

Trenco

818 Soundside Rd Edenton, NC 27932

RE: 2411-0122-B - Stonehaven Rev 2-ELEV. 1-Roof

Site Information:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track

Lot/Block: Subdivision:

Model: Address:

34

State: NC City:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-16 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Wind Speed: 120 mph Floor Load: N/A psf

Roof Load: 40.0 psf

Exposure Category: B Mean Roof Height (feet): 25

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	172531917	G1A	4/9/25	35	172531951	A2G	4/9/25
2	172531918 172531919	G1 G1G	4/9/25 4/9/25	36 37	172531952 172531953	A2B A2	4/9/25 4/9/25
4	1/2001919	D1	4/9/25	38	172531954	ÁŽSG	4/9/25
5	172531921	D1G	4/9/25	39	172531955	A2A	4/9/25
2 3 4 5 6 7	172531922 172531923	P1G P1	4/9/25 4/9/25	40 41	172531956 172531957	B2A B2B	4/9/25 4/9/25
8 9	172531924	ΡΊΑ	4/9/25	71	172531957	M1	4/9/25
9	172531925	A1	4/9/25	43	172531959	A3	4/9/25
10 11	172531926 172531927	A1G A1A	4/9/25 4/9/25	44 45	172531960 172531961	A3G H1	4/9/25 4/9/25
12	172531928	V1	4/9/25	46	172531962	B2GR	4/9/25
13	172531929	B2	4/9/25	47	172531963	B1GR	4/9/25
14	172531930 172531931	B1A B1	4/9/25 4/9/25	48 49	172531964 172531965	A1GR A2GR	4/9/25 4/9/25
16	172531932	B1G	4/9/25	50 50	172531966	A3GR	4/9/25
17	172531933	A1SG	4/9/25				
18 19	172531934 172531935	V2 V3	4/9/25 4/9/25				
20	I72531936	PB1	4/9/25				
21	172531937	PB1G	4/9/25				
22 23	172531938 172531939	G3G G3	4/9/25 4/9/25				
20	172001000	MD40	4/0/25				

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

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

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identification designs comply with ANSI/TD14. shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

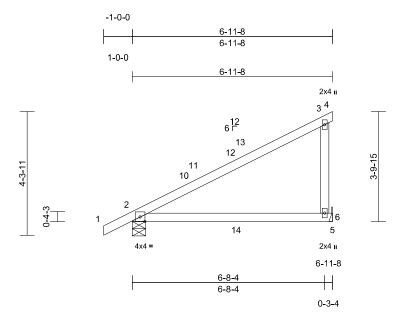
April 9,2025

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	G1A	Monopitch	20	1	I72531917 Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:40 ID:oRE05oQLHflzltZHAq4H_8zvacu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.19	6-9	>419	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.29	6-9	>280	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	6-9	>999	240		
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP SS 2x4 SP No.3 **WEBS**

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

2=0-5-8, 6= Mechanical REACTIONS (size)

Max Horiz 2=92 (LC 15)

Max Grav 2=408 (LC 40), 6=396 (LC 42)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-3=-159/109, 3-4=-10/0,

3-6=-324/159

BOT CHORD 2-6=-72/138, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP SS
- Refer to girder(s) for truss to truss connections
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

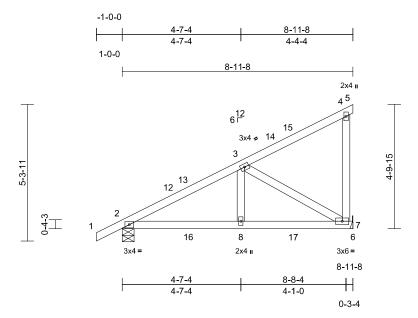
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	G1	Monopitch	20	1	I7253191 Job Reference (optional)	8

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:40 ID:gfQhoX3XMRWD9GGWQXYEmpzvadM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale	=	1.43	5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.07	7-8	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8-11	>999	240		
BCDL	10.0										Weight: 46 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied.

