

RE: 4493331
WHITE OAK HOMES

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: WHITE OAK HOMES Project Name: 4493331
Lot/Block: 5 Model: CHARLESTON II
Address: Subdivision: CAMERON HILL RD
City: CAMERON State: NC

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

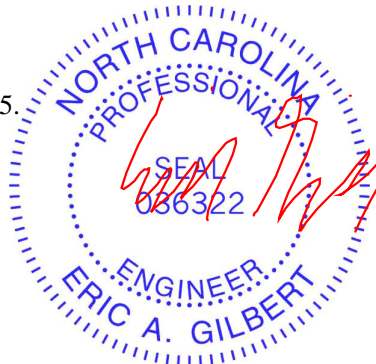
Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 30 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I71949502	A01	3/12/2025	21	I71949522	JB6	3/12/2025
2	I71949503	A02	3/12/2025	22	I71949523	JB7	3/12/2025
3	I71949504	A03	3/12/2025	23	I71949524	JB8	3/12/2025
4	I71949505	A04	3/12/2025	24	I71949525	PB01	3/12/2025
5	I71949506	A05	3/12/2025	25	I71949526	V01	3/12/2025
6	I71949507	A06	3/12/2025	26	I71949527	V02	3/12/2025
7	I71949508	B01	3/12/2025	27	I71949528	V03	3/12/2025
8	I71949509	B02	3/12/2025	28	I71949529	V04	3/12/2025
9	I71949510	B03	3/12/2025	29	I71949530	V05	3/12/2025
10	I71949511	C01	3/12/2025	30	I71949531	V06	3/12/2025
11	I71949512	C02	3/12/2025				
12	I71949513	CJ1	3/12/2025				
13	I71949514	D01	3/12/2025				
14	I71949515	D02	3/12/2025				
15	I71949516	JA1	3/12/2025				
16	I71949517	JB1	3/12/2025				
17	I71949518	JB2	3/12/2025				
18	I71949519	JB3	3/12/2025				
19	I71949520	JB4	3/12/2025				
20	I71949521	JB5	3/12/2025				

The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Builders FirstSource-Sumter,SC.
Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2025.
North Carolina COA: C-0844

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

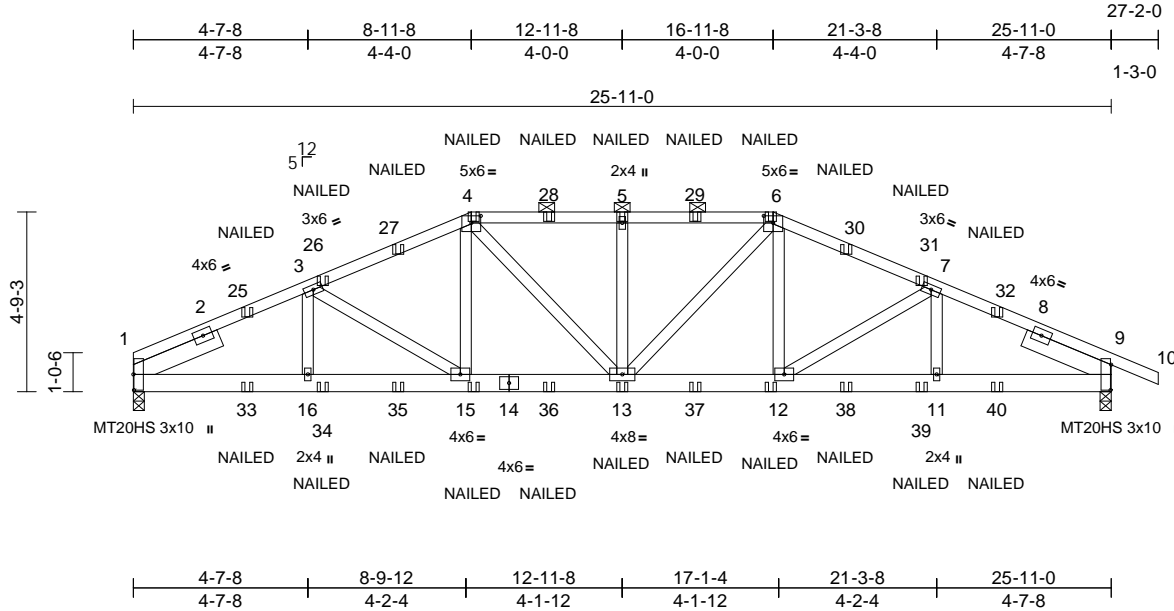


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949502
4493331	A01	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:24
ID:HyBitCwAoZy1Jk_fjxjBjdzc4uA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:61.1

Plate Offsets (X, Y): [1:0-5-0,0-0-3], [4:0-3-0,0-2-4], [6:0-3-0,0-2-4], [9:0-8-1,0-0-3]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.05	13	>999	360	MT20HS 187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.10	13	>999	240	MT20 244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.03	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	13	>999	240	Weight: 340 lb FT = 20%

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

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

REACTIONS (size) 1=0-3-8, 9=0-3-8
Max Horiz 1=-108 (LC 9)
Max Uplift 1=-871 (LC 8), 9=-913 (LC 9)
Max Grav 1=1342 (LC 1), 9=1420 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2185/1519, 3-4=-2113/1603, 4-5=-2082/1668, 5-6=-2082/1668, 6-7=-2110/1599, 7-9=-2169/1513, 9-10=0/29
BOT CHORD 1-16=-1386/2009, 15-16=-1386/2009, 13-15=-1360/2027, 12-13=-1351/1973, 11-12=-1295/1940, 9-11=-1295/1940
WEBS 3-16=-72/119, 3-15=-89/262, 4-15=-212/357, 4-13=-260/340, 5-13=-351/349, 6-13=-261/342, 6-12=-211/355, 7-12=-78/258, 7-11=-81/122

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 871 lb uplift at joint 1 and 913 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 6-10=-60, 17-21=-20
Concentrated Loads (lb)

Vert: 6=-31 (F), 15=-16 (F), 13=-16 (F), 4=-31 (F), 5=-31 (F), 12=-16 (F), 25=-32 (F), 28=-31 (F), 29=-31 (F), 32=-32 (F), 33=-28 (F), 34=-49 (F), 35=-78 (F), 36=-16 (F), 37=-16 (F), 38=-78 (F), 39=-49 (F), 40=-28 (F)



March 12, 2025

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

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

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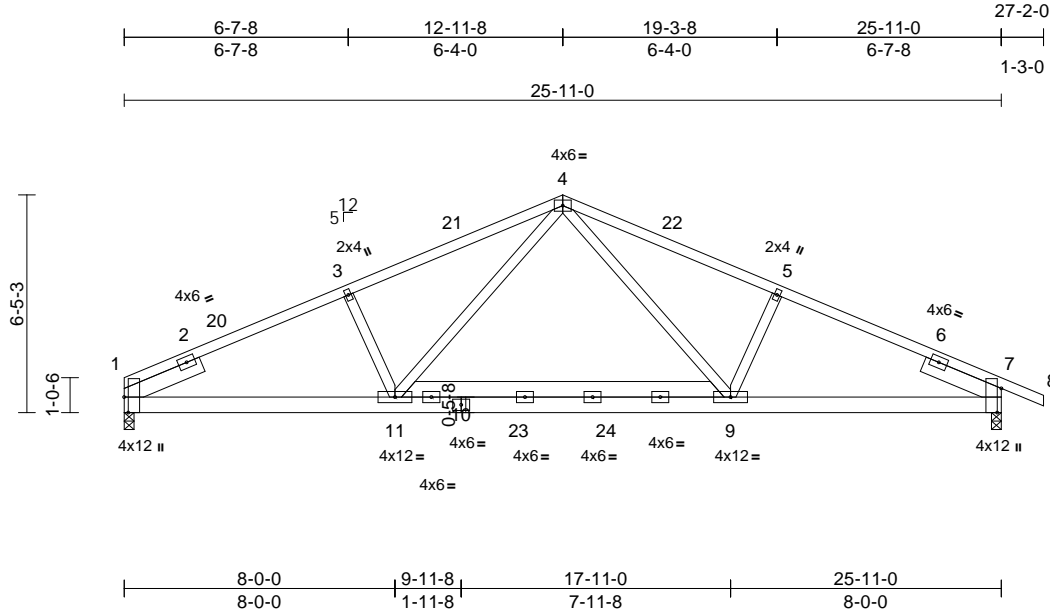
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949503
4493331	A02	Common	5	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:25
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Page: 1



Scale = 1:68.1

Plate Offsets (X, Y): [1:0-5-8,Edge], [7:0-8-9,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	0.68	Vert(LL)	-0.10	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.21	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	9-11	>999	240	Weight: 171 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-1-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=0-3-8, 7=0-3-8
Max Horiz	1=-145 (LC 17)
Max Uplift	1=-276 (LC 12), 7=-317 (LC 13)
Max Grav	1=1035 (LC 1), 7=1113 (LC 1)

FORCES

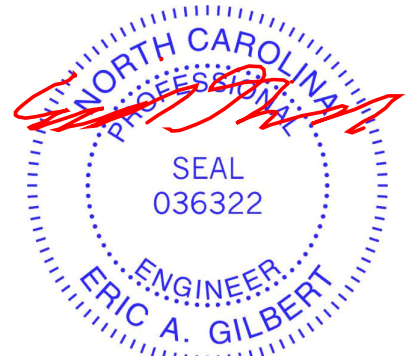
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-1708/486, 3-4=-1602/514, 4-5=-1588/492, 5-7=-1695/464, 7-8=0/29
BOT CHORD	1-11=-452/1527, 9-11=-211/1083, 7-9=-332/1514
WEBS	4-9=-203/545, 5-9=-320/292, 4-11=-208/562, 3-11=-322/292

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 27-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 1 and 317 lb uplift at joint 7.

