

RE: 4493320
WHITE OAK HOMES

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: WHITE OAK HOMES Project Name: 4493320
Lot/Block: 3 Model: THE BELLAGRACE
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 28 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I71630003	A01	2/26/2025	21	I71630023	V01	2/26/2025
2	I71630004	A02	2/26/2025	22	I71630024	V02	2/26/2025
3	I71630005	A03	2/26/2025	23	I71630025	V03	2/26/2025
4	I71630006	A04	2/26/2025	24	I71630026	V04	2/26/2025
5	I71630007	A05	2/26/2025	25	I71630027	V05	2/26/2025
6	I71630008	A06	2/26/2025	26	I71630028	V06	2/26/2025
7	I71630009	A07	2/26/2025	27	I71630029	V07	2/26/2025
8	I71630010	A08	2/26/2025	28	I71630030	V08	2/26/2025
9	I71630011	A09	2/26/2025				
10	I71630012	A10	2/26/2025				
11	I71630013	B01	2/26/2025				
12	I71630014	B02	2/26/2025				
13	I71630015	B03	2/26/2025				
14	I71630016	C01	2/26/2025				
15	I71630017	C02	2/26/2025				
16	I71630018	C03	2/26/2025				
17	I71630019	M01	2/26/2025				
18	I71630020	M02	2/26/2025				
19	I71630021	M03	2/26/2025				
20	I71630022	M04	2/26/2025				

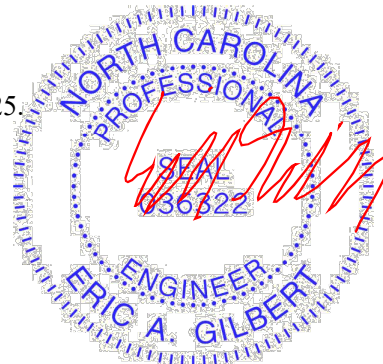
The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Builders FirstSource-Sumter,SC.

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.

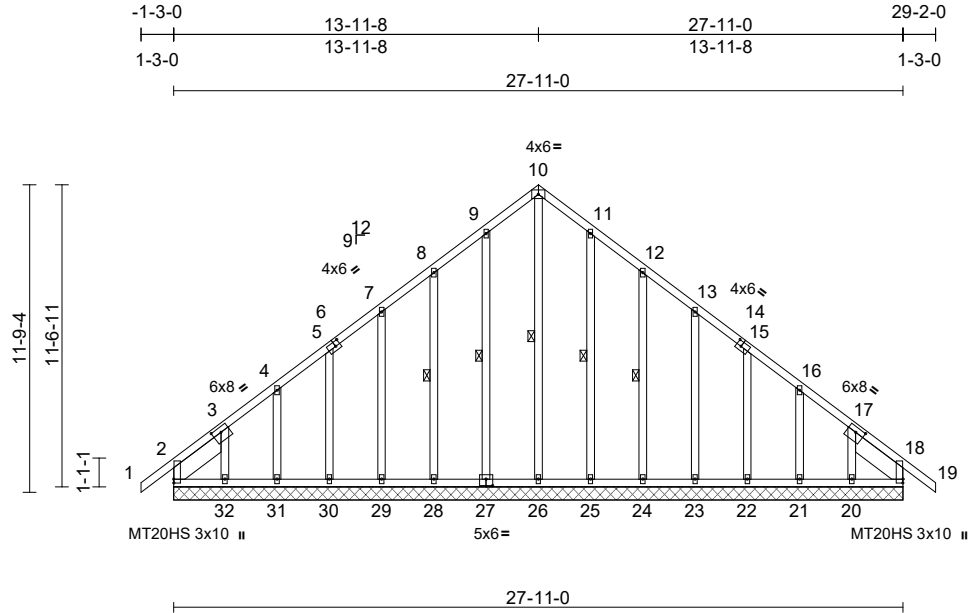


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630003
4493320	A01	Common Supported Gable	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:88.2

Plate Offsets (X, Y): [2:0-1-12,0-0-1], [3:0-4-0,0-2-4], [6:0-2-4,0-2-4], [14:0-2-4,0-2-4], [17:0-4-0,0-2-4], [18:0-1-12,0-0-1], [27:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20HS 187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999	MT20 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	18	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 233 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-5,
Right 2x8 SP 2400F 2.0E or DSS -- 2-6-5

BRACING
TOP CHORD Structural wood sheathing directly applied or
6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.
WEBS 1 Row at midpt 10-26, 9-27, 8-28, 11-25,
12-24

REACTIONS (size)
2=27-11-0, 18=27-11-0,
20=27-11-0, 21=27-11-0,
22=27-11-0, 23=27-11-0,
24=27-11-0, 25=27-11-0,
26=27-11-0, 27=27-11-0,
28=27-11-0, 29=27-11-0,
30=27-11-0, 31=27-11-0,
32=27-11-0
Max Horiz 2=-381 (LC 10)
Max Uplift 2=-164 (LC 8), 18=-57 (LC 9),
20=-227 (LC 13), 21=-110 (LC 13),
22=-116 (LC 13), 23=-113 (LC 13),
24=-123 (LC 13), 25=-101 (LC 13),
26=-11 (LC 11), 27=-106 (LC 12),
28=-121 (LC 12), 29=-113 (LC 12),
30=-116 (LC 12), 31=-109 (LC 12),
32=-254 (LC 12)
Max Grav 2=303 (LC 20), 18=239 (LC 22),
20=209 (LC 20), 21=184 (LC 20),
22=184 (LC 20), 23=184 (LC 20),
24=185 (LC 20), 25=188 (LC 20),
26=321 (LC 13), 27=194 (LC 19),
28=182 (LC 19), 29=184 (LC 19),
30=184 (LC 19), 31=183 (LC 19),
32=239 (LC 19)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/45, 2-3=-80/53, 3-4=-277/245,
4-5=-219/210, 5-7=-192/187, 7-8=-164/219,
8-9=-224/278, 9-10=-293/339,
10-11=-293/339, 11-12=-224/257,
12-13=-143/159, 13-15=-86/80,
15-16=-106/86, 16-17=-194/131,
17-18=-79/53, 18-19=0/45
BOT CHORD 2-32=-201/307, 31-32=-201/307,
30-31=-201/307, 29-30=-201/307,
28-29=-201/307, 26-28=-201/307,
25-26=-201/307, 24-25=-201/307,
23-24=-201/307, 22-23=-201/307,
21-22=-201/307, 20-21=-201/307,
18-20=-201/307
WEBS 10-26=-310/208, 9-27=-157/130,
8-28=-175/145, 7-29=-167/138,
5-30=-168/139, 4-31=-169/139,
3-32=-239/255, 11-25=-157/125,
12-24=-175/147, 13-23=-167/137,
15-22=-168/139, 16-21=-169/139,
17-20=-245/231

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 1-11-8, Exterior (2) 1-11-8
to 13-11-8, Corner (3) 13-11-8 to 16-11-8, Exterior (2)
16-11-8 to 29-2-0 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) 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 MT20 plates unless otherwise indicated.
- 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 164 lb uplift at joint
2, 57 lb uplift at joint 18, 11 lb uplift at joint 26, 106 lb
uplift at joint 27, 121 lb uplift at joint 28, 113 lb uplift at
joint 29, 116 lb uplift at joint 30, 109 lb uplift at joint 31,
254 lb uplift at joint 32, 101 lb uplift at joint 25, 123 lb
uplift at joint 24, 113 lb uplift at joint 23, 116 lb uplift at
joint 22, 110 lb uplift at joint 21, 227 lb uplift at joint 20,
164 lb uplift at joint 2 and 57 lb uplift at joint 18.

LOAD CASE(S) Standard



February 26, 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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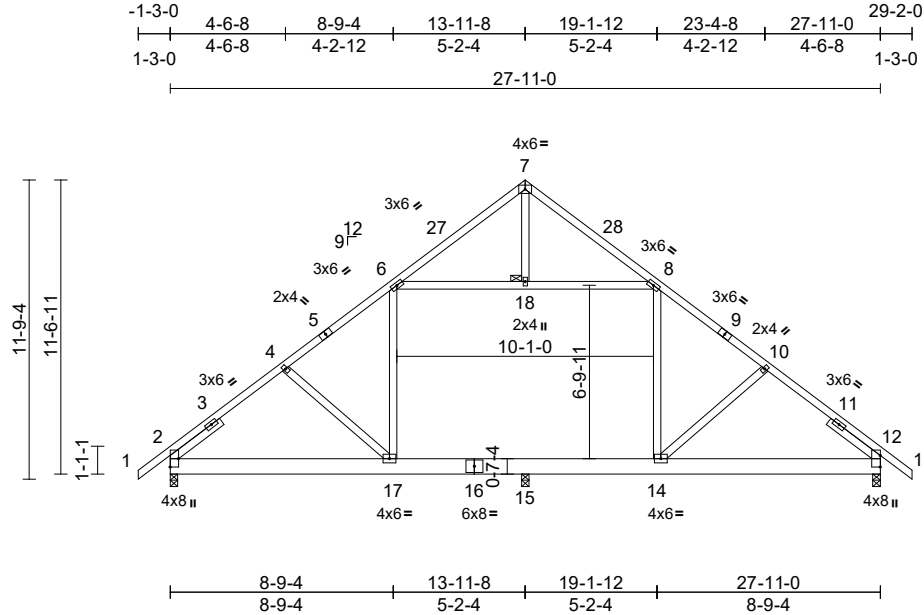
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630004
4493320	A02	Common	3	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:90.6

Plate Offsets (X, Y): [2:Edge,0-3-15]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.20	17-21	>841	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.22	17-21	>773	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.03	12	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
Weight: 207 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins.

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

JOINTS 1 Brace at Jt(s): 18

REACTIONS	(size)	2=0-3-8, 12=0-3-8, 15=0-3-8
	Max Horiz	2=-381 (LC 10)
	Max Uplift	2=-292 (LC 12), 12=-297 (LC 13), 15=-28 (LC 12)
	Max Grav	2=1031 (LC 1), 12=1031 (LC 1), 15=506 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-4=-1119/387, 4-6=-1060/405, 6-7=-351/168, 7-8=-351/167, 8-10=-1059/397, 10-12=-1110/378, 12-13=0/45

BOT CHORD 2-17=-332/1026, 15-17=-150/851, 14-15=-150/851, 12-14=-200/879

WEBS 6-17=-50/245, 8-14=-43/245, 6-18=-782/317, 8-18=-782/317, 4-17=-244/244, 10-14=-244/244, 7-18=-9/21

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 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 29-2-0 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 2400F 2.0E or DSS.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 2, 297 lb uplift at joint 12 and 28 lb uplift at joint 15.

