 Max Grav 2=153 (LC 20), 12=127 (LC 1),
 14=123 (LC 20), 15=180 (LC 20),
 16=170 (LC 20), 17=181 (LC 20),
 19=168 (LC 22), 20=182 (LC 19),
 21=169 (LC 19), 22=179 (LC 19),
 23=135 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-170/134, 3-4=-124/116,
 4-5=-107/93, 5-6=-92/122, 6-7=-105/196,
 7-8=-105/196, 8-9=-67/122, 9-10=-60/47,
 10-11=-79/53, 11-12=-125/68, 12-13=0/33
 BOT CHORD 2-23=-81/160, 22-23=-60/160,
 21-22=-60/160, 20-21=-60/160,
 19-20=-60/160, 17-19=-60/160,
 16-17=-60/160, 15-16=-60/160,
 14-15=-60/160, 12-14=-60/160

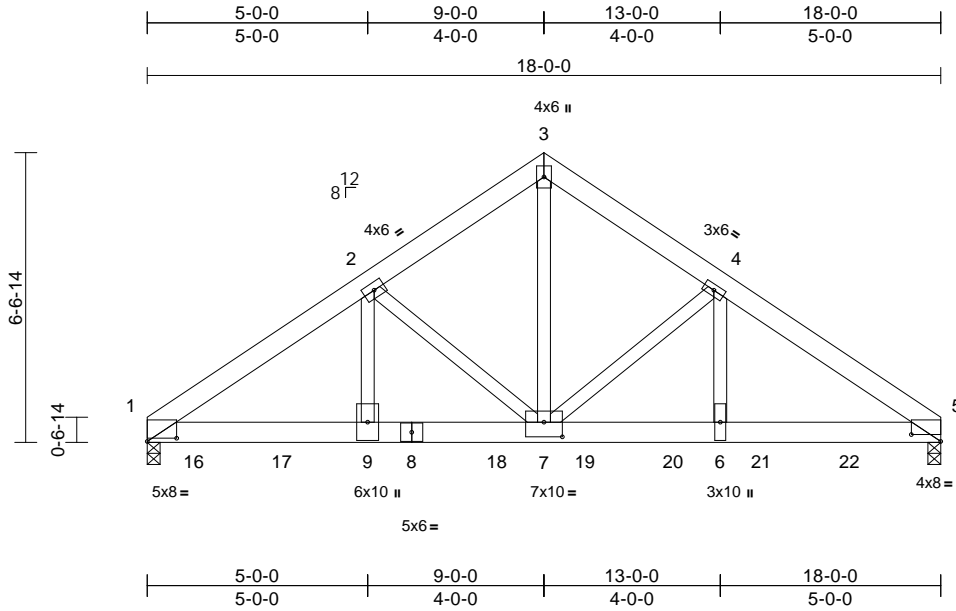


Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489030
CL 3034 Base	D1G	Common Girder	1	3	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:52.3

Plate Offsets (X, Y): [1:0-8-0,0-0-14], [5:0-8-0,0-1-14], [7:0-5-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.07	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.13	7-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS								
											Weight: 376 lb	FT = 20%

LUMBER

- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x6 SP DSS *Except* 8-5:2x6 SP No.2
- WEBS 2x4 SP No.3 *Except* 7-3:2x4 SP No.2

BRACING

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

REACTIONS

- (size) 1=0-3-8, 5=0-3-8
- Max Horiz 1=-161 (LC 6)
- Max Uplift 5=-466 (LC 9)
- Max Grav 1=8523 (LC 15), 5=6828 (LC 16)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-11361/0, 2-3=-7359/246, 3-4=-7359/262, 4-5=-10105/574
- BOT CHORD 1-9=0/9575, 7-9=0/9575, 6-7=-417/8409, 5-6=-417/8409
- WEBS 3-7=-168/7800, 4-6=-376/3262, 2-9=0/4815, 2-7=-4490/0, 4-7=-3102/551

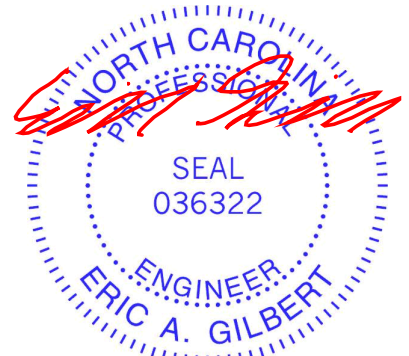
NOTES

- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-9 2x4 - 2 rows staggered at 0-4-0 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- Bearings are assumed to be: Joint 1 SP DSS, Joint 5 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 466 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1798 lb down at 1-0-12, 1798 lb down at 3-0-12, 1798 lb down at 5-0-12, 1479 lb down and 180 lb up at 5-11-4, 1437 lb down and 193 lb up at 7-11-4, 1437 lb down and 193 lb up at 9-11-4, 1437 lb down and 193 lb up at 11-11-4, and 1437 lb down and 193 lb up at 13-11-4, and 1437 lb down and 193 lb up at 15-11-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-3=-60, 3-5=-60, 10-13=-20
 Concentrated Loads (lb)
 Vert: 8=-1344 (F), 9=-1729 (F), 16=-1729 (F), 17=-1729 (F), 18=-1259 (F), 19=-1259 (F), 20=-1259 (F), 21=-1259 (F), 22=-1259 (F)