LOAD CASE(S) Standard



March 12, 2025

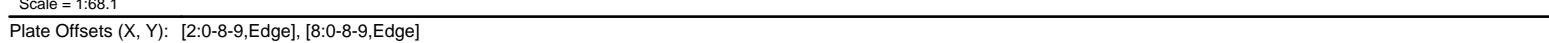
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:26 Page: 1
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LUMBER		4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3	
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0	5) All bearings are assumed to be SP No.2 . 6) Provide mechanical connection (by others) of truss to

BRACING		bearing plate capable of withstanding 317 lb uplift at joint 2 and 317 lb uplift at joint 8.
TOP CHORD	Structural wood sheathing directly applied or 3-1-11 oc purlins.	LOAD CASE(S) Standard
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	

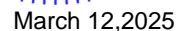
REACTIONS	(size)	2=0-3-8, 8=0-3-8
	Max Horiz	2=133 (LC 12)
	Max Uplift	2=-317 (LC 12), 8=-317 (LC 13)
	Max Grav	2=1112 (LC 1), 8=1112 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/29, 2-4=-1696/465, 4-5=-1589/493, 5-6=-1584/491, 6-8=-1691/464, 8-9=0/29
BOT CHORD	2-12=-448/1514, 10-12=-210/1078, 8-10=-326/1510
WEBS	5-10=-203/546, 6-10=-320/292, 5-12=-204/551, 4-12=-319/291

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-3-0 to 1-9-0, Interior (1) 1-9-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 27-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 2 and 317 lb uplift at joint 8.

LOAD CASE(S) Standard

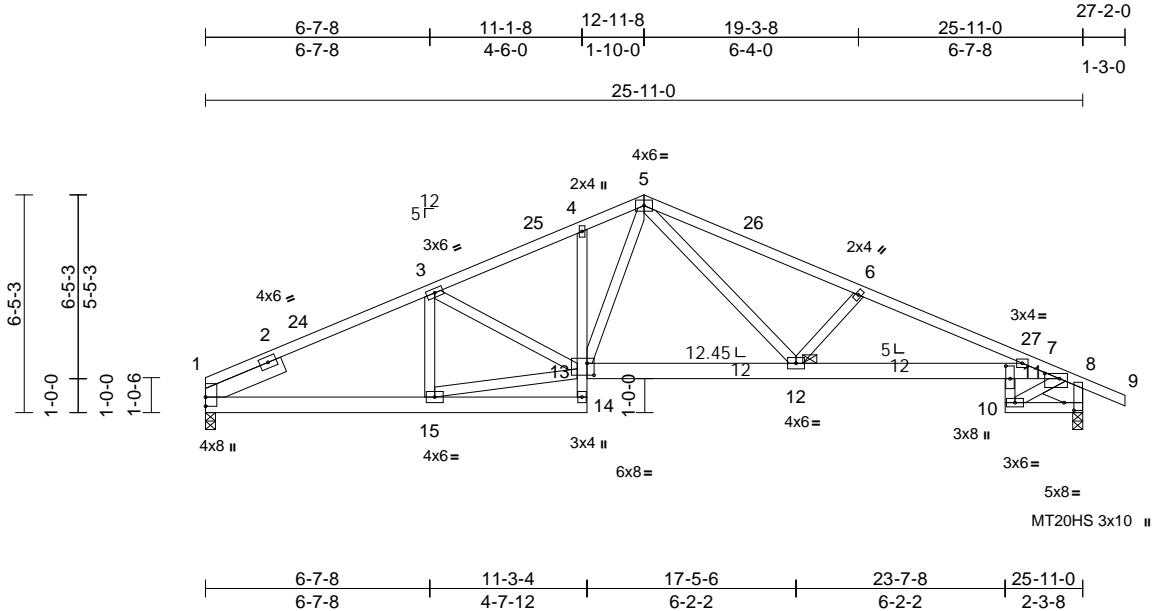


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949505
4493331	A04	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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Page: 1



Scale = 1:68.1

Plate Offsets (X, Y): [7:0-5-4,0-1-14], [8:0-2-12,0-3-9], [11:0-4-8,0-1-8], [13:0-2-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.13	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.27	11-12	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.14	11-12	>999	240	Weight: 166 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 1-14:2x6 SP No.2, 13-7:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x8 SP 2400F 2.0E or DSS -- 1-2-8

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-1-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 12

REACTIONS

(size)	1=0-3-8, 8=0-3-8
Max Horiz	1=-145 (LC 17)
Max Uplift	1=-276 (LC 12), 8=-317 (LC 13)
Max Grav	1=1035 (LC 1), 8=1113 (LC 1)

FORCES

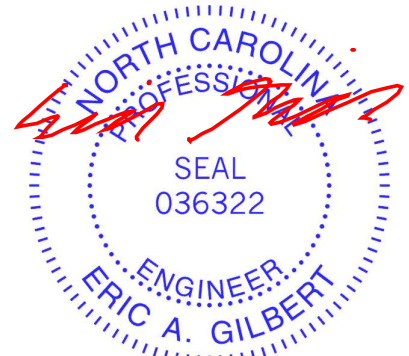
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=-1671/473, 3-4=-1706/497, 4-5=-1662/527, 5-6=-2146/583, 6-7=-2378/626, 7-8=-310/70, 8-9=0/29
BOT CHORD	1-15=-431/1488, 14-15=-46/179, 13-14=0/111, 4-13=-193/136, 12-13=-231/1331, 11-12=-491/2168, 7-11=-473/2108, 10-11=-203/881, 8-10=-203/828
WEBS	3-15=-294/149, 13-15=-395/1341, 3-13=-65/131, 5-13=-241/604, 5-12=-260/863, 6-12=-412/319, 7-10=-1077/264

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 27-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP No.2, Joint 8 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 1 and 317 lb uplift at joint 8.

LOAD CASE(S) Standard



March 12, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

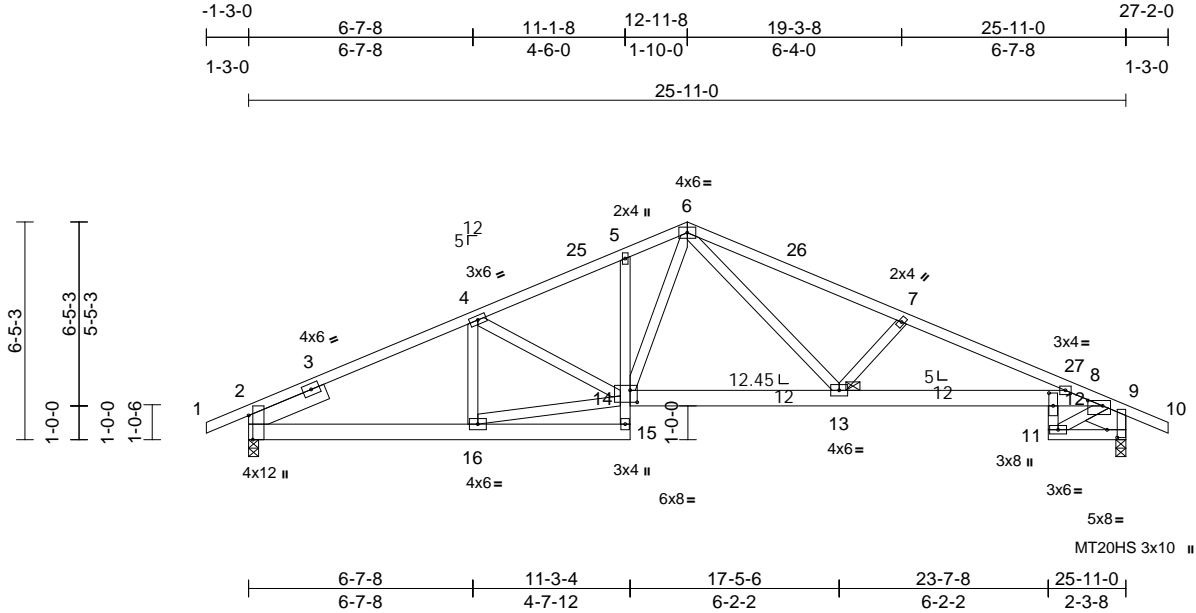
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949506
4493331	A05	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:26
ID:3tFPzLasdx8nk1MCBjnPhvc4Pe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:68.1

Plate Offsets (X, Y): [2:0-8-9,Edge], [8:0-5-4,0-1-14], [9:0-2-12,0-3-9], [12:0-4-8,0-1-8], [14:0-2-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.13	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.27	12-13	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.14	12-13	>999	240	Weight: 168 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-15:2x6 SP No.2, 14-8:2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x8 SP 2400F 2.0E or DSS -- 1-2-8

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-1-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 13

REACTIONS

(size)	2=0-3-8, 9=0-3-8
Max Horiz	2=133 (LC 12)
Max Uplift	2=-317 (LC 12), 9=-317 (LC 13)
Max Grav	2=1112 (LC 1), 9=1112 (LC 1)

FORCES

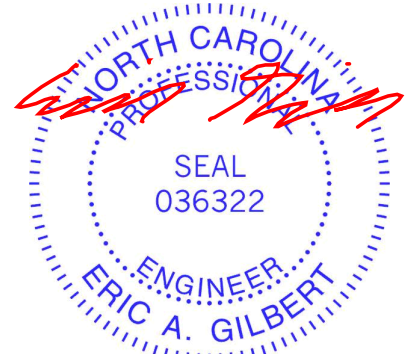
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/29, 2-4=-1657/448, 4-5=-1699/484, 5-6=-1656/525, 6-7=-2141/572, 7-8=-2373/615, 8-9=-309/69, 9-10=0/29
BOT CHORD	2-16=-426/1474, 15-16=-46/179, 14-15=0/111, 5-14=-195/137, 13-14=-229/1327, 12-13=-481/2163, 8-12=-464/2104, 11-12=-203/879, 9-11=-203/826
WEBS	4-14=-55/134, 6-14=-239/601, 6-13=-260/863, 7-13=-412/319, 4-16=-298/150, 14-16=-389/1327, 8-11=-1075/263

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 27-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 9 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 2 and 317 lb uplift at joint 9.