LOAD CASE(S) Standard



February 26, 2025

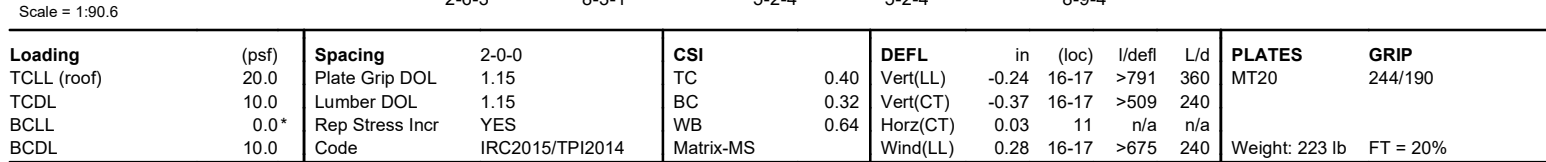
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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 Feb 25 09:54:53 Page: 1
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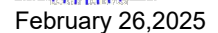


- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 2-7-15, Interior (1) 2-7-15 to 15-11-8, Exterior (2) 15-11-8 to 18-11-8, Interior (1) 18-11-8 to 31-2-0 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
- 6) Bearings are assumed to be: , Joint 14 SP 2400F 2.0E or DSS , Joint 11 SP 2400F 2.0E or DSS .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 18, 333 lb uplift at joint 11 and 144 lb uplift at joint 14.
- 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.



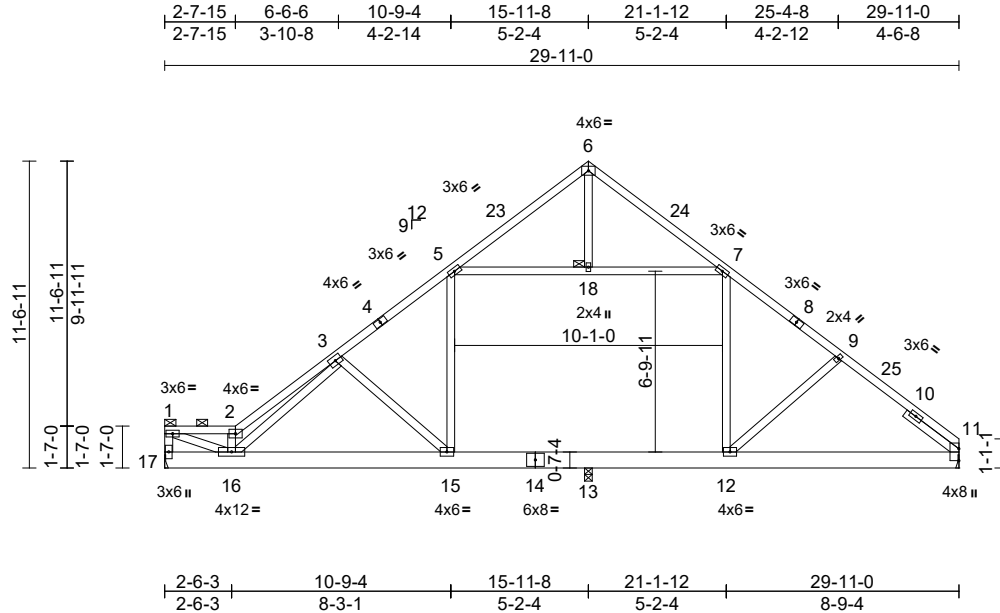
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630006
4493320	A04	Roof Special	1	1	Job Reference (optional)	

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

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Scale = 1:86.8

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	0.40	Vert(LL)	-0.24	15-16	>791	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.37	15-16	>511	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.28	15-16	>677	240	Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS	2x4 SP No.3 *Except* 17-1:2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): 1-2.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 1, 18

REACTIONS

(size)	11= Mechanical, 13=0-3-8, 17= Mechanical
Max Horiz	17=-347 (LC 8)
Max Uplift	11=-291 (LC 13), 13=-144 (LC 12), 17=-232 (LC 12)
Max Grav	11=970 (LC 20), 13=726 (LC 19), 17=970 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-17=-770/225, 1-2=-1487/386, 2-3=-2097/644, 3-5=-1157/492, 5-6=-348/168, 6-7=-358/167, 7-9=-1055/370, 9-11=-1121/369
BOT CHORD	16-17=-324/367, 15-16=-351/1121, 13-15=-113/786, 12-13=-113/786, 11-12=-188/857
WEBS	2-16=-1362/485, 6-18=-10/21, 5-15=-127/322, 5-18=-782/378, 7-18=-782/378, 7-12=0/230, 3-15=-455/320, 9-12=-226/235, 1-16=-399/1538, 3-16=-431/1041

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) 0-1-12 to 2-7-15, Interior (1) 2-7-15 to 15-11-8, Exterior (2) 15-11-8 to 18-11-8, Interior (1) 18-11-8 to 29-11-0 zone; cantilever left and right exposed; end vertical 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, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 13 SP 2400F 2.0E or DSS .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 17, 291 lb uplift at joint 11 and 144 lb uplift at joint 13.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 26, 2025

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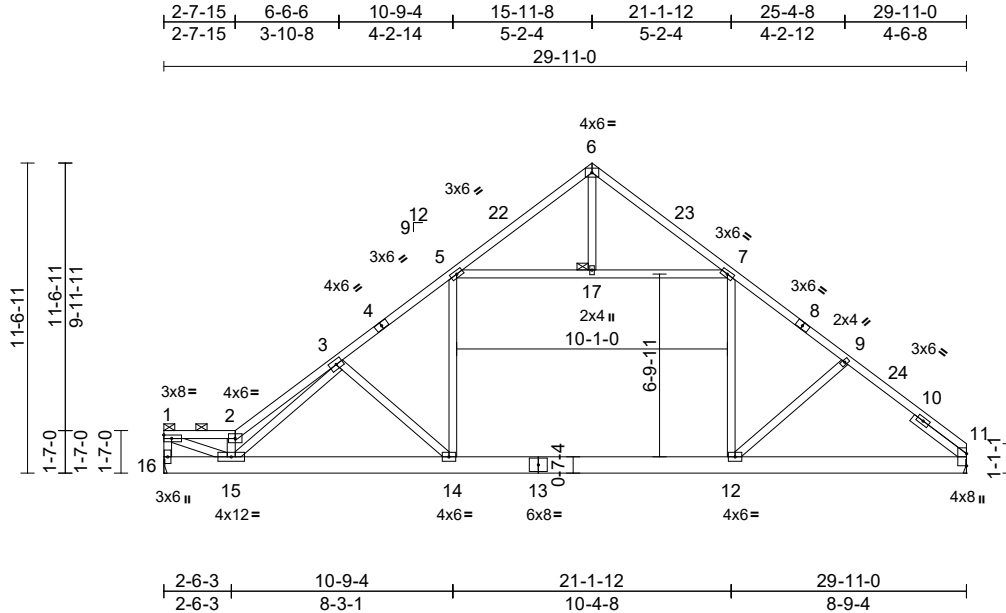
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630007
4493320	A05	Roof Special	2	1	Job Reference (optional)	

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

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Scale = 1:85.9

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	0.43	Vert(LL)	-0.26	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.42	14-15	>856	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.31	14-15	>999	240	Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS	2x4 SP No.3 *Except* 16-1:2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-10 max.): 1-2.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS	1 Brace at Jt(s): 1, 17
--------	-------------------------

REACTIONS	(size) 11= Mechanical, 16= Mechanical
	Max Horiz 16=-347 (LC 8)
	Max Uplift 11=-278 (LC 13), 16=-300 (LC 12)
	Max Grav 11=1261 (LC 20), 16=1191 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-16=-900/264, 1-2=-1857/469, 2-3=-2607/758, 3-5=-1698/466, 5-6=-354/168, 6-7=-368/170, 7-9=-1648/464, 9-11=-1730/441
BOT CHORD	15-16=-325/384, 14-15=-464/1686, 12-14=-227/1357, 11-12=-269/1331
WEBS	2-15=-1621/551, 6-17=-10/31, 5-14=-87/653, 5-17=-1148/374, 7-17=-1148/374, 7-12=-71/566, 3-14=-449/318, 9-12=-184/237, 1-15=-485/1940, 3-15=-403/951

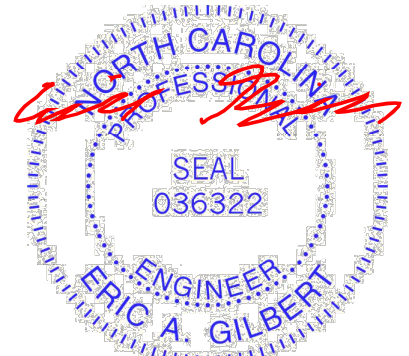
NOTES

- 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) 0-1-12 to 2-7-15, Interior (1) 2-7-15 to 15-11-8, Exterior (2) 15-11-8 to 18-11-8, Interior (1) 18-11-8 to 29-11-0 zone; cantilever left and right exposed; end vertical 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint 16 and 278 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

Standard



February 26, 2025

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818 Soundside Road
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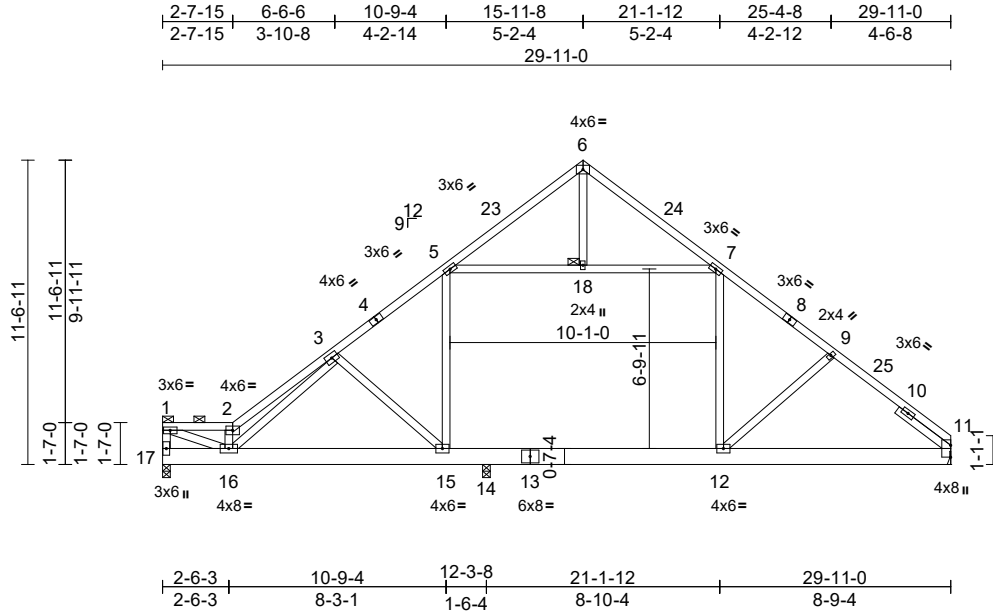
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630008
4493320	A06	Roof Special	2	1	Job Reference (optional)	

