

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Hoener
Brad Cummings- Hoener Job.

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

Pages or sheets covered by this seal: I52514602 thru I52514642

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



June 13,2022

Gilbert, Eric

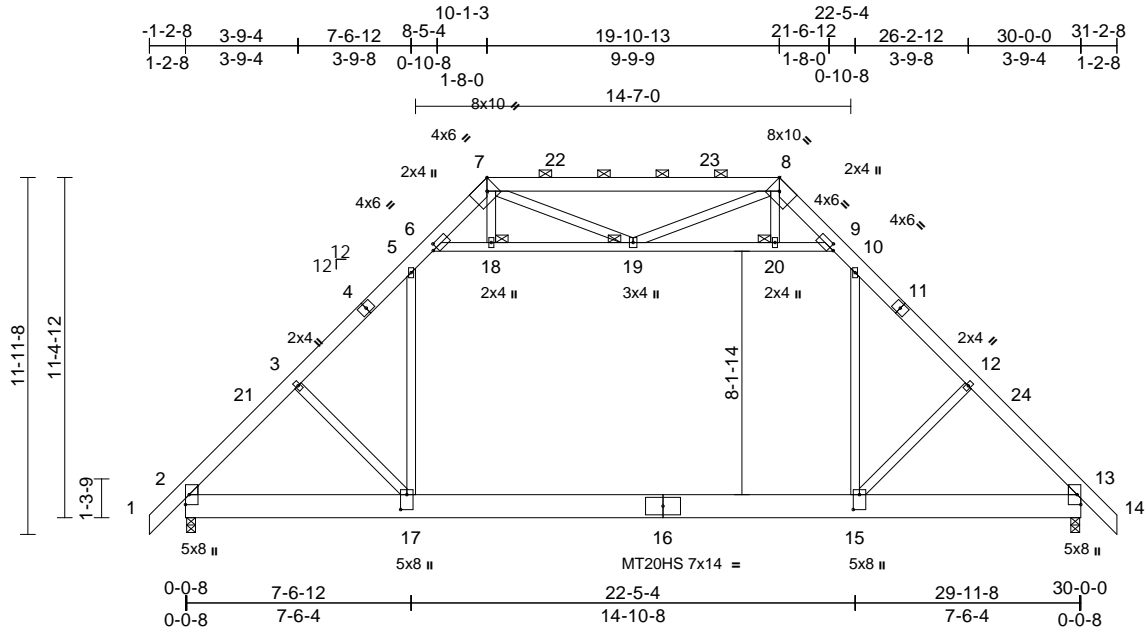
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 Hoener	Truss AT1	Truss Type Attic	Qty 13	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514602
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:26
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Page: 1



Scale = 1:77.2
Plate Offsets (X, Y): [6:0-1-13,0-2-0], [7:0-3-14,Edge], [8:0-3-14,Edge], [9:0-1-13,0-2-0], [10:0-0-0,Edge], [12:0-0-0,0-0-0], [15:0-6-0,0-2-8], [17:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.25	15-17	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.37	15-17	>969	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Attic	-0.21	15-17	>845	360		
BCDL	10.0											
											Weight: 296 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS
WEBS 2x4 SP No.2 *Except* 6-9:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except 2-0-0 oc purlins (3-8-11 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18, 19, 20

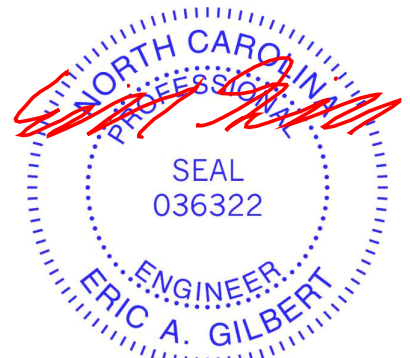
REACTIONS (lb/size) 2=1225/0-3-8, 13=1225/0-3-8
Max Horiz 2=220 (LC 10)
Max Grav 2=1784 (LC 3), 13=1784 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-2297/0, 3-5=-2157/0, 5-6=-1332/0, 6-7=-806/139, 7-8=-672/93, 8-9=-806/139, 9-10=-1332/0, 10-12=-2157/0, 12-13=-2296/0, 13-14=0/34
BOT CHORD 2-17=0/1489, 15-17=0/1458, 13-15=0/1416
WEBS 5-17=0/1109, 10-15=0/1109, 6-18=-1376/0, 18-19=-1370/0, 19-20=-1369/0, 9-20=-1375/0, 3-17=-101/194, 12-15=-101/194, 7-18=0/78, 7-19=-16/110, 8-19=-16/110, 8-20=0/78

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 18-19, 19-20, 9-20; Wall dead load (5.0psf) on member(s).5-17, 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



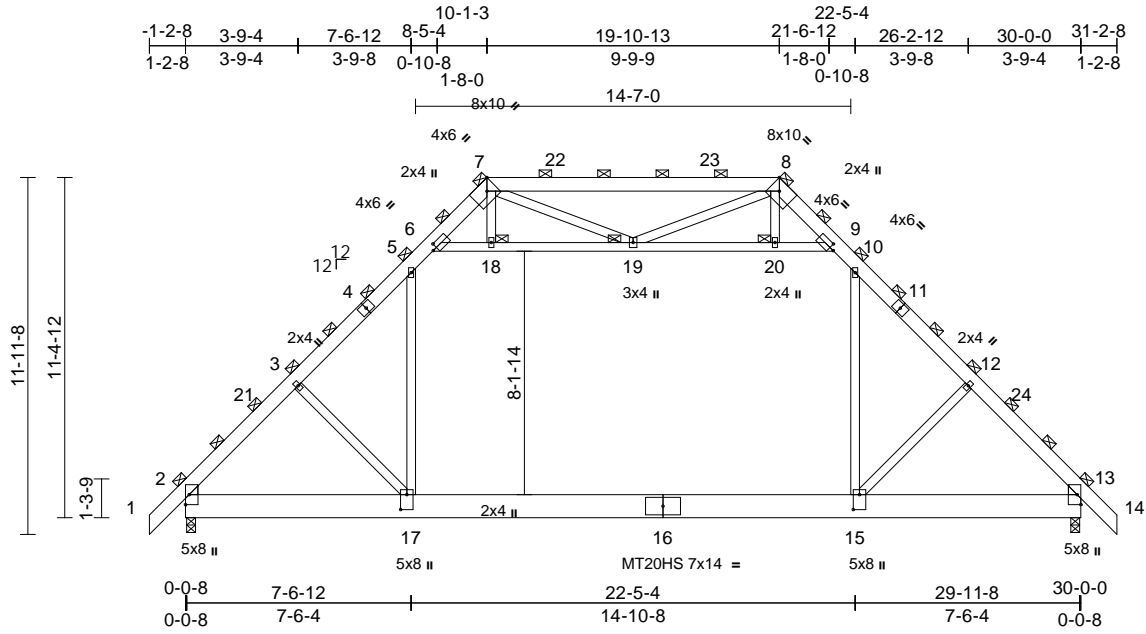
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss AT1A	Truss Type Attic Girder	Qty 1	Ply 2	Brad Cummings- Hoener Job. Job Reference (optional)	152514603
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:28
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Page: 1



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Plate Offsets (X, Y): [6:0-1-13,0-2-0], [7:0-3-14,Edge], [8:0-3-14,Edge], [9:0-1-13,0-2-0], [10:0-0-0,Edge], [15:0-6-0,0-2-8], [17:0-6-0,0-2-8]

Loading	(psf)	Spacing	4-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.25	15-17	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.37	15-17	>969	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.02	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Attic	-0.21	15-17	>845	360		
BCDL	10.0											
											Weight: 592 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS
WEBS 2x4 SP No.2 *Except* 6-9:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

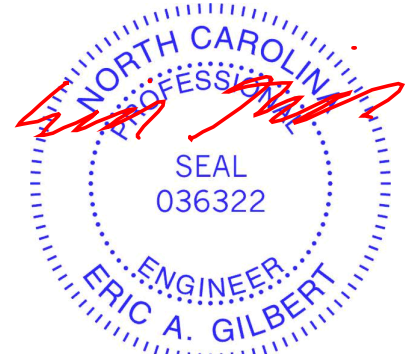
JOINTS
1 Brace at Jt(s): 7, 8, 18, 19, 20

REACTIONS (lb/size) 2=2449/0-3-8, 13=2449/0-3-8
Max Horiz 2=440 (LC 10)
Max Grav 2=3568 (LC 3), 13=3568 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/68, 2-3=-4593/0, 3-5=-4314/0, 5-6=-2663/0, 6-7=-1612/278, 7-8=-1343/186, 8-9=-1612/278, 9-10=-2663/0, 10-12=-4314/0, 12-13=-4593/0, 13-14=0/68
BOT CHORD 2-17=0/2978, 15-17=0/2916, 13-15=0/2831
WEBS 5-17=0/2219, 10-15=0/2219, 6-18=-2752/0, 18-19=-2739/0, 19-20=-2739/0, 9-20=-2751/0, 3-17=-202/388, 12-15=-203/388, 7-18=0/156, 7-19=-31/219, 8-19=-31/219, 8-20=0/156

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.

- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 18-19, 19-20, 9-20; Wall dead load (5.0psf) on member(s).5-17, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



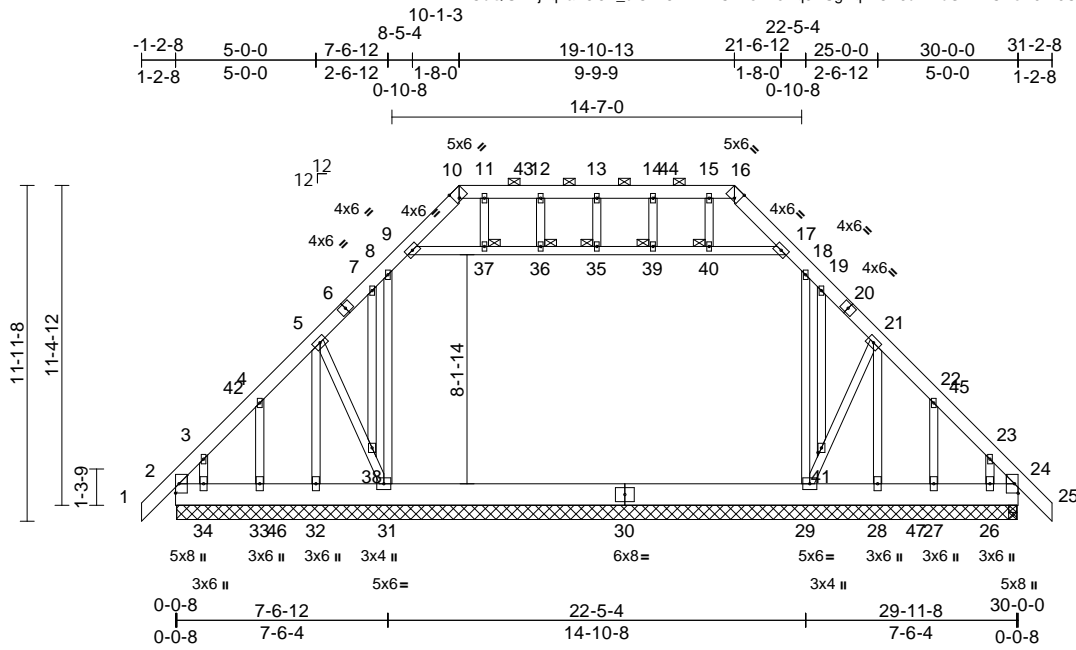
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss AT1E	Truss Type Attic Structural Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514604
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:29
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Page: 1



Scale = 1:82

Plate Offsets (X, Y): [10:0-2-2,Edge], [16:0-2-2,Edge], [18:0-0-0,Edge], [41:0-1-15,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.07	29-31	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.10	29-31	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	24	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 335 lb	FT = 20%

LUMBER	TOP CHORD	1-2=0/33, 2-3=-453/170, 3-4=-361/139, 4-5=-354/130, 5-7=-364/150, 7-8=-339/153, 8-9=-510/111, 9-10=-838/176, 10-11=-696/148, 11-12=-696/148, 12-13=-696/148, 13-14=-696/148, 14-15=-696/148, 15-16=-696/148, 16-17=-838/178, 17-18=-510/103, 18-19=-338/122, 19-21=-364/118, 21-22=-352/97, 22-23=-361/106, 23-24=-456/137, 24-25=0/34	4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
TOP CHORD	2x6 SP No.2		5) Unbalanced snow loads have been considered for this design.
BOT CHORD	2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS		6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
WEBS	2x4 SP No.2 *Except* 9-17:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS		7) Provide adequate drainage to prevent water ponding.
OTHERS	2x4 SP No.2		8) All plates are 2x4 MT20 unless otherwise indicated.
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2		9) Gable studs spaced at 2-0-0 oc.
BRACING			10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-16.		11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
JOINTS	1 Brace at Jt(s): 35, 36, 37, 39, 40		
REACTIONS	(lb/size) 2=373/29-11-0, 24=429/29-11-0, 26=-113/29-11-0, 27=198/29-11-0, 28=-74/29-11-0, 29=554/29-11-0, 31=557/29-11-0, 32=-77/29-11-0, 33=199/29-11-0, 34=-54/29-11-0		
	Max Horiz 2=-221 (LC 10)		
	Max Uplift 2=-129 (LC 8), 24=-109 (LC 9), 26=-251 (LC 49), 27=-22 (LC 13), 28=-563 (LC 19), 32=-564 (LC 19), 33=-21 (LC 12), 34=-194 (LC 47)		
	Max Grav 2=500 (LC 2), 24=577 (LC 2), 26=82 (LC 9), 27=401 (LC 46), 28=31 (LC 36), 29=1137 (LC 46), 31=1152 (LC 44), 32=-35 (LC 36), 33=401 (LC 44), 34=95 (LC 10)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
NOTES			
	1) Unbalanced roof live loads have been considered for this design.		
	2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60		
	3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.		



June 13, 2022

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss AT1E	Truss Type Attic Structural Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514604
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:29
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Page: 2

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2, 109 lb uplift at joint 24, 564 lb uplift at joint 32, 21 lb uplift at joint 33, 194 lb uplift at joint 34, 563 lb uplift at joint 28, 22 lb uplift at joint 27 and 251 lb uplift at joint 26.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) 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. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



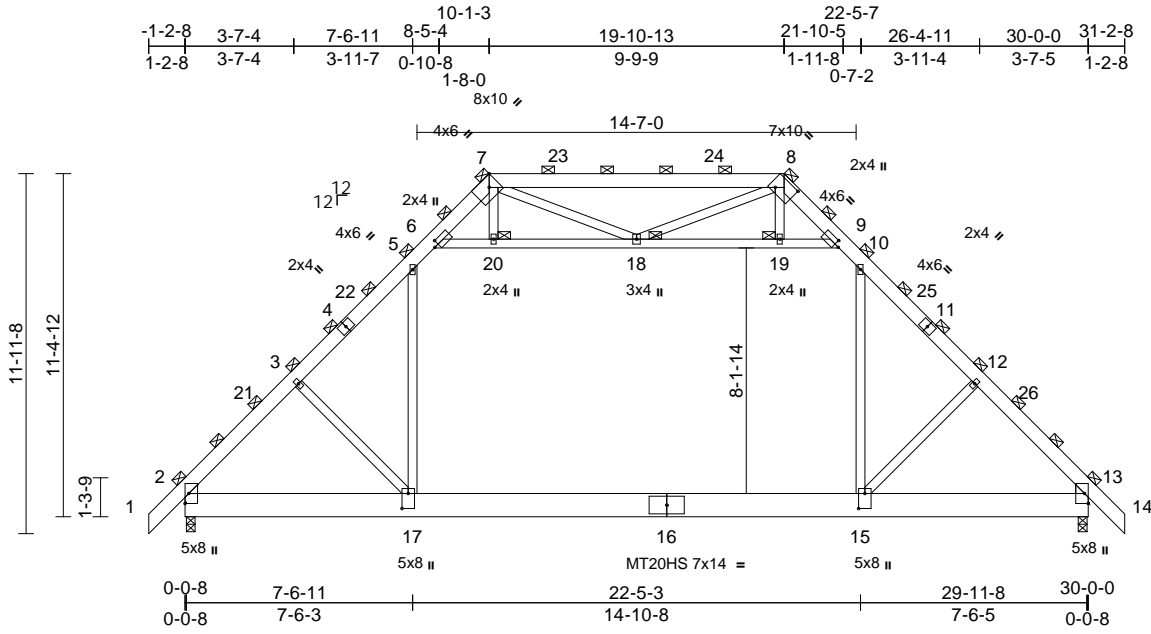
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss AT1G	Truss Type Attic Girder	Qty 2	Ply 3	Brad Cummings- Hoener Job. Job Reference (optional)	152514605
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:30
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Page: 1



Scale = 1:76.5

Plate Offsets (X, Y): [6:0-1-13,0-2-0], [7:0-3-14,Edge], [8:0-7-8,0-5-4], [9:0-1-13,0-2-0], [15:0-6-0,0-2-8], [17:0-6-0,0-2-8]

Loading	(psf)	Spacing	6-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.25	15-17	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.37	15-17	>969	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.02	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Attic	-0.21	15-17	>845	360		
BCDL	10.0											
											Weight: 888 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS
WEBS 2x4 SP No.2 *Except* 6-9:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS
1 Brace at Jt(s): 7, 8, 18, 19, 20

REACTIONS (lb/size) 2=3674/0-3-8, 13=3674/0-3-8
Max Horiz 2=-659 (LC 10)
Max Grav 2=5352 (LC 3), 13=5352 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/102, 2-3=-6890/0, 3-5=-6472/0,
5-6=-3996/0, 6-7=-2417/419, 7-8=-2014/280,
8-9=-2419/417, 9-10=-3994/0,
10-12=-6471/0, 12-13=-6889/0, 13-14=0/102
BOT CHORD 2-17=0/4467, 15-17=0/4374, 13-15=0/4247
WEBS 5-17=0/3328, 10-15=0/3329, 6-20=-4130/0,
18-20=-4112/0, 18-19=-4107/0,
9-19=-4126/0, 3-17=-303/581,
12-15=-304/583, 7-18=-47/330, 8-19=0/236,
8-18=-48/328, 7-20=0/228

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.

- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-20, 18-20, 18-19, 9-19; Wall dead load (5.0psf) on member(s).5-17, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



June 13, 2022

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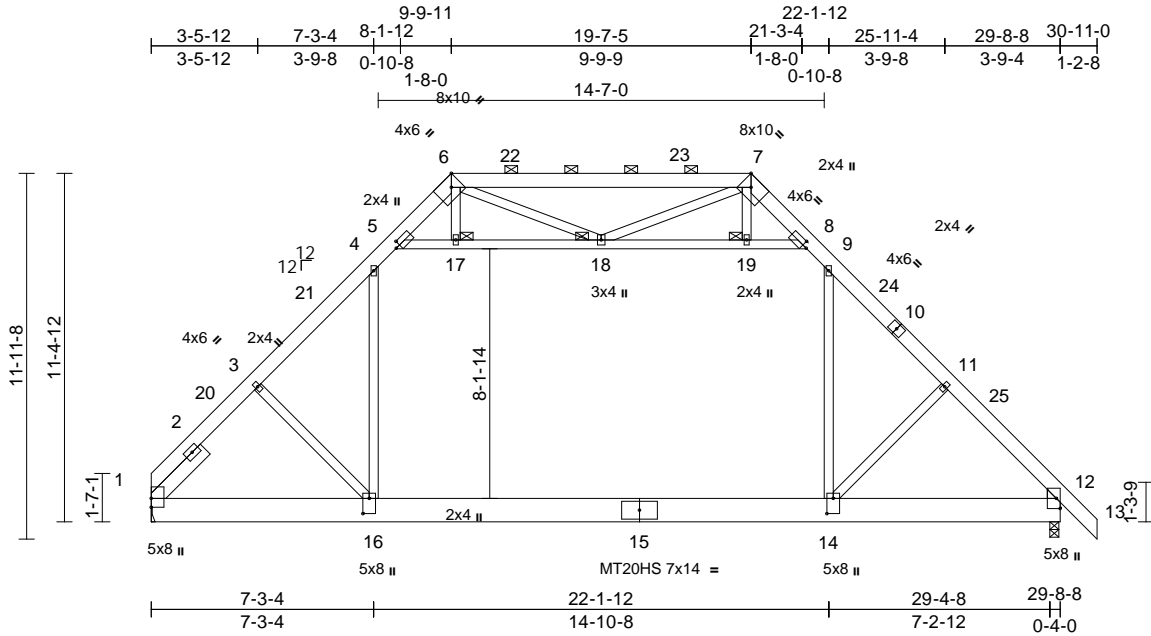


Job Hoener	Truss AT2	Truss Type Attic	Qty 7	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514606
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:31
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Page: 1



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Plate Offsets (X, Y): [5:0-1-13,0-2-0], [6:0-3-14,Edge], [7:0-3-14,Edge], [8:0-1-13,0-2-0], [14:0-6-0,0-2-8], [16:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	14-16	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.37	14-16	>951	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Attic	-0.21	14-16	>842	360		
BCDL	10.0											
											Weight: 295 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS

WEBS 2x4 SP No.2 *Except* 5-8:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

WEDGE Right: 2x4 SP No.2

SLIDER Left 2x6 SP No.2 -- 2-4-10

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (3-8-11 max.): 6-7.

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

JOINTS 1 Brace at Jt(s): 17, 18, 19

REACTIONS (lb/size) 1=1166/ Mechanical, 12=1220/0-3-8
Max Horiz 1=-216 (LC 8)
Max Grav 1=1713 (LC 3), 12=1777 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-2234/0, 3-4=-2087/0, 4-5=-1327/0, 5-6=-799/141, 6-7=-666/95, 7-8=-806/139, 8-9=-1321/0, 9-11=-2144/0, 11-12=-2283/0, 12-13=0/34

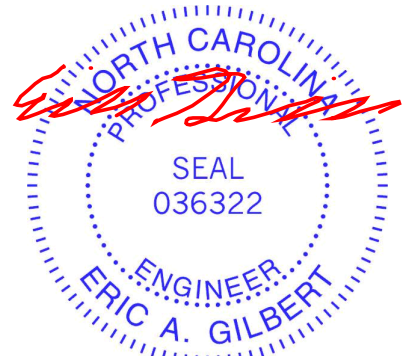
BOT CHORD 1-16=0/1430, 14-16=0/1447, 12-14=0/1408

WEBS 5-17=-1384/0, 17-18=-1377/0, 18-19=-1355/0, 8-19=-1361/0, 4-16=0/1045, 9-14=0/1106, 3-16=-78/268, 11-14=-104/193, 6-17=0/78, 6-18=-13/115, 7-19=0/77, 7-18=-18/105

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-17, 17-18, 18-19, 8-19; Wall dead load (5.0psf) on member (s).4-16, 9-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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



June 13, 2022

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ENGINEERING BY
TRENCO
A MiTek Affiliate

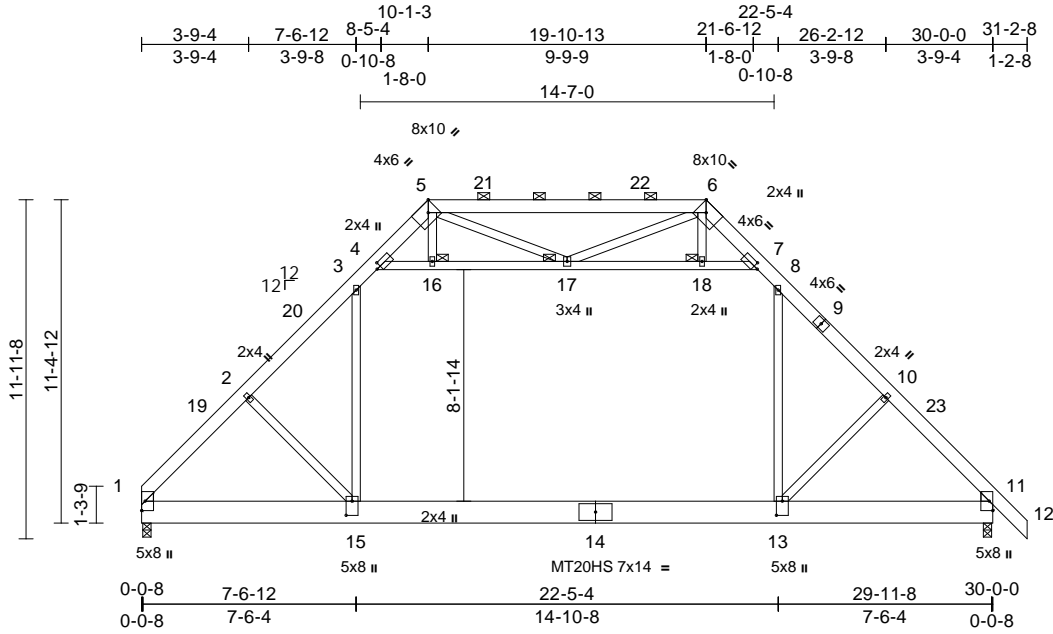
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss AT3	Truss Type Attic	Qty 2	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514607
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

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Plate Offsets (X, Y): [4:0-1-13,0-2-0], [5:0-3-14,Edge], [6:0-3-14,Edge], [7:0-1-13,0-2-0], [13:0-6-0,0-2-8], [15:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	13-15	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.37	13-15	>967	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		Attic	-0.21	13-15	>843	360		
BCDL	10.0											
											Weight: 292 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS
WEBS 2x4 SP No.2 *Except* 4-7:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except 2-0-0 oc purlins (3-8-11 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16, 17, 18

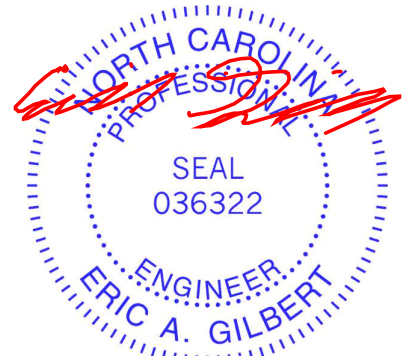
REACTIONS (lb/size) 1=1169/0-3-8, 11=1226/0-3-8
Max Horiz 1=-216 (LC 10)
Max Grav 1=1715 (LC 3), 11=1786 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2302/0, 2-3=-2164/0, 3-4=-1333/0, 4-5=-807/139, 5-6=-672/93, 6-7=-806/139, 7-8=-1334/0, 8-10=-2160/0, 10-11=-2300/0, 11-12=0/34
BOT CHORD 1-15=0/1501, 13-15=0/1460, 11-13=0/1418
WEBS 4-16=-1376/0, 16-17=-1369/0, 17-18=-1372/0, 7-18=-1378/0, 3-15=0/1114, 8-13=0/1110, 2-15=-103/197, 10-13=-101/194, 5-16=0/78, 5-17=-16/109, 6-17=-16/110, 6-18=0/78

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 17-18, 7-18; Wall dead load (5.0psf) on member (s).3-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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



June 13, 2022

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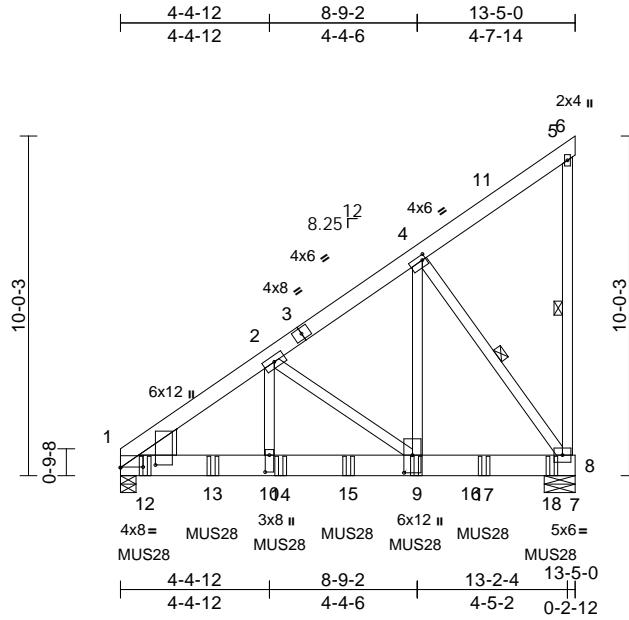
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss M1G	Truss Type Monopitch Girder	Qty 1	Ply 2	Brad Cummings- Hoener Job. Job Reference (optional)	152514608
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:32
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Page: 1



Scale = 1:68

Plate Offsets (X, Y): [1:0-8-0,0-0-3], [1:0-0-15,1-0-6], [4:0-1-4,0-1-12], [9:0-6-4,0-3-0], [10:0-6-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.10	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 256 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP No.2
 WEBS 2x4 SP No.2
 WEDGE Left: 2x10 SP 2250F 1.9E or DSS or SS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-8, 4-8

REACTIONS

(lb/size) 1=5114/0-5-8, 8=5163/0-11-0
 Max Horiz 1=285 (LC 12)
 Max Grav 1=6374 (LC 3), 8=6449 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-6969/0, 2-4=-3712/0, 4-5=-112/54, 5-6=-8/0, 5-8=-117/65
 BOT CHORD 1-10=0/5477, 9-10=0/5477, 8-9=0/3038, 7-8=0/0
 WEBS 2-10=0/3774, 2-9=-3035/0, 4-9=0/6065, 4-8=-5226/0

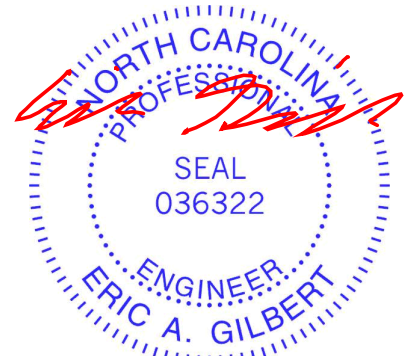
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-7-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-10; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie MUS28 (8-10d Girder, 8-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 12-8-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-5=-40, 5-6=-40, 1-7=-20
 Concentrated Loads (lb)
 Vert: 9=-1354 (B), 12=-1359 (B), 13=-1354 (B), 14=-1354 (B), 15=-1354 (B), 17=-1354 (B), 18=-1357 (B)



June 13, 2022

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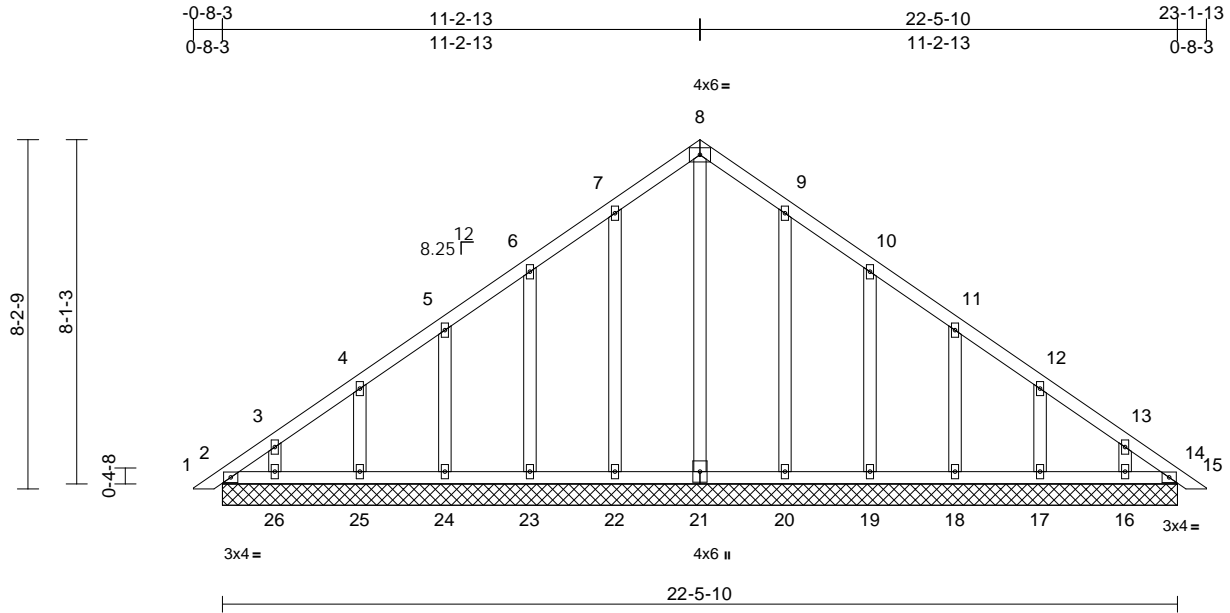
818 Soundside Road
 Edenton, NC 27932

Job Hoener	Truss PB1E	Truss Type Piggyback	Qty 2	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514610
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:33
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Page: 1



Scale = 1:54.2

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 138 lb	FT = 20%

LUMBER	TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	
OTHERS	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	(lb/size)	2=53/22-5-10, 14=53/22-5-10, 16=103/22-5-10, 17=123/22-5-10, 18=119/22-5-10, 19=120/22-5-10, 20=124/22-5-10, 21=98/22-5-10, 22=124/22-5-10, 23=120/22-5-10, 24=119/22-5-10, 25=123/22-5-10, 26=103/22-5-10
Max Horiz	2=-155 (LC 10)	
Max Uplift	2=-39 (LC 8), 14=-7 (LC 9), 16=-39 (LC 13), 17=-42 (LC 13), 18=-40 (LC 13), 19=-43 (LC 13), 20=-39 (LC 13), 22=-40 (LC 12), 23=-43 (LC 12), 24=-40 (LC 12), 25=-42 (LC 12), 26=-41 (LC 12)	
Max Grav	2=106 (LC 27), 14=87 (LC 29), 16=144 (LC 27), 17=165 (LC 27), 18=193 (LC 27), 19=228 (LC 27), 20=229 (LC 27), 21=228 (LC 29), 22=231 (LC 26), 23=227 (LC 26), 24=193 (LC 26), 25=165 (LC 26), 26=146 (LC 26)	
FORCES	(lb) - Maximum Compression/Maximum Tension	

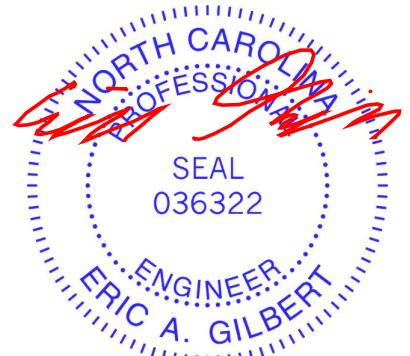
TOP CHORD	1-2=0/13, 2-3=-165/123, 3-4=-123/108, 4-5=-108/89, 5-6=-97/85, 6-7=-86/114, 7-8=-76/141, 8-9=-66/132, 9-10=-53/83, 10-11=-56/49, 11-12=-67/34, 12-13=-87/54, 13-14=-127/68, 14-15=0/13
BOT CHORD	2-26=53/118, 25-26=53/118, 24-25=53/118, 23-24=53/118, 19-20=53/118, 18-19=53/118, 17-18=53/118, 16-17=53/118, 14-16=53/118
WEBS	8-21=-127/4, 7-22=-132/64, 6-23=-123/67, 5-24=-123/64, 4-25=-128/67, 3-26=-109/61, 9-20=-130/63, 10-19=-124/67, 11-18=-123/64, 12-17=-128/67, 13-16=-107/60

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.

- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 40 lb uplift at joint 22, 43 lb uplift at joint 23, 40 lb uplift at joint 24, 42 lb uplift at joint 25, 41 lb uplift at joint 26, 39 lb uplift at joint 20, 43 lb uplift at joint 19, 40 lb uplift at joint 18, 42 lb uplift at joint 17, 39 lb uplift at joint 16 and 7 lb uplift at joint 14.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



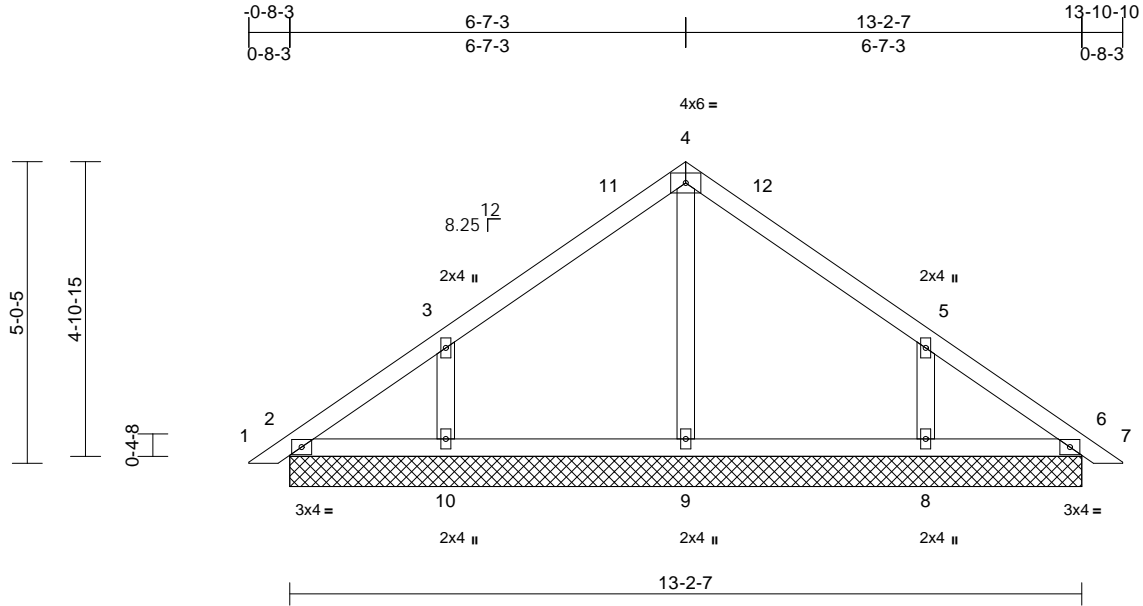
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB2	Truss Type Piggyback	Qty 7	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514611
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:33
ID:HcJ7RmEYzWnBlwcPnzclUz8zZJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 57 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
OTHERS 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.