April 3, 2025

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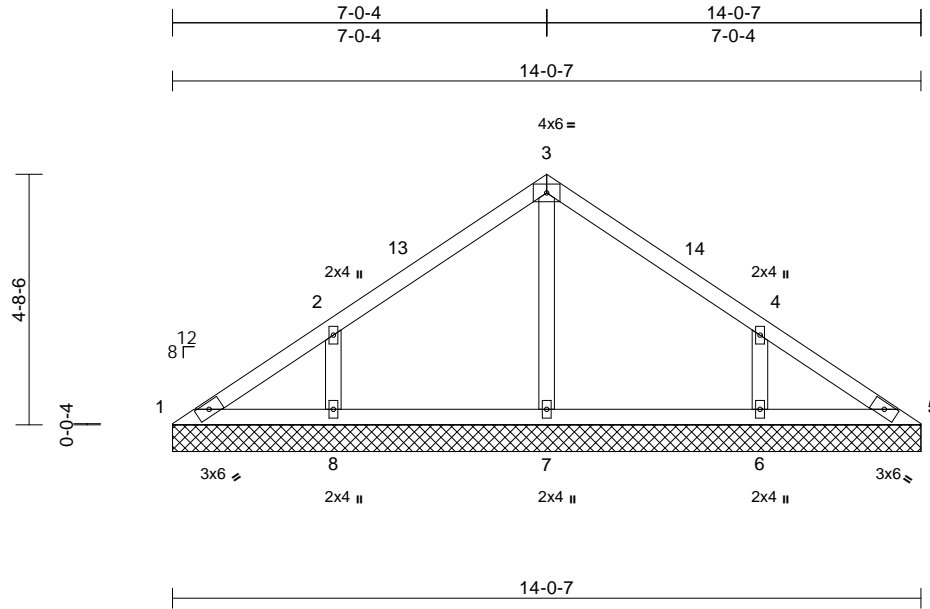
818 Soundside Road
 Edenton, NC 27932

Job CL 3034 Base	Truss DV1	Truss Type Valley	Qty 1	Ply 1	CL 3034 Base Job Reference (optional)	172489031
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:17
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Page: 1



Scale = 1:43.2

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 55 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=14-0-7, 5=14-0-7, 6=14-0-7, 7=14-0-7, 8=14-0-7
Max Horiz 1=-121 (LC 8)
Max Uplift 1=-17 (LC 13), 6=-148 (LC 13), 8=-150 (LC 12)
Max Grav 1=100 (LC 20), 5=86 (LC 1), 6=352 (LC 20), 7=299 (LC 1), 8=355 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

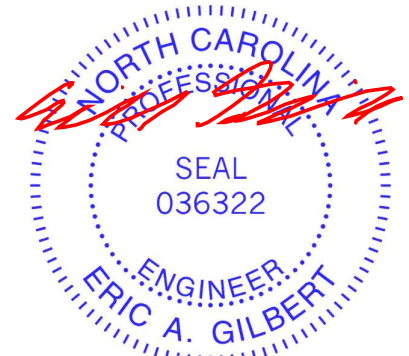
TOP CHORD 1-2=-136/118, 2-3=-93/134, 3-4=-74/133, 4-5=-103/82
BOT CHORD 1-8=-48/117, 7-8=-48/97, 6-7=-48/97, 5-6=-48/97
WEBS 3-7=-220/31, 2-8=-270/281, 4-6=-269/280

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 4-6-12, Exterior(2N) 4-6-12 to 7-0-10, Corner(3R) 7-0-10 to 11-7-0, Exterior(2N) 11-7-0 to 14-0-13 zone; C-C for members and forces & MWFRS for reactions shown; 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.

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 150 lb uplift at joint 8 and 148 lb uplift at joint 6.

LOAD CASE(S) Standard



April 3, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

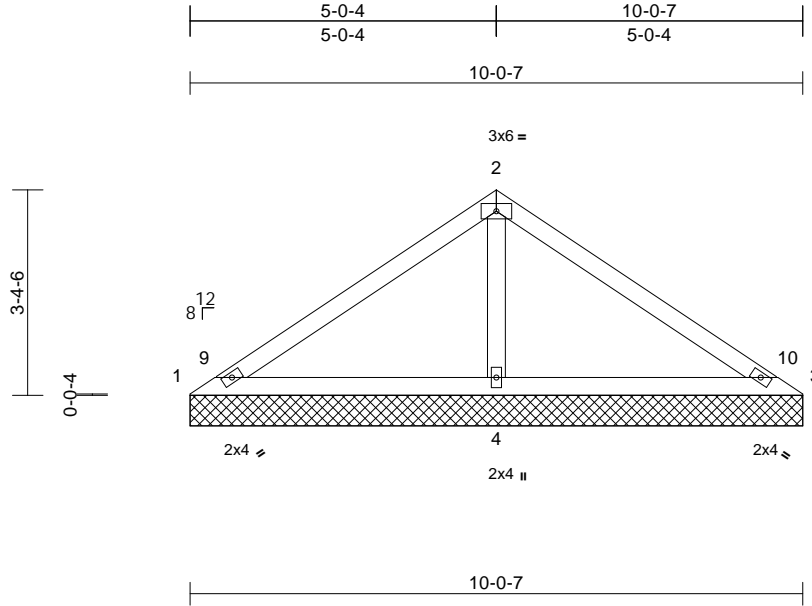
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489032
CL 3034 Base	DV2	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:17
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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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 35 lb	FT = 20%