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 Feb 25 09:54:54

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Scale = 1:87.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.09	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.15	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	12-21	>999	240	Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS 2x4 SP No.3 *Except* 17-1:2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-6 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (size) 11= Mechanical, 14=0-3-8, 17=0-3-8
Max Horiz 17=347 (LC 8)
Max Uplift 11=339 (LC 13), 14=336 (LC 12), 17=293 (LC 13)
Max Grav 11=1149 (LC 20), 14=795 (LC 19), 17=996 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-663/181, 1-2=-1330/359, 2-3=-1855/564, 3-5=-1437/610, 5-6=-355/167, 6-7=-351/162, 7-9=-1261/450, 9-11=-1381/460

BOT CHORD 16-17=-309/349, 15-16=-196/1020, 14-15=-97/895, 12-14=-97/895, 11-12=-256/1045

WEBS 2-16=-1178/376, 6-18=-13/23, 5-15=-262/480, 5-18=-858/468, 7-18=-858/468, 7-12=0/292, 3-15=-383/271, 9-12=-254/215, 1-16=-363/1364, 3-16=-241/639

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 2-7-15, Interior (1) 2-7-15 to 15-11-8, Exterior (2) 15-11-8 to 18-11-8, Interior (1) 18-11-8 to 29-11-0 zone; cantilever left and right exposed; end vertical 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, with BCDL = 10.0psf.
- 6) Bearings are assumed to be: Joint 17 SP 2400F 2.0E or DSS, Joint 14 SP 2400F 2.0E or DSS.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 17, 339 lb uplift at joint 11 and 336 lb uplift at joint 14.
- 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



February 26, 2025

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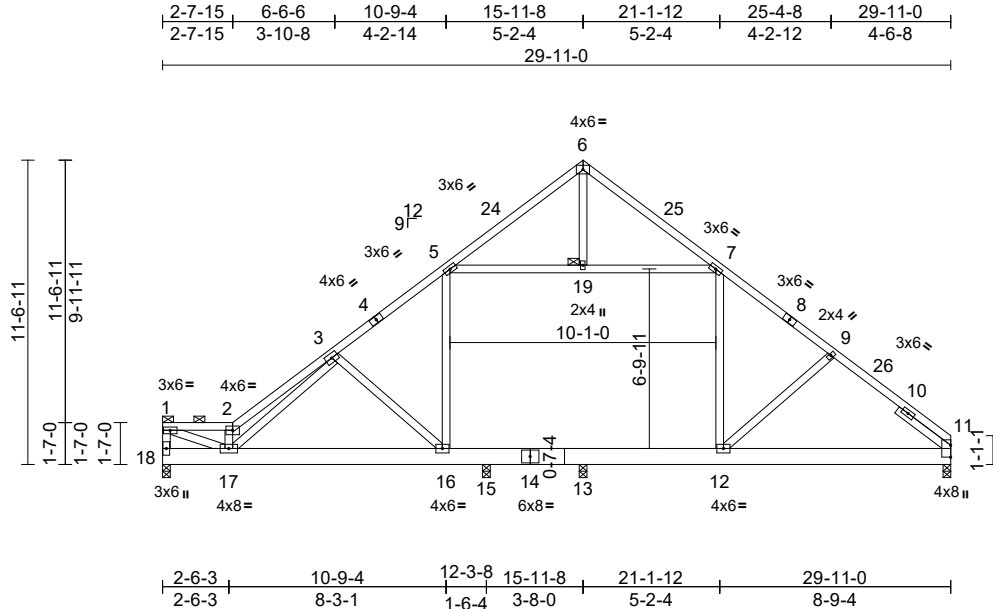
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630009
4493320	A07	Roof Special	1	1	Job Reference (optional)	

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 Feb 25 09:54:54

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Scale = 1:87.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.05	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.11	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	12-22	>999	240	Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS 2x4 SP No.3 *Except* 18-1:2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-14 max.): 1-2.

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

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

REACTIONS (size) 11=0-3-8, 13=0-3-8, 15=0-3-8, 18=0-3-8
Max Horiz 18=-347 (LC 8)
Max Uplift 11=-298 (LC 13), 13=-120 (LC 8), 15=-390 (LC 12), 18=-268 (LC 13)
Max Grav 11=968 (LC 20), 13=502 (LC 20), 15=697 (LC 19), 18=885 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-636/175, 1-2=-1264/344, 2-3=-1762/543, 3-5=-1141/543, 5-6=-353/166, 6-7=-350/163, 7-9=-974/382, 9-11=-1056/392

BOT CHORD 17-18=-313/350, 16-17=-236/915, 15-16=-51/675, 13-15=-51/675, 12-13=-51/675, 11-12=-204/817

WEBS 2-17=-1157/376, 6-19=-11/19, 5-16=-221/367, 5-19=-709/414, 7-19=-709/414, 7-12=0/211, 3-16=-397/262, 9-12=-259/218, 1-17=-349/1301, 3-17=-189/641

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 2-7-15, Interior (1) 2-7-15 to 15-11-8, Exterior (2) 15-11-8 to 18-11-8, Interior (1) 18-11-8 to 29-11-0 zone; cantilever left and right exposed; end vertical 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 18, 298 lb uplift at joint 11, 390 lb uplift at joint 15 and 120 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 26, 2025

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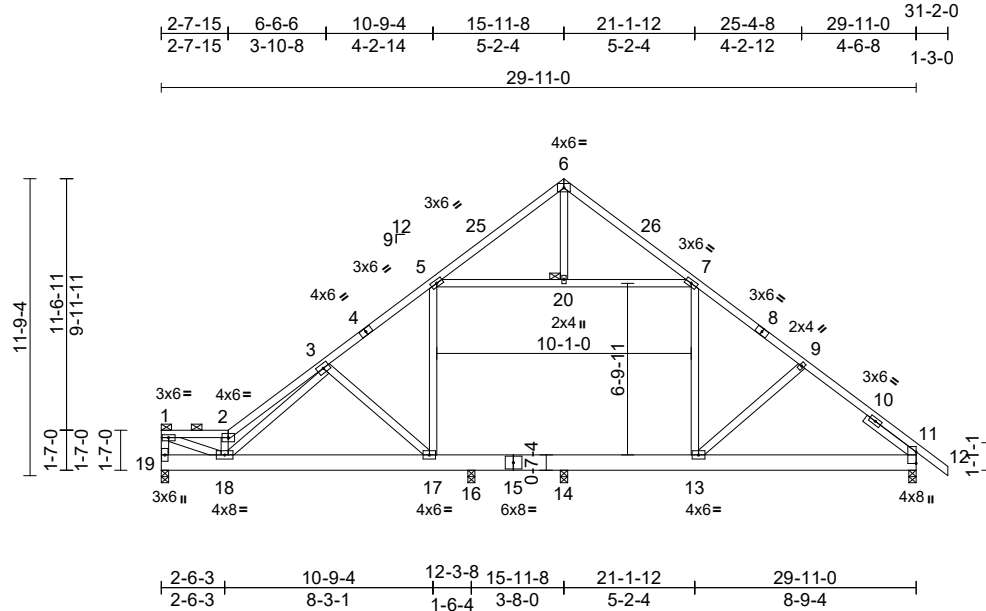
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630010
4493320	A08	Roof Special	3	1	Job Reference (optional)	

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 Feb 25 09:54:54

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Scale = 1:91.3

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	0.32	Vert(LL)	-0.05	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.11	17-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	13-23	>999	240	Weight: 223 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS	2x4 SP No.3 *Except* 19-1:2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-1 max.): 1-2.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS	1 Brace at Jt(s): 1, 20
--------	-------------------------

REACTIONS	(size) 11=0-3-8, 14=0-3-8, 16=0-3-8, 19=0-3-8
	Max Horiz 19=368 (LC 8)
	Max Uplift 11=339 (LC 13), 14=120 (LC 8), 16=391 (LC 12), 19=266 (LC 13)
	Max Grav 11=1040 (LC 20), 14=502 (LC 20), 16=701 (LC 19), 19=879 (LC 20)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-19=-633/174, 1-2=-1256/342, 2-3=-1752/540, 3-5=-1130/540, 5-6=-352/166, 6-7=-350/162, 7-9=-974/379, 9-11=-1028/389, 11-12=0/45
BOT CHORD	18-19=-301/371, 17-18=-215/924, 16-17=-19/665, 14-16=-19/665, 13-14=-19/665, 11-13=-159/798
WEBS	2-18=-1150/376, 6-20=-11/19, 5-17=-221/364, 5-20=-709/412, 7-20=-709/412, 7-13=0/208, 3-17=-397/262, 9-13=-260/217, 1-18=-346/1294, 3-18=-190/642

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) 0-1-12 to 2-7-15, Interior (1) 2-7-15 to 15-11-8, Exterior (2) 15-11-8 to 18-11-8, Interior (1) 18-11-8 to 31-2-0 zone; cantilever left and right exposed; end vertical 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 19, 339 lb uplift at joint 11, 391 lb uplift at joint 16 and 120 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 26, 2025

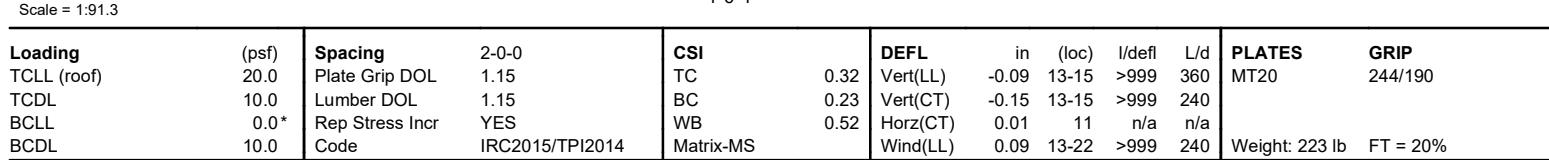
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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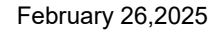
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NOTES

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

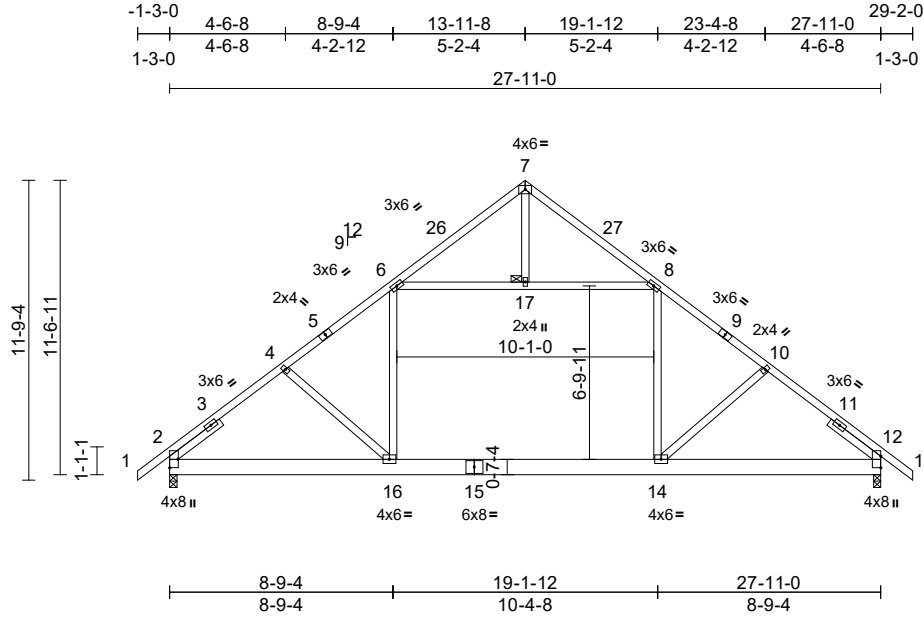


Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630012
4493320	A10	Common	3	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:90.4

Plate Offsets (X, Y): [2:Edge,0-3-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.14	14-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.17	14-24	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	16-20	>999	240	Weight: 207 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E or 2x8 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 17

REACTIONS	(size) 2=0-3-8, 12=0-3-8
	Max Horiz 2=-381 (LC 10)
	Max Uplift 2=-306 (LC 12), 12=-306 (LC 13)
	Max Grav 2=1261 (LC 19), 12=1261 (LC 20)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/45, 2-4=-1552/400, 4-6=-1458/422, 6-7=-355/168, 7-8=-355/168, 8-10=-1457/422, 10-12=-1551/400, 12-13=0/45
BOT CHORD	2-16=-350/1362, 14-16=-170/1214, 12-14=-219/1215
WEBS	6-16=-51/478, 8-14=-50/477, 6-17=-1003/336, 8-17=-1003/336, 4-16=-222/242, 10-14=-222/243, 7-17=-9/27

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 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 29-2-0 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 2400F 2.0E or DSS.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 2 and 306 lb uplift at joint 12.