2=0-5-8, 7= Mechanical REACTIONS (size)

Max Horiz 2=117 (LC 15)

Max Grav 2=448 (LC 40), 7=437 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-3=-496/88, 3-4=-111/82, 4-5=-10/0, 4-7=-289/106

BOT CHORD 2-8=-181/460, 7-8=-181/460, 6-7=0/0

WEBS 3-7=-487/157, 3-8=0/352

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 8-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

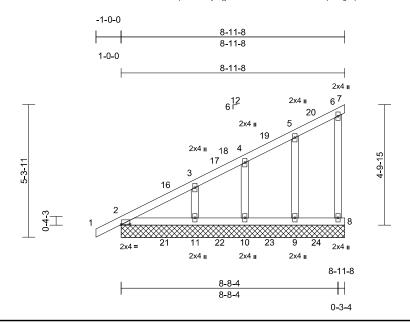


sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	G1G	Monopitch Supported Gable	4	1	Job Reference (optional)	I72531919

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:40 ID:oFploE2LHJjkNjy4f2VEZuzvac5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:44.9 Plate Offsets (X, Y): [2:0-4-4,0-0-4]

											_	
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	_	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 46 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=8-11-8, 7=8-11-8, 8=8-11-8, 9=8-11-8, 10=8-11-8, 11=8-11-8

Max Horiz 2=117 (LC 13)

Max Uplift 7=-76 (LC 44), 8=-11 (LC 43), 9=-5 (LC 16), 10=-6 (LC 16), 11=-8 (LC

16)

2=326 (LC 53), 7=104 (LC 45), Max Grav 8=285 (LC 63), 9=338 (LC 62),

10=320 (LC 61), 11=368 (LC 60)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-3=-282/164, 3-4=-207/129, 4-5=-149/115, 5-6=-85/87, 6-7=-36/46,

6-8=-213/65

BOT CHORD 2-11=-65/87, 10-11=-65/87, 9-10=-65/87,

8-9=-65/87

WEBS 5-9=-283/120, 4-10=-280/107, 3-11=-307/140

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph: TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint
- 13) N/A
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

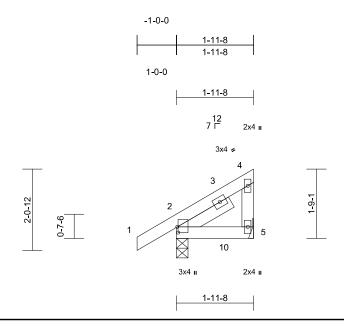


stors and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	D1	Monopitch	20	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:39 ID:mNK dabLOLIA9 fhZGkn? U9Nzvagt-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full first first



Scale = 1:28.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	5-8	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	5-8	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	8	>999	240		
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical Max Horiz 2=38 (LC 15)

Max Uplift 5=-5 (LC 13)

Max Grav 2=315 (LC 40), 5=283 (LC 42)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/42, 2-4=-174/66, 4-5=-267/47

BOT CHORD 2-5=-20/22

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
- Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 5.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

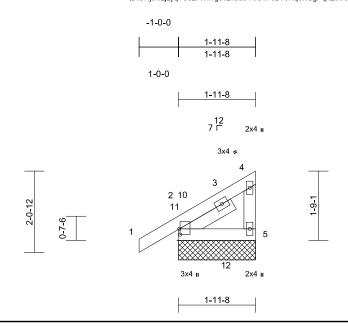
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	D1G	Monopitch Supported Gable	5	1	I7 Job Reference (optional)	'2531921

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:40 ID: UHj5wzjzyq? Coz77nf1gevzvado-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full fill for the first of the



Scale = 1:28.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=1-11-8, 5=1-11-8

Max Horiz 2=38 (LC 15)

Max Uplift 5=-5 (LC 13) Max Grav 2=315 (LC 43), 5=284 (LC 42)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/41, 2-4=-190/67, 4-5=-267/73

BOT CHORD 2-5=-20/27

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 5.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



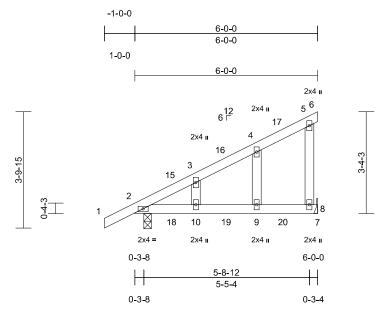
sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	P1G		4	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:44 ID:FSjLWSn5f1QY20H7Mk5SkNzUk0o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.10	9-10	>719	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.14	9-10	>486	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	9-10	>950	240		
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