LOAD CASE(S) Standard



March 12, 2025

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

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

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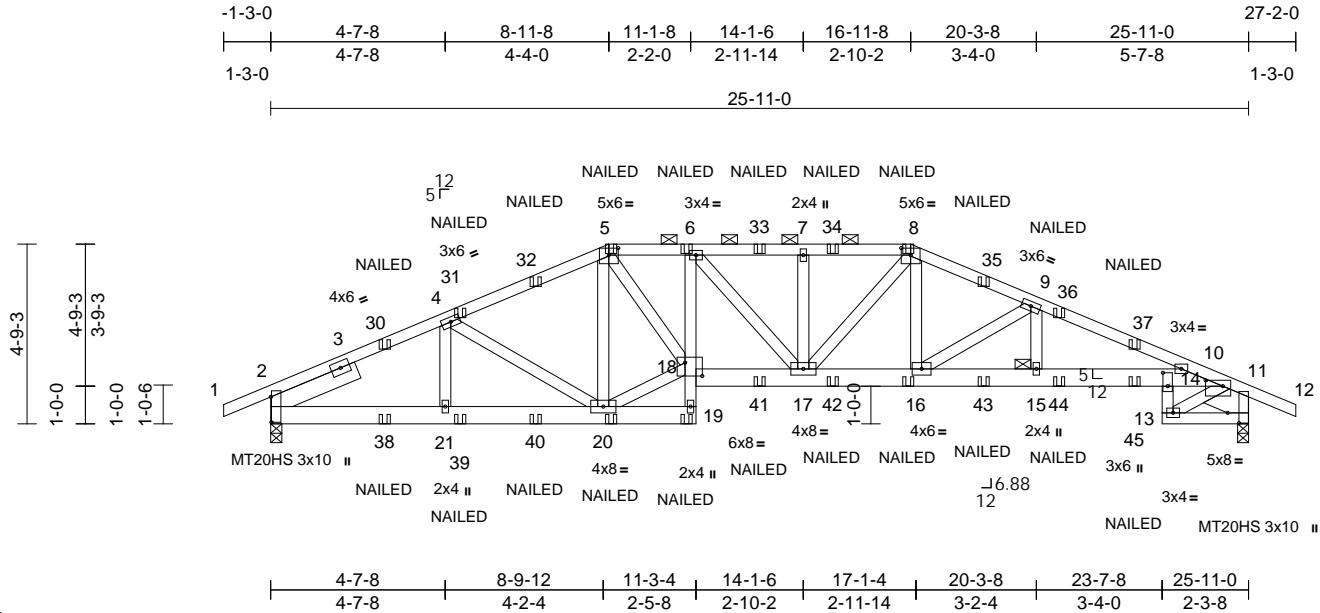
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949507
4493331	A06	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:27
ID:rrUGmOWrIQxYmA87dA9xezc4N7-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



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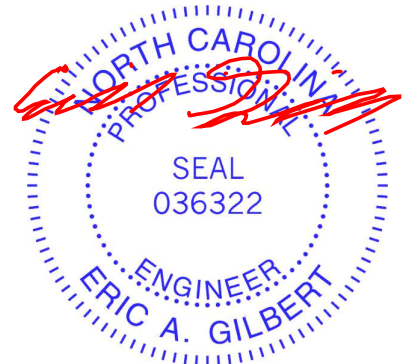
Plate Offsets (X, Y): [2:0-8-1,0-0-3], [5:0-3-0,0-2-4], [8:0-3-0,0-2-4], [10:0-5-8,0-1-14], [11:0-3-4,0-3-9], [14:0-4-4,0-1-8], [18:0-5-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.08	17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.16	17-18	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	17-18	>999	240	Weight: 359 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2 *Except* 2-19,18-10:2x6 SP No.2	
WEBS	2x4 SP No.2	
SLIDER	Left 2x6 SP No.2 -- 2-6-0, Right 2x8 SP 2400F 2.0E or DSS -- 1-2-8	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
JOINTS	1 Brace at Jt(s): 15	
REACTIONS	(size) 2=0-3-8, 11=0-3-8	
	Max Horiz 2=96 (LC 25)	
	Max Uplift 2=-908 (LC 8), 11=-920 (LC 9)	
	Max Grav 2=1437 (LC 1), 11=1459 (LC 1)	
FORCES		
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/29, 2-4=-2198/1503, 4-5=-2128/1591, 5-6=-2901/2188, 6-7=-2717/2072, 7-8=-2717/2072, 8-9=-2730/1999, 9-10=-3596/2421, 10-11=-462/312, 11-12=0/29	
BOT CHORD	2-21=-1371/2006, 20-21=-1371/2006, 19-20=-98/146, 18-19=-25/44, 6-18=-54/117, 17-18=-2074/3063, 16-17=-1697/2519, 15-16=-2148/3294, 14-15=-2148/3294, 10-14=-2082/3185, 13-14=-730/1169, 11-13=-714/1120	
WEBS	4-21=-95/128, 4-20=-76/248, 5-20=-807/565, 18-20=-1465/2213, 5-18=-1170/1650, 6-17=-316/236, 7-17=-194/156, 8-17=-361/494, 8-16=-435/584, 9-16=-968/619, 9-15=-310/554, 10-13=-1435/919	

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 11 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 908 lb uplift at joint 2 and 920 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-8=-60, 8-12=-60, 19-22=-20, 14-18=-20, 13-26=-20
Concentrated Loads (lb)
Vert: 19=-16 (B), 6=-31 (B), 20=-16 (B), 5=-31 (B), 16=-59 (B), 30=-32 (B), 38=-28 (B), 39=-49 (B), 40=-78 (B), 41=-59 (B), 42=-59 (B), 43=-78 (B), 44=-65 (B), 45=-68 (B)



March 12, 2025

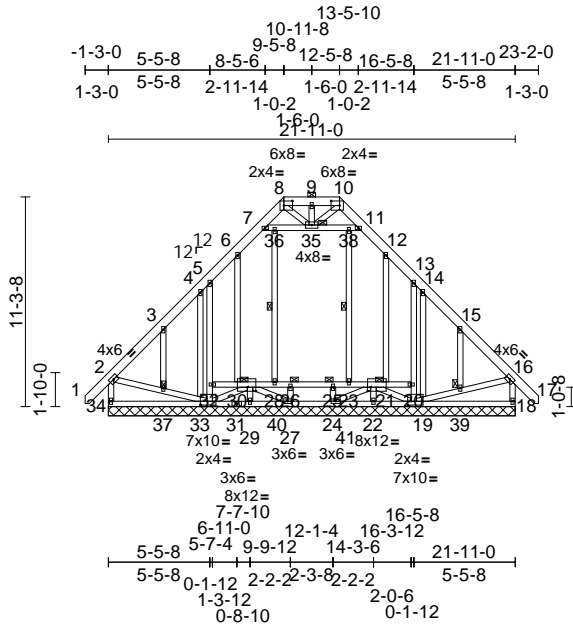
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	B01	Attic Supported Gable	1	1	Job Reference (optional)



Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	B01	Attic Supported Gable	1	1	I71949508
Job Reference (optional)					

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

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

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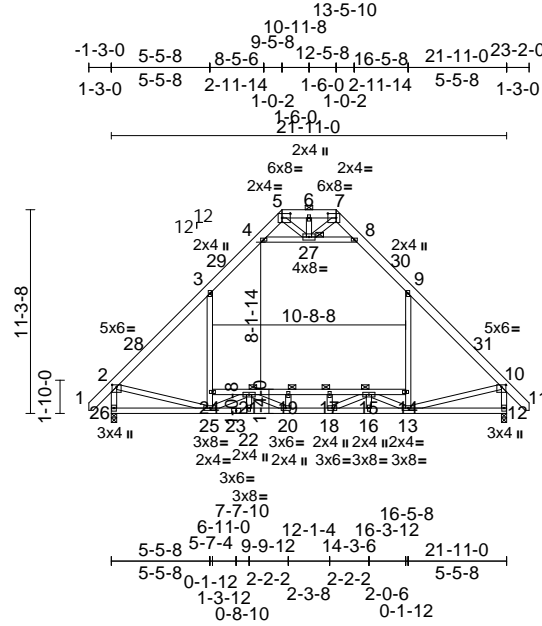
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	B02	Attic	8	1	Job Reference (optional)
					I71949509

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:28
ID:FylGcYUbtAlPwAEBLW24Epzc4l7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:127.8

Plate Offsets (X, Y): [2:0-3-0,0-1-4], [5:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.22	25-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.27	17-19	>976	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.09	14-24	>999	360	Weight: 197 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*
5-7:2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
3-25,9-13,4-8,26-2,12-10:2x4 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 (10-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 4-7-0 oc
bracing.
JOINTS 1 Brace at Jt(s): 27,
19, 17, 15, 21

REACTIONS (size) 12=0-3-8, 26=0-3-8
Max Horiz 26=430 (LC 11)
Max Uplift 12=18 (LC 13), 26=18 (LC 12)
Max Grav 12=1429 (LC 2), 26=1429 (LC 2)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/54, 2-3=-1393/66, 3-4=-828/240,
4-5=-43/394, 5-6=-43/511, 6-7=-43/511,
7-8=-44/395, 8-9=-829/240, 9-10=-1393/66,
10-11=0/54, 2-26=-1374/154,
10-12=-1374/155
BOT CHORD 25-26=-427/559, 22-25=0/2089,
20-22=0/2089, 18-20=0/2480, 16-18=0/1859,
13-16=0/1859, 12-13=-99/210,
21-24=-191/179, 19-21=-1763/0,
17-19=-1763/0, 15-17=-1763/0,
14-15=-198/185

WEBS
24-25=0/488, 3-24=0/653, 13-14=0/488,
9-14=0/653, 4-27=-1533/376,
8-27=-1535/378, 2-25=-55/858,
10-13=-63/864, 6-27=-205/70,
7-27=-164/296, 5-27=-163/296,
19-20=-244/0, 17-18=-244/0,
15-16=-131/150, 13-15=-1257/0,
15-18=-106/791, 21-22=-120/138,
21-25=-1257/0, 20-21=-90/778

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-1-10 to 1-10-6, Interior (1) 1-10-6 to 9-5-8, Exterior (2) 9-5-8 to 15-5-8, Interior (1) 15-5-8 to 23-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-27, 8-27; Wall dead load (5.0psf) on member(s).3-24, 9-14
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-24, 19-21, 17-19, 15-17, 14-15
- 8) All bearings are assumed to be SP No.1 .
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 26 and 18 lb uplift at joint 12.