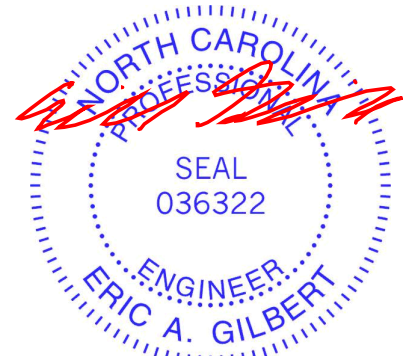
REACTIONS (lb/size)
2=85/13-2-7, 6=85/13-2-7, 8=228/13-2-7, 9=201/13-2-7, 10=228/13-2-7
Max Horiz 2=94 (LC 11)
Max Uplift 2=-6 (LC 8), 8=-87 (LC 13), 10=-88 (LC 12)
Max Grav 2=120 (LC 27), 6=119 (LC 2), 8=318 (LC 27), 9=260 (LC 2), 10=318 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-3=-107/72, 3-4=-119/85, 4-5=-114/67, 5-6=-83/40, 6-7=0/13
BOT CHORD 2-10=-23/63, 9-10=-23/63, 8-9=-23/63, 6-8=-23/63
WEBS 4-9=-177/0, 3-10=-245/130, 5-8=-244/129

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 2, 88 lb uplift at joint 10 and 87 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

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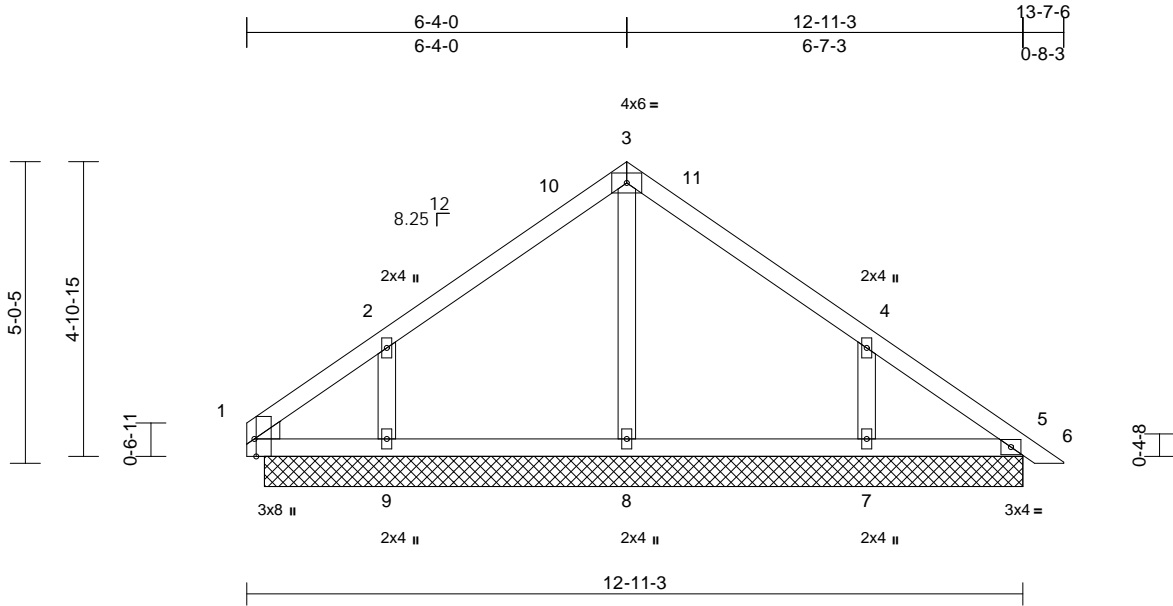
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB2A	Truss Type Piggyback	Qty 10	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514612
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:34
ID:SEk1pQVwBoTcEERtYRbjz9_5q-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.4

Plate Offsets (X, Y): [1:0-3-8,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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2
 WEDGE Left: 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

(lb/size) 1=58/12-7-11, 5=86/12-7-11, 7=228/12-7-11, 8=201/12-7-11, 9=221/12-7-11
 Max Horiz 1=-92 (LC 8)
 Max Uplift 1=-15 (LC 8), 7=-87 (LC 13), 9=-93 (LC 12)
 Max Grav 1=97 (LC 27), 5=120 (LC 2), 7=317 (LC 27), 8=259 (LC 2), 9=313 (LC 26)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-100/74, 2-3=-120/84, 3-4=-116/67, 4-5=-85/39, 5-6=0/13
 BOT CHORD 1-9=-23/64, 8-9=-23/64, 7-8=-23/64, 5-7=-23/64
 WEBS 3-8=-176/0, 2-9=-242/134, 4-7=-244/129

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 93 lb uplift at joint 9 and 87 lb uplift at joint 7.
- 11) Non Standard bearing condition. Review required.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



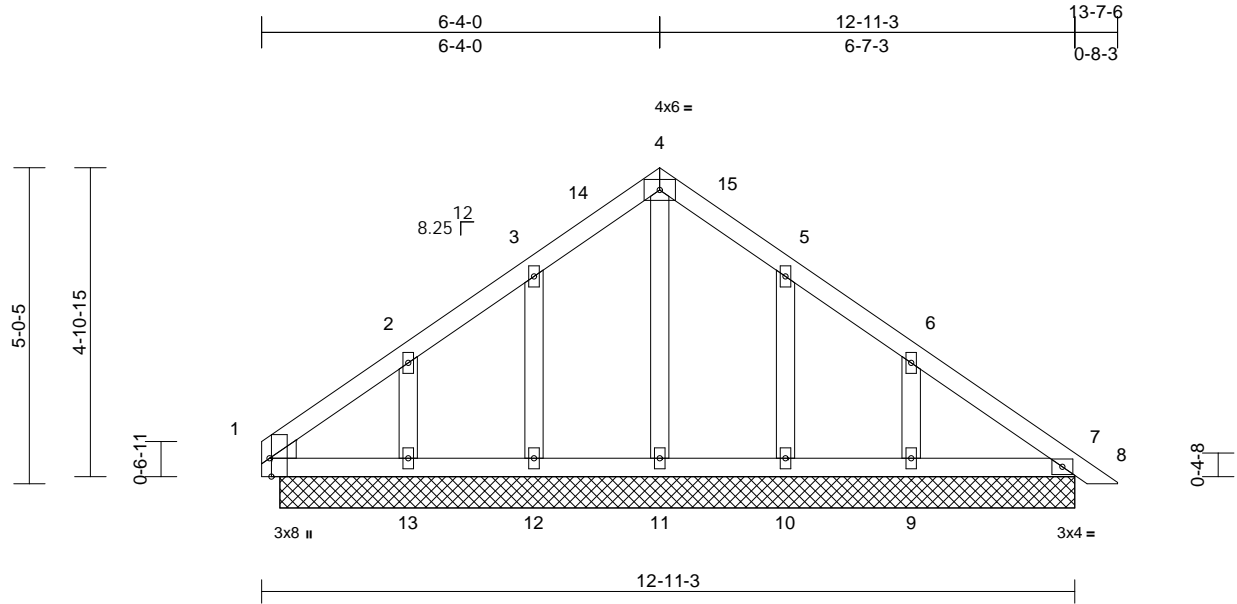
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB2AE	Truss Type Piggyback	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514613
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:34
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Page: 1



Scale = 1:36.6

Plate Offsets (X, Y): [1:0-3-8,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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 65 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
OTHERS 2x4 SP No.2
WEDGE Left: 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.

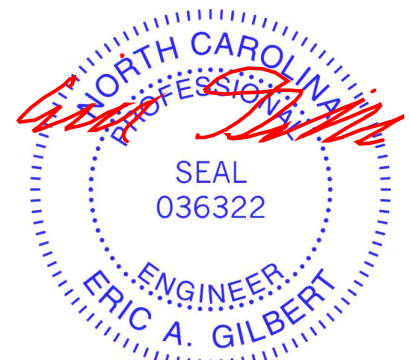
REACTIONS (lb/size)
1=66/12-7-11, 7=91/12-7-11, 9=160/12-7-11, 10=111/12-7-11, 11=102/12-7-11, 12=115/12-7-11, 13=149/12-7-11
Max Horiz 1=-92 (LC 8)
Max Uplift 1=-7 (LC 8), 9=-56 (LC 13), 10=-39 (LC 13), 12=-40 (LC 12), 13=-61 (LC 12)
Max Grav 1=100 (LC 27), 7=126 (LC 2), 9=220 (LC 27), 10=153 (LC 27), 11=139 (LC 29), 12=159 (LC 26), 13=208 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-88/74, 2-3=-79/57, 3-4=-67/83, 4-5=-57/74, 5-6=-59/36, 6-7=-76/46, 7-8=0/13
BOT CHORD 1-13=-29/69, 12-13=-29/69, 11-12=-29/69, 10-11=-29/69, 9-10=-29/69, 7-9=-29/69
WEBS 4-11=-97/0, 3-12=-124/63, 2-13=-152/86, 5-10=-121/62, 6-9=-158/82

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 40 lb uplift at joint 12, 61 lb uplift at joint 13, 39 lb uplift at joint 10 and 56 lb uplift at joint 9.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

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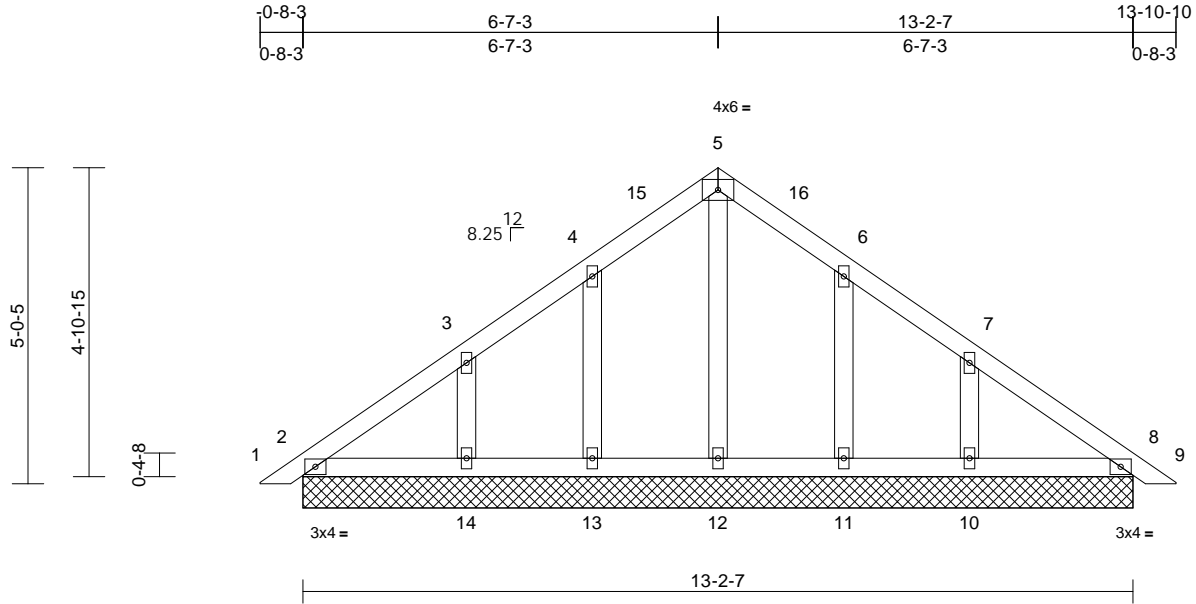
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB2E	Truss Type Piggyback	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514614
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:35
ID:OHVe5FBkpv2N4BbKh4rliz8zZl-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCdoi7J4zJC?f

Page: 1



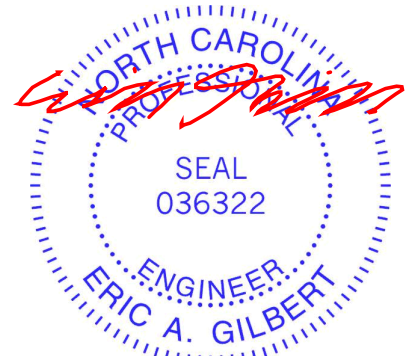
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 66 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
OTHERS	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	(lb/size)
	2=91/13-2-7, 8=91/13-2-7, 10=160/13-2-7, 11=111/13-2-7, 12=103/13-2-7, 13=111/13-2-7, 14=160/13-2-7
Max Horiz	2=-94 (LC 10)
Max Uplift	2=-1 (LC 13), 10=-56 (LC 13), 11=-39 (LC 13), 13=-40 (LC 12), 14=-56 (LC 12)
Max Grav	2=126 (LC 2), 8=126 (LC 2), 10=220 (LC 27), 11=153 (LC 27), 12=141 (LC 29), 13=154 (LC 26), 14=220 (LC 26)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/13, 2-3=-95/72, 3-4=-80/58, 4-5=-66/84, 5-6=-56/75, 6-7=-58/35, 7-8=-75/46, 8-9=0/13
BOT CHORD	2-14=-29/69, 13-14=-29/69, 12-13=-29/69, 11-12=-29/69, 10-11=-29/69, 8-10=-29/69
WEBS	5-12=-98/0, 4-13=-122/63, 3-14=-158/82, 6-11=-121/62, 7-10=-158/82

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 40 lb uplift at joint 13, 56 lb uplift at joint 14, 39 lb uplift at joint 11 and 56 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

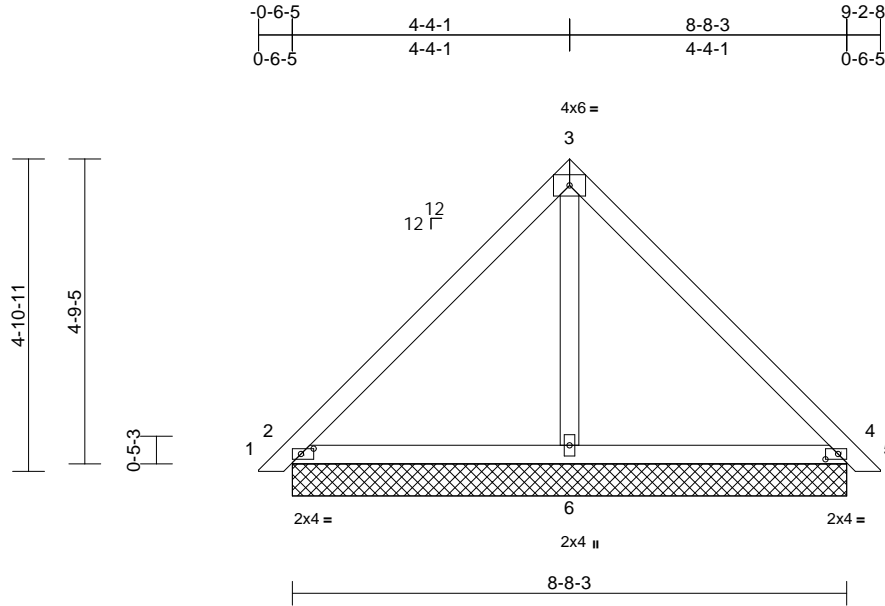
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB3	Truss Type Piggyback	Qty 22	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514615
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:35
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Page: 1



Scale = 1:36.1

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 39 lb	FT = 20%

LUMBER

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

(lb/size) 2=163/8-8-3, 4=163/8-8-3,
6=221/8-8-3
Max Horiz 2=-90 (LC 10)
Max Uplift 2=-30 (LC 13), 4=-34 (LC 13)
Max Grav 2=229 (LC 2), 4=229 (LC 2), 6=277 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/12, 2-3=-147/69, 3-4=-138/54,
4-5=0/12
BOT CHORD 2-6=-24/72, 4-6=-24/72
WEBS 3-6=-168/24

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 34 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

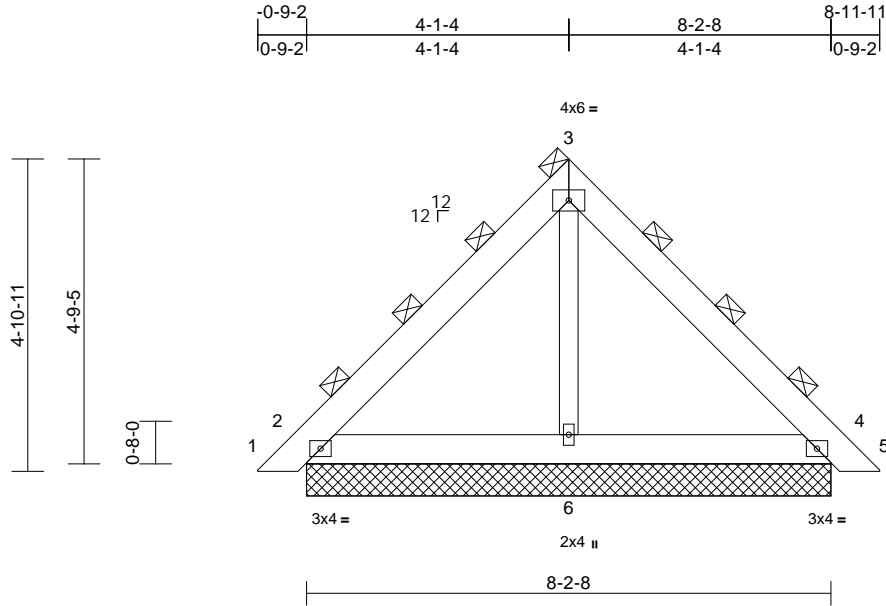
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB3A	Truss Type Piggyback	Qty 2	Ply 3	Brad Cummings- Hoener Job. Job Reference (optional)	152514616
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:35
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Page: 1



Scale = 1:36.1

Loading	(psf)	Spacing	6-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 171 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS

(lb/size) 2=508/8-2-8, 4=508/8-2-8,
6=570/8-2-8
Max Horiz 2=-264 (LC 10)
Max Uplift 2=-89 (LC 13), 4=-104 (LC 13)
Max Grav 2=715 (LC 2), 4=715 (LC 2), 6=747
(LC 7)

FORCES

(lb) - Maximum Compression/Maximum
Tension

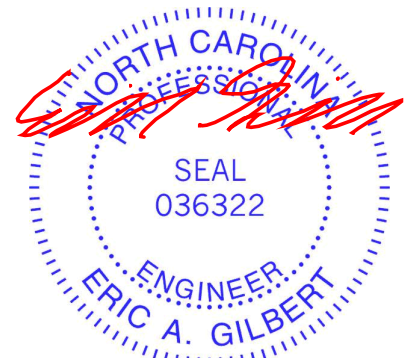
TOP CHORD 1-2=0/48, 2-3=-464/198, 3-4=-450/163,
4-5=0/48
BOT CHORD 2-6=-60/238, 4-6=-60/238
WEBS 3-6=-393/54

NOTES

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 2 and 104 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



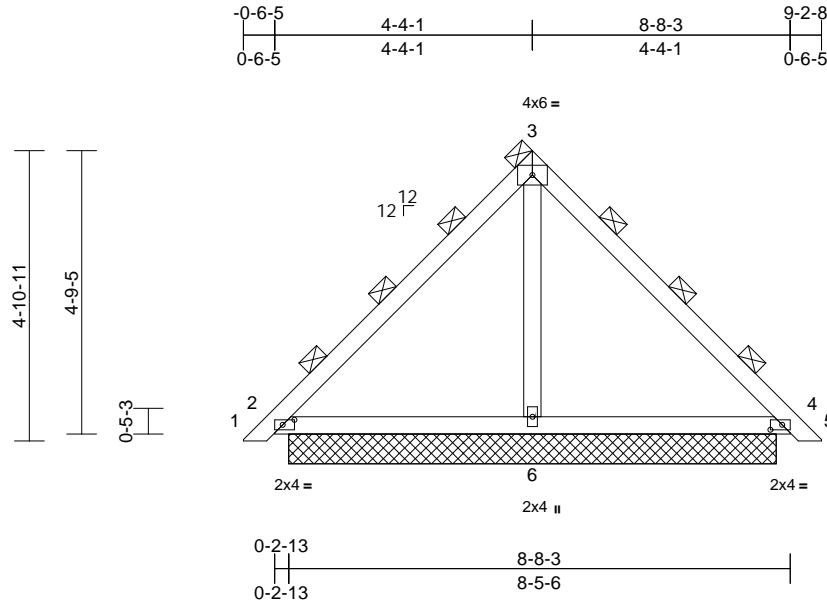
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB3B	Truss Type Piggyback	Qty 1	Ply 2	Brad Cummings- Hoener Job. Job Reference (optional)	I52514617
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 1



Scale = 1:38.8

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

Loading	(psf)	Spacing	6-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 79 lb	FT = 20%

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

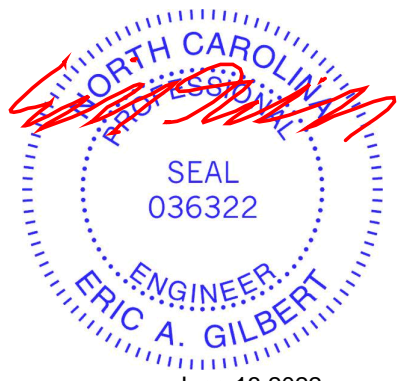
BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=490/8-2-8, 4=490/8-2-8, 6=662/8-2-8
Max Horiz 2=-271 (LC 10)
Max Uplift 2=-91 (LC 13), 4=-102 (LC 13)
Max Grav 2=686 (LC 2), 4=686 (LC 2), 6=831 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-442/206, 3-4=-415/163, 4-5=0/36
BOT CHORD 2-6=-71/215, 4-6=-71/215
WEBS 3-6=-505/71

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 102 lb uplift at joint 4.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



June 13, 2022

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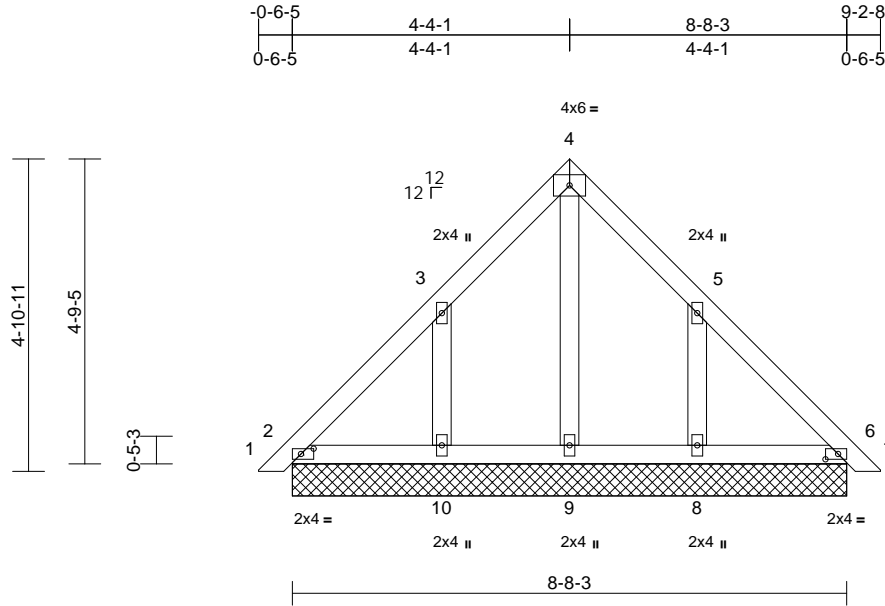
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss PB3E	Truss Type Piggyback	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514618
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:36
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Page: 1



Scale = 1:36.1

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

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
										Weight: 46 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 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 (lb/size) 2=80/8-8-3, 6=80/8-8-3, 8=158/8-8-3, 9=71/8-8-3, 10=158/8-8-3
Max Horiz 2=90 (LC 11)
Max Uplift 2=-5 (LC 8), 8=-102 (LC 13), 10=-102 (LC 12)
Max Grav 2=117 (LC 27), 6=111 (LC 2), 8=230 (LC 27), 9=109 (LC 29), 10=230 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension

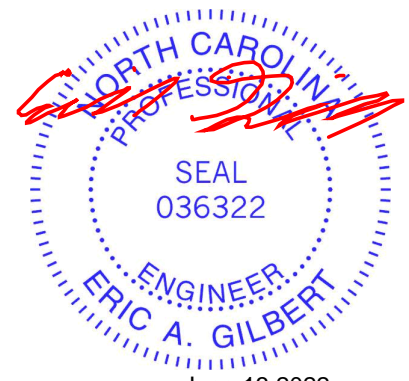
TOP CHORD 1-2=0/12, 2-3=-90/78, 3-4=-81/69, 4-5=-76/56, 5-6=-79/61, 6-7=0/12
BOT CHORD 2-10=-34/82, 9-10=-34/82, 8-9=-34/82, 6-8=-34/82
WEBS 4-9=-75/0, 3-10=-179/133, 5-8=-178/133

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2, 102 lb uplift at joint 10 and 102 lb uplift at joint 8.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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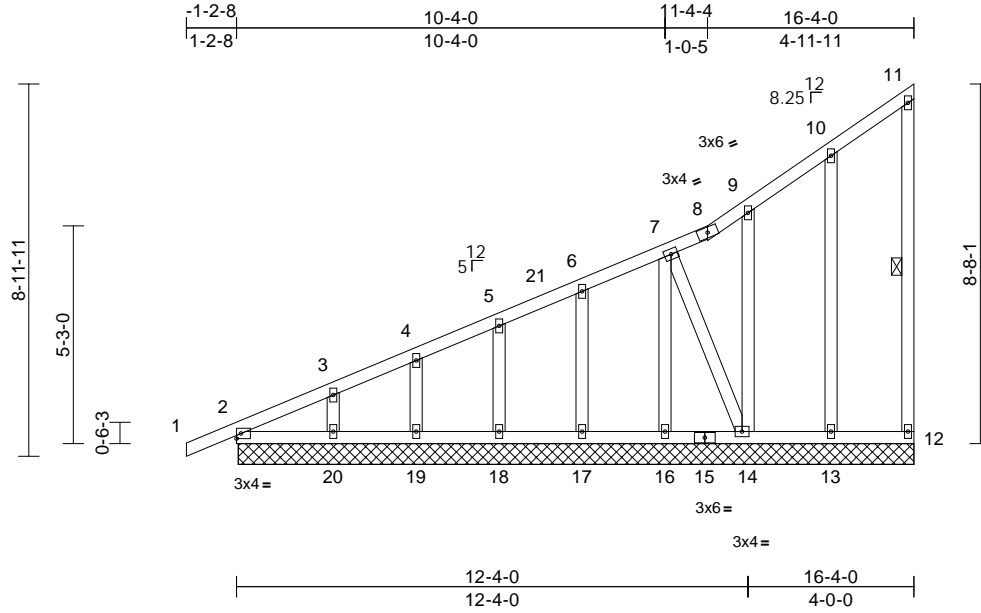


Job Hoener	Truss SP1	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514619
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

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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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 110 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (lb/size)

2=127/16-3-8, 12=45/16-3-8, 13=126/16-3-8, 14=144/16-3-8, 16=92/16-3-8, 17=118/16-3-8, 18=121/16-3-8, 19=117/16-3-8, 20=129/16-3-8
Max Horiz 2=257 (LC 12)
Max Uplift 12=16 (LC 12), 13=46 (LC 12), 14=93 (LC 12), 17=23 (LC 12), 18=23 (LC 12), 19=23 (LC 12), 20=41 (LC 12)
Max Grav 2=180 (LC 2), 12=83 (LC 26), 13=243 (LC 26), 14=202 (LC 26), 16=154 (LC 28), 17=172 (LC 3), 18=162 (LC 2), 19=157 (LC 2), 20=168 (LC 2)

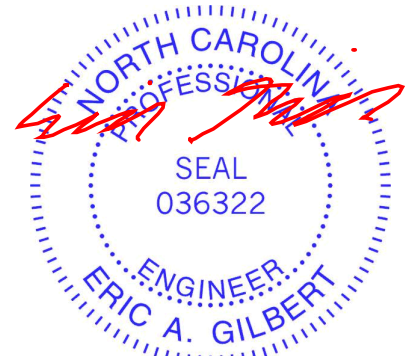
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/17, 2-3=-228/10, 3-4=-187/4, 4-5=-160/10, 5-6=-132/21, 6-7=-105/33, 7-8=-116/39, 8-9=-111/55, 9-10=-81/48, 10-11=-41/21, 11-12=-47/24
BOT CHORD	2-20=-33/17, 19-20=-33/17, 18-19=-33/17, 17-18=-33/17, 16-17=-33/17, 14-16=-33/17, 13-14=0/1, 12-13=0/1
WEBS	10-13=-131/72, 9-14=-119/43, 7-16=-83/0, 6-17=-117/47, 5-18=-121/48, 4-19=-118/46, 3-20=-124/69, 7-14=-42/80

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 12, 46 lb uplift at joint 13, 93 lb uplift at joint 14, 23 lb uplift at joint 17, 23 lb uplift at joint 18, 23 lb uplift at joint 19 and 41 lb uplift at joint 20.
- 11) Non Standard bearing condition. Review required.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



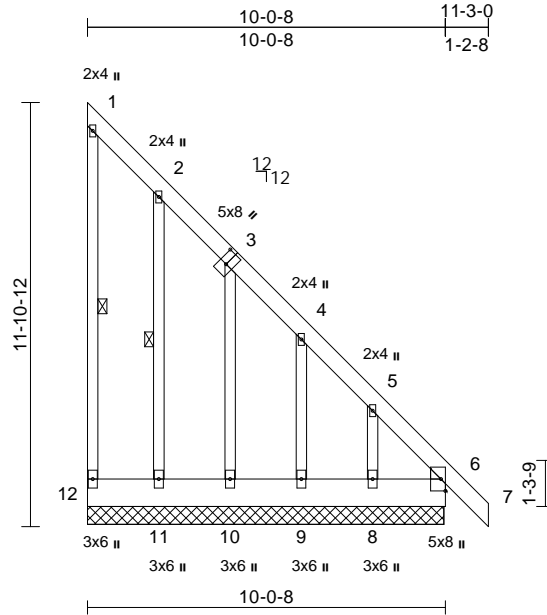
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss SP2	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514620
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:36
ID:DbqtsRGPv71v_EmmuOb4qvz8zZH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwKRCDoi7J4zJC?f

Page: 1



Scale = 1:64.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 123 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Right: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-12, 2-11

REACTIONS	(lb/size)	6=117/10-0-0, 8=113/10-0-0, 9=120/10-0-0, 10=121/10-0-0, 11=124/10-0-0, 12=46/10-0-0
	Max Horiz	12=333 (LC 13)
Max Uplift	6=42 (LC 11), 8=159 (LC 13), 9=71 (LC 13), 10=76 (LC 13), 11=70 (LC 13), 12=31 (LC 13)	
	Max Grav	6=329 (LC 13), 8=184 (LC 28), 9=202 (LC 28), 10=237 (LC 28), 11=241 (LC 28), 12=89 (LC 28)

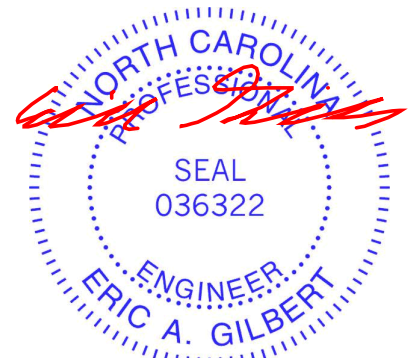
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-12=-53/39, 1-2=-56/31, 2-4=-215/89, 4-5=-302/119, 5-6=-445/170, 6-7=0/33
BOT CHORD	11-12=-118/332, 10-11=-118/332, 9-10=-117/331, 8-9=-117/331, 6-8=-116/330
WEBS	2-11=-134/97, 3-10=-135/98, 4-9=-132/100, 5-8=-146/166

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 12, 42 lb uplift at joint 6, 70 lb uplift at joint 11, 76 lb uplift at joint 10, 71 lb uplift at joint 9 and 159 lb uplift at joint 8.
- 10) Non Standard bearing condition. Review required.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



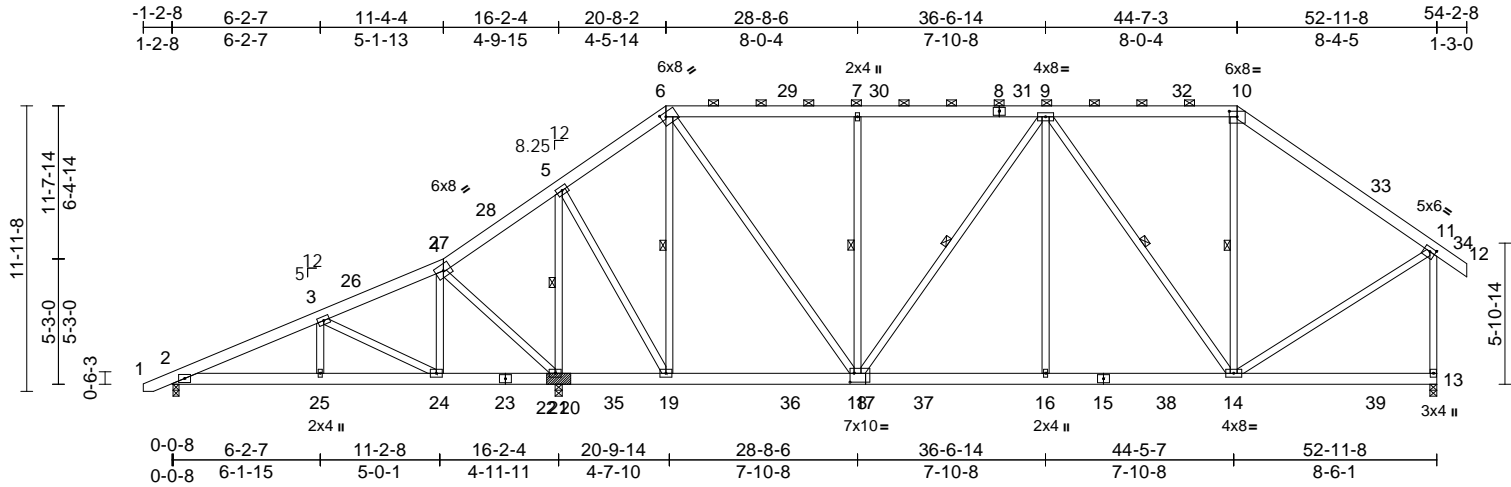
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T1	Truss Type Piggyback Base	Qty 2	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514621
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:37
ID:lxKnmjVjGBDSIn7Kqhgzt8zYm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:96.5

Plate Offsets (X, Y): [6:0-2-8,0-2-0], [10:0-4-0,0-2-12], [11:0-2-12,0-2-0], [18:0-2-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.07	16-18	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 465 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	6-0-0 oc bracing: 19-21. 1 Row at midpt 6-19, 7-18, 9-18, 9-14, 10-14, 5-21
REACTIONS (lb/size)	
	2=462/0-3-0, 13=1234/0-3-8, 21=1806/(0-3-8 + bearing block), (req. 0-3-9)
Max Horiz	2=238 (LC 12)
Max Uplift	2=-12 (LC 8), 13=-2 (LC 8), 21=-43 (LC 12)
Max Grav	2=620 (LC 54), 13=1603 (LC 57), 21=2279 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/22, 2-3=-922/3, 3-4=-353/40, 4-5=-79/288, 5-6=-701/79, 6-7=-1180/112, 7-9=-1179/112, 9-10=-909/97, 10-11=-1213/84, 11-12=0/47, 11-13=-1475/42
BOT CHORD	2-25=-126/786, 24-25=-126/786, 21-24=-59/257, 19-21=-207/55, 18-19=-68/573, 16-18=-64/1314, 14-16=-64/1314, 13-14=-8/30
WEBS	3-25=0/245, 3-24=-603/94, 4-24=0/381, 6-19=-901/79, 6-18=-91/1105, 7-18=-514/155, 9-18=-267/25, 9-16=0/441, 9-14=-736/126, 10-14=-13/296, 11-14=0/1059, 4-21=-570/79, 5-21=-1770/60, 5-19=-5/1254

- NOTES**
- 2x6 SP No.2 bearing block 12" long at jt. 21 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.3.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 2, 2 lb uplift at joint 13 and 43 lb uplift at joint 21.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 13, 2022

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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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