LOAD CASE(S) Standard



February 26, 2025

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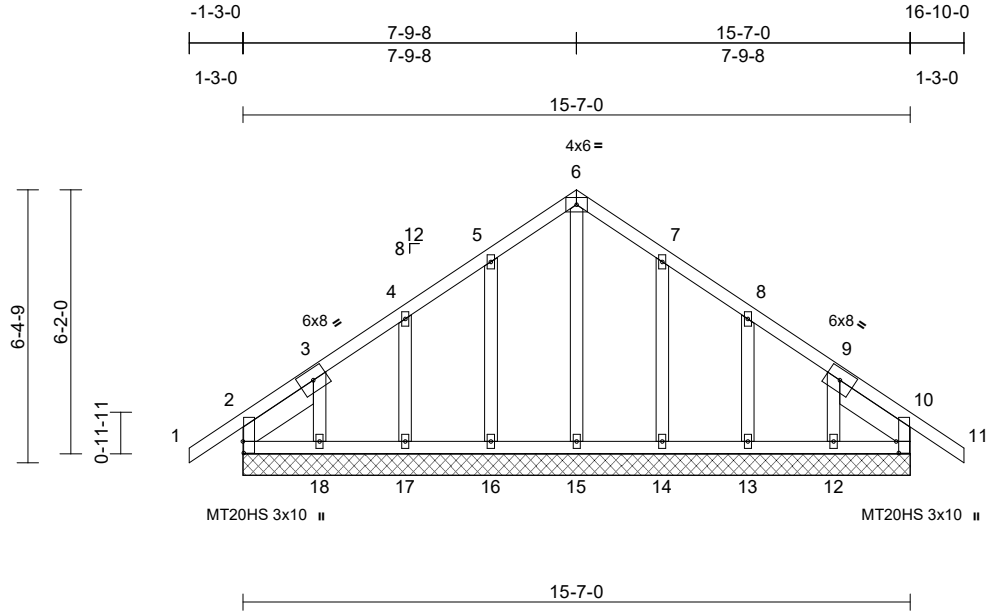
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630013
4493320	B01	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 Feb 25 09:54:55
ID:OLLnIPksbVCi041Hv8ieOqyy841-RFC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:53.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 101 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 -- 2-1-15, Right 2x6 SP No.2 -- 2-1-15

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=15-7-0, 10=15-7-0, 12=15-7-0, 13=15-7-0, 14=15-7-0, 15=15-7-0, 16=15-7-0, 17=15-7-0, 18=15-7-0
Max Horiz		2=-201 (LC 10)
Max Uplift		2=-74 (LC 8), 10=-21 (LC 9), 12=-139 (LC 13), 13=-102 (LC 13), 14=-105 (LC 13), 16=-107 (LC 12), 17=-100 (LC 12), 18=-155 (LC 12)
Max Grav		2=198 (LC 20), 10=176 (LC 1), 12=173 (LC 20), 13=182 (LC 20), 14=189 (LC 20), 15=175 (LC 22), 16=191 (LC 19), 17=180 (LC 19), 18=190 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/42, 2-3=-66/63, 3-4=-117/106, 4-5=-103/135, 5-6=-170/190, 6-7=-170/190, 7-8=-103/111, 8-9=-66/45, 9-10=-64/63, 10-11=0/42
BOT CHORD	2-18=-84/143, 17-18=-84/143, 16-17=-84/143, 15-16=-84/143, 14-15=-84/143, 13-14=-84/143, 12-13=-84/143, 10-12=-84/143
WEBS	6-15=-134/58, 5-16=-162/130, 4-17=-162/128, 3-18=-181/162, 7-14=-162/128, 8-13=-163/129, 9-12=-186/149

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 Corner (3) -1-3-0 to 1-9-8, Exterior (2) 1-9-8 to 7-9-8, Corner (3) 7-9-8 to 10-9-8, Exterior (2) 10-9-8 to 16-10-0 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
- 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 MT20 plates unless otherwise indicated.
- 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 74 lb uplift at joint 2, 21 lb uplift at joint 10, 107 lb uplift at joint 16, 100 lb uplift at joint 17, 155 lb uplift at joint 18, 105 lb uplift at joint 14, 102 lb uplift at joint 13, 139 lb uplift at joint 12, 74 lb uplift at joint 2 and 21 lb uplift at joint 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 19.

LOAD CASE(S) Standard



February 26, 2025

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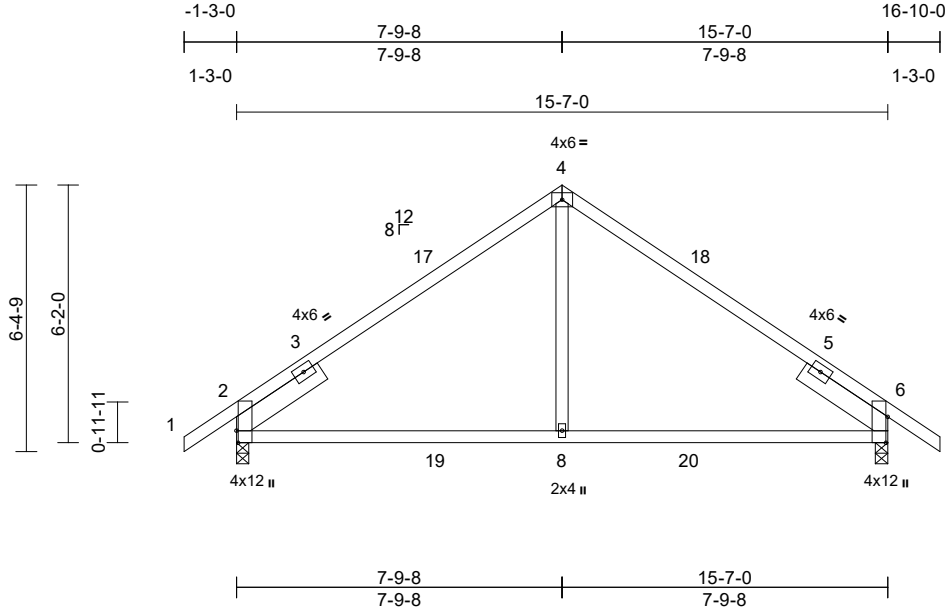
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630014
4493320	B02	Common	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 Feb 25 09:54:56
ID:Oplx9nKXb3wXxsRlv?5g0fy84Z-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:55.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.10	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.16	8-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.08	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	8-11	>999	240	Weight: 76 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 4-11-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-201 (LC 10)
Max Uplift	2=-193 (LC 12), 6=-193 (LC 13)
Max Grav	2=744 (LC 19), 6=744 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/42, 2-4=-744/354, 4-6=-744/354, 6-7=0/42
BOT CHORD	2-8=-359/601, 6-8=-236/601
WEBS	4-8=0/378

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 7-9-8, Exterior (2) 7-9-8 to 10-9-8, Interior (1) 10-9-8 to 16-10-0 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 193 lb uplift at joint 2 and 193 lb uplift at joint 6.

LOAD CASE(S) Standard



February 26, 2025

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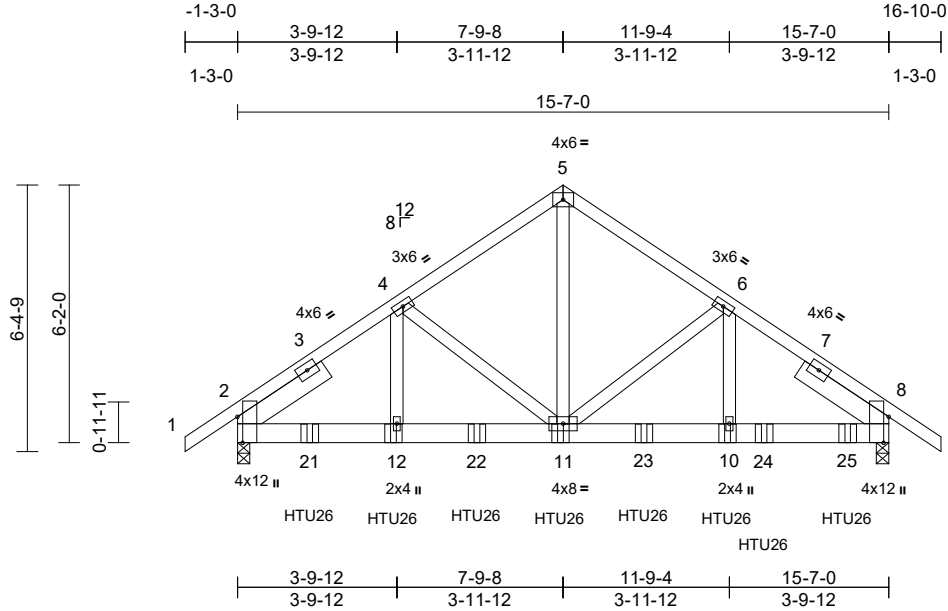
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630015
4493320	B03	Common Girder	1	3	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 Feb 25 09:54:56
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Page: 1



Scale = 1:55.1

Plate Offsets (X, Y): [2:0-7-8,Edge], [8:0-7-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.04	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.08	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	11-12	>999	240	Weight: 333 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.
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=201 (LC 7)
Max Uplift	2=-1101 (LC 8), 8=-1373 (LC 9)
Max Grav	2=4211 (LC 1), 8=5209 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/42, 2-4=-5155/1346, 4-5=-3997/1101, 5-6=-3998/1101, 6-8=-5780/1516, 8-9=0/42
BOT CHORD	2-12=-1112/4161, 11-12=-1112/4161, 10-11=-1148/4686, 8-10=-1148/4686
WEBS	4-12=-320/1356, 4-11=-1104/421, 5-11=-1061/4049, 6-11=-1770/603, 6-10=-524/2104