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

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

REACTIONS (size) 1=10-0-7, 3=10-0-7, 4=10-0-7
 Max Horiz 1=-86 (LC 10)
 Max Uplift 1=-28 (LC 26), 3=-28 (LC 25), 4=-130 (LC 12)
 Max Grav 1=72 (LC 25), 3=72 (LC 26), 4=744 (LC 1)

- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 28 lb uplift at joint 3 and 130 lb uplift at joint 4.

LOAD CASE(S) Standard

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-127/346, 2-3=-127/346
 BOT CHORD 1-4=-262/183, 3-4=-262/183
 WEBS 2-4=-571/280

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 4-6-12, Interior (1) 4-6-12 to 5-0-10, Exterior(2R) 5-0-10 to 9-7-0, Interior (1) 9-7-0 to 10-0-13 zone;C-C for members and forces & MWFRS for reactions shown; 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.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.



April 3, 2025

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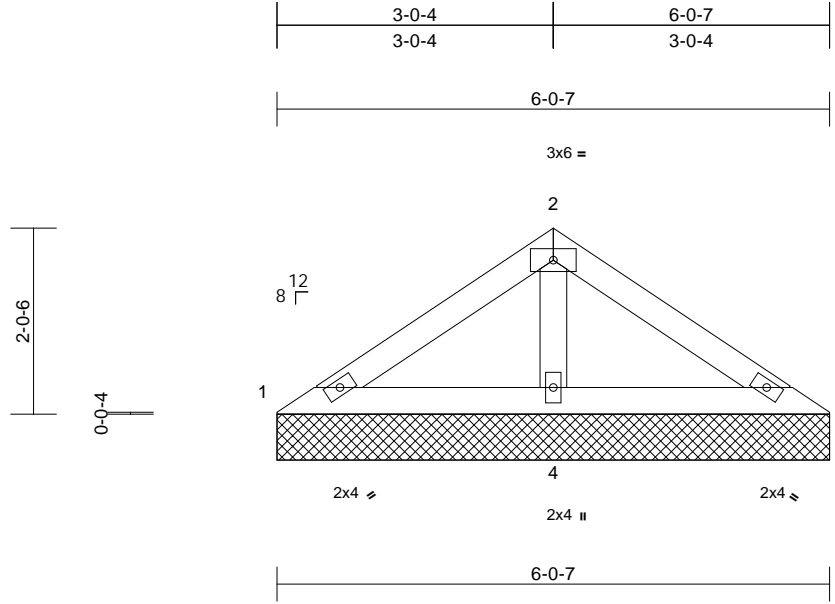
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489033
CL 3034 Base	DV3	Valley	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:17
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Page: 1



Scale = 1:25.2

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=6-0-7, 3=6-0-7, 4=6-0-7
Max Horiz 1=50 (LC 9)
Max Uplift 1=6 (LC 12), 3=-14 (LC 13), 4=-59 (LC 12)
Max Grav 1=68 (LC 25), 3=68 (LC 26), 4=381 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-65/143, 2-3=-65/143
BOT CHORD 1-4=-131/124, 3-4=-131/124
WEBS 2-4=-252/159

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 14 lb uplift at joint 3 and 59 lb uplift at joint 4.