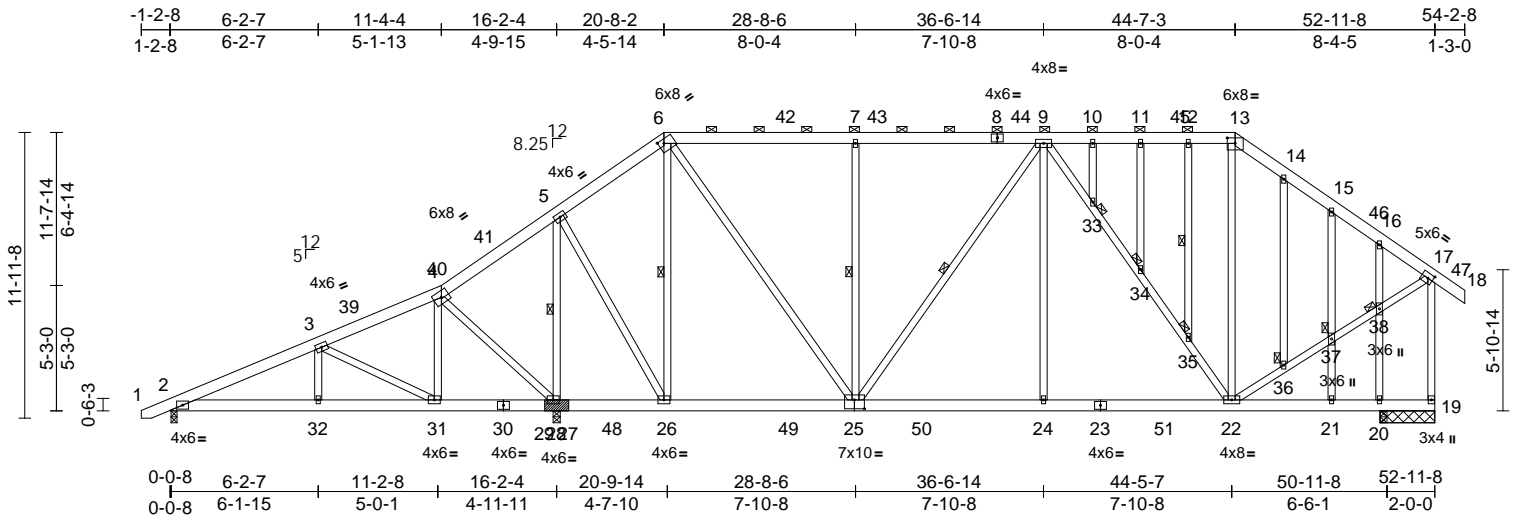
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T1A	Truss Type Piggyback Base	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514622
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:37
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Page: 1



Scale = 1:96.5

Plate Offsets (X, Y): [6:0-2-12,0-2-0], [13:0-4-0,0-2-12], [17:0-2-8,0-2-8], [25:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.07	22-24	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	24-25	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 522 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-10 max.): 6-13.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-26, 7-25, 9-25, 5-28, 12-35

JOINTS	
	1 Brace at Jt(s): 33, 34, 35, 36, 37, 38

REACTIONS	(lb/size)
	2=462/0-3-0, 19=889/2-3-8, 20=367/0-3-8, 28=1783/0-3-8
Max Horiz	2=238 (LC 12)
Max Uplift	2=-12 (LC 8), 19=-35 (LC 9), 20=-108 (LC 13), 28=-43 (LC 12)
Max Grav	2=621 (LC 54), 19=1164 (LC 57), 20=592 (LC 49), 28=2250 (LC 3)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/22, 2-3=-925/4, 3-4=-356/40, 4-5=-79/287, 5-6=-694/79, 6-7=-1158/112, 7-9=-1159/113, 9-10=-840/99, 10-11=-840/99, 11-12=-840/99, 12-13=-843/99, 13-14=-980/98, 14-15=-1058/83, 15-16=-1066/55, 16-17=-1002/47, 17-18=0/47, 17-19=-1184/26
BOT CHORD	2-32=-126/789, 31-32=-126/789, 28-31=-61/258, 26-28=-207/56, 24-26=-80/1281, 22-24=-80/1281, 21-22=-5/0, 20-21=-5/0, 19-20=-5/0

WEBS	
	3-32=0/245, 3-31=-603/94, 4-31=0/382, 6-26=-880/82, 6-25=-91/1070, 7-25=-520/155, 9-25=-236/22, 9-24=0/456, 9-33=-762/103, 33-34=-753/98, 34-35=-774/103, 22-35=-776/107, 13-22=0/268, 22-36=-29/1025, 36-37=-22/994, 37-38=-23/1002, 17-38=-27/1006, 4-28=-571/79, 5-26=-5/1231, 5-28=-1741/68, 10-33=-6/19, 11-34=-29/7, 12-35=-6/7, 14-36=-11/62, 15-37=-150/71, 21-37=-147/72, 16-38=-292/77, 20-38=-309/86

- NOTES**
- 2x6 SP No.2 bearing block 12" long at jt. 28 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.3.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.

- All plates are 2x4 MT20 unless otherwise indicated.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 2, 35 lb uplift at joint 19, 43 lb uplift at joint 28 and 108 lb uplift at joint 20.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 13, 2022

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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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



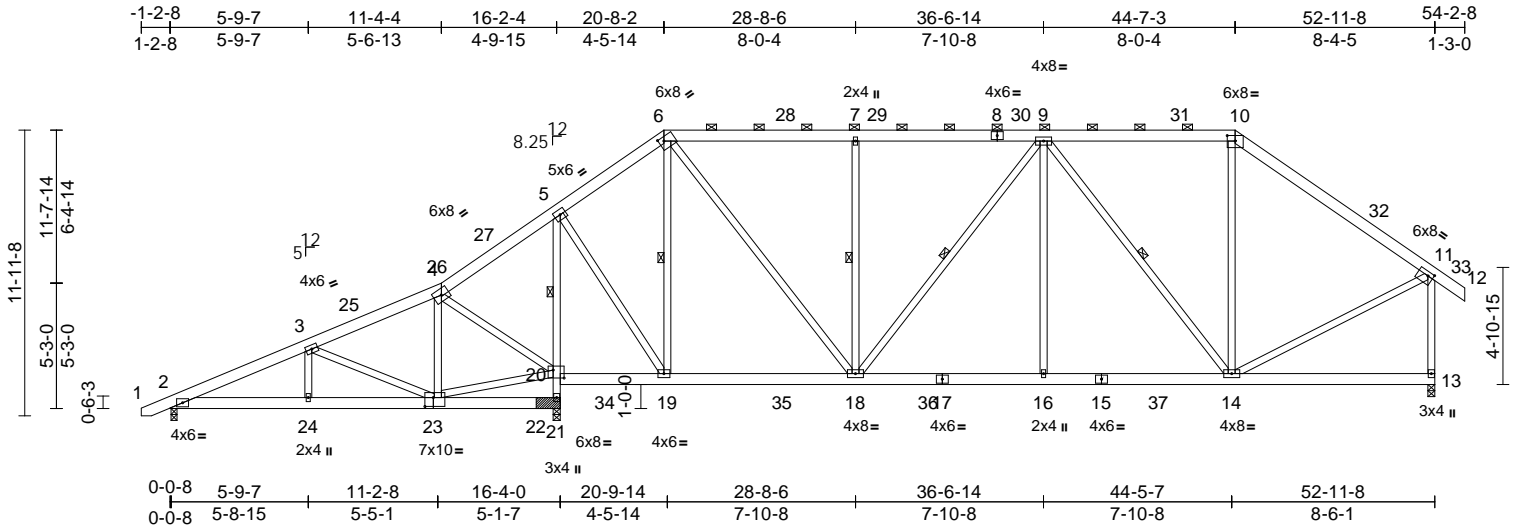
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T2	Truss Type Piggyback Base	Qty 4	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514623
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:38
ID:WTPNSTmXrjC4PXPfVri_Zz8zYe-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCdoiJ4zJC?f

Page: 1



Scale = 1:96.5

Plate Offsets (X, Y): [6:0-2-8,0-2-0], [10:0-4-0,0-2-12], [11:0-2-12,0-2-0], [20:0-5-8,0-4-0], [23:0-4-4,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.07	14-16	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.14	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 458 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 21-5:2x4 SP No.2
WEBS 2x4 SP No.2

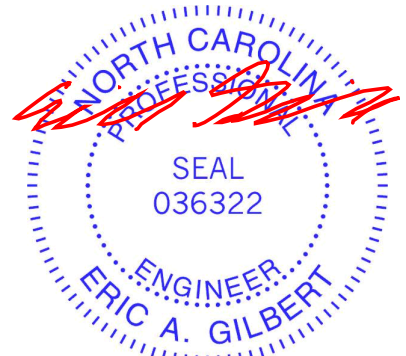
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 3-10-14 oc bracing. Except:
1 Row at midpt 5-20
WEBS 1 Row at midpt 6-19, 7-18, 9-18, 9-14

REACTIONS (lb/size)
2=469/0-3-0, 13=1237/0-3-8, 21=1795/0-3-8
Max Horiz 2=238 (LC 12)
Max Uplift 2=-11 (LC 8), 13=-1 (LC 8), 21=-41 (LC 12)
Max Grav 2=631 (LC 54), 13=1526 (LC 55), 21=2245 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-978/1, 3-4=-407/35, 4-5=-75/294, 5-6=-758/72, 6-7=-1276/112, 7-9=-1275/113, 9-10=-980/96, 10-11=-1298/83, 11-12=0/47, 11-13=-1453/43
BOT CHORD 2-24=-136/842, 21-24=-136/842, 20-21=-2198/67, 5-20=-1781/55, 19-20=-216/61, 18-19=-65/616, 16-18=-66/1424, 14-16=-66/1424, 13-14=-11/41
WEBS 3-24=0/227, 3-23=-602/99, 4-23=0/357, 20-23=-52/315, 4-20=-563/72, 5-19=-8/1260, 6-19=-854/84, 6-18=-95/1120, 7-18=-513/155, 9-18=-271/25, 9-16=0/439, 9-14=-759/127, 10-14=0/340, 11-14=0/1077

- 2x6 SP No.2 bearing block 12" long at jt. 21 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.3.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 41 lb uplift at joint 21 and 1 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



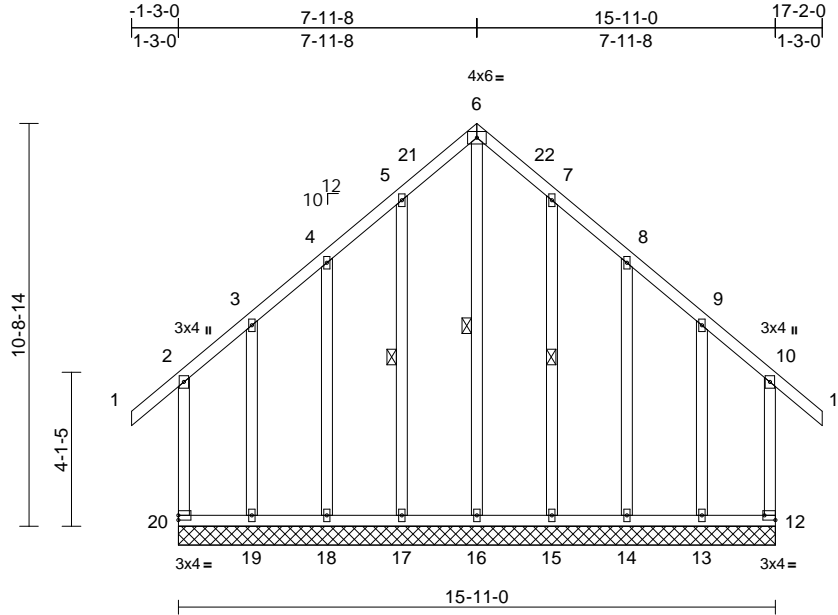
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T2E	Truss Type Common Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514624
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:39
ID:hnOF3nHRGR9mcOLzS57JN7z8zZG-RfC?PsB70Hq3NSgPqnL8w3uTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:61.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0											
											Weight: 147 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-16, 5-17, 7-15
REACTIONS	(lb/size)
	12=118/15-11-0, 13=102/15-11-0, 14=122/15-11-0, 15=124/15-11-0, 16=115/15-11-0, 17=124/15-11-0, 18=122/15-11-0, 19=102/15-11-0, 20=118/15-11-0
Max Horiz	20=149 (LC 10)
Max Uplift	12=208 (LC 9), 13=217 (LC 8), 14=50 (LC 12), 15=52 (LC 13), 17=52 (LC 12), 18=50 (LC 13), 19=218 (LC 9), 20=209 (LC 8)
Max Grav	12=320 (LC 26), 13=380 (LC 27), 14=217 (LC 26), 15=243 (LC 27), 16=296 (LC 29), 17=243 (LC 26), 18=218 (LC 27), 19=381 (LC 26), 20=321 (LC 27)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-20=-213/136, 1-2=0/54, 2-3=-143/159, 3-4=-52/133, 4-5=-57/182, 5-6=-42/210, 6-7=-42/210, 7-8=-56/182, 8-9=-52/132, 9-10=-142/159, 10-11=0/54, 10-12=-212/135
BOT CHORD	19-20=-74/74, 18-19=-74/74, 17-18=-74/74, 16-17=-74/74, 15-16=-74/74, 14-15=-74/74, 13-14=-74/74, 12-13=-74/74

WEBS 6-16=-221/0, 5-17=-137/72, 4-18=-125/72, 3-19=-186/143, 7-15=-137/72, 8-14=-125/72, 9-13=-185/143

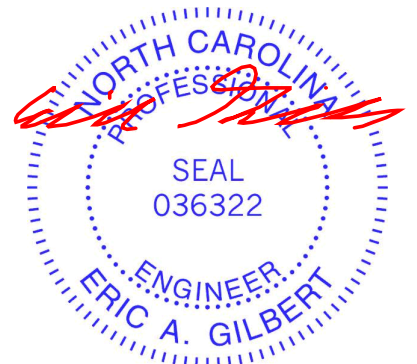
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 20, 208 lb uplift at joint 12, 52 lb uplift at joint 17, 50 lb uplift at joint 18, 218 lb uplift at joint 19, 52 lb uplift at joint 15, 50 lb uplift at joint 14 and 217 lb uplift at joint 13.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



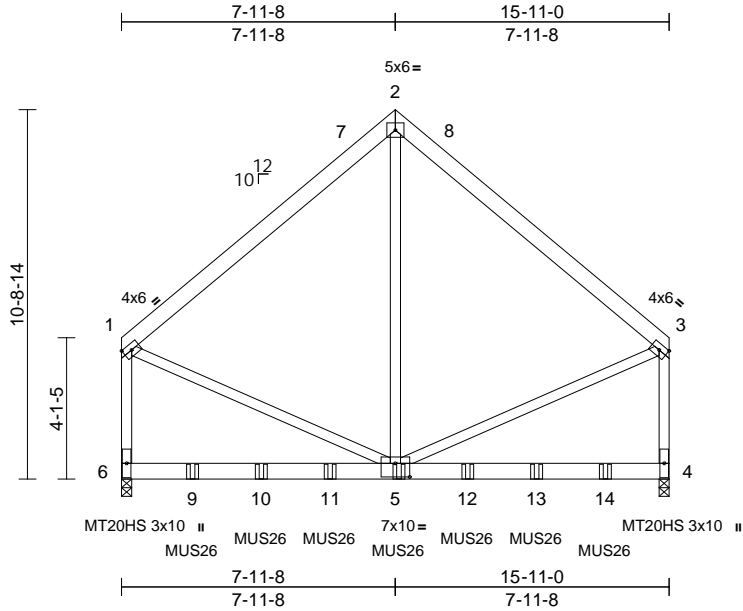
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T2G	Truss Type Common Girder	Qty 1	Ply 3	Brad Cummings- Hoener Job. Job Reference (optional)	I52514625
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:39
ID:Ssx7t8nnMKSoerY2wtA4_z8zYc-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.10	5-6	>999	240	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.20	5-6	>960	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 408 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS or 2x6 SP M 31
 WEBS 2x4 SP No.2

BRACING

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

REACTIONS

(lb/size) 4=4263/0-3-8, 6=4177/0-3-8
 Max Horiz 6=126 (LC 9)
 Max Grav 4=5033 (LC 25), 6=4933 (LC 26)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-3469/0, 2-3=-3469/0, 1-6=-3460/0, 3-4=-3460/0
 BOT CHORD 5-6=-94/268, 4-5=0/176
 WEBS 1-5=0/2692, 3-5=0/2690, 2-5=0/3855

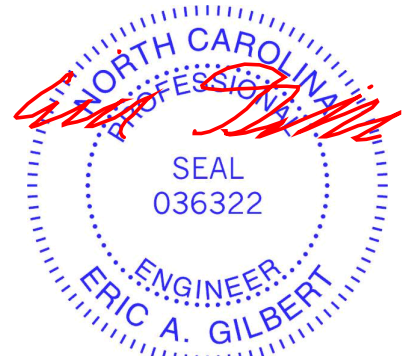
NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-40, 2-3=-40, 4-6=-20
 Concentrated Loads (lb)
 Vert: 5=-1072 (B), 9=-1072 (B), 10=-1072 (B), 11=-1072 (B), 12=-1072 (B), 13=-1072 (B), 14=-1072 (B)



June 13, 2022

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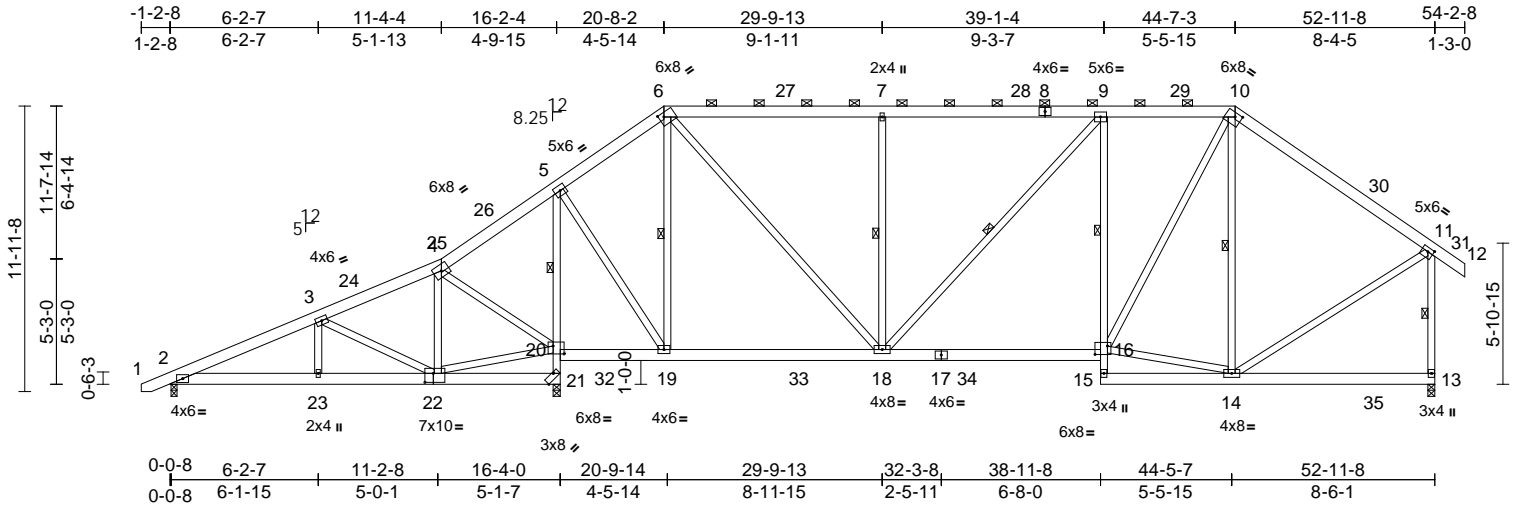
818 Soundside Road
 Edenton, NC 27932