NOTES

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1101 lb uplift at joint 2 and 1373 lb uplift at joint 8.
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 14-7-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-9=-60, 13-17=-20
Concentrated Loads (lb)
Vert: 12=-946 (B), 11=-946 (B), 10=-950 (B), 21=-946 (B), 22=-946 (B), 23=-946 (B), 24=-1171 (B), 25=-1171 (B)



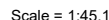
February 26, 2025

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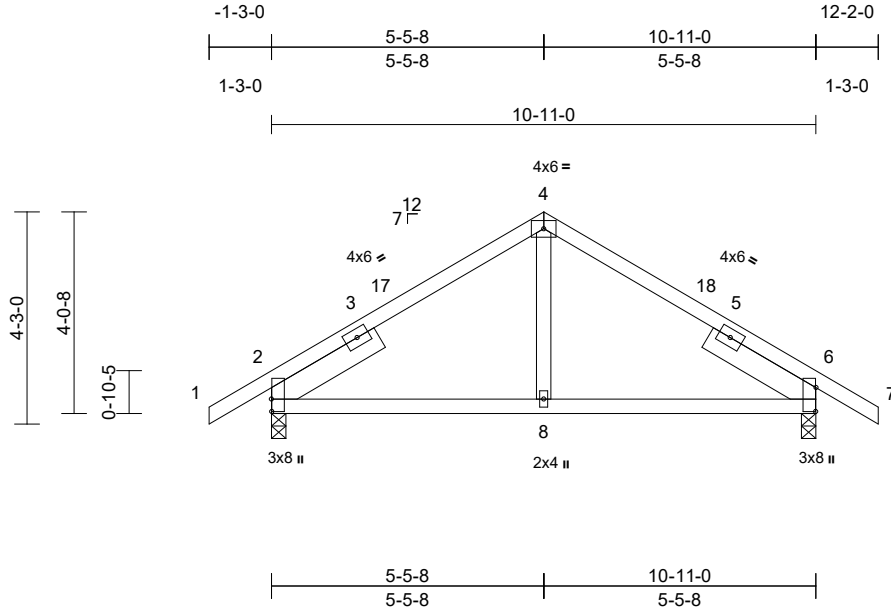
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630017
4493320	C02	Common	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 Feb 25 09:54:56
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Page: 1



Scale = 1:46.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	8-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	8-11	>999	240	Weight: 57 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 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-131 (LC 10)
Max Uplift	2=-151 (LC 12), 6=-151 (LC 13)
Max Grav	2=512 (LC 1), 6=512 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/38, 2-4=-473/175, 4-6=-474/175, 6-7=0/38
BOT CHORD	2-8=-185/362, 6-8=-123/362
WEBS	4-8=0/222

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 5-5-8, Exterior (2) 5-5-8 to 8-5-8, Interior (1) 8-5-8 to 12-2-0 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2 and 151 lb uplift at joint 6.

LOAD CASE(S) Standard



February 26, 2025

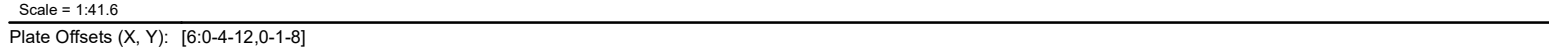
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Tue Feb 25 09:54:57 Page: 1
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LUMBER		4) Wind: ASCE 7-10; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS	II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
WEBS	2x4 SP No.2	cantilever left and right exposed ; end vertical left and
SLIDER	Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2	right exposed; Lumber DOL=1.60 plate grip DOL=1.60
	-- 2-6-0	

REACTIONS		Notes	
(size)	1=0-3-8, 5=0-3-8	7)	All bearings are assumed to be SP 2400F 2.0E or DSS .
Max Horiz	1=-106 (LC 6)	8)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 942 lb uplift at joint 1 and 862 lb uplift at joint 5
Max Uplift	1=-942 (LC 8), 5=-862 (LC 9)		
Max Grav	1=3469 (LC 15), 5=3039 (LC 16)		

FORCES	(lb) - Maximum Compression/Maximum Tension	9) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-12 from the left end to 8-9-4 to connect truss(es) to front face of bottom chord.
TOP CHORD	1-3=-3794/1087, 3-5=-3839/1089	10) Fill all nail holes where hanger is in contact with lumber.
BOT CHORD	1-6=-873/3297, 5-6=-873/3297	
WEBS	3-6=-943/3604	

- 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 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- 4) 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
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP 2400F 2.0E or DSS .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 942 lb uplift at joint 1 and 862 lb uplift at joint 5.
- 9) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-12 from the left end to 8-9-4 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 7-11=-20
Concentrated Loads (lb)
Vert: 15=-921 (F), 16=-1171 (F), 17=-1171 (F),
18=-974 (F), 19=-974 (F)



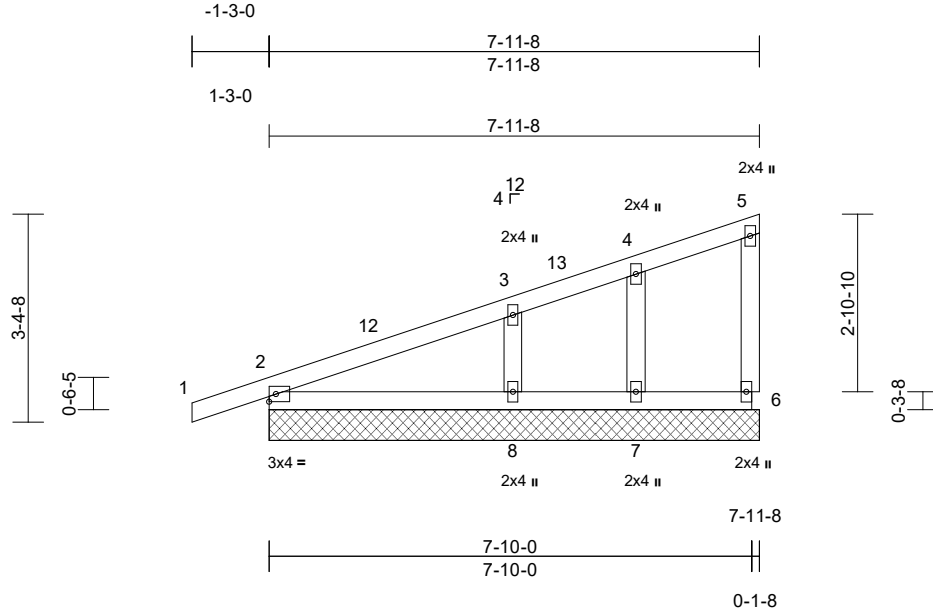
Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630019
4493320	M01	Monopitch Supported Gable	2	1	Job Reference (optional)	

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 Feb 25 09:54:57

Page: 1

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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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	2=7-11-8, 6=7-11-8, 7=7-11-8, 8=7-11-8
	Max Horiz	2=165 (LC 8)
	Max Uplift	2=-87 (LC 8), 6=-34 (LC 12), 7=-43 (LC 8), 8=-140 (LC 12)
	Max Grav	2=222 (LC 1), 6=74 (LC 1), 7=107 (LC 1), 8=297 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/24, 2-3=-293/102, 3-4=-95/19, 4-5=-31/13, 5-6=-53/92
BOT CHORD	2-8=-154/71, 7-8=-6/5, 6-7=-6/5
WEBS	4-7=-89/180, 3-8=-209/244

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 7-9-12 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
- 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 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 87 lb uplift at joint 2, 34 lb uplift at joint 6, 43 lb uplift at joint 7, 140 lb uplift at joint 8 and 87 lb uplift at joint 2.

LOAD CASE(S) Standard



February 26, 2025

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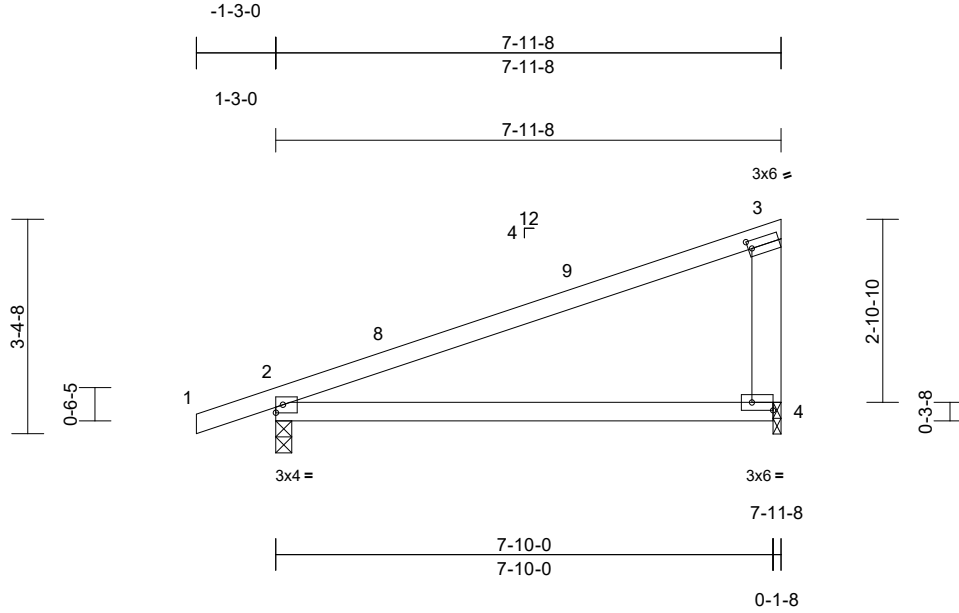
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630020
4493320	M02	Monopitch	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 Feb 25 09:54:57
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Page: 1



Scale = 1:36.3

Plate Offsets (X, Y): [3:0-0-11,0-1-8], [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	0.74	Vert(LL)	0.32	4-7	>289	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.23	4-7	>396	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-0, 4=0-1-8
Max Horiz 2=163 (LC 8)
Max Uplift 2=-256 (LC 8), 4=-225 (LC 8)
Max Grav 2=390 (LC 1), 4=303 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-261/169, 3-4=-197/195
BOT CHORD 2-4=-249/198

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) 1-1-3-0 to 1-9-0, Interior (1) 1-9-0 to 7-8-12 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 4 SP No.2.

- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 2 and 225 lb uplift at joint 4.