LOAD CASE(S) Standard



April 3, 2025

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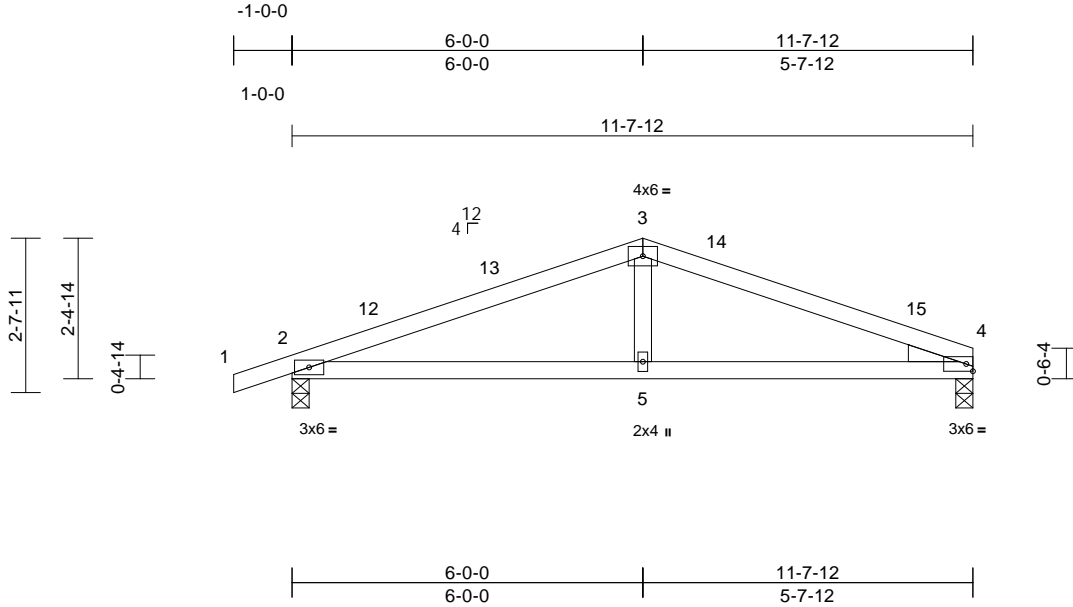
818 Soundside Road
Edenton, NC 27932

Job CL 3034 Base	Truss E1	Truss Type Common	Qty 2	Ply 1	CL 3034 Base Job Reference (optional)	172489034
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:17
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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	0.44	Vert(LL)	0.05	5-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	5-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-6 oc bracing.

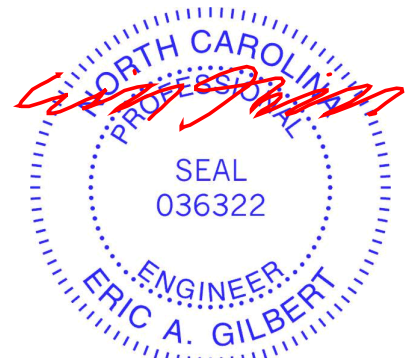
REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=51 (LC 12)
Max Uplift 2=-130 (LC 8), 4=-81 (LC 9)
Max Grav 2=528 (LC 1), 4=463 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-814/463, 3-4=-818/473
BOT CHORD 2-5=-366/725, 4-5=-366/725
WEBS 3-5=0/251

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 6-0-0, Exterior(2R) 6-0-0 to 10-6-6, Interior (1) 10-6-6 to 11-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4 and 130 lb uplift at joint 2.

LOAD CASE(S) Standard



April 3, 2025

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ENGINEERING BY
TRENCO
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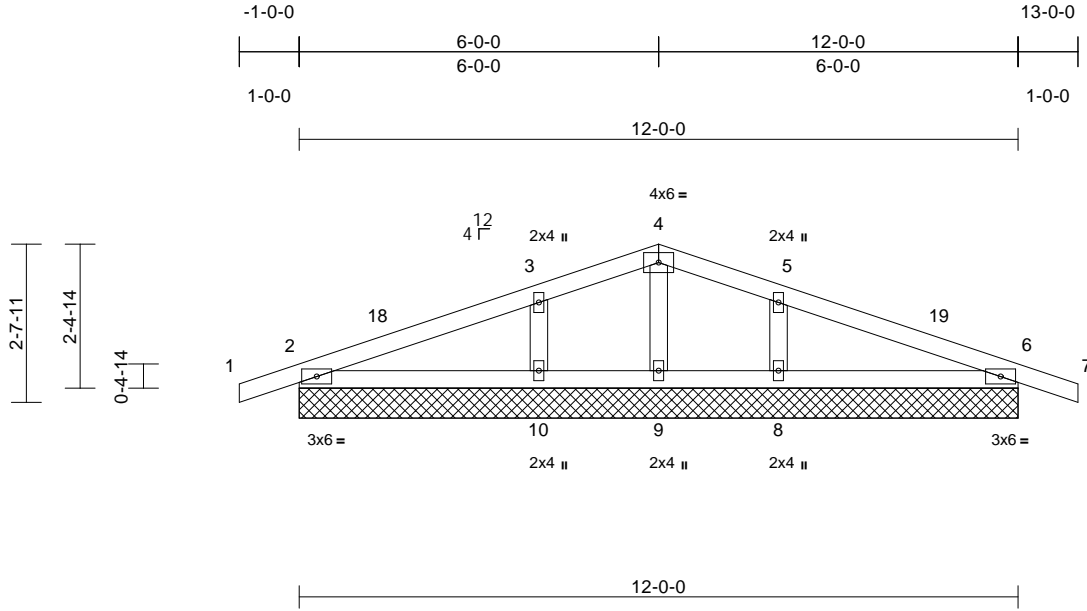
818 Soundside Road
Edenton, NC 27932

Job CL 3034 Base	Truss E1E	Truss Type Common Supported Gable	Qty 1	Ply 1	CL 3034 Base Job Reference (optional)	172489035
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:17
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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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 46 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 8-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