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



March 12,2025

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Edenton, NC 27932

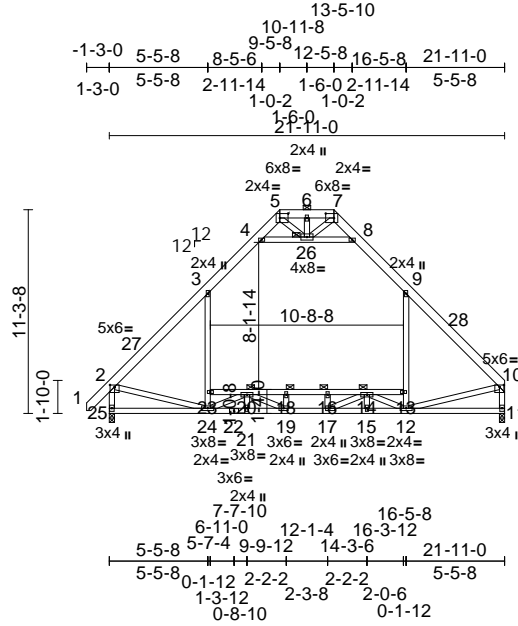
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	B03	Attic	3	1	Job Reference (optional)
					I71949510

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:28

Page: 1

ID:kOBmdczAB9a?hPbr3E822zc4Eo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDi7J4zJC7f



Scale = 1:127.7

Plate Offsets (X, Y): [2:0-3-0,0-1-4], [5:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.22	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.27	16-18	>971	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.10	13-23	>999	360	Weight: 193 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*
5-7:2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
3-24,9-12,4-8,25-2,11-10:2x4 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 (10-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 4-7-0 oc
bracing.
JOINTS 1 Brace at Jt(s): 26,
18, 16, 20, 14

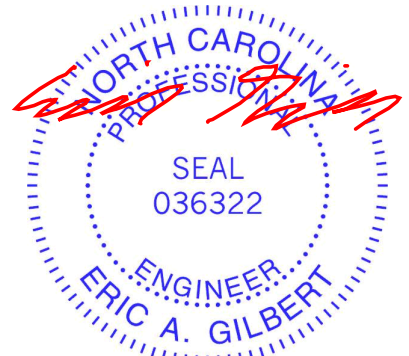
REACTIONS (size) 11=0-3-8, 25=0-3-8
Max Horiz 25=416 (LC 9)
Max Uplift 25=18 (LC 12)
Max Grav 11=1363 (LC 2), 25=1431 (LC 2)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/54, 2-3=-1396/72, 3-4=-830/245,
4-5=-45/400, 5-6=-45/518, 6-7=-45/518,
7-8=-44/399, 8-9=-831/249, 9-10=-1395/60,
2-25=-1377/160, 10-11=-1311/87
BOT CHORD 24-25=-445/531, 21-24=0/2067,
19-21=0/2067, 17-19=0/2481, 15-17=0/1864,
12-15=0/1864, 11-12=-95/169,
20-23=-191/180, 18-20=-1764/0,
16-18=-1764/0, 14-16=-1764/0,
13-14=-201/185

WEBS
23-24=0/489, 3-23=0/654, 12-13=0/481,
9-13=0/646, 4-26=-1545/377,
8-26=-1543/378, 2-24=-55/862,
10-12=-61/861, 6-26=-207/74,
5-26=-162/298, 7-26=-164/296,
18-19=-245/0, 16-17=-244/0, 20-24=-1257/0,
20-21=-120/138, 19-20=-91/786,
12-14=-1258/0, 14-15=-130/152,
14-17=-109/784

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-1-10 to 1-10-6, Interior (1) 1-10-6 to 9-5-8, Exterior (2) 9-5-8 to 16-5-11, Interior (1) 16-5-11 to 21-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-26, 8-26; Wall dead load (5.0psf) on member(s).3-23, 9-13
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-23, 18-20, 16-18, 14-16, 13-14
 - 8) All bearings are assumed to be SP No.1 .
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 25.

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.
LOAD CASE(S) Standard



March 12,2025

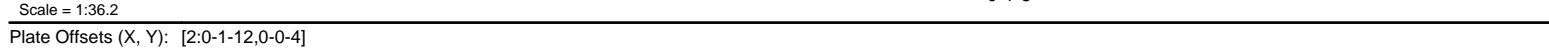
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

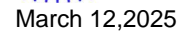
818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:29 Page: 1
ID:bt_sziLZjactLPg08SDLJgzc4AS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f



NOTES

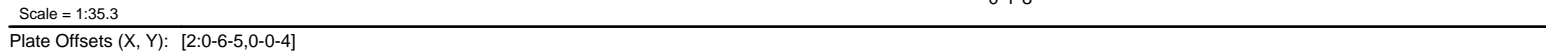
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-3-0 to 2-0-0, Exterior (2) 2-0-0 to 5-10-4 zone; cantilever left and right exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



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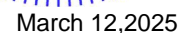
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Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:29 Page: 1
ID:3FzUckBVDJzLjrPCyKcH7zc4BE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f



LUMBER		6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 177 lb uplift at joint 5.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
SLIDER	Left 2x6 SP No.2 -- 2-6-0	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 2=0-3-0, 5=0-1-8	
	Max Horiz 2=131 (LC 8)	
	Max Uplift 2=-205 (LC 8), 5=-177 (LC 8)	
	Max Grav 2=317 (LC 1), 5=226 (LC 1)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/24, 2-4=-306/501, 4-5=-154/203	
BOT CHORD	2-5=-195/154	

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; n=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 5-10-4 zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SP No.2 .

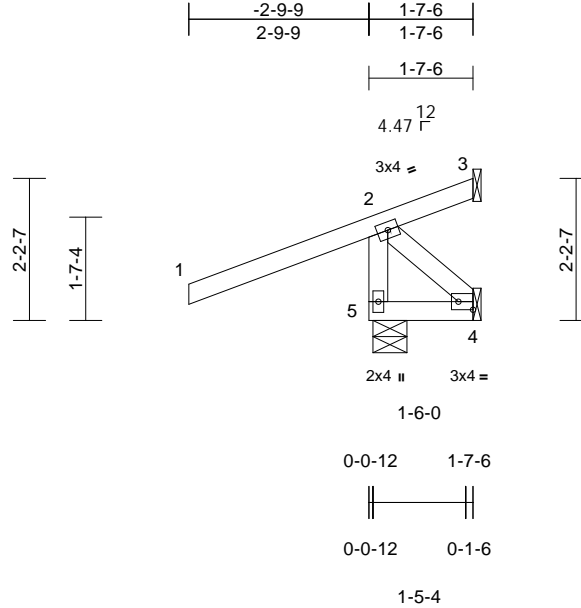


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171949513
4493331	CJ1	Jack-Open Girder	4	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:29
ID:g1xH29mvgAqFIWZrPY5pblzc507-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.8

Plate Offsets (X, Y): [4: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	0.73	Vert(LL)	0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 14 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 4, 164 lb uplift at joint 3 and 291 lb uplift at joint 5.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size)	3= Mechanical, 4= Mechanical, 5=0-6-5
Max Horiz	5=92 (LC 7)
Max Uplift	3=-164 (LC 19), 4=-67 (LC 4), 5=-291 (LC 4)
Max Grav	3=159 (LC 4), 4=29 (LC 3), 5=413 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-5=-398/300, 1-2=0/62, 2-3=-78/55
BOT CHORD	4-5=-82/0
WEBS	2-4=0/111

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.



March 12,2025

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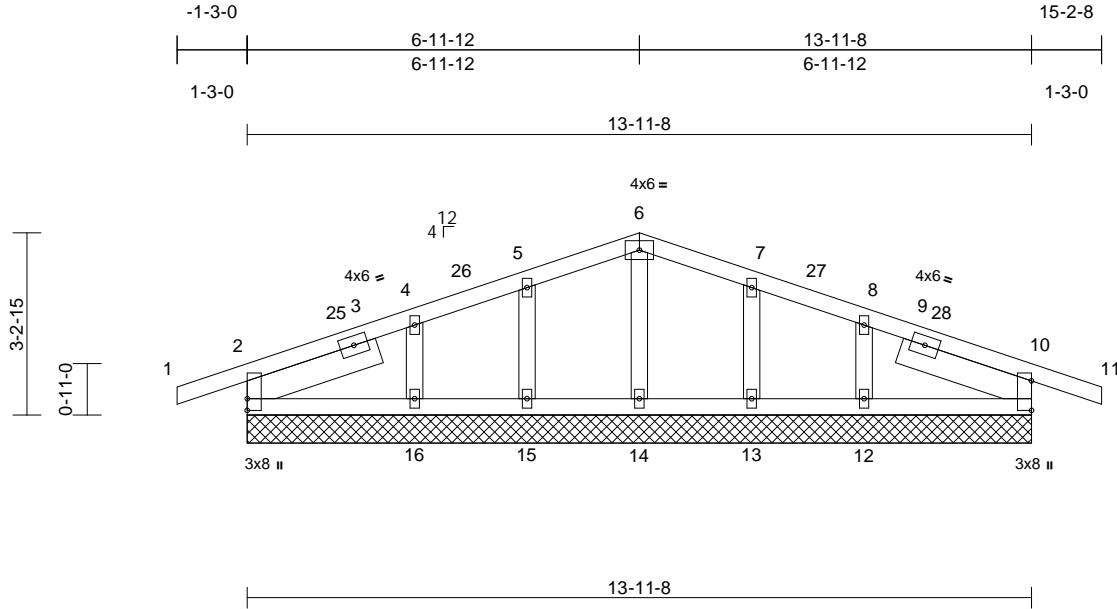
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949514
4493331	D01	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:29
ID:0_jrkLnm?yGdH5?7ojN0JTzc49t-RfC?PsB70Hq3NSgPqnl8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41

Plate Offsets (X, Y): [2:Edge,0-0-0], [10:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 73 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	2=13-11-8, 10=13-11-8, 12=13-11-8, 13=13-11-8, 14=13-11-8, 15=13-11-8, 16=13-11-8
Max Horiz	2=62 (LC 12)
Max Uplift	2=-112 (LC 8), 10=-124 (LC 9), 12=-95 (LC 13), 13=-67 (LC 9), 15=-65 (LC 8), 16=-102 (LC 12)
Max Grav	2=218 (LC 1), 10=218 (LC 1), 12=202 (LC 24), 13=154 (LC 24), 14=127 (LC 1), 15=154 (LC 23), 16=202 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-90/80, 2-4=-90/80, 4-5=-73/133, 5-6=-86/174, 6-7=-86/178, 7-8=-72/137, 8-10=-90/84, 10-11=0/24
BOT CHORD	2-16=-8/56, 15-16=-8/56, 14-15=-8/56, 13-14=-8/56, 12-13=-8/56, 10-12=-8/56
WEBS	6-14=-84/23, 5-15=-121/186, 4-16=-145/145, 7-13=-121/185, 8-12=-145/144

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-3-0 to 1-9-0, Exterior (2) 1-9-0 to 6-11-12, Corner (3) 6-11-12 to 9-11-12, Exterior (2) 9-11-12 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2, 124 lb uplift at joint 10, 65 lb uplift at joint 15, 102 lb uplift at joint 16, 67 lb uplift at joint 13, 95 lb uplift at joint 12, 112 lb uplift at joint 2 and 124 lb uplift at joint 10.