Job Hoener	Truss T3	Truss Type Piggyback Base	Qty 7	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514626
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:40
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Page: 1



Scale = 1:96.5

Plate Offsets (X, Y): [6:0-2-8,0-2-0], [10:0-3-4,0-2-0], [11:0-2-12,0-2-0], [16:0-6-4,0-4-4], [20:0-5-8,0-4-0], [21:0-5-7,Edge], [22:0-4-4,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.10	16-18	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.19	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 469 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 21-5,9-15:2x4 SP No.2
WEBS 2x4 SP No.2

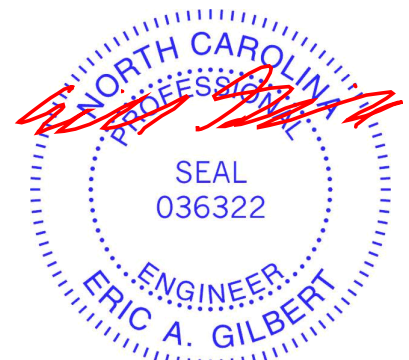
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-8 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 3-10-15 oc bracing. Except:
1 Row at midpt 5-20, 9-16
WEBS 1 Row at midpt 6-19, 7-18, 9-18, 10-14, 11-13

REACTIONS (lb/size)
2=457/0-3-0, 13=1232/0-3-8, 21=1811/0-3-8
Max Horiz 2=238 (LC 12)
Max Uplift 2=-7 (LC 8), 21=-43 (LC 12)
Max Grav 2=619 (LC 54), 13=1524 (LC 57), 21=2240 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-917/0, 3-4=-369/27, 4-5=-78/330, 5-6=-725/64, 6-7=-1287/114, 7-9=-1286/114, 9-10=-1287/123, 10-11=-1160/83, 11-12=0/47, 11-13=-1445/42
BOT CHORD 2-23=-127/781, 21-23=-127/781, 20-21=-2192/69, 5-20=-1785/63, 19-20=-226/70, 18-19=-59/595, 16-18=-50/1299, 15-16=0/63, 9-16=-476/191, 14-15=-77/24, 13-14=-7/31
WEBS 3-23=0/233, 3-22=-586/96, 4-22=0/363, 20-22=-51/279, 4-20=-559/71, 5-19=-15/1268, 6-19=-865/96, 6-18=-99/1099, 7-18=-617/188, 9-18=-91/26, 14-16=0/890, 10-16=-133/974, 10-14=-563/89, 11-14=0/979

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2 and 43 lb uplift at joint 21.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 13, 2022

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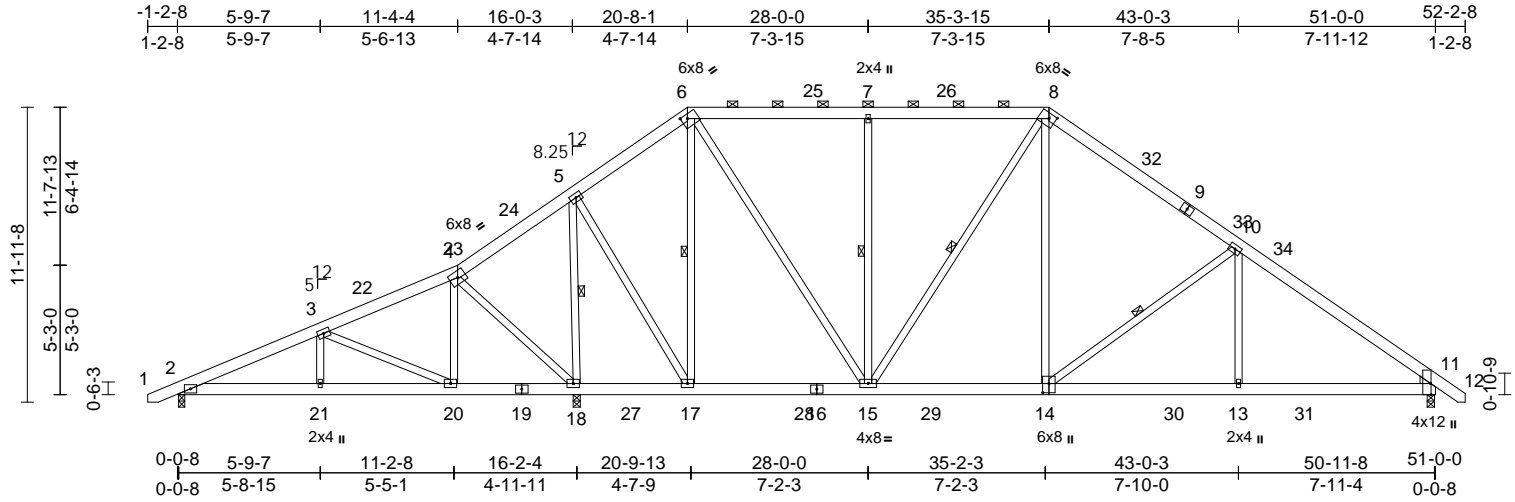
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T4	Truss Type Piggyback Base	Qty 4	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514627
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:41
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Page: 1



Scale = 1:93.4

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

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	0.57	Vert(LL)	-0.07	14-15	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.13	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
										Weight: 421 lb	FT = 20%	

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
WEDGE	Right: 2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-9-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 17-18.
WEBS	1 Row at midpt 5-18, 6-17, 7-15, 8-15, 10-14
REACTIONS (lb/size)	
	2=450/0-3-0, 11=1102/0-3-8, 18=1731/0-3-8
Max Horiz	2=238 (LC 11)
Max Uplift	2=-26 (LC 8), 11=-48 (LC 13), 18=-33 (LC 12)
Max Grav	2=613 (LC 54), 11=1464 (LC 27), 18=2192 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/21, 2-3=-936/38, 3-4=-342/75, 4-5=-41/305, 5-6=-621/129, 6-7=-1011/114, 7-8=-1011/114, 8-10=-1459/114, 10-11=-2053/61, 11-12=0/21
BOT CHORD	2-21=-82/803, 20-21=-82/803, 18-20=-81/269, 17-18=-258/157, 15-17=-50/558, 13-15=0/1564, 11-13=0/1564
WEBS	3-21=0/240, 3-20=-616/98, 4-20=0/380, 4-18=-568/84, 5-18=-1686/25, 5-17=0/1202, 6-17=-878/29, 6-15=-47/999, 7-15=-639/161, 8-15=-386/53, 8-14=-15/671, 10-14=-707/176, 10-13=0/356

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 33 lb uplift at joint 18 and 48 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



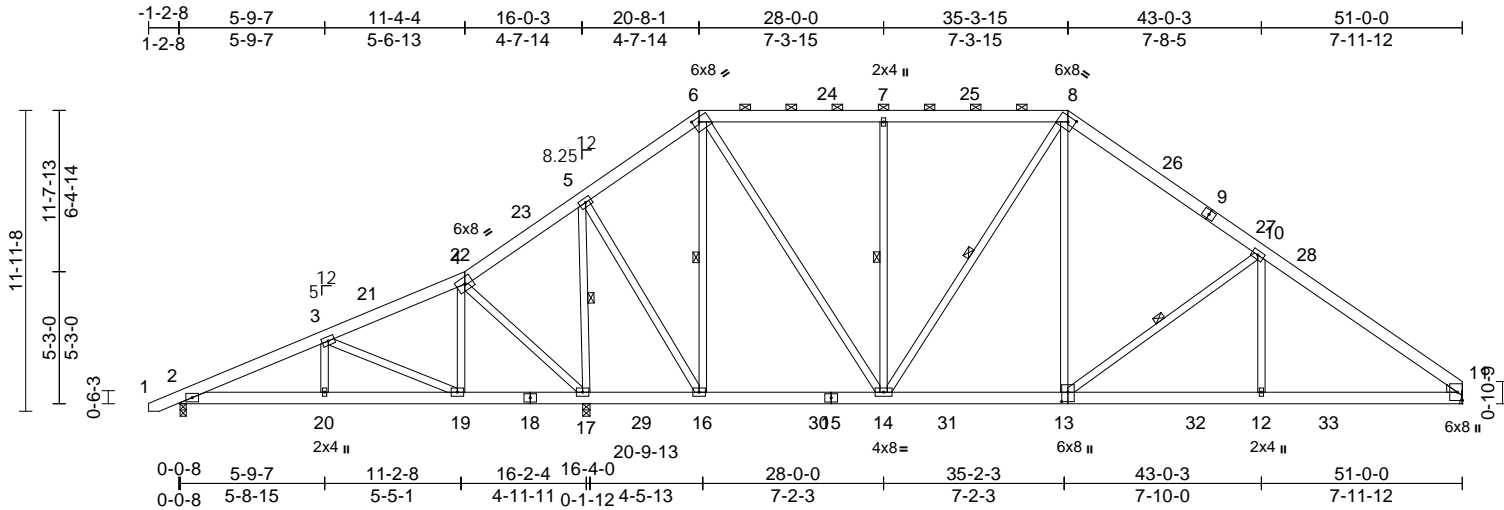
June 13, 2022

Job Hoener	Truss T4A	Truss Type Piggyback Base	Qty 2	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514628
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:41
ID:O?19COivVQLpw6u1CfnEz8zZ6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:91.6

Plate Offsets (X, Y): [6:0-3-0,0-2-0], [8:0-3-4,0-2-8], [13:0-4-8,0-3-0]

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	0.42	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 417 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
WEDGE	Right: 2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-8-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 16-17.
WEBS	1 Row at midpt 5-17, 6-16, 7-14, 8-14, 10-13
REACTIONS (lb/size)	
	2=448/0-3-0, 11=1055/ Mechanical, 17=1736/0-3-8
Max Horiz	2=236 (LC 9)
Max Uplift	2=-25 (LC 8), 11=-30 (LC 13), 17=-33 (LC 12)
Max Grav	2=612 (LC 54), 11=1404 (LC 57), 17=2199 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/21, 2-3=-933/36, 3-4=-339/73, 4-5=-43/310, 5-6=-620/127, 6-7=-1013/113, 7-8=-1013/113, 8-10=-1467/114, 10-11=-2047/60
BOT CHORD	2-20=-84/801, 19-20=-84/801, 17-19=-83/261, 16-17=-260/151, 14-16=-52/552, 12-14=0/1586, 11-12=0/1586
WEBS	3-20=0/240, 3-19=-613/98, 4-19=0/380, 4-17=-567/84, 5-17=-1694/26, 5-16=0/1209, 6-16=-883/30, 6-14=-47/1006, 7-14=-639/161, 8-14=-391/54, 8-13=-18/680, 10-13=-724/179, 10-12=0/359

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2, 33 lb uplift at joint 17 and 30 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Brad Cummings- Hoener Job.
Hoener	T4E	Piggyback Base Girder	1	1	I52514629 Job Reference (optional)

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 2

WEBS 5-44=-41/54, 5-56=-140/91, 55-56=-130/88,
42-55=-140/91, 8-42=-65/147, 8-54=-166/91,
53-54=-157/86, 39-53=-164/90,
11-39=-51/105, 11-52=-196/92,
51-52=-202/96, 36-51=-201/95,
14-36=-132/19, 14-50=-278/57,
49-50=-336/74, 33-49=-343/74,
16-33=-145/47, 33-48=-737/192,
47-48=-739/193, 19-47=-747/194,
19-29=-1348/330, 19-28=-605/2291,
20-28=-121/225, 21-28=-1672/537,
21-26=-475/1690, 23-26=-1067/365,
23-25=-280/1061, 18-47=-361/94,
31-47=-370/95, 17-48=-57/73, 32-48=-58/72,
15-49=-208/48, 34-49=-201/47,
35-50=-20/67, 13-51=-132/44,
37-51=-133/46, 12-52=-82/65, 38-52=-76/66,
10-53=-14/17, 9-54=-147/77, 41-54=-159/84,
7-55=-32/14, 6-56=-172/78, 43-56=-203/87,
4-45=-26/26, 3-46=-189/73

Uniform Loads (lb/ft)
Vert: 1-8=-40, 8-14=-40, 14-20=-50, 20-24=-40,
2-24=-20
Concentrated Loads (lb)
Vert: 64=-237 (F), 66=-237 (F), 67=-237 (F), 68=-237
(F), 69=-237 (F), 70=-237 (F), 71=-237 (F), 72=-237
(F), 73=-237 (F), 74=-238 (F)

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust)
Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2, 61 lb uplift at joint 44, 59 lb uplift at joint 42, 60 lb uplift at joint 39, 61 lb uplift at joint 36, 237 lb uplift at joint 33, 531 lb uplift at joint 29, 629 lb uplift at joint 24, 160 lb uplift at joint 31, 7 lb uplift at joint 32, 20 lb uplift at joint 34, 39 lb uplift at joint 35, 21 lb uplift at joint 37, 50 lb uplift at joint 38, 59 lb uplift at joint 41, 44 lb uplift at joint 43, 8 lb uplift at joint 45 and 38 lb uplift at joint 46.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 32-1-4 from the left end to 50-1-4 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



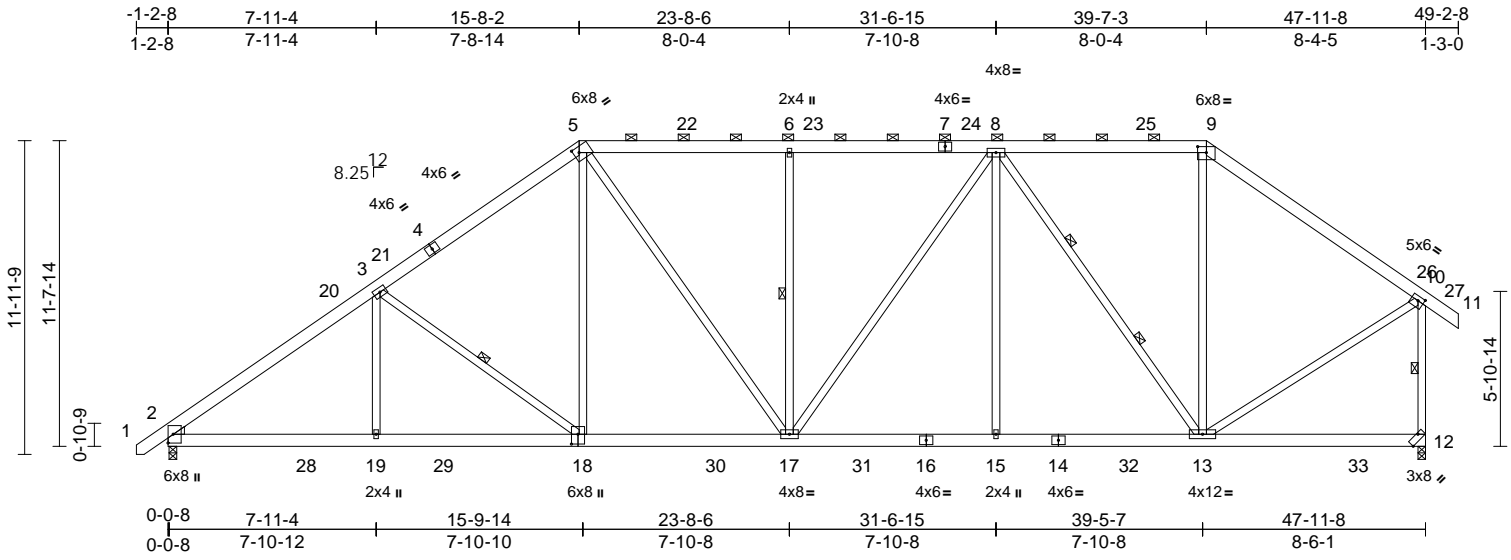
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T5	Truss Type Piggyback Base	Qty 5	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514630
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 1



Scale = 1:87.9

Plate Offsets (X, Y): [5:0-2-8,0-2-8], [9:0-4-0,0-2-12], [10:0-2-12,0-2-0], [12:0-5-7,Edge], [18:0-4-8,0-3-0]

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	0.84	Vert(LL)	-0.13	17-18	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.24	17-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.09	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 411 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-8 max.): 5-9.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-18, 6-17, 10-12
 WEBS 2 Rows at 1/3 pts 8-13

REACTIONS (lb/size) 2=1579/0-3-8, 12=1624/0-3-8
 Max Horiz 2=237 (LC 12)
 Max Uplift 2=3 (LC 12)
 Max Grav 2=2060 (LC 3), 12=2093 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/21, 2-3=-3044/0, 3-5=-2471/64,
 5-6=-2216/88, 6-8=-2216/88, 8-9=-1276/63,
 9-10=-1655/37, 10-11=0/47, 10-12=-1965/0

BOT CHORD 2-19=-114/2357, 17-19=-114/2357,
 15-17=-70/2017, 13-15=-70/2017,
 12-13=-8/30

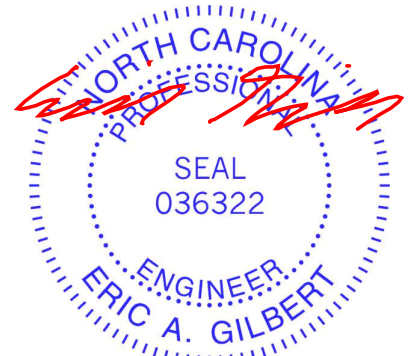
WEBS 3-19=0/344, 3-18=-671/180, 5-18=-12/671,
 5-17=-164/570, 6-17=-510/160,
 8-17=-39/391, 8-15=0/440, 8-13=-1326/131,
 9-13=0/548, 10-13=-3/1494