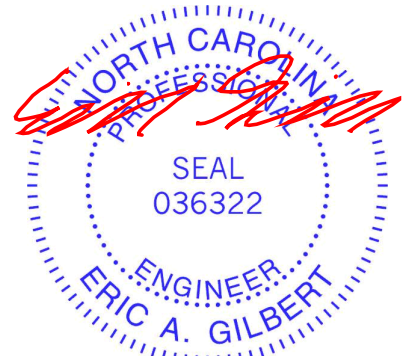
REACTIONS (size) 2=12-0-0, 6=12-0-0, 8=12-0-0, 9=12-0-0, 10=12-0-0
Max Horiz 2=42 (LC 13)
Max Uplift 2=-95 (LC 26), 8=-120 (LC 9), 9=-70 (LC 9), 10=-92 (LC 12)
Max Grav 2=120 (LC 25), 6=0 (LC 9), 8=414 (LC 1), 9=285 (LC 1), 10=364 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-468/561, 3-4=-363/520, 4-5=-357/521, 5-6=-456/565, 6-7=0/19
BOT CHORD 2-10=-495/507, 9-10=-495/507, 8-9=-495/507, 6-8=-495/507
WEBS 4-9=-340/266, 3-10=-237/295, 5-8=-261/310

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 3-6-6, Exterior(2N) 3-6-6 to 6-0-0, Corner(3R) 6-0-0 to 10-6-6, Exterior(2N) 10-6-6 to 13-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2'-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2, 70 lb uplift at joint 9, 92 lb uplift at joint 10, 120 lb uplift at joint 8 and 95 lb uplift at joint 2.

LOAD CASE(S) Standard



April 3, 2025

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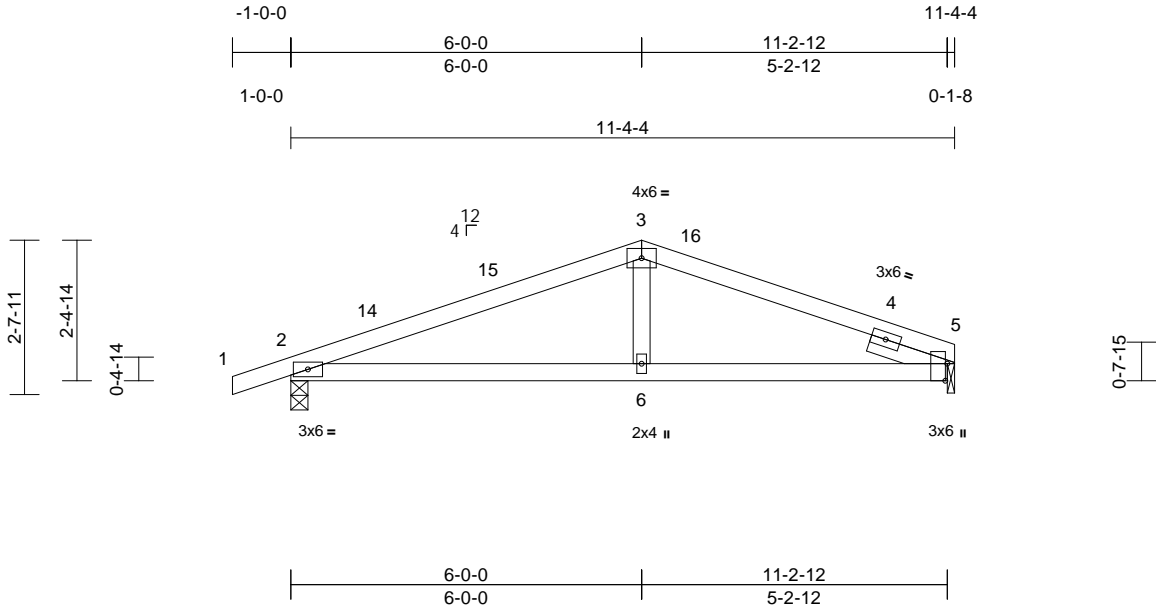
818 Soundside Road
Edenton, NC 27932

Job CL 3034 Base	Truss E2	Truss Type Common	Qty 2	Ply 1	CL 3034 Base Job Reference (optional)	172489036
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:18
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Page: 1



Scale = 1:39.4

Plate Offsets (X, Y): [5:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.05	6-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.09	6-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER

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

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins.
- BOT CHORD Rigid ceiling directly applied or 9-3-8 oc bracing.