LOAD CASE(S) Standard



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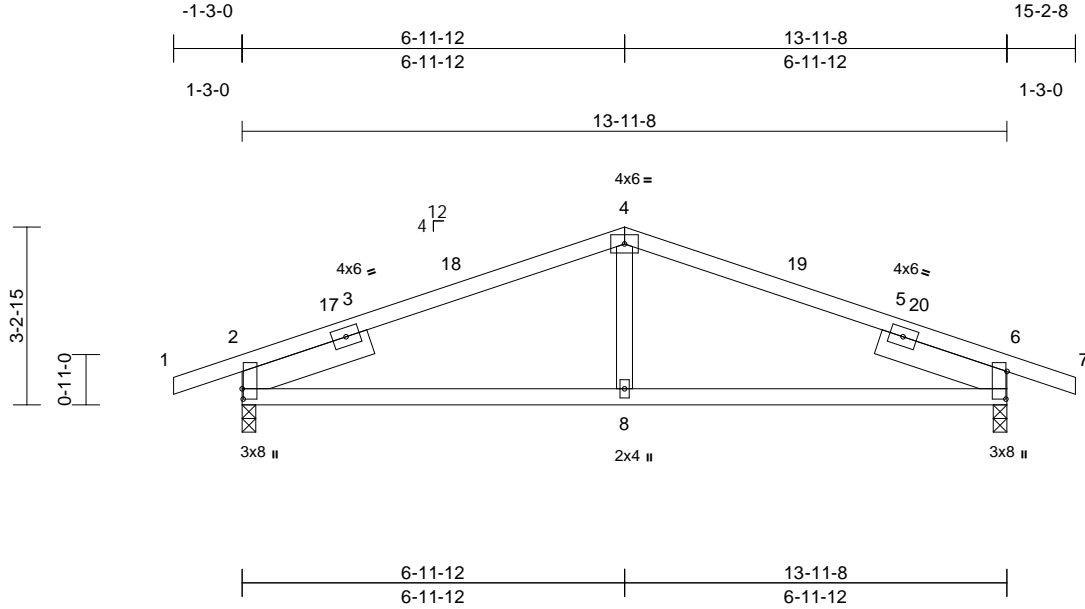
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949515
4493331	D02	Common	4	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:30
ID:8yyvKAXbyVdbGsu54pV5y1zc4AC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.06	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.09	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	8-15	>999	240	Weight: 62 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-11-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-3-8 oc bracing.

REACTIONS

(size)	2=0-3-0, 6=0-3-0
Max Horiz	2=62 (LC 12)
Max Uplift	2=-409 (LC 8), 6=-409 (LC 9)
Max Grav	2=633 (LC 1), 6=633 (LC 1)

FORCES

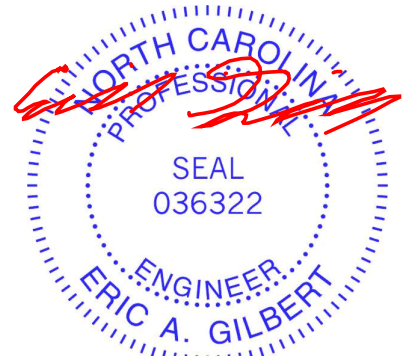
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/24, 2-4=-757/941, 4-6=-757/941, 6-7=0/24
BOT CHORD	2-8=-789/712, 6-8=-789/712
WEBS	4-8=-383/267

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 6-11-12, Exterior (2) 6-11-12 to 9-11-12, Interior (1) 9-11-12 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint 2 and 409 lb uplift at joint 6.

LOAD CASE(S) Standard



March 12, 2025

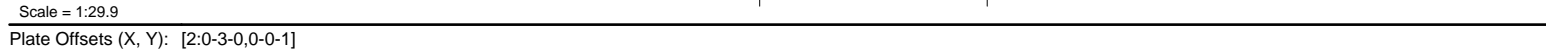
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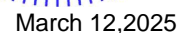
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:30 Page: 1
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NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-3-0 to 1-9-0, Interior (1) 1-9-0 to 2-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be : Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

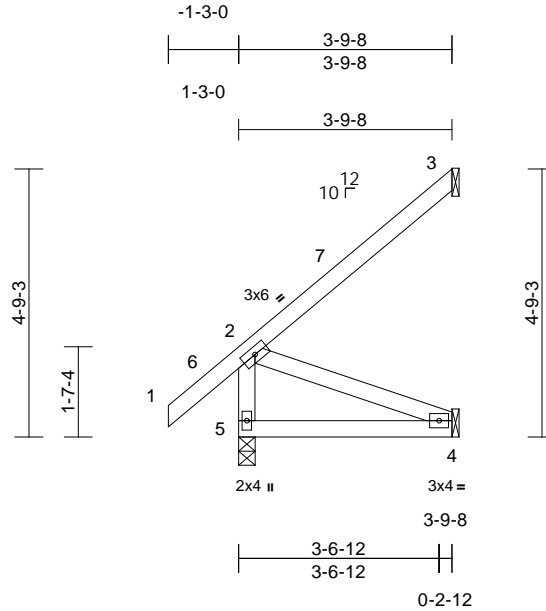


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB1	Jack-Open	7	1	Job Reference (optional)
					I71949517

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:30
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Page: 1



Scale = 1:40.9

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	0.34	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 3 and 53 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=183 (LC 12)
Max Uplift 3=-119 (LC 12), 4=-53 (LC 12)
Max Grav 3=115 (LC 19), 4=73 (LC 3), 5=244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-208/60, 1-2=0/54, 2-3=-115/114
BOT CHORD 4-5=-262/212
WEBS 2-4=-227/281

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 3-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 5 SP No.2.
- Refer to girder(s) for truss to truss connections.



March 12, 2025

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

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

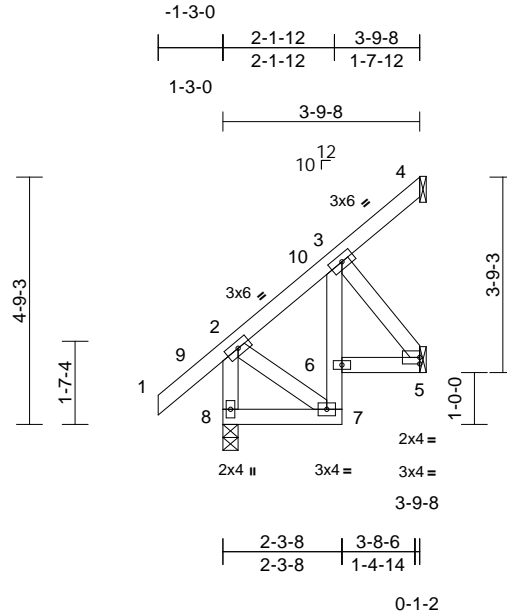
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB2	Jack-Open	3	1	Job Reference (optional)

I71949518

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:30
ID:5QBInDQymebDphDat3Unhzc5?H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDdi7J4zJC?f

Page: 1



Scale = 1:44.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	0.01	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	7	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.02	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 8-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,
 8=0-3-8
 Max Horiz 8=183 (LC 12)
 Max Uplift 4=-61 (LC 12), 5=-110 (LC 12)
 Max Grav 4=59 (LC 19), 5=119 (LC 19),
 8=245 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-8=-225/51, 1-2=0/54, 2-3=-101/44,
 3-4=-54/48
 BOT CHORD 7-8=-262/212, 6-7=-112/104, 3-6=-102/120,
 5-6=-124/137
 WEBS 2-7=-147/217, 3-5=-219/199

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 3-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 4 and 110 lb uplift at joint 5.

LOAD CASE(S) Standard

March 12, 2025

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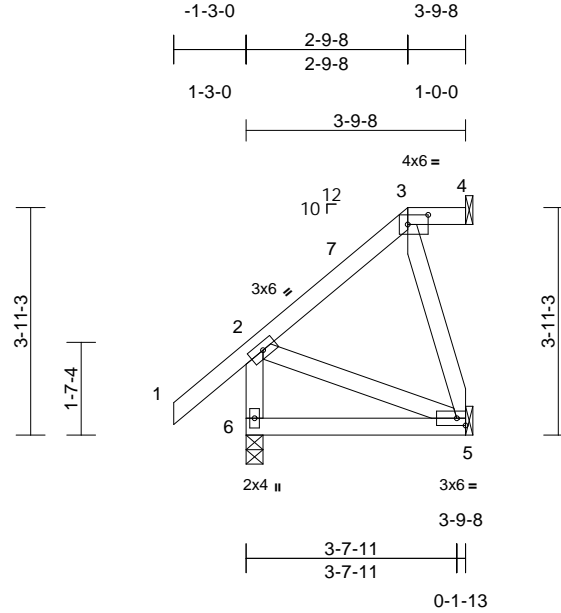
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB3	Jack-Open	3	1	Job Reference (optional)
					I71949519

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:31
ID:H4Pjq?z?LbJC7kesiqN15Azc5_a-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 6=0-3-8
Max Horiz 6=144 (LC 12)
Max Uplift 4=-19 (LC 8), 5=-100 (LC 12), 6=-16 (LC 12)
Max Grav 4=28 (LC 1), 5=121 (LC 19), 6=246 (LC 1)