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES

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



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



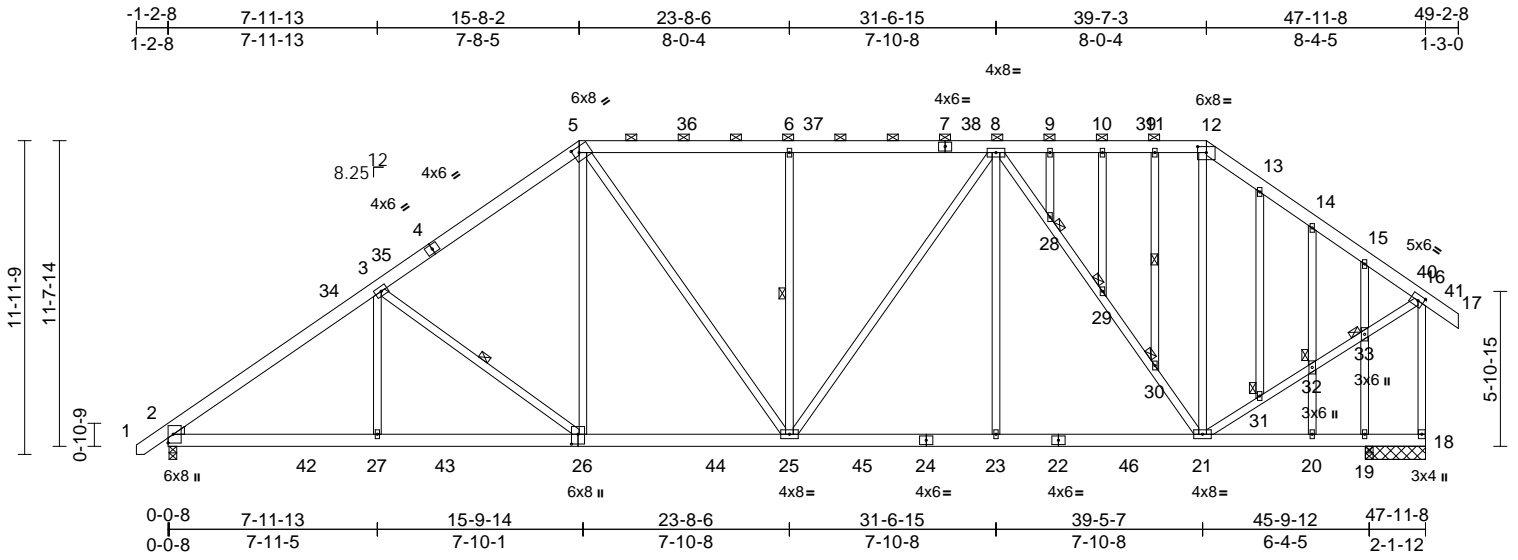
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T5A	Truss Type Piggyback Base	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514631
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 1



Scale = 1:87.9
Plate Offsets (X, Y): [5:0-2-12,0-2-8], [12:0-4-0,0-2-12], [16:0-2-8,0-2-8], [26:0-4-8,0-3-0]

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	1.00	Vert(LL)	-0.13	25-26	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.23	25-26	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.09	19	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 469 lb	FT = 20%

LUMBER	WEBS	NOTES
TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2 OTHERS 2x4 SP No.2 WEDGE Left: 2x4 SP No.2	3-27=0/346, 3-26=-674/180, 5-26=-12/676, 5-25=-165/540, 6-25=-517/160, 8-25=-35/409, 8-23=0/456, 8-28=-1363/110, 28-29=-1347/105, 29-30=-1368/110, 21-30=-1369/114, 12-21=0/507, 21-31=-34/1434, 31-32=-27/1400, 32-33=-28/1407, 16-33=-32/1408, 9-28=-6/22, 10-29=-31/7, 11-30=-5/8, 13-31=-11/78, 14-32=-153/71, 20-32=-148/72, 15-33=-325/74, 19-33=-340/83	1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10 5) Unbalanced snow loads have been considered for this design. 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads. 7) Provide adequate drainage to prevent water ponding. 8) All plates are 2x4 MT20 unless otherwise indicated. 9) Gable studs spaced at 2-0-0 oc. 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2, 40 lb uplift at joint 18 and 102 lb uplift at joint 19.
 - 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

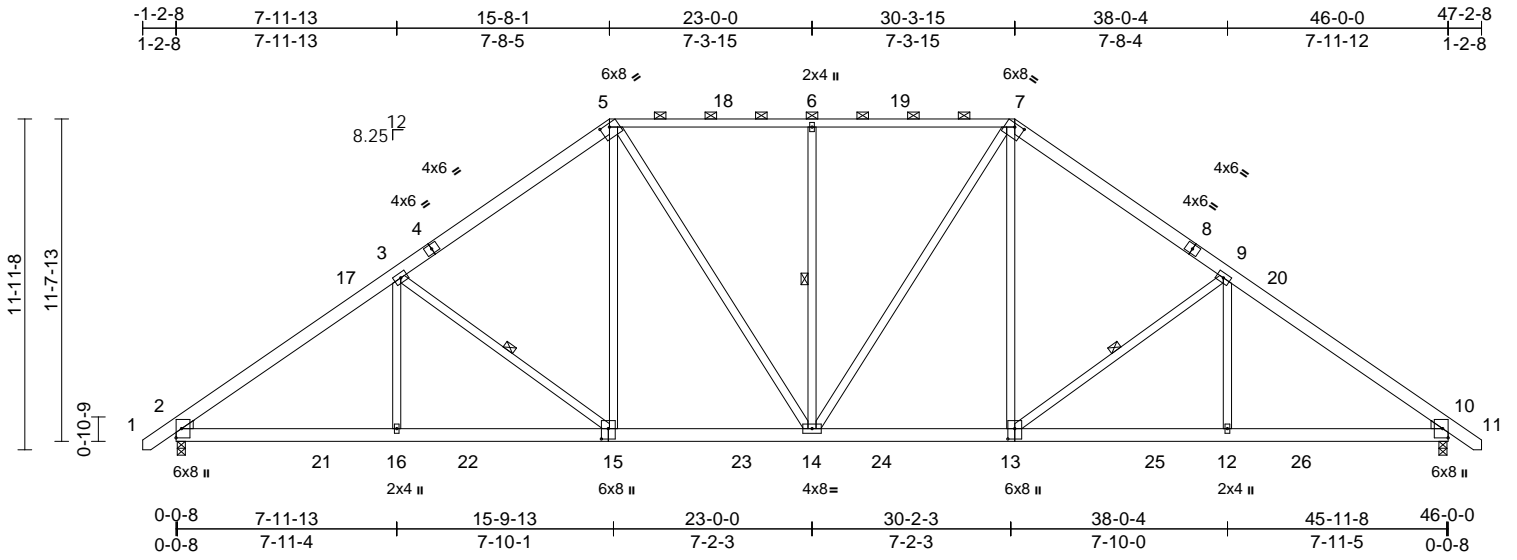


Job Hoener	Truss T6	Truss Type Piggyback Base	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514632
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:46
ID:HHqqi03CyPLXvNpTmFnZVqz8zYF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC7f

Page: 1



Scale = 1:83.3

Plate Offsets (X, Y): [5:0-4-0,0-1-8], [7:0-4-0,0-1-8], [13:0-4-8,0-3-0], [15:0-4-8,0-3-0]

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	0.79	Vert(LL)	-0.12	14-15	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.22	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.10	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 358 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 5-7:2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins, except 2-0-0 oc purlins (3-9-12 max.); 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-15, 6-14, 9-13

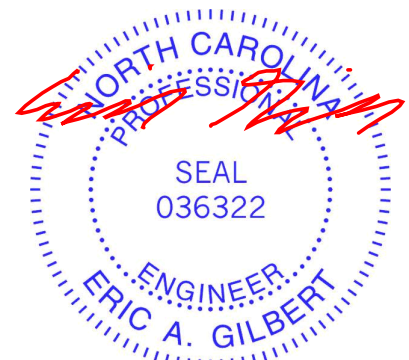
REACTIONS (lb/size) 2=1493/0-3-8, 10=1493/0-3-8
Max Horiz 2=224 (LC 11)
Max Uplift 2=-11 (LC 12), 10=-11 (LC 13)
Max Grav 2=1958 (LC 3), 10=1958 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-2876/1, 3-5=-2293/47, 5-6=-1990/42, 6-7=-1990/42, 7-9=-2293/47, 9-10=-2876/2, 10-11=0/21
BOT CHORD 2-16=-40/2273, 14-16=-40/2273, 12-14=0/2224, 10-12=0/2224
WEBS 3-16=0/352, 3-15=-692/183, 5-15=-18/667, 5-14=-135/486, 6-14=-604/156, 7-14=-135/486, 7-13=-18/667, 9-13=-693/183, 9-12=0/352

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2 and 11 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

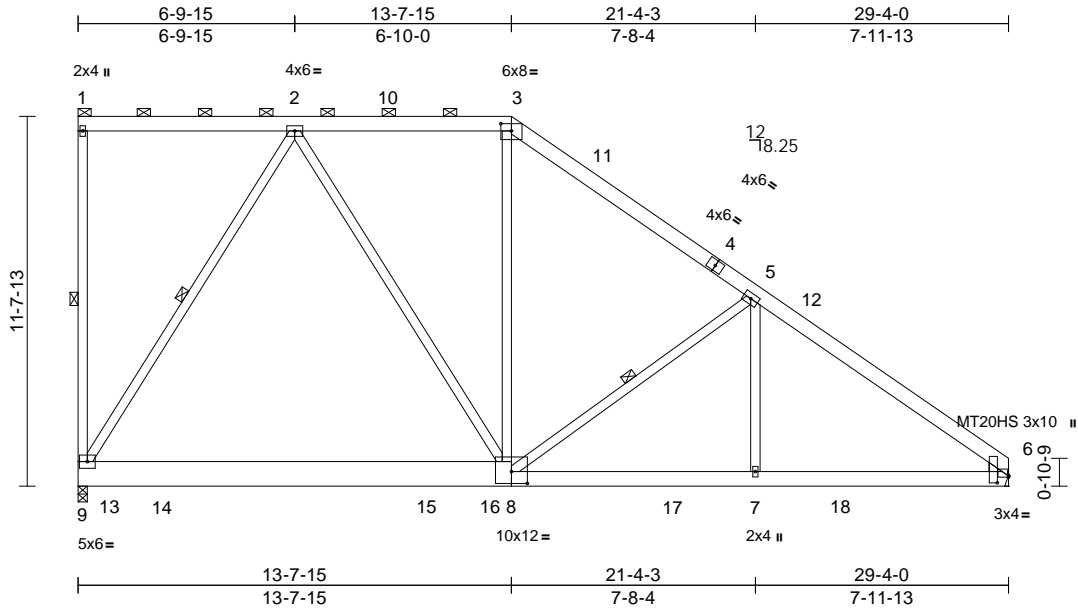
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T6B	Truss Type Piggyback Base	Qty 7	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514634
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:47
ID:9mbNODNjHcFR4NYL_gA5Yez9_?X-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:72.6

Plate Offsets (X, Y): [3:0-4-0,0-2-12], [6:Edge,0-0-7], [6:0-2-10,0-4-4], [8:0-6-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	8-9	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 258 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS *Except* 8-6:2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

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

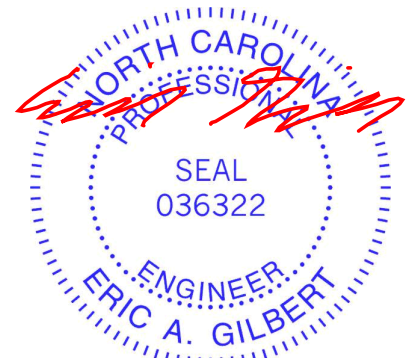
REACTIONS (lb/size) 6=962/ Mechanical, 9=1161/0-3-8 Max Horiz 9=338 (LC 13) Max Uplift 9=-89 (LC 8) Max Grav 6=1282 (LC 26), 9=1451 (LC 32)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-934/81, 3-5=-1258/40, 5-6=-1786/0
BOT CHORD 7-9=-15/1370, 6-7=0/1367
WEBS 1-9=-195/47, 3-8=0/347, 5-7=0/285, 2-9=-1134/123, 2-8=-59/799, 5-8=-659/192

- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-50, 3-6=-40, 9-13=-20, 13-16=-40 (F=-20), 6-16=-20

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10



June 13, 2022

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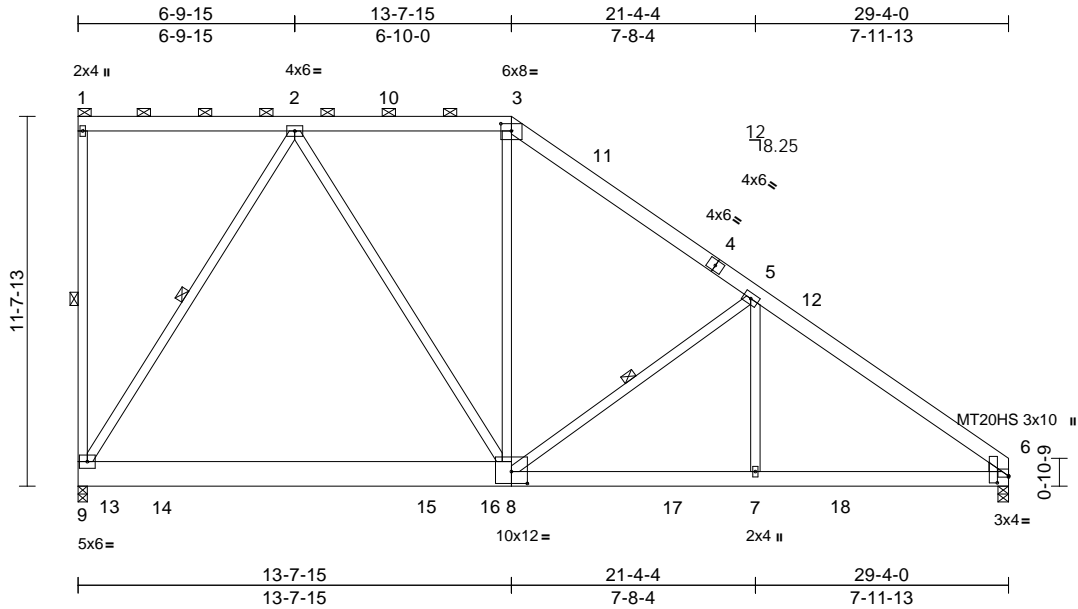
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T6C	Truss Type Piggyback Base	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514635
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:47
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Page: 1



Scale = 1:72.6
Plate Offsets (X, Y): [3:0-4-0,0-2-12], [6:Edge,0-0-7], [6:0-2-10,0-4-4], [8:0-6-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	8-9	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 258 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS *Except* 8-6:2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

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

REACTIONS
(lb/size) 6=959/0-4-0, 9=1158/0-3-8
Max Horiz 9=338 (LC 13)
Max Uplift 9=89 (LC 8)
Max Grav 6=1278 (LC 26), 9=1447 (LC 32)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-929/81, 3-5=-1251/40, 5-6=-1771/0
BOT CHORD 7-9=-15/1353, 6-7=0/1350
WEBS 1-9=-195/47, 3-8=0/344, 5-7=0/283, 2-9=-1129/123, 2-8=-59/794, 5-8=-645/192

- Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 9.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-50, 3-6=-40, 9-13=-20, 13-16=-40 (F=-20), 6-16=-20

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10



June 13, 2022

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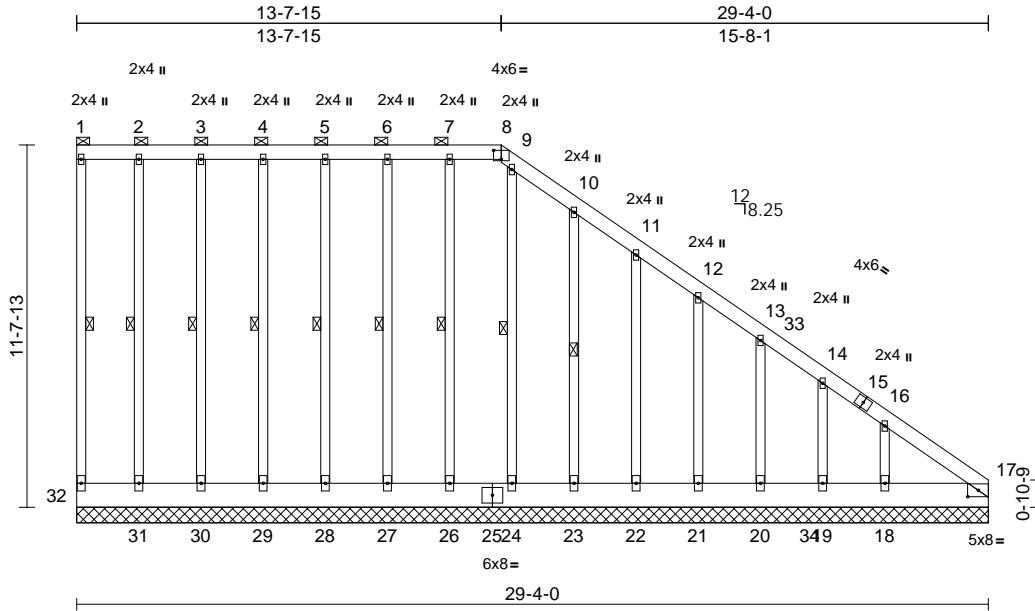
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T6E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514636
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:48
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Page: 1



Scale = 1:74.1

Plate Offsets (X, Y): [8:0-3-0,0-3-7], [17:0-4-1,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	15.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 364 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP 2250F 1.9E or 2x10 SP DSS or 2x10 SP SS
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-32, 2-31, 3-30, 4-29, 5-28, 6-27, 7-26, 9-24, 10-23

REACTIONS (lb/size)
17=82/29-4-0, 18=202/29-4-0, 19=91/29-4-0, 20=126/29-4-0, 21=119/29-4-0, 22=120/29-4-0, 23=120/29-4-0, 24=126/29-4-0, 26=140/29-4-0, 27=141/29-4-0, 28=140/29-4-0, 29=140/29-4-0, 30=142/29-4-0, 31=142/29-4-0, 32=55/29-4-0
Max Horiz 32=334 (LC 13)
Max Uplift 17=-12 (LC 11), 18=-91 (LC 13), 19=-32 (LC 13), 20=-42 (LC 13), 21=-41 (LC 13), 22=-42 (LC 13), 23=-43 (LC 13), 24=-20 (LC 13), 26=-12 (LC 8), 27=-14 (LC 9), 28=-13 (LC 9), 29=-12 (LC 8), 30=-14 (LC 8), 31=-10 (LC 9), 32=-7 (LC 8)