REACTIONS

- (size) 2=0-3-8, 5=0-1-8
- Max Horiz 2=54 (LC 12)
- Max Uplift 2=-128 (LC 8), 5=-77 (LC 9)
- Max Grav 2=512 (LC 1), 5=446 (LC 1)

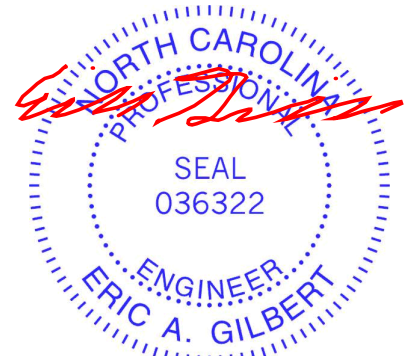
FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/19, 2-3=-755/452, 3-5=-742/468
- BOT CHORD 2-6=-362/668, 5-6=-362/668
- WEBS 3-6=0/233

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 6-0-0, Exterior(2R) 6-0-0 to 10-5-15, Interior (1) 10-5-15 to 11-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Bearings are assumed to be: Joint 2 SP No.2 , Joint 5 SP No.3 .
 - 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 5 and 128 lb uplift at joint 2.
- LOAD CASE(S)** Standard



April 3, 2025

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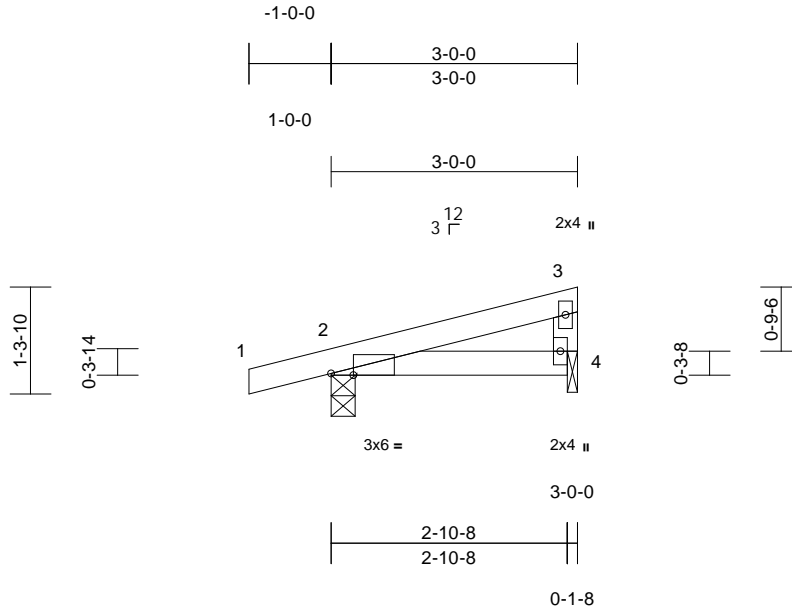
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489037
CL 3034 Base	M1	Monopitch	3	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:18
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Page: 1



Scale = 1:28.1

Plate Offsets (X, Y): [2:0-3-4,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	0.08	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

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

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

REACTIONS (size) 2=0-3-8, 4=0-1-8
Max Horiz 2=44 (LC 8)
Max Uplift 2=74 (LC 8), 4=25 (LC 12)
Max Grav 2=185 (LC 1), 4=104 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-65/14, 3-4=-65/81
BOT CHORD 2-4=-33/68

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 4 SP No.3 .

- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 4 and 74 lb uplift at joint 2.

LOAD CASE(S) Standard



April 3, 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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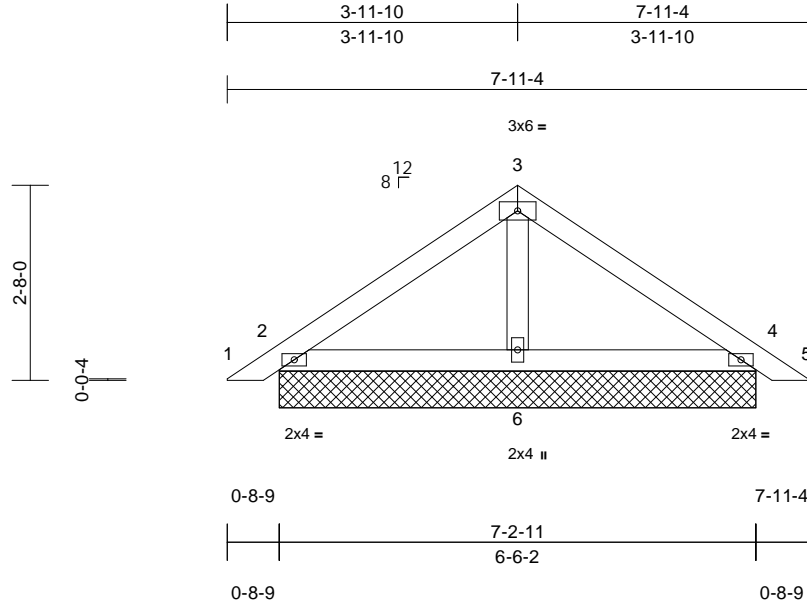
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489038
CL 3034 Base	PB1	Piggyback	13	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:18
ID:qSQY5BNunljSfHJs0fU8LyzUW9k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.5

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=6-6-2, 4=6-6-2, 6=6-6-2
Max Horiz 2=67 (LC 10)
Max Uplift 2=-45 (LC 12), 4=-54 (LC 13), 6=-6 (LC 12)
Max Grav 2=177 (LC 1), 4=177 (LC 1), 6=222 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