10-0-0 oc bracing. **BOT CHORD**

REACTIONS 2=0-3-0, 8= Mechanical (size) Max Horiz 2=80 (LC 15)

Max Uplift 2=-5 (LC 12), 8=-34 (LC 13)

Max Grav 2=420 (LC 40), 8=366 (LC 44)

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

TOP CHORD 1-2=0/36, 2-3=-146/95, 3-4=-123/77,

4-5=-94/90, 5-6=-10/0, 5-8=-307/126

BOT CHORD 2-10=-86/190, 9-10=-43/46, 8-9=-43/46, 7-8=0/0

WEBS 4-9=-132/119, 3-10=-134/116

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1 15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint
- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord

LOAD CASE(S) Standard

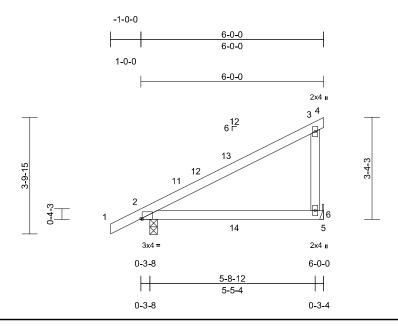


sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	P1		52	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:43 Page: 1



Scale = 1:36.8

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.11	6-10	>644	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.14	6-10	>482	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	6-10	>999	240		
BCDL	10.0	l									Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP SS **BOT CHORD** WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 6= Mechanical

Max Horiz 2=80 (LC 15)

Max Uplift 2=-5 (LC 12), 6=-34 (LC 13) Max Grav 2=420 (LC 40), 6=366 (LC 42)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/36, 2-3=-126/120, 3-4=-10/0,

TOP CHORD 3-6=-309/153

BOT CHORD 2-6=-86/190, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp ; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP SS.
- Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 6.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top

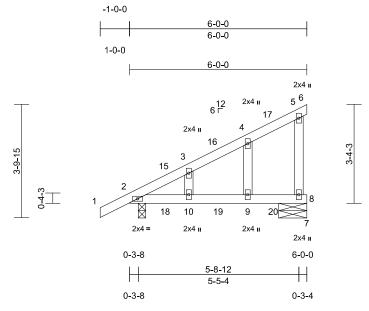
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	P1A		4	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:43 ID:OJeO5yzZa8meo4mz6JrRj2zUk?G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.9

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	0.58	Vert(LL)	-0.10	9-10	>719	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.14	9-10	>486	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	9-10	>950	240		
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

10-0-0 oc bracing. **BOT CHORD**

REACTIONS 2=0-3-0, 8=0-11-8 (size) Max Horiz 2=80 (LC 15)

Max Uplift 2=-5 (LC 12), 8=-34 (LC 13)

Max Grav 2=420 (LC 40), 8=366 (LC 44)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-3=-146/95, 3-4=-123/77,

4-5=-94/90, 5-6=-10/0, 5-8=-307/126 **BOT CHORD** 2-10=-86/190, 9-10=-43/46, 8-9=-43/46,

7-8=0/0 WEBS

4-9=-132/119, 3-10=-134/116

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1 15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top

LOAD CASE(S) Standard

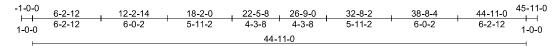


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J	ob	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
		A1	Piggyback Base	12	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:14 ID:pO4BmOAJWJOUwcaY6G2j87zvb12-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



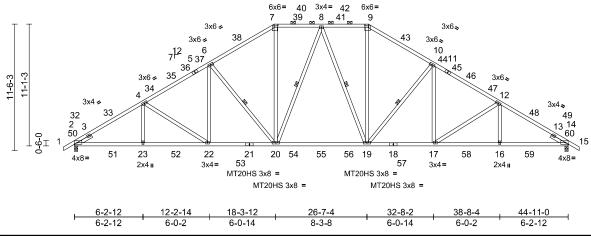


Plate Offsets (X, Y): [2:Edge,0-1-12], [7:0-4-0,0-2-4], [9:0-4-0,0-2-4], [14:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.33	19-20	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.56	19-20	>959	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.16	14	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	20	>999	240		
BCDL	10.0										Weight: 294 lb	FT = 20%