Max Grav 17=218 (LC 13), 18=279 (LC 26), 19=142 (LC 26), 20=245 (LC 38), 21=248 (LC 38), 22=251 (LC 38), 23=253 (LC 38), 24=201 (LC 26), 26=222 (LC 33), 27=226 (LC 33), 28=224 (LC 33), 29=225 (LC 33), 30=226 (LC 33), 31=231 (LC 33), 32=87 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-32=-62/15, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=-38/8, 9-10=-55/41, 10-11=-92/58, 11-12=-143/72, 12-13=-194/87, 13-14=-245/98, 14-16=-289/109, 16-17=-383/155
BOT CHORD 31-32=-120/334, 30-31=-120/334, 29-30=-120/334, 28-29=-120/334, 27-28=-120/334, 26-27=-120/334, 24-26=-120/334, 23-24=-120/334, 22-23=-120/334, 21-22=-120/334, 20-21=-120/334, 19-20=-120/334, 18-19=-120/334, 17-18=-120/334
WEBS 2-31=-151/36, 3-30=-157/38, 4-29=-152/36, 5-28=-152/37, 6-27=-155/38, 7-26=-150/36, 9-24=-118/44, 10-23=-157/67, 11-22=-154/66, 12-21=-155/65, 13-20=-137/66, 14-19=-104/55, 16-18=-194/118

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



June 13, 2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T6E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514636
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:48
ID:hsVzL155FKj6mrY2RNLG7Sz8zYC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 32, 12 lb uplift at joint 17, 10 lb uplift at joint 31, 14 lb uplift at joint 30, 12 lb uplift at joint 29, 13 lb uplift at joint 28, 14 lb uplift at joint 27, 12 lb uplift at joint 26, 20 lb uplift at joint 24, 43 lb uplift at joint 23, 42 lb uplift at joint 22, 41 lb uplift at joint 21, 42 lb uplift at joint 20, 32 lb uplift at joint 19 and 91 lb uplift at joint 18.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



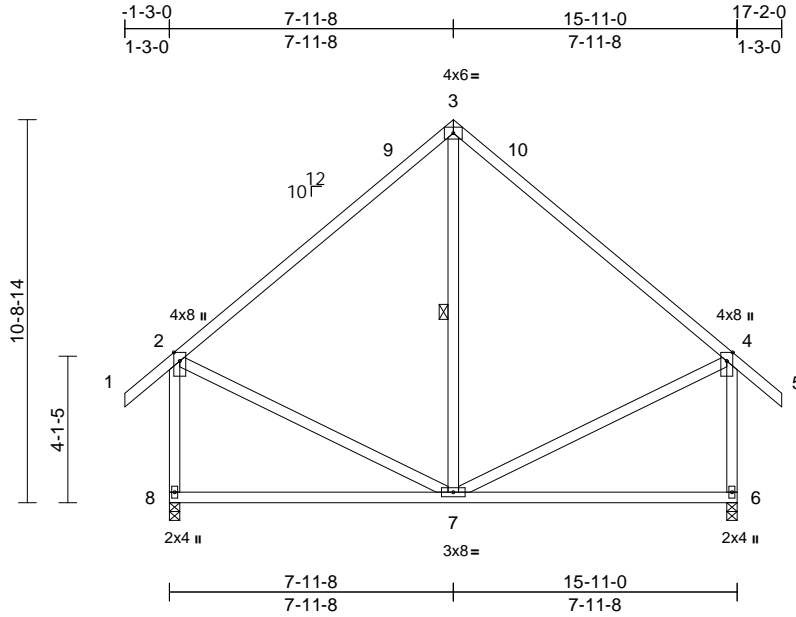
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T7	Truss Type Common	Qty 2	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514637
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:48
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Page: 1



Scale = 1:64.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.15	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S							
BCDL	10.0									Weight: 111 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

WEBS 2x4 SP No.2

BRACING

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

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

WEBS 1 Row at midpt 3-7

REACTIONS (lb/size) 6=525/0-3-8, 8=525/0-3-8

Max Horiz 8=-149 (LC 10)

Max Uplift 6=-15 (LC 12), 8=-15 (LC 13)

Max Grav 6=709 (LC 2), 8=709 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-492/100, 3-4=-492/100,

4-5=0/54, 2-8=-640/52, 4-6=-640/52

BOT CHORD 7-8=-146/196, 6-7=-31/68

WEBS 3-7=-24/193, 2-7=-14/275, 4-7=-14/275

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 8 and 15 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



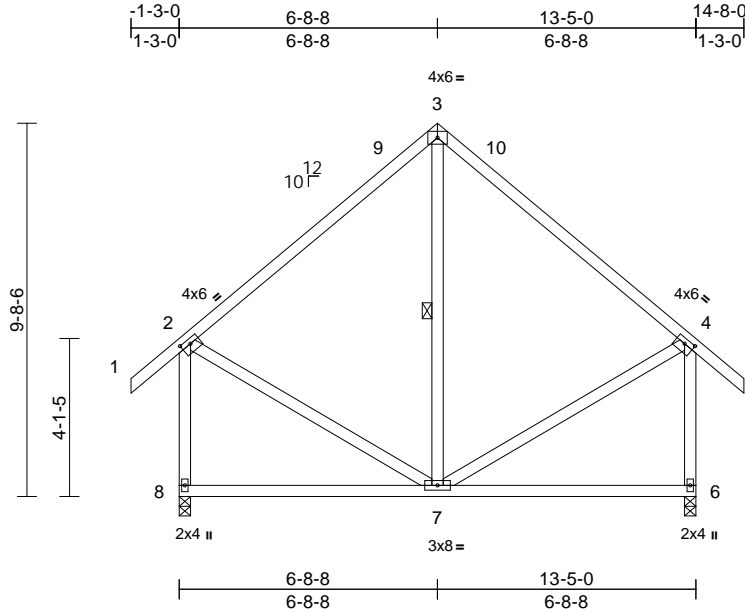
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T8	Truss Type Common	Qty 2	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	I52514638
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:48
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Page: 1



Scale = 1:59.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.08	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 97 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-7

REACTIONS

(lb/size) 6=450/0-3-8, 8=450/0-3-8
 Max Horiz 8=-128 (LC 10)
 Max Uplift 6=-17 (LC 12), 8=-17 (LC 13)
 Max Grav 6=609 (LC 2), 8=609 (LC 2)

FORCES

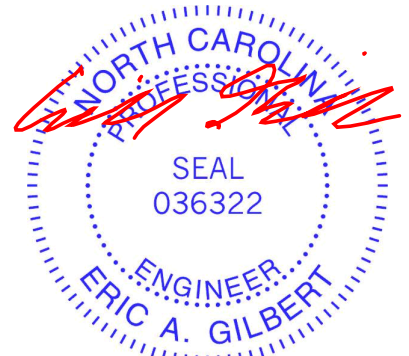
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/54, 2-3=-392/90, 3-4=-392/90, 4-5=0/54, 2-8=-551/48, 4-6=-551/48
 BOT CHORD 7-8=-120/158, 6-7=-19/42
 WEBS 3-7=-47/142, 2-7=-11/236, 4-7=-11/236

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 8 and 17 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



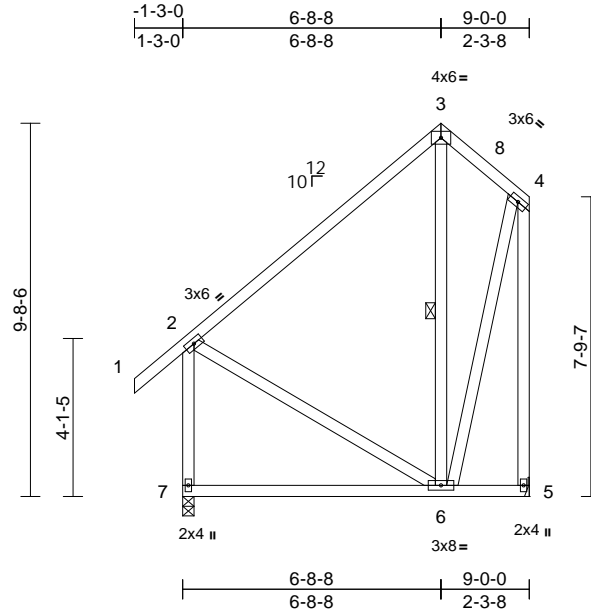
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T8A	Truss Type Common	Qty 10	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514639
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:49
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Page: 1



Scale = 1:59.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.12	6-7	>888	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 86 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 3-6

REACTIONS (lb/size)	5=257/ Mechanical, 7=322/0-3-8
Max Horiz	7=165 (LC 12)
Max Uplift	5=-109 (LC 12)
Max Grav	5=354 (LC 26), 7=439 (LC 2)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/54, 2-3=-194/26, 3-4=-120/50, 2-7=-385/0, 4-5=-369/98
BOT CHORD	6-7=-165/82, 5-6=0/0
WEBS	3-6=-141/61, 2-6=-28/170, 4-6=-67/275

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Standard



June 13, 2022

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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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

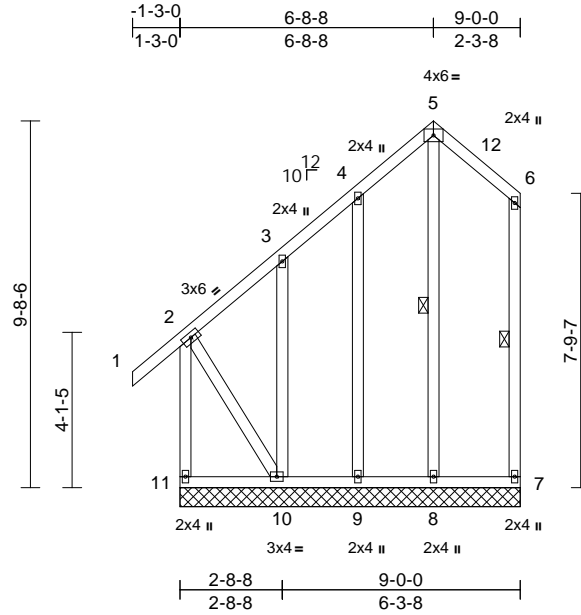
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T8AE	Truss Type Common Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514640
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:49
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Page: 1



Scale = 1:60.9

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
										Weight: 90 lb	FT = 20%	

LUMBER

TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING

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

REACTIONS

(lb/size)	7=59/9-0-0, 8=130/9-0-0, 9=116/9-0-0, 10=135/9-0-0, 11=139/9-0-0
Max Horiz	11=165 (LC 12)
Max Uplift	7=-29 (LC 13), 9=60 (LC 12), 10=-302 (LC 12), 11=-73 (LC 10)
Max Grav	7=110 (LC 27), 8=236 (LC 26), 9=230 (LC 26), 10=308 (LC 26), 11=311 (LC 28)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-11=-290/94, 1-2=0/54, 2-3=-139/94, 3-4=-74/72, 4-5=-59/59, 5-6=-36/53, 6-7=-65/39
BOT CHORD	10-11=-163/82, 9-10=0/1, 8-9=0/1, 7-8=0/1
WEBS	5-8=-123/5, 4-9=-134/81, 3-10=-134/85, 2-10=-148/295

NOTES

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

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 11, 29 lb uplift at joint 7, 60 lb uplift at joint 9 and 302 lb uplift at joint 10.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



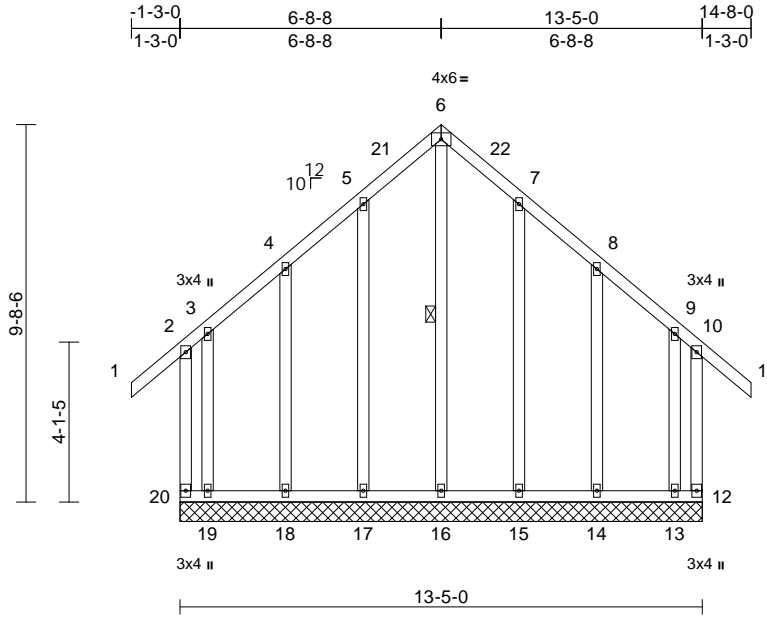
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T8E	Truss Type Common Supported Gable	Qty 1	Ply 1	Brad Cummings- Hoener Job. Job Reference (optional)	152514641
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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Page: 1



Scale = 1:59.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0											
											Weight: 128 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD	2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-16
REACTIONS	(lb/size)
	12=95/13-5-0, 13=52/13-5-0, 14=120/13-5-0, 15=125/13-5-0, 16=116/13-5-0, 17=125/13-5-0, 18=120/13-5-0, 19=52/13-5-0, 20=95/13-5-0
Max Horiz	20=128 (LC 11)
Max Uplift	12=-436 (LC 9), 13=-399 (LC 10), 14=-58 (LC 13), 15=-49 (LC 13), 17=-49 (LC 12), 18=-58 (LC 12), 19=-401 (LC 11), 20=-439 (LC 8)
Max Grav	12=487 (LC 10), 13=502 (LC 11), 14=229 (LC 27), 15=235 (LC 27), 16=280 (LC 29), 17=235 (LC 26), 18=229 (LC 26), 19=504 (LC 10), 20=490 (LC 11)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-20=-269/217, 1-2=0/54, 2-3=-185/196, 3-4=-71/113, 4-5=-51/147, 5-6=-41/180, 6-7=-41/180, 7-8=-51/146, 8-9=-70/112, 9-10=-184/195, 10-11=0/54, 10-12=-268/216
BOT CHORD	19-20=-65/63, 18-19=-65/63, 17-18=-65/63, 16-17=-65/63, 15-16=-65/63, 14-15=-65/63, 13-14=-65/63, 12-13=-65/63

WEBS 6-16=-184/0, 5-17=-134/70, 4-18=-135/91, 3-19=-206/177, 7-15=-134/70, 8-14=-135/91, 9-13=-205/176

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 20, 436 lb uplift at joint 12, 49 lb uplift at joint 17, 58 lb uplift at joint 18, 401 lb uplift at joint 19, 49 lb uplift at joint 15, 58 lb uplift at joint 14 and 399 lb uplift at joint 13.
 - 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



June 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



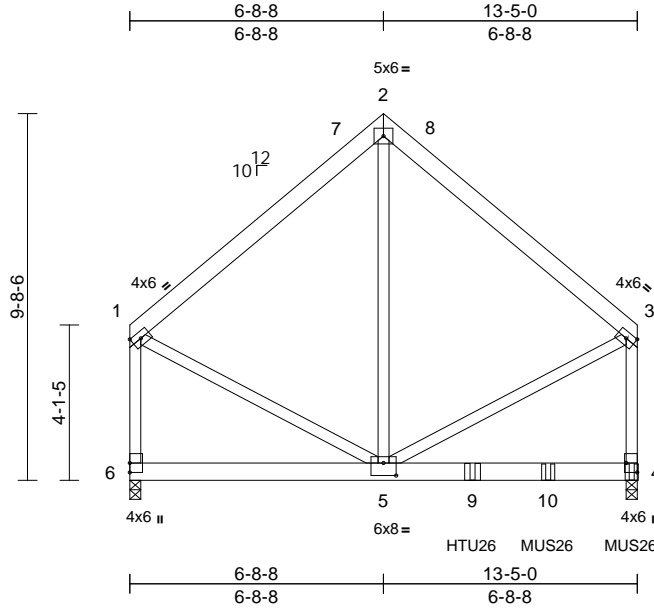
818 Soundside Road
Edenton, NC 27932

Job Hoener	Truss T8G	Truss Type Common Girder	Qty 1	Ply 3	Brad Cummings- Hoener Job. Job Reference (optional)	I52514642
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon Jun 13 14:27:50
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Page: 1



Scale = 1:60.9

Plate Offsets (X, Y): [4:Edge,0-3-8], [5:0-4-0,0-4-0]

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	0.46	Vert(LL)	-0.10	4-5	>999	240	MT20	244/190
Snow (Pf)	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.19	4-5	>816	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 353 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS or 2x6 SP M 31
WEBS 2x4 SP No.2

BRACING

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

REACTIONS

(lb/size) 4=3762/0-3-8, 6=1179/0-3-8
Max Horiz 6=-106 (LC 8)
Max Uplift 4=-520 (LC 12), 6=-224 (LC 13)
Max Grav 4=4654 (LC 25), 6=1499 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1561/330, 2-3=-1593/332, 1-6=-1762/318, 3-4=-1670/302
BOT CHORD 5-6=-137/122, 4-5=-35/175
WEBS 2-5=-294/1535, 1-5=-238/1369, 3-5=-199/1144

NOTES

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=10.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 6 and 520 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss) or equivalent at 9-0-12 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie MUS26 (6-10d Girder, 6-10d Truss) or equivalent spaced at 2-2-8 oc max. starting at 11-0-12 from the left end to 13-3-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

Vert: 4=-1158 (B), 9=-1845 (B), 10=-1150 (B)

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-40, 2-3=-40, 4-6=-20
Concentrated Loads (lb)



June 13, 2022

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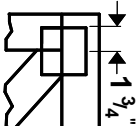
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



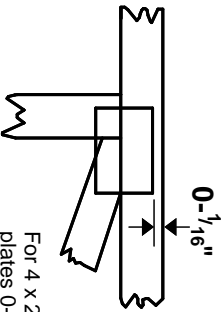
818 Soundside Road
Edenton, NC 27932

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 20/20 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



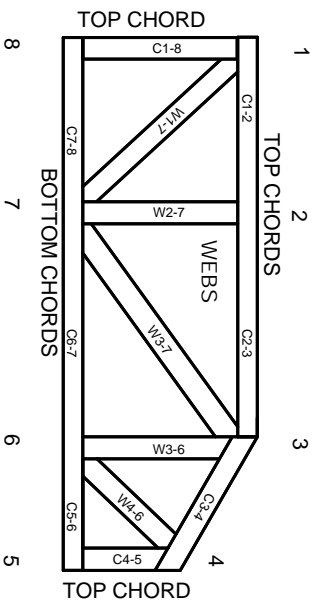
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.