LOAD CASE(S) Standard



February 26, 2025

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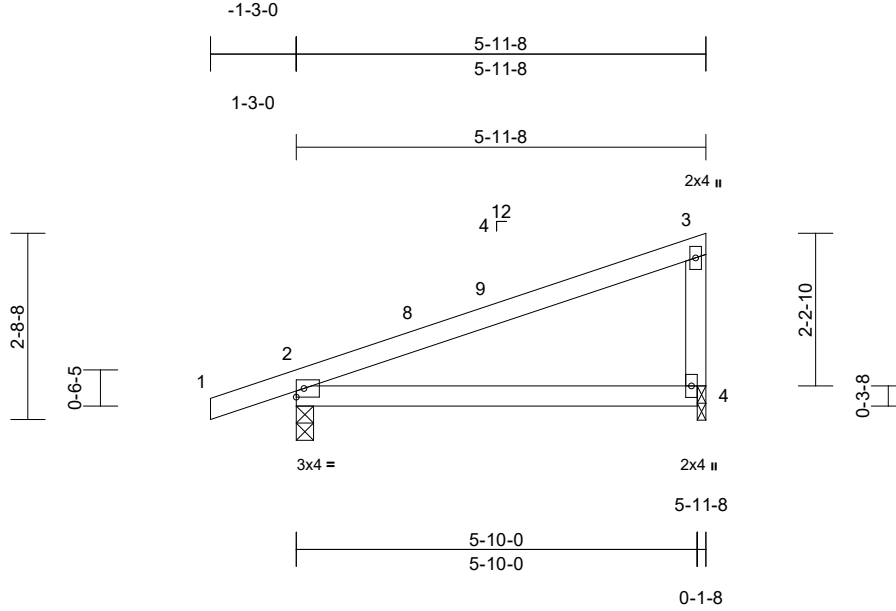
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630021
4493320	M03	Monopitch	15	1	Job Reference (optional)	

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

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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	0.52	Vert(LL)	0.17	4-7	>415	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.11	4-7	>619	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 4=0-1-8

Max Horiz 2=130 (LC 8)
Max Uplift 2=-213 (LC 8), 4=-167 (LC 8)
Max Grav 2=316 (LC 1), 4=224 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-192/150, 3-4=-154/190
BOT CHORD 2-4=-161/139

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) -1-3-0 to 1-9-0, Interior (1) 1-9-0 to 5-9-12 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
- 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.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2 and 167 lb uplift at joint 4.

LOAD CASE(S) Standard



February 26, 2025

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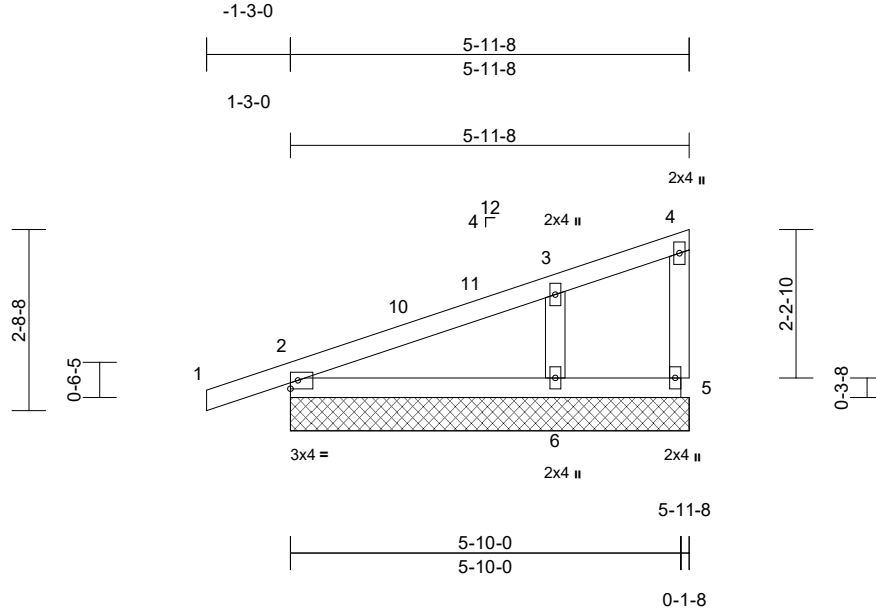
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630022
4493320	M04	Monopitch 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 Feb 25 09:54:57
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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	0.18	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	2	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size) 2=5-11-8, 5=5-11-8, 6=5-11-8
	Max Horiz 2=130 (LC 8)
	Max Uplift 2=-100 (LC 8), 5=-9 (LC 8), 6=-136 (LC 12)
	Max Grav 2=220 (LC 1), 5=20 (LC 1), 6=301 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/24, 2-3=-305/103, 3-4=-29/3, 4-5=-19/53
BOT CHORD	2-6=-137/66, 5-6=0/0
WEBS	3-6=-212/350

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 5-9-12 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
- 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 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 100 lb uplift at joint 2, 9 lb uplift at joint 5, 136 lb uplift at joint 6 and 100 lb uplift at joint 2.

LOAD CASE(S) Standard



February 26, 2025

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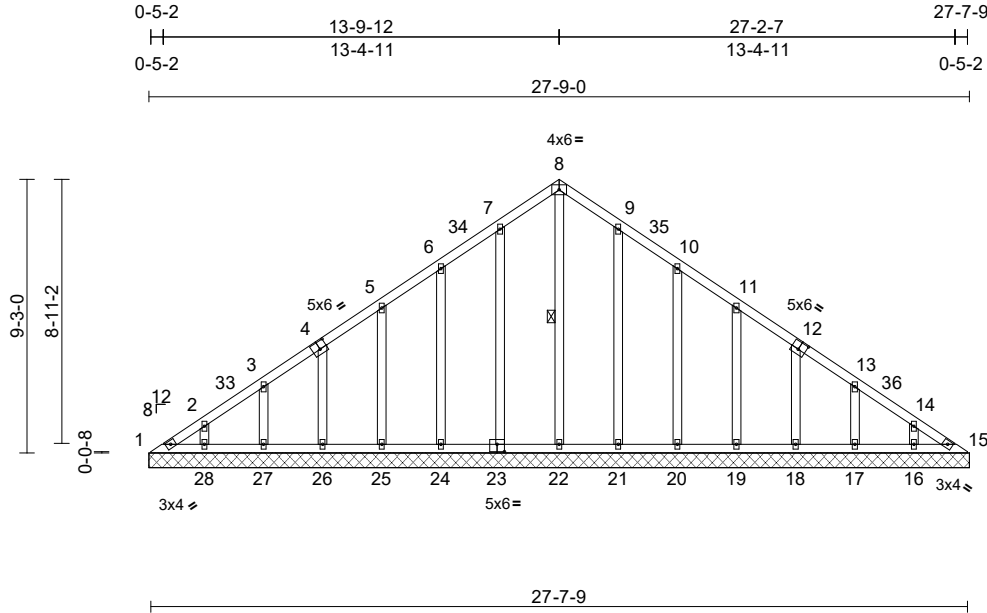
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630023
4493320	V01	Valley	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:77.9

Plate Offsets (X, Y): [4:0-3-0,0-3-0], [12:0-3-0,0-3-0], [23:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.01	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
Weight: 174 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.

WEBS 1 Row at midpt 8-22

REACTIONS (size) 1=27-9-0, 15=27-9-0, 16=27-9-0, 17=27-9-0, 18=27-9-0, 19=27-9-0, 20=27-9-0, 21=27-9-0, 22=27-9-0, 23=27-9-0, 24=27-9-0, 25=27-9-0, 26=27-9-0, 27=27-9-0, 28=27-9-0

Max Horiz 1=303 (LC 9)
Max Uplift 1=-75 (LC 8), 15=-4 (LC 9), 16=-58 (LC 13), 17=-103 (LC 13), 18=-98 (LC 13), 19=-109 (LC 13), 20=-106 (LC 13), 21=-96 (LC 13), 23=-100 (LC 12), 24=-106 (LC 12), 25=-109 (LC 12), 26=-99 (LC 12), 27=-102 (LC 12), 28=-66 (LC 12)

Max Grav 1=133 (LC 20), 15=86 (LC 22), 16=179 (LC 20), 17=172 (LC 20), 18=177 (LC 20), 19=189 (LC 20), 20=179 (LC 20), 21=187 (LC 20), 22=255 (LC 13), 23=193 (LC 19), 24=175 (LC 19), 25=190 (LC 19), 26=178 (LC 19), 27=170 (LC 19), 28=187 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-295/237, 2-3=-239/212, 3-5=-192/183, 5-6=-142/189, 6-7=-182/239, 7-8=-247/280, 8-9=-247/266, 9-10=-184/188, 10-11=-118/121, 11-13=-86/70, 13-14=-159/100, 14-15=-217/148

BOT CHORD 1-28=-141/219, 27-28=-141/219, 26-27=-141/219, 25-26=-149/222, 24-25=-149/222, 22-24=-149/222, 21-22=-147/222, 20-21=-147/222, 19-20=-147/222, 18-19=-147/222, 17-18=-139/216, 16-17=-139/216, 15-16=-139/216
WEBS 8-22=-230/137, 7-23=-154/124, 6-24=-160/129, 5-25=-167/133, 4-26=-154/123, 3-27=-151/123, 2-28=-139/97, 9-21=-153/120, 10-20=-160/130, 11-19=-167/133, 12-18=-154/123, 13-17=-151/124, 14-16=-139/94

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 13-10-8, Exterior (2) 13-10-8 to 16-10-8, Interior (1) 16-10-8 to 27-9-0 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
- 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 75 lb uplift at joint 1, 100 lb uplift at joint 23, 106 lb uplift at joint 24, 109 lb uplift at joint 25, 99 lb uplift at joint 26, 102 lb uplift at joint 27, 66 lb uplift at joint 28, 96 lb uplift at joint 21, 106 lb uplift at joint 20, 109 lb uplift at joint 19, 98 lb uplift at joint 18, 103 lb uplift at joint 17, 58 lb uplift at joint 16 and 4 lb uplift at joint 15.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 15.

LOAD CASE(S) Standard



February 26, 2025

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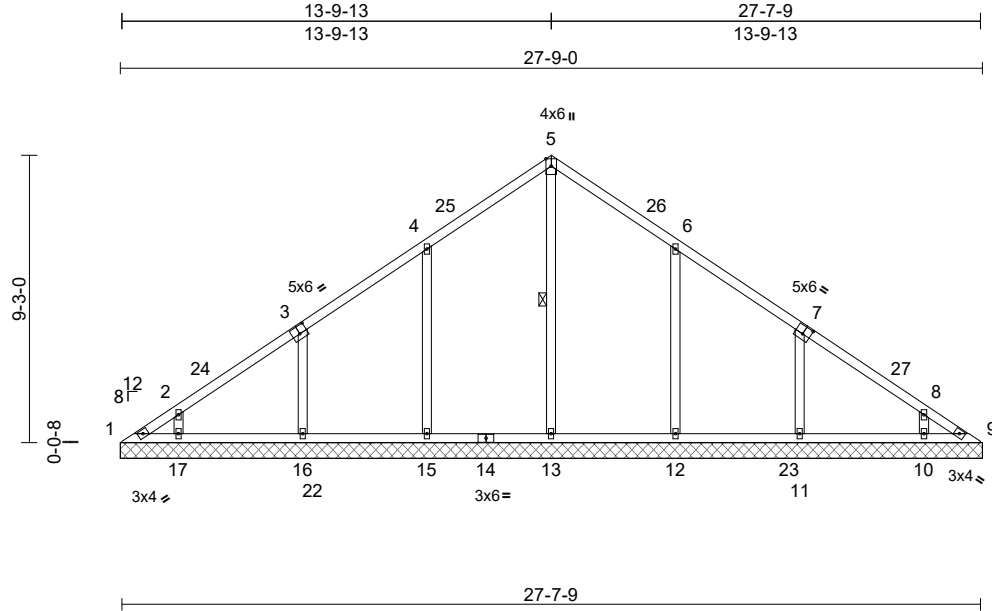
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630024
4493320	V02	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 Feb 25 09:54:58
ID:?HcYTzPCfXQ8Vndve_W2yy8oF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.01	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 132 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.