LUMBER

Scale = 1:101.9

TOP CHORD 2x4 SP No.2 2x4 SP SS **BOT CHORD WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-8-6 max.): 7-9.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 6-20, 8-20, 8-19, 10-19

REACTIONS 2=0-3-8, 14=0-3-8 (size) Max Horiz 2=-179 (LC 14)

Max Grav 2=2163 (LC 57), 14=2163 (LC 59)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-4=-3807/0, 4-6=-3448/0, 6-7=-2863/65, 7-8=-2391/89, 8-9=-2391/89,

9-10=-2863/65, 10-12=-3448/0, 12-14=-3807/0, 14-15=0/47

2-23=0/3207, 22-23=0/3207, 20-22=0/2868, BOT CHORD

19-20=0/2319, 17-19=0/2868, 16-17=0/3209,

14-16=0/3209

6-20=-913/55, 7-20=0/1070, 8-20=-300/116,

8-19=-300/116, 9-19=0/1070, 10-19=-913/55, 4-23=0/334, 4-22=-413/47, 6-22=0/460,

10-17=0/460, 12-17=-414/47, 12-16=0/334

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-2-0, Exterior(2R) 18-2-0 to 24-6-4, Interior (1) 24-6-4 to 26-9-0, Exterior(2R) 26-9-0 to 33-1-4, Interior (1) 33-1-4 to 45-11-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 8) Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 11) All bearings are assumed to be SP SS.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard

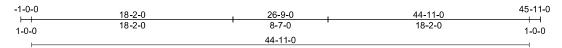


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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof		
	A1G	Piggyback Base Supported Gable	2	1	Job Reference (optional)	72531926	

Run: 8.83 E Feb 1 2025 Print: 8.830 E Feb 1 2025 MiTek Industries, Inc. Tue Apr 08 08:35:00 ID:R3e9td4sjf3G7niFqMRcV9zvb2S-nPwGT61_fkmj17DWkh9jKliGTgTb2?aWynsFxAzSqfw



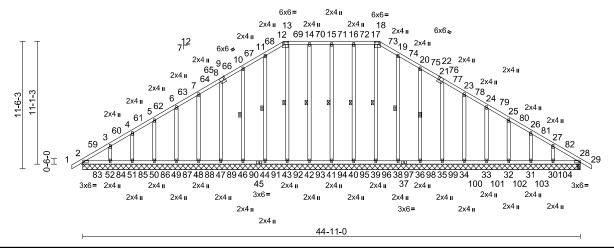


Plate Offsets (X, Y): [8:0-1-12,Edge], [12:0-4-8,0-2-8], [18:0-4-8,0-2-8], [21:0-1-12,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	30-58	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	30-58	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	28	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	52-55	>999	240		
BCDL	10.0										Weight: 354 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,

except

2-0-0 oc purlins (6-0-0 max.): 12-18.

BOT CHORD Rigid ceiling directly applied.

WFBS 1 Row at midpt

15-41, 14-42, 13-43, 11-44, 10-46, 16-40, 17-39, 19-38, 20-36

REACTIONS All bearings 44-11-0.

(lb) - Max Horiz 2=179 (LC 15)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 44, 46,

47, 48, 49, 50, 51, 52

All reactions 250 (lb) or less at joint (s) except 2=323 (LC 113), 28=296 Max Grav (LC 136), 30=350 (LC 159), 31=328 (LC 158), 32=335 (LC 157), 33=333 (LC 156), 34=334 (LC 155), 35=333 (LC 154), 36=334 (LC 153), 38=333 (LC 152), 39=330 (LC 151), 40=334 (LC 150), 41=334 (LC 149), 42=334 (LC 148), 43=330 (LC 147), 44=333 (LC 146), 46=334 (LC 145), 47=333 (LC 144), 48=334 (LC 143), 49=333 (LC

142), 50=335 (LC 141), 51=328 (LC 140), 52=350 (LC 139) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

WEBS 15-41=-265/38, 14-42=-266/38 13-43=-252/9, 11-44=-268/42,

10-46=-271/61, 8-47=-274/47, 7-48=-276/34, 6-49=-279/34, 5-50=-282/35, 4-51=-283/31, 3-52=-297/44, 16-40=-266/38, 17-39=-257/3.