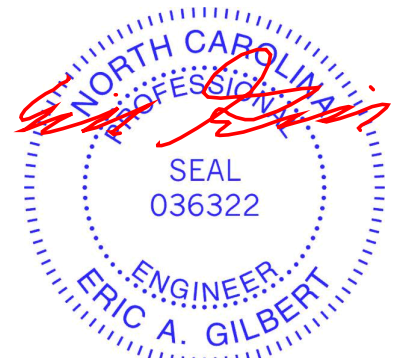
TOP CHORD 1-2=0/16, 2-3=-113/88, 3-4=-109/88, 4-5=0/16
BOT CHORD 2-6=-22/60, 4-6=-15/60
WEBS 3-6=-93/21

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 54 lb uplift at joint 4, 6 lb uplift at joint 6, 45 lb uplift at joint 2 and 54 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 3, 2025

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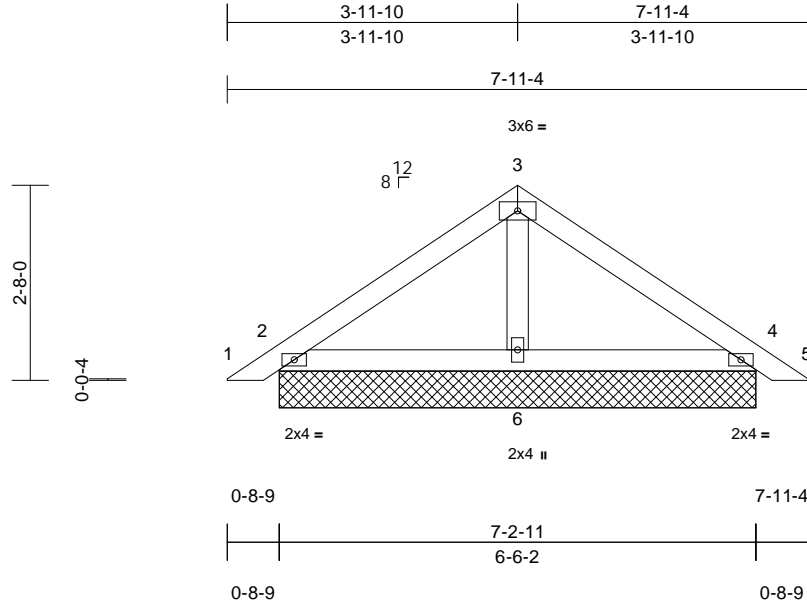
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489039
CL 3034 Base	PB1E	Piggyback	2	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:18
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Page: 1

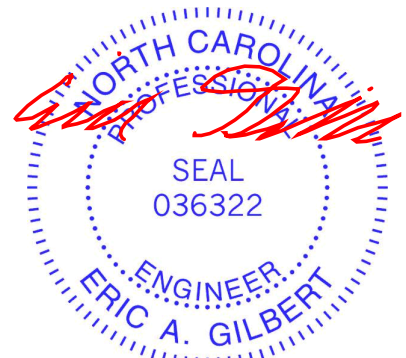


Loading		Spacing		CSI		DEFL			PLATES	GRIP			
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*		Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0		Code	IRC2021/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
 - BOT CHORD 2x4 SP No.2
 - OTHERS 2x4 SP No.3
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 2=6-6-2, 4=6-6-2, 6=6-6-2
- Max Horiz 2=67 (LC 10)
 - Max Uplift 2=-45 (LC 12), 4=-54 (LC 13), 6=-6 (LC 12)
 - Max Grav 2=177 (LC 1), 4=177 (LC 1), 6=222 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/16, 2-3=-113/88, 3-4=-109/88, 4-5=0/16
 - BOT CHORD 2-6=-22/60, 4-6=-15/60
 - WEBS 3-6=-93/21

- 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 9) All bearings are assumed to be SP No.2 .
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 54 lb uplift at joint 4, 6 lb uplift at joint 6, 45 lb uplift at joint 2 and 54 lb uplift at joint 4.
 - 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; 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.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - Gable requires continuous bottom chord bearing.



April 3, 2025

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818 Soundside Road
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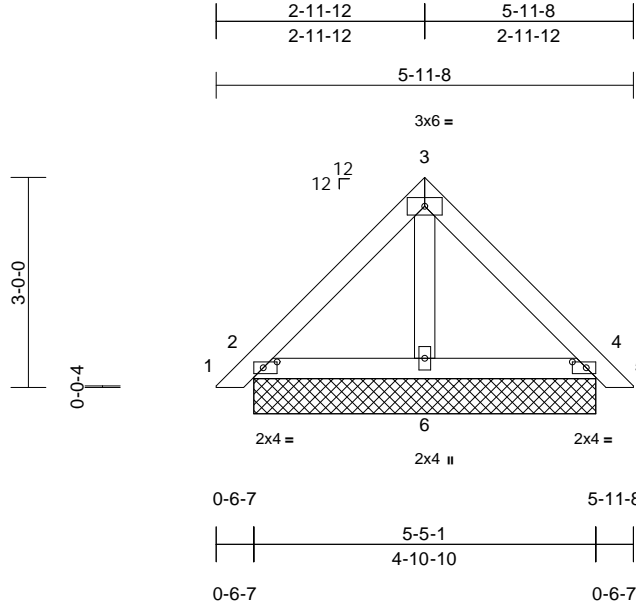
Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	172489040
CL 3034 Base	PB2	Piggyback	3	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:18