WEBS 1 Row at midpt 5-13

REACTIONS (size) 1=27-9-1, 9=27-9-1, 10=27-9-1, 11=27-9-1, 12=27-9-1, 13=27-9-1, 15=27-9-1, 16=27-9-1, 17=27-9-1
Max Horiz 1=-303 (LC 8)
Max Uplift 1=-87 (LC 10), 9=-17 (LC 11), 10=-120 (LC 13), 11=-205 (LC 13), 12=-228 (LC 13), 15=-229 (LC 12), 16=-204 (LC 12), 17=-127 (LC 12)
Max Grav 1=134 (LC 9), 9=85 (LC 22), 10=273 (LC 20), 11=411 (LC 20), 12=517 (LC 20), 13=424 (LC 22), 15=517 (LC 19), 16=410 (LC 19), 17=281 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-300/235, 2-4=-226/194, 4-5=-261/281, 5-6=-261/253, 6-8=-144/110, 8-9=-225/140

BOT CHORD 1-17=-119/205, 16-17=-110/205, 15-16=-125/212, 13-15=-125/212, 12-13=-125/212, 11-12=-125/212, 10-11=-110/199, 9-10=-110/199

WEBS 5-13=-228/43, 4-15=-341/277, 3-16=-315/251, 2-17=-251/200, 6-12=-341/276, 7-11=-315/252, 8-10=-251/197

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) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 13-10-8, Exterior (2) 13-10-8 to 16-10-8, Interior (1) 16-10-8 to 27-9-1 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) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 1, 17 lb uplift at joint 9, 229 lb uplift at joint 15, 204 lb uplift at joint 16, 127 lb uplift at joint 17, 228 lb uplift at joint 12, 205 lb uplift at joint 11 and 120 lb uplift at joint 10.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 9.

LOAD CASE(S) Standard



February 26, 2025

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

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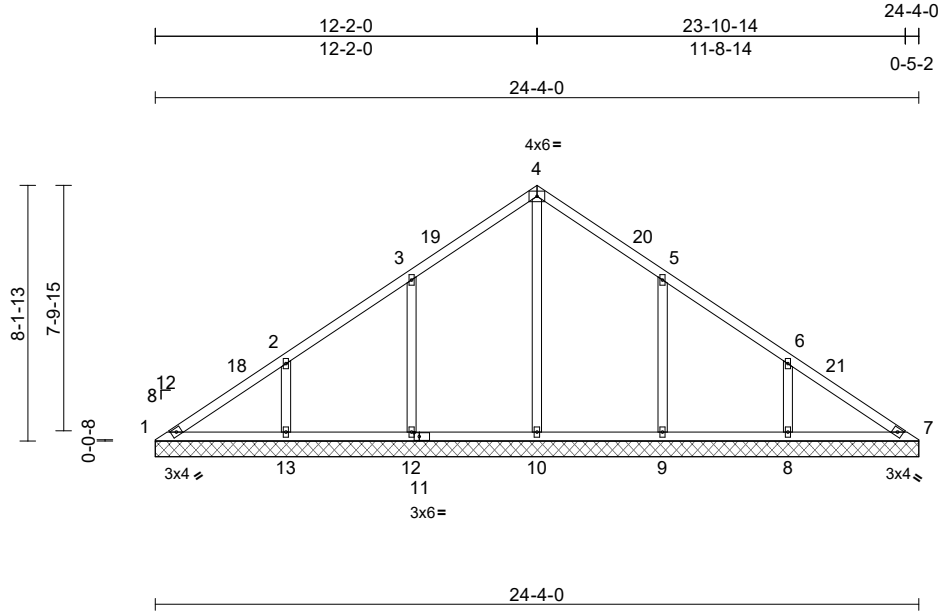
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630025
4493320	V03	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 Feb 25 09:54:58
ID:JTl8CGLrywateTzi4dJ6lyy8nq-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:73.4

Plate Offsets (X, Y): [11:0-2-0,0-1-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 111 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
OTHERS	2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS	(size)	1=24-4-0, 7=24-4-0, 8=24-4-0, 9=24-4-0, 10=24-4-0, 12=24-4-0, 13=24-4-0
	Max Horiz	1=-266 (LC 10)
	Max Uplift	1=-45 (LC 8), 8=-213 (LC 13), 9=-220 (LC 13), 12=-219 (LC 12), 13=-217 (LC 12)
	Max Grav	1=154 (LC 20), 7=116 (LC 24), 8=396 (LC 20), 9=428 (LC 20), 10=489 (LC 19), 12=420 (LC 19), 13=401 (LC 19)
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD		1-2=-231/245, 2-3=-130/195, 3-4=-149/228, 4-5=-149/200, 5-6=-38/118, 6-7=-161/170
BOT CHORD		1-13=-173/204, 12-13=-173/198, 10-12=-173/198, 9-10=-173/198, 8-9=-173/198, 7-8=-173/198
WEBS		4-10=-269/0, 3-12=-331/273, 2-13=-322/244, 5-9=-331/273, 6-8=-322/242

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) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 12-2-12, Exterior (2) 12-2-12 to 15-2-12, Interior (1) 15-2-12 to 24-4-12 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) 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) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 219 lb uplift at joint 12, 217 lb uplift at joint 13, 220 lb uplift at joint 9 and 213 lb uplift at joint 8.

LOAD CASE(S) Standard



February 26, 2025

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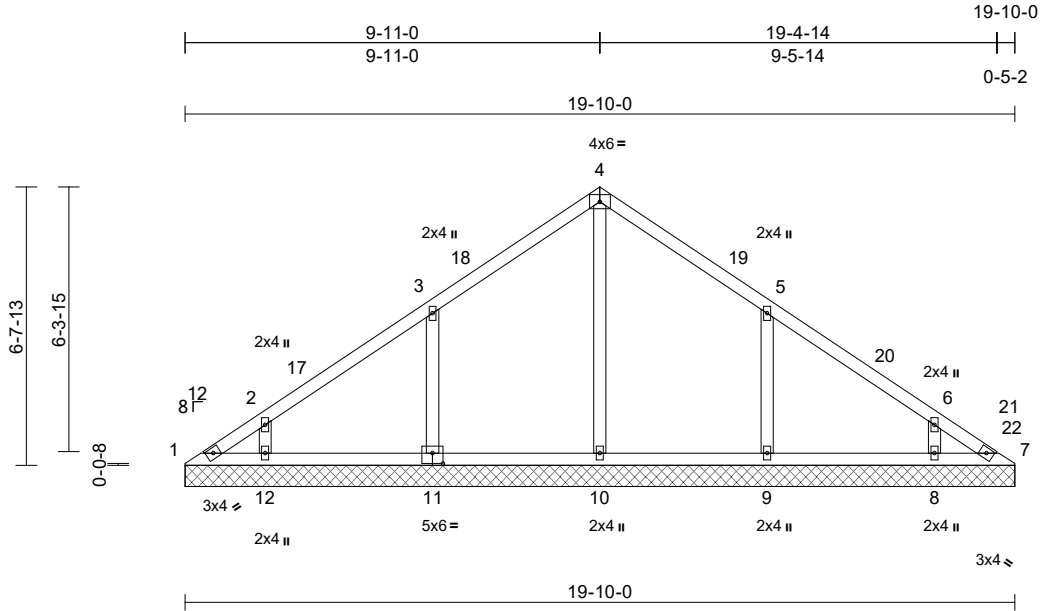
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630026
4493320	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 Feb 25 09:54:58
ID:3RYeBvKUGUzt_QMwVdDUopyy8nl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:55.1

Plate Offsets (X, Y): [11:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 85 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=19-10-0, 7=19-10-0, 8=19-10-0, 9=19-10-0, 10=19-10-0, 11=19-10-0, 12=19-10-0
Max Horiz	1=215 (LC 9)	
Max Uplift	1=-58 (LC 8), 7=-20 (LC 11), 8=-140 (LC 13), 9=-233 (LC 13), 11=-233 (LC 12), 12=-148 (LC 12)	
Max Grav	1=105 (LC 20), 7=67 (LC 13), 8=279 (LC 20), 9=455 (LC 20), 10=393 (LC 22), 11=454 (LC 19), 12=289 (LC 19)	

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-213/172, 2-3=-175/132, 3-4=-194/200, 4-5=-194/174, 5-6=-116/61, 6-7=-158/99
BOT CHORD	1-12=-82/133, 10-12=-66/133, 9-10=-66/133, 8-9=-66/133, 7-8=-66/133
WEBS	4-10=-178/0, 3-11=-345/281, 2-12=-265/211, 5-9=-345/281, 6-8=-264/208

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) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 9-11-12, Exterior (2) 9-11-12 to 12-11-12, Interior (1) 12-11-12 to 19-5-12 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) 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 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be SP No.2.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 20 lb uplift at joint 7, 233 lb uplift at joint 11, 148 lb uplift at joint 12, 233 lb uplift at joint 9 and 140 lb uplift at joint 8.

LOAD CASE(S) Standard



February 26, 2025

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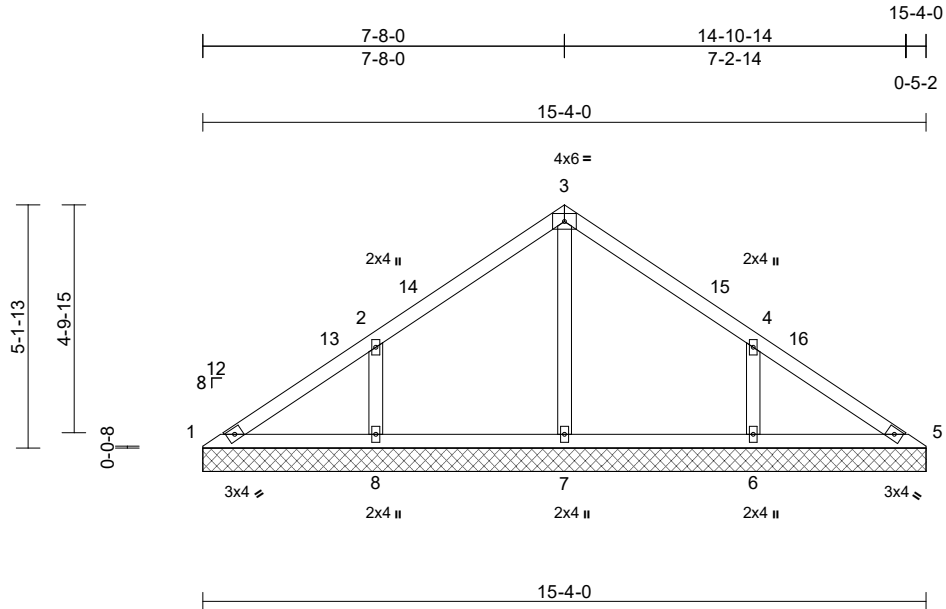
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630027
4493320	V05	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 Feb 25 09:54:59
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Page: 1



Scale = 1:48.8

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 61 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)	1=15'-4"-0, 5=15'-4"-0, 6=15'-4"-0, 7=15'-4"-0, 8=15'-4"-0
Max Horiz	1=-166 (LC 8)
Max Uplift	1=-26 (LC 13), 6=-226 (LC 13), 8=-228 (LC 12)
Max Grav	1=113 (LC 20), 5=96 (LC 24), 6=402 (LC 20), 7=327 (LC 1), 8=405 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-152/177, 2-3=-74/144, 3-4=-74/123, 4-5=-114/128
BOT CHORD	1-8=-114/147, 7-8=-114/118, 6-7=-114/118, 5-6=-114/118
WEBS	3-7=-256/36, 2-8=-332/259, 4-6=-332/257

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"-12 to 3'-0"-12, Interior (1) 3'-0"-12 to 7'-8"-12, Exterior (2) 7'-8"-12 to 10'-8"-12, Interior (1) 10'-8"-12 to 15'-4"-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
- 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'-0"-0 tall by 2'-0"-0 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 26 lb uplift at joint 1, 228 lb uplift at joint 8 and 226 lb uplift at joint 6.