FORCES

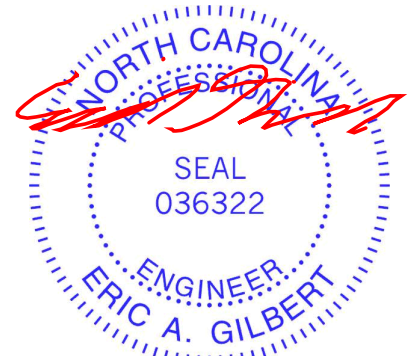
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-6=-209/107, 1-2=0/54, 2-3=-92/41, 3-4=0/0
BOT CHORD 5-6=-225/179
WEBS 3-5=-137/102, 2-5=-163/210

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 2-9-8, Exterior (2) 2-9-8 to 3-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 6, 19 lb uplift at joint 4 and 100 lb uplift at joint 5.
- 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



March 12, 2025

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

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818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:31 Page: 1
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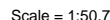


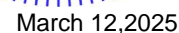
Plate Offsets (X, Y): [4:0-4-0.0-1-12]

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 9-2:2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 5= Mechanical, 6= Mechanical, 9=0-3-8	
Max Horiz	9=144 (LC 12)
Max Uplift	5=-19 (LC 8), 6=-102 (LC 12), 9=-15 (LC 12)
Max Grav	5=28 (LC 1), 6=121 (LC 19), 9=245 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-9=-225/96, 1-2=0/54, 2-3=-100/20, 3-4=-141/90, 4-5=0/0
BOT CHORD	8-9=-225/179, 7-8=-97/92, 3-7=-202/65, 6-7=-61/66
WEBS	2-8=-127/191, 4-6=-185/173, 4-7=-159/214

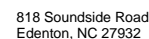
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be : Joint 9 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 9, 19 lb uplift at joint 5 and 102 lb uplift at joint 6.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 2-9-8, Exterior (2) 2-9-8 to 3-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.



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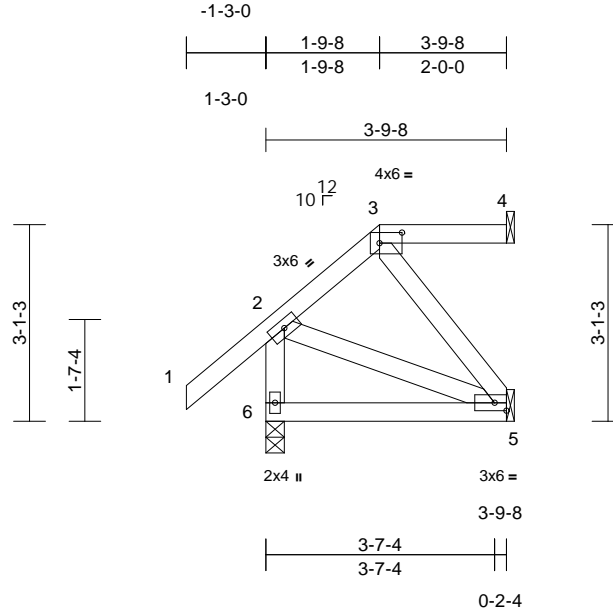


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB5	Jack-Open	3	1	Job Reference (optional)
					I71949521

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:31
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Page: 1



Scale = 1:36.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 4= Mechanical, 5= Mechanical, 6=0-3-8
Max Horiz 6=106 (LC 9)
Max Uplift 4=-39 (LC 8), 5=-39 (LC 12), 6=-45 (LC 12)
Max Grav 4=58 (LC 1), 5=86 (LC 3), 6=247 (LC 1)

FORCES

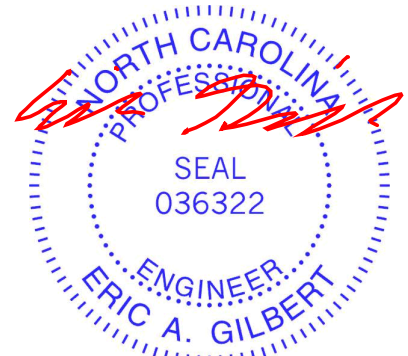
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-6=-209/158, 1-2=0/54, 2-3=-99/40, 3-4=0/0
BOT CHORD 5-6=-177/142
WEBS 3-5=-111/74, 2-5=-117/141

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 6, 39 lb uplift at joint 4 and 39 lb uplift at joint 5.
- 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



March 12, 2025

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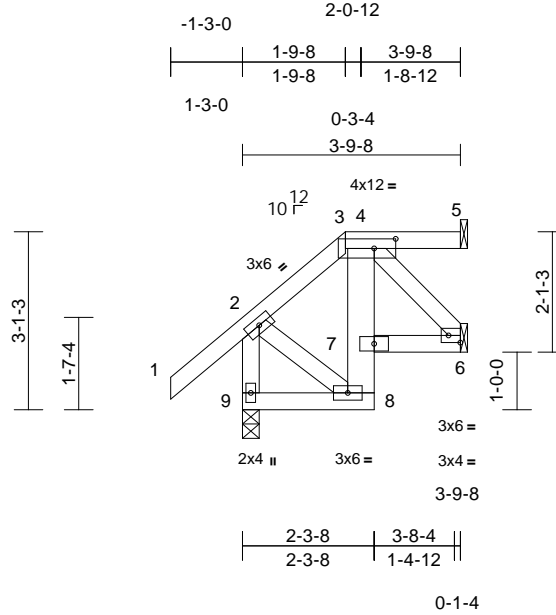
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB6	Jack-Open	1	1	Job Reference (optional)
					I71949522

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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Page: 1



Scale = 1:40.1

Plate Offsets (X, Y): [3:0-4-8,0-2-0], [6: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	0.20	Vert(LL)	0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.00	8	>999	240	Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 8-4:2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 9-2:2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size) 5= Mechanical, 6= Mechanical, 9=0-3-8
	Max Horiz 9=106 (LC 9)
	Max Uplift 5=-29 (LC 8), 6=-48 (LC 9), 9=-44 (LC 12)
	Max Grav 5=42 (LC 24), 6=88 (LC 3), 9=245 (LC 1)

FORCES

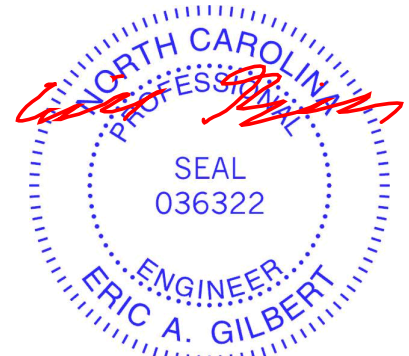
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-9=-229/151, 1-2=0/54, 2-3=-100/63, 3-4=-71/70, 4-5=0/0
BOT CHORD	8-9=-156/123, 7-8=-60/66, 4-7=-43/80, 6-7=-108/107
WEBS	2-8=-63/106, 4-6=-155/156

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 9 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 9, 29 lb uplift at joint 5 and 48 lb uplift at joint 6.
- 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



March 12,2025

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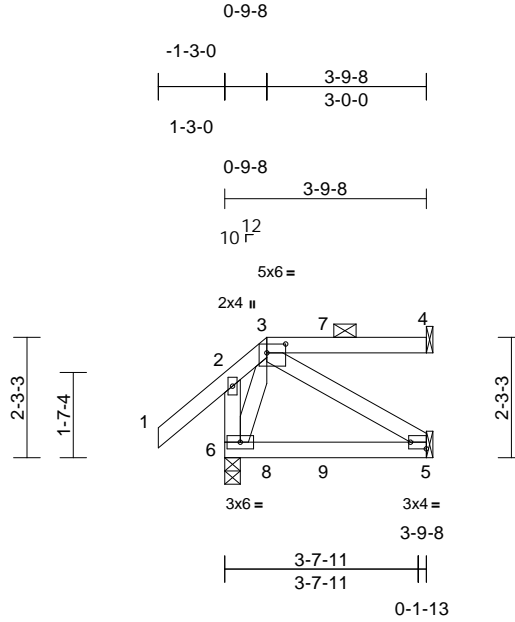
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB7	Jack-Open Girder	3	1	Job Reference (optional)
					I71949523

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:31
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Page: 1



Scale = 1:43.3

Plate Offsets (X, Y): [3:0-4-4,0-2-0], [5: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	0.19	Vert(LL)	-0.01	5-6	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	5-6	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.01	5-6	>999	240	Weight: 24 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 4= Mechanical, 5= Mechanical, 6=0-3-8
Max Horiz 6=81 (LC 5)
Max Uplift 4=-68 (LC 4), 5=-22 (LC 9), 6=-135 (LC 8)
Max Grav 4=92 (LC 1), 5=71 (LC 6), 6=279 (LC 15)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-6=-229/204, 1-2=0/54, 2-3=-120/140, 3-4=0/0
BOT CHORD 5-6=-54/55
WEBS 3-5=-66/64, 3-6=-350/172

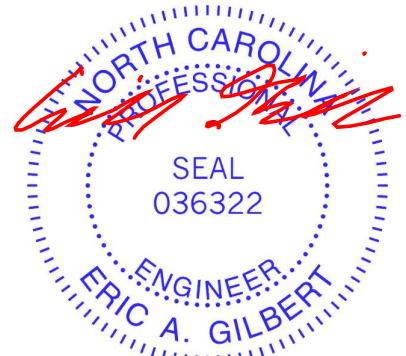
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 6, 68 lb uplift at joint 4 and 22 lb uplift at joint 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 238 lb down and 222 lb up at 0-9-8, and 38 lb down and 49 lb up at 1-10-4 on top chord, and 14 lb down and 74 lb up at 0-9-8, and 8 lb down at 1-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 3=56 (F), 7=-11 (F), 8=-11 (F), 9=-8 (F)