19-38=-268/42, 20-36=-271/61, 22-35=-269/47, 23-34=-276/34, 24-33=-279/34, 25-32=-282/35

26-31=-283/32, 27-30=-297/43

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDI =6.0psf; BCDI =6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-2-0, Exterior(2R) 18-2-0 to 24-5-8, Interior (1) 24-5-8 to 26-9-0, Exterior(2R) 26-9-0 to 33-1-4, Interior (1) 33-1-4 to 45-11-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * 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.
- 12) N/A
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



stors and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	A1G	Piggyback Base Supported Gable	2	1	Job Reference (optional)	I72531926

Run: $8.83 \ E$ Feb $1\ 2025\ Print$: $8.830\ E$ Feb $1\ 2025\ MiTek$ Industries, Inc. Tue Apr $08\ 08:35:00$ $ID:R3e9td4sjf3G7niFqMRcV9zvb2S-nPwGT61_fkmj17DWkh9jKliGTgTb2?aWynsFxAzSqfw$

Page: 2

- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

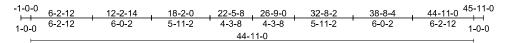
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	A1A	Attic	14	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:16 ID:K_B5K?ICC5M6K094aNfhT2zvaxj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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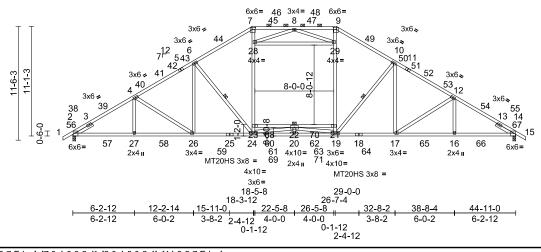


Plate Offsets (X, Y): [2:0-2-7,Edge], [7:0-4-0,0-2-4], [9:0-4-0,0-2-4], [14:0-2-7,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.37	17-19	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.64	21-22	>841	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.21	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.16	24-26	>999	240		
BCDL	10.0			1							Weight: 311 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5.11-15:2x4 SP SS 2x4 SP SS *Except* 23-21:2x4 SP No.2 **BOT CHORD WEBS** 2x4 SP No.3 *Except* 7-24,9-19,28-29:2x4

SLIDER Left 2x4 SP No.3 -- 2-0-0, Right 2x4 SP No.3

-- 2-0-0

BRACING

BOT CHORD

TOP CHORD

BOT CHORD

WEBS

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-1-10 max.): 7-9. Rigid ceiling directly applied. 1 Row at midpt 6-24, 10-19

REACTIONS 2=0-3-8, 14=0-3-8 (size)

Max Horiz 2=179 (LC 15)

Max Grav 2=2617 (LC 58), 14=2629 (LC 60) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=0/47, 2-4=-4637/0, 4-6=-4297/0, 6-7=-3749/0, 7-8=-3235/0, 8-9=-3293/0,

9-10=-3770/0, 10-12=-4321/0,

12-14=-4658/0, 14-15=0/47

2-27=0/3916, 26-27=0/3916, 24-26=0/3616,

20-24=0/4116, 19-20=0/4116, 17-19=0/3637,

16-17=0/3935, 14-16=0/3935, 22-23=-117/410 21-22=-117/389

23-24=0/1309, 23-28=0/1455, 7-28=0/1521,

19-21=0/1311, 21-29=0/1496, 9-29=0/1544,

28-29=-58/613, 20-22=0/331, 8-28=-589/161,

8-29=-589/161, 22-24=-1556/0, 19-22=-1467/0, 6-24=-895/78.