LOAD CASE(S) Standard



February 26, 2025

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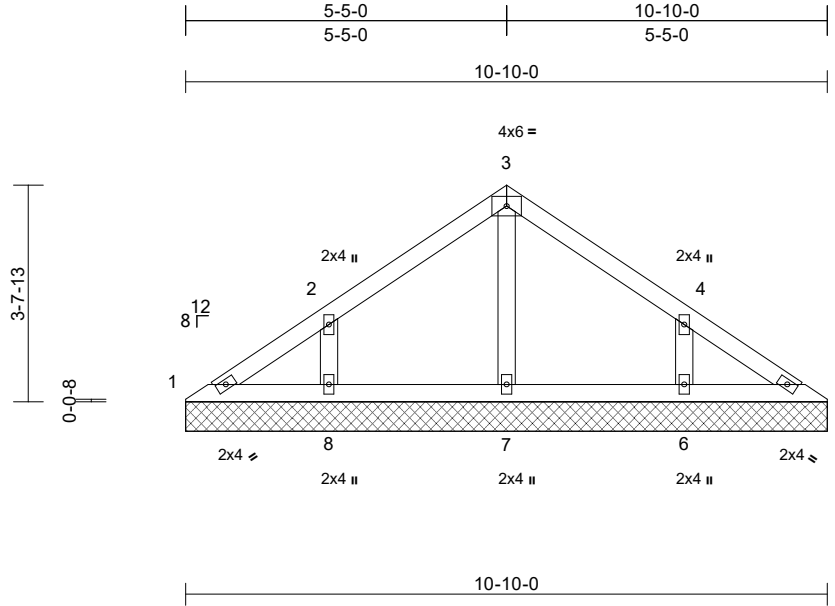
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630028
4493320	V06	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 Feb 25 09:54:59
ID:aGetdcglj9vADMjJGtJgA2yx8UX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.9

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 42 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)	1=10-10-0, 5=10-10-0, 6=10-10-0, 7=10-10-0, 8=10-10-0
Max Horiz	1=116 (LC 11)
Max Uplift	1=-22 (LC 13), 5=-3 (LC 12), 6=-156 (LC 13), 8=-159 (LC 12)
Max Grav	1=86 (LC 20), 5=72 (LC 1), 6=283 (LC 20), 7=219 (LC 1), 8=286 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-112/103, 2-3=-83/102, 3-4=-83/95, 4-5=-80/66
BOT CHORD	1-8=-54/98, 7-8=-54/74, 6-7=-54/74, 5-6=-54/74
WEBS	3-7=-162/24, 2-8=-241/185, 4-6=-241/184

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) 0-0-12 to 3-0-12, Exterior (2) 3-0-12 to 5-5-12, Corner (3) 5-5-12 to 8-5-12, Exterior (2) 8-5-12 to 10-10-12 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
- 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 3-0-0 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 22 lb uplift at joint 1, 3 lb uplift at joint 5, 159 lb uplift at joint 8 and 156 lb uplift at joint 6.
- LOAD CASE(S)** Standard



February 26, 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)

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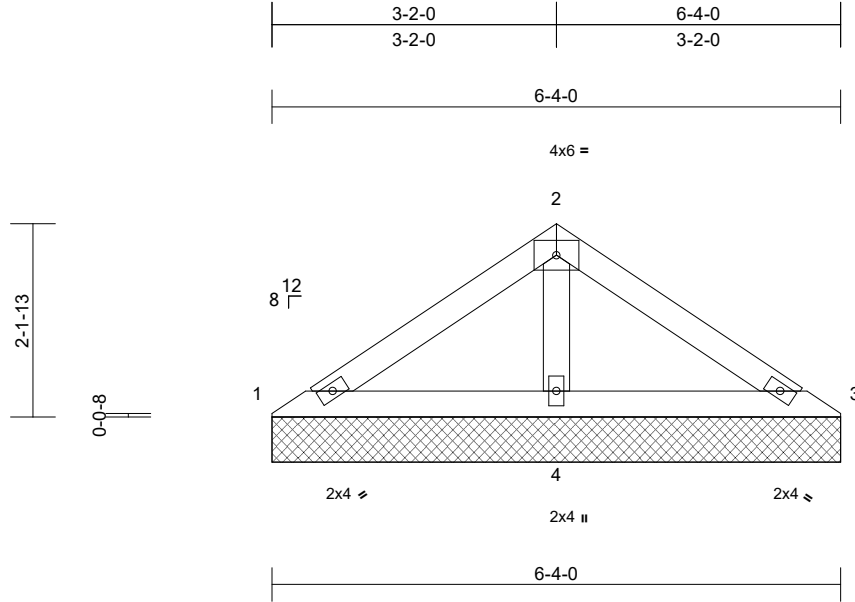
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	171630029
4493320	V07	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 Feb 25 09:54:59
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Page: 1



Scale = 1:25.7

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 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 6-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=6-4-0, 3=6-4-0, 4=6-4-0
Max Horiz 1=-66 (LC 10)
Max Uplift 1=-10 (LC 12), 3=-21 (LC 13), 4=-109 (LC 12)
Max Grav 1=70 (LC 23), 3=70 (LC 24), 4=404 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-66/157, 2-3=-66/153
BOT CHORD 1-4=-165/115, 3-4=-165/115
WEBS 2-4=-285/147

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 10 lb uplift at joint 1, 21 lb uplift at joint 3 and 109 lb uplift at joint 4.

LOAD CASE(S) Standard



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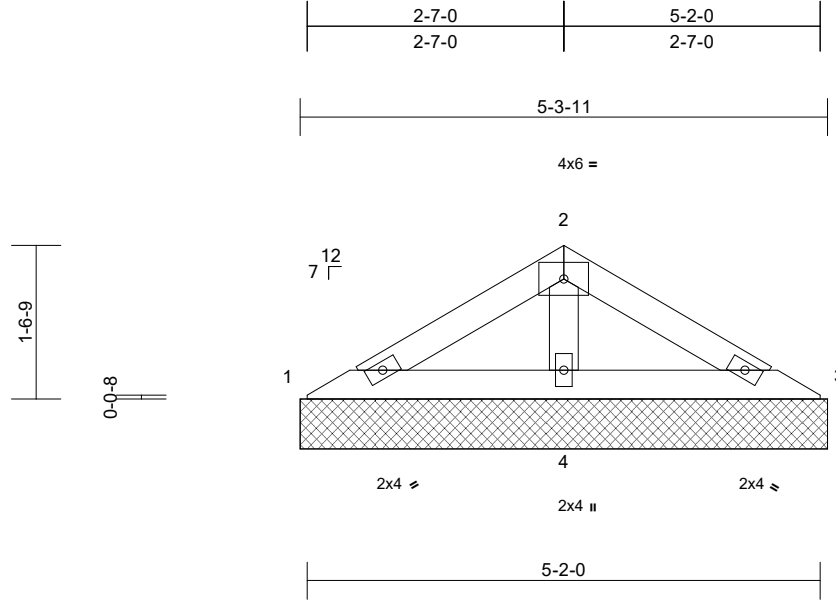
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WHITE OAK HOMES	I71630030
4493320	V08	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 Feb 25 09:54:59
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Page: 1



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 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 5-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=5-3-11, 3=5-3-11, 4=5-3-11
Max Horiz 1=46 (LC 11)
Max Uplift 1=-18 (LC 12), 3=-25 (LC 13), 4=-76 (LC 12)
Max Grav 1=67 (LC 23), 3=67 (LC 24), 4=317 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-67/119, 2-3=-67/117
BOT CHORD 1-4=-124/80, 3-4=-124/80
WEBS 2-4=-201/98

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 18 lb uplift at joint 1, 25 lb uplift at joint 3 and 76 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



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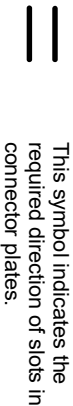
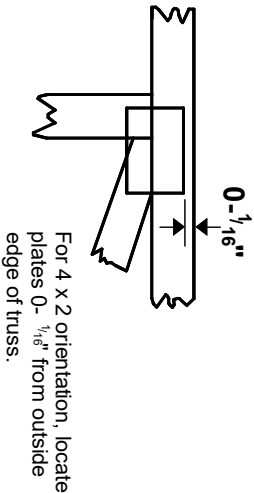
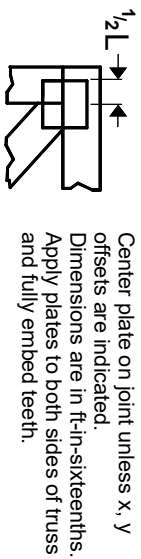
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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



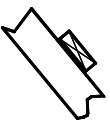
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

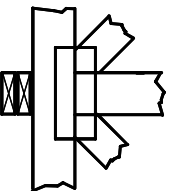
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

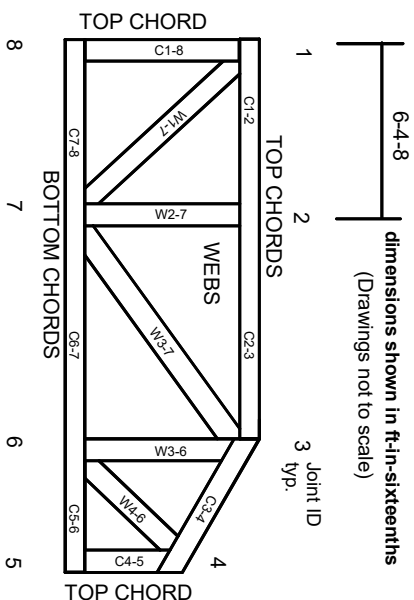


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: 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-EES 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 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.