March 12, 2025

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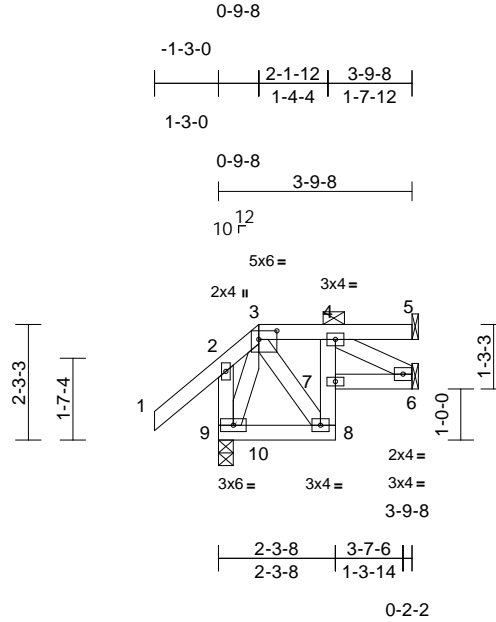
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	JB8	Jack-Open Girder	1	1	Job Reference (optional)
					I71949524

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:32
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Page: 1



Scale = 1:45.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.01	8-9	>999	240	Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 5= Mechanical, 6= Mechanical,
9=0-3-8
Max Horiz 9=81 (LC 5)
Max Uplift 5=-39 (LC 5), 6=-52 (LC 5), 9=-131 (LC 8)
Max Grav 5=54 (LC 20), 6=88 (LC 20), 9=278 (LC 15)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-9=-229/204, 1-2=0/54, 2-3=-120/140, 3-4=-59/52, 4-5=0/0
BOT CHORD 8-9=-47/59, 7-8=-84/71, 4-7=-67/81, 6-7=-105/120
WEBS 3-8=-57/132, 4-6=-140/122, 3-9=-364/152

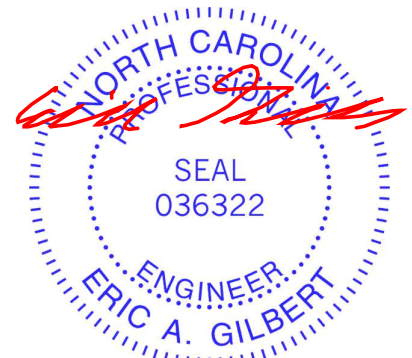
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 9 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 9, 39 lb uplift at joint 5 and 52 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 238 lb down and 222 lb up at 0-9-8, and 38 lb down and 49 lb up at 1-10-4 on top chord, and 14 lb down and 74 lb up at 0-9-8, and 8 lb down at 2-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-9=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 3=56 (B), 4=-11 (B), 8=-8 (B), 10=-11 (B)



March 12,2025

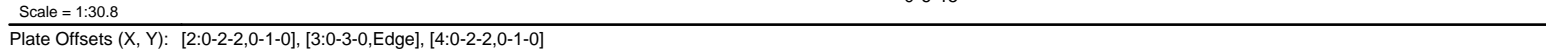
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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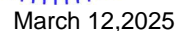
818 Soundside Road
Edenton, NC 27932

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:32 Page: 1
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LUMBER		8) All bearings are assumed to be SP No.2 .
TOP CHORD	2x4 SP No.2	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 28 lb uplift at joint 4, 28 lb uplift at joint 2 and 28 lb uplift at joint 4.
BOT CHORD	2x4 SP No.2	10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 2=1-10-10, 4=1-10-10 Max Horiz 2=-43 (LC 10) Max Uplift 2=-28 (LC 12), 4=-28 (LC 13) Max Grav 2=96 (LC 1), 4=96 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/16, 2-3=-45/25, 3-4=-45/25, 4-5=0/16	
BOT CHORD	2-4=-9/48	

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4'-0" oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.

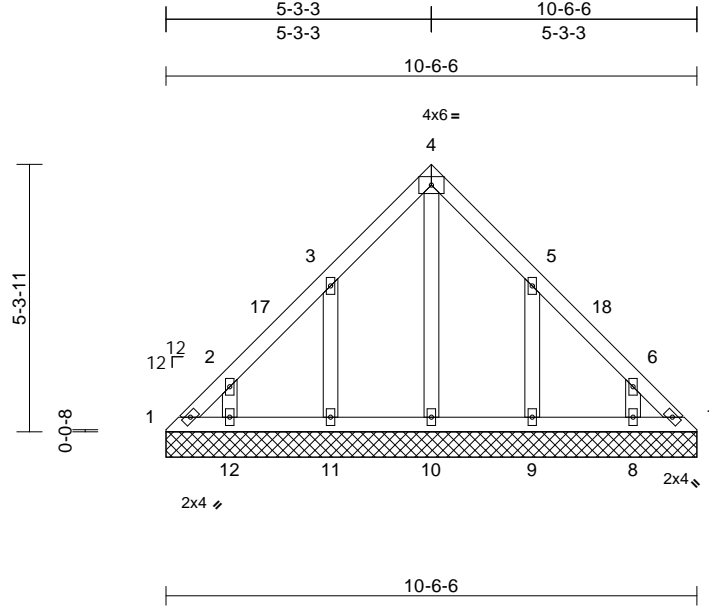


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949526
4493331	V01	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:32
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=10-6-6, 7=10-6-6, 8=10-6-6, 9=10-6-6, 10=10-6-6, 11=10-6-6, 12=10-6-6
Max Horiz	1=-170 (LC 8)
Max Uplift	1=-64 (LC 10), 7=-19 (LC 11), 8=-97 (LC 13), 9=-178 (LC 13), 11=-178 (LC 12), 12=-107 (LC 12)
Max Grav	1=109 (LC 12), 7=79 (LC 13), 8=162 (LC 20), 9=213 (LC 20), 10=150 (LC 22), 11=213 (LC 19), 12=173 (LC 19)

FORCES

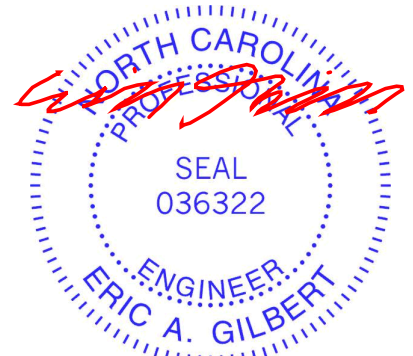
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-199/139, 2-3=-125/103, 3-4=-134/136, 4-5=-134/136, 5-6=-92/59, 6-7=-168/116
BOT CHORD	1-12=-94/146, 11-12=-94/146, 10-11=-94/146, 9-10=-94/146, 8-9=-94/146, 7-8=-94/146
WEBS	4-10=-110/52, 3-11=-225/200, 2-12=-168/149, 5-9=-225/200, 6-8=-168/149

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-3-11, Interior (1) 3-3-11 to 5-3-11, Exterior (2) 5-3-11 to 8-3-11, Interior (1) 8-3-11 to 10-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 1, 19 lb uplift at joint 7, 178 lb uplift at joint 11, 107 lb uplift at joint 12, 178 lb uplift at joint 9 and 97 lb uplift at joint 8.

LOAD CASE(S) Standard



March 12, 2025

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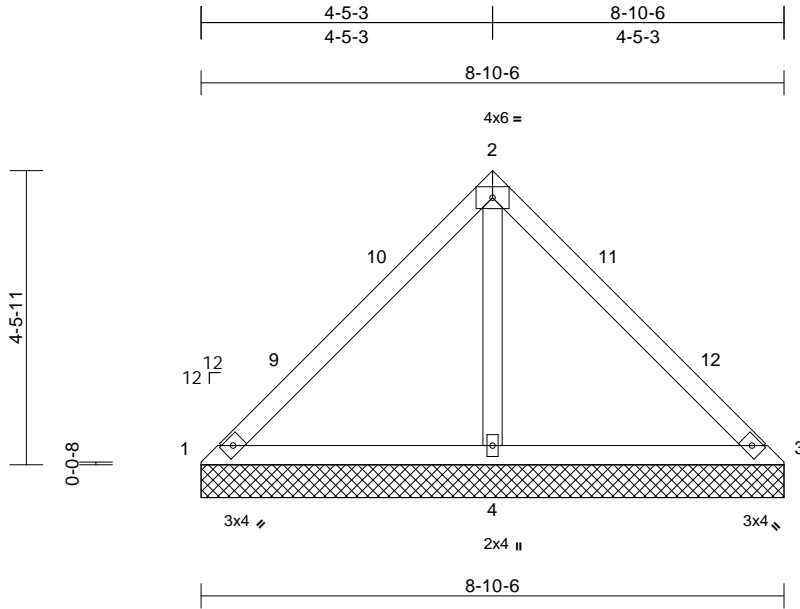
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949527
4493331	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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Page: 1



Scale = 1:35

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)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 36 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 8-10-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size)	1=8-10-6, 3=8-10-6, 4=8-10-6
	Max Horiz	1=-142 (LC 8)
	Max Uplift	1=-8 (LC 24), 3=-8 (LC 23), 4=-248 (LC 12)
	Max Grav	1=80 (LC 23), 3=80 (LC 24), 4=610 (LC 1)

FORCES

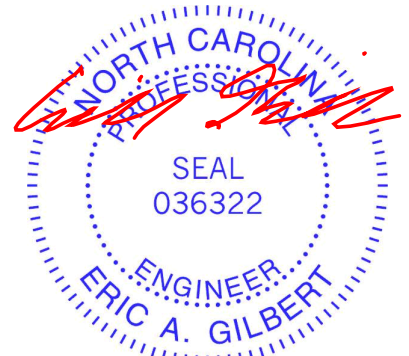
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-141/253, 2-3=-140/236
BOT CHORD	1-4=-247/201, 3-4=-247/201
WEBS	2-4=-544/304

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 4-5-11, Exterior (2) 4-5-11 to 7-5-11, Interior (1) 7-5-11 to 8-10-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 8 lb uplift at joint 3 and 248 lb uplift at joint 4.