10-19=-904/79, 4-27=0/327, 4-26=-365/73,

6-26=0/441, 10-17=0/445, 12-17=-360/73,

12-16=0/327

WEBS

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-2-0, Exterior(2R) 18-2-0 to 24-6-4, Interior (1) 24-6-4 to 26-9-0, Exterior(2R) 26-9-0 to 33-1-4, Interior (1) 33-1-4 to 45-11-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 250.0lb AC unit load placed on the bottom chord, 22-5-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- about its center. 10) 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.
- 12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 22-23, 21-22
- 13) All bearings are assumed to be SP SS.

- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

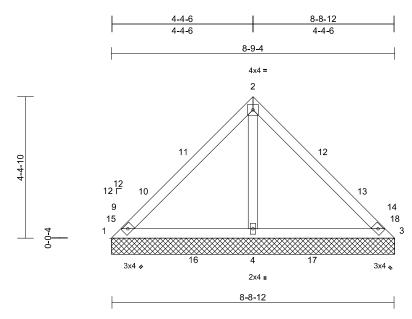


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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	V1	Valley	4	1	I72531928 Job Reference (optional)	

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:45 ID: kPWwKf45NrchkymKH?8d4xzvajo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff



Scale = 1:34.7

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	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.79	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10 <u>.</u> 0										Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-8-12 oc purlins

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=8-9-4, 3=8-9-4, 4=8-9-4

Max Horiz 1=-67 (LC 12)

Max Uplift 1=-77 (LC 45), 3=-77 (LC 44),

4=-14 (LC 16)

Max Grav 1=261 (LC 47), 3=261 (LC 51),

4=671 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-193/316, 2-3=-193/316 **BOT CHORD** 1-4=-230/211, 3-4=-230/211

WEBS 2-4=-593/286

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-4-10, Exterior(2R) 4-4-10 to 7-4-10, Interior (1) 7-4-10 to 8-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation 6) about its center.
- 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.
- 11) All bearings are assumed to be SP No.3.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 1, 77 lb uplift at joint 3 and 14 lb uplift at joint 4.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

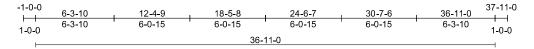


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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	B1A	Common	14	1	I72531930 Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:35 ID:ynwCNg9QHV1TcGyjq2no?vzvaI_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



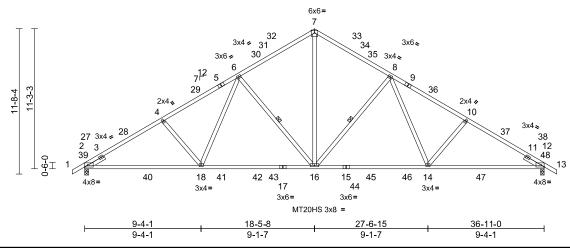


Plate Offsets (X, Y): [2:Edge,0-1-12], [12:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.41	16-18	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.59	16-18	>749	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	14-16	>999	240		
BCDL	10.0	[Weight: 207 lb	FT = 20%

LUMBER

Scale = 1:90

TOP CHORD 2x4 SP No.2 2x4 SP SS **BOT CHORD WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied. WEBS 1 Row at midpt 8-16, 6-16

REACTIONS 2=0-3-8, 12=0-3-8 (size) Max Horiz 2=182 (LC 15)

Max Grav 2=1741 (LC 34), 12=1741 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/47, 2-4=-2950/81, 4-6=-2778/102, 6-7=-2004/151, 7-8=-2004/151, TOP CHORD

8-10=-2778/102, 10-12=-2950/81,

12-13=0/47

BOT CHORD 2-18=0/2469, 16-18=0/2040, 14-16=0/2040,

12-14=0/2472

7-16=-47/1581, 8-16=-771/106, 8-14=0/625,

10-14=-306/101, 6-16=-771/106, 6-18=0/625,

4-18=-306/101

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-8-5, Interior (1) 2-8-5 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 37-11-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) All bearings are assumed to be SP SS
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



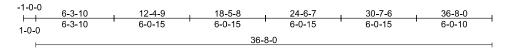
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	B1	Common	16	1	I72531931 Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:34 ID:kPWwKf45NrchkymKH?8d4xzvajo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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