Page: 1

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Scale = 1:32.9

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=4-10-10, 4=4-10-10, 6=4-10-10
 Max Horiz 2=-75 (LC 10)
 Max Uplift 2=-32 (LC 13), 4=-37 (LC 13), 6=-1 (LC 12)
 Max Grav 2=143 (LC 1), 4=143 (LC 1), 6=145 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/14, 2-3=-106/93, 3-4=-100/113, 4-5=0/14
 BOT CHORD 2-6=-42/59, 4-6=-22/59
 WEBS 3-6=-49/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2, 37 lb uplift at joint 4, 1 lb uplift at joint 6, 32 lb uplift at joint 2 and 37 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 3, 2025

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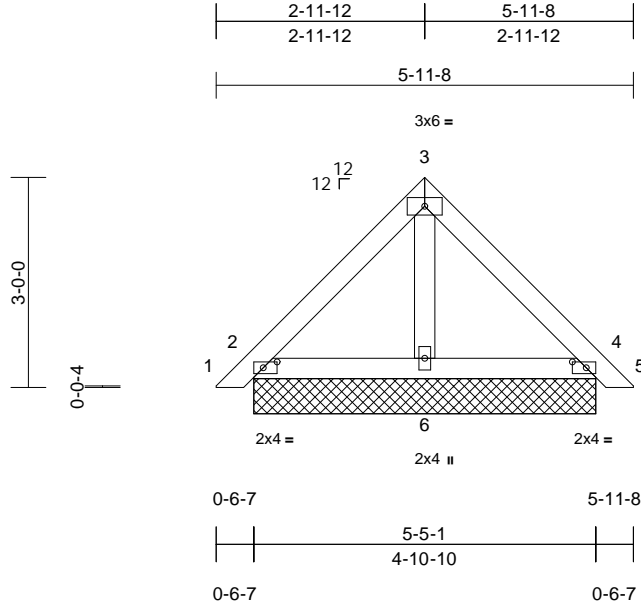
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CL 3034 Base	I72489041
CL 3034 Base	PB2E	Piggyback	1	1	Job Reference (optional)	

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Thu Apr 03 07:05:19
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Page: 1



Scale = 1:32.9

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=4-10-10, 4=4-10-10, 6=4-10-10
Max Horiz 2=-75 (LC 10)
Max Uplift 2=-32 (LC 13), 4=-37 (LC 13), 6=-1 (LC 12)
Max Grav 2=143 (LC 1), 4=143 (LC 1), 6=145 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

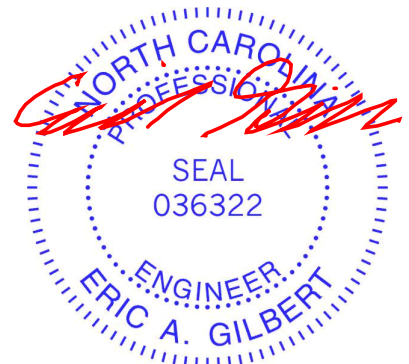
TOP CHORD 1-2=0/14, 2-3=-106/93, 3-4=-100/113, 4-5=0/14
BOT CHORD 2-6=-42/59, 4-6=-22/59
WEBS 3-6=-49/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2, 37 lb uplift at joint 4, 1 lb uplift at joint 6, 32 lb uplift at joint 2 and 37 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 3, 2025

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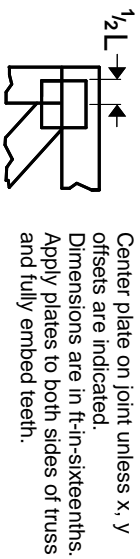
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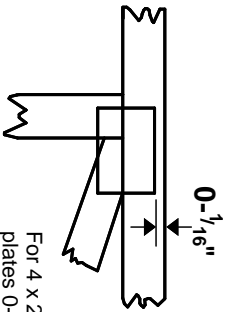
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

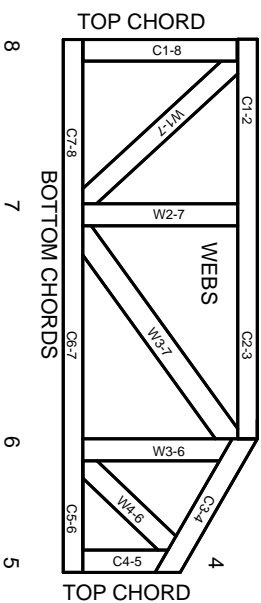
Industry Standards:

ANSI/TP1: 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



1 TOP CHORDS
2 Joint ID
3 typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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ENGINEERING BY
TRENGO
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