LOAD CASE(S) Standard



March 12, 2025

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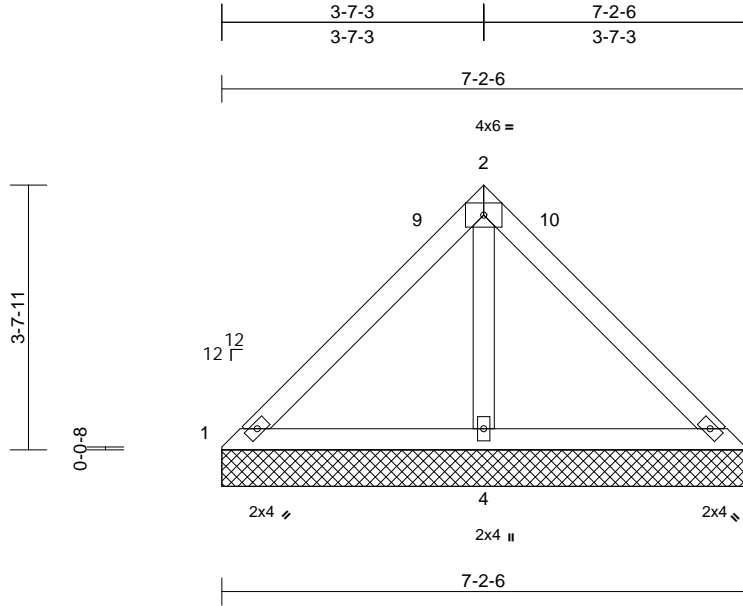
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	
4493331	V03	Valley	1	1	Job Reference (optional)	I71949528

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:33
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Page: 1



Scale = 1:31.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 29 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 7-2-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	1=7-2-6, 3=7-2-6, 4=7-2-6
Max Horiz	1=115 (LC 9)
Max Uplift	3=-2 (LC 8), 4=-172 (LC 12)
Max Grav	1=80 (LC 23), 3=80 (LC 24), 4=455 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

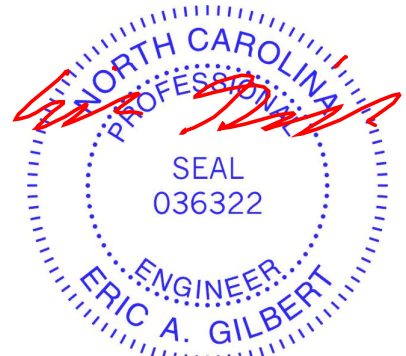
TOP CHORD	1-2=-85/177, 2-3=-78/157
BOT CHORD	1-4=-170/150, 3-4=-170/150
WEBS	2-4=-375/215

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 3-7-11, Exterior (2) 3-7-11 to 6-6-15, Interior (1) 6-6-15 to 7-2-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3 and 172 lb uplift at joint 4.

LOAD CASE(S) Standard



March 12, 2025

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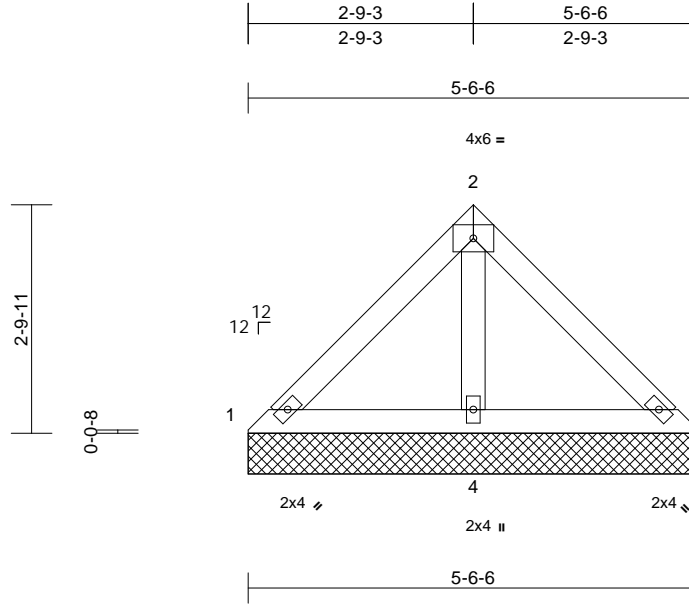
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949529
4493331	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:33
ID: CmGCZZxdwz82zwoasYMelkzc51C-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:28.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=5-6-6, 3=5-6-6, 4=5-6-6
Max Horiz 1=87 (LC 9)
Max Uplift 3=-2 (LC 13), 4=-124 (LC 12)
Max Grav 1=67 (LC 23), 3=67 (LC 24), 4=335 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

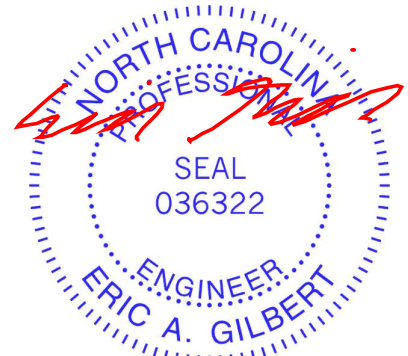
TOP CHORD 1-2=-58/117, 2-3=-54/100
BOT CHORD 1-4=-132/124, 3-4=-132/124
WEBS 2-4=-242/139

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3 and 124 lb uplift at joint 4.

LOAD CASE(S) Standard



March 12, 2025

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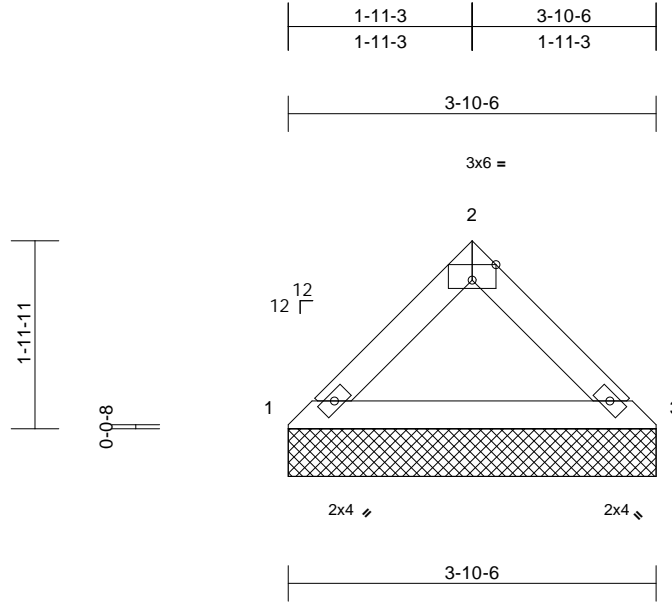
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71949530
4493331	V05	Valley	2	1	Job Reference (optional)	

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Mar 11 11:00:33
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Page: 1



Scale = 1:24.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins.

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

REACTIONS (size) 1=3-10-6, 3=3-10-6

Max Horiz 1=-59 (LC 8)

Max Uplift 1=-34 (LC 12), 3=-34 (LC 13)

Max Grav 1=155 (LC 1), 3=155 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-190/71, 2-3=-190/71

BOT CHORD 1-3=-51/151

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

8) All bearings are assumed to be SP No.2 .

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 34 lb uplift at joint 3.

LOAD CASE(S) Standard



March 12, 2025

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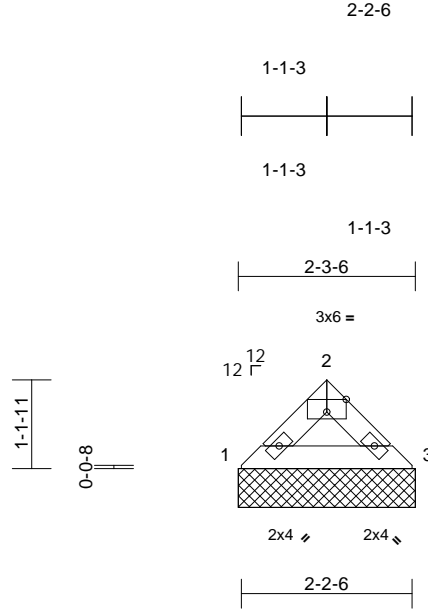
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES
4493331	V06	Valley	2	1	Job Reference (optional)
					I71949531

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

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Page: 1



Scale = 1:29.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 7 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins.

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

REACTIONS (size) 1=2-3-6, 3=2-3-6

Max Horiz 1=-31 (LC 10)

Max Uplift 1=-21 (LC 12), 3=-21 (LC 13)

Max Grav 1=91 (LC 1), 3=91 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-106/42, 2-3=-106/42

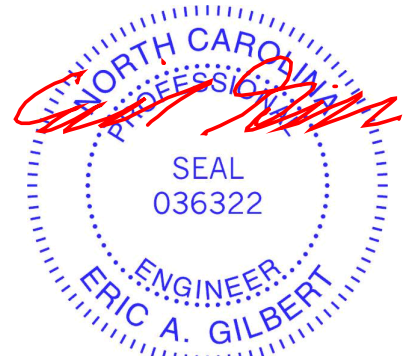
BOT CHORD 1-3=-24/85

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



March 12, 2025

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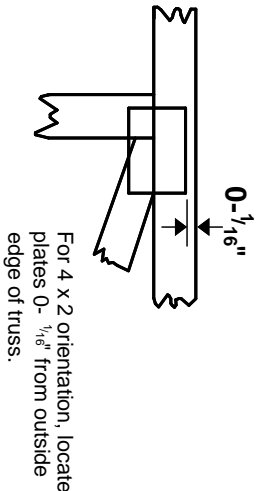
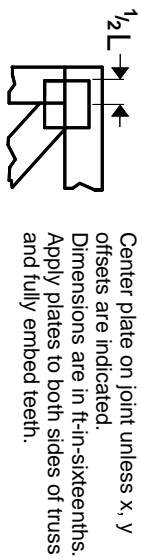
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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

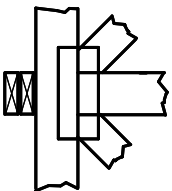
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

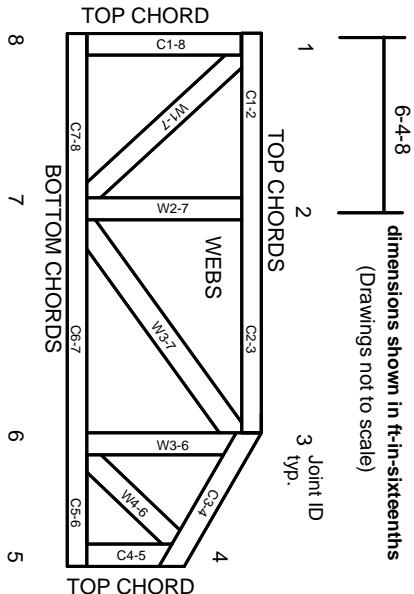


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

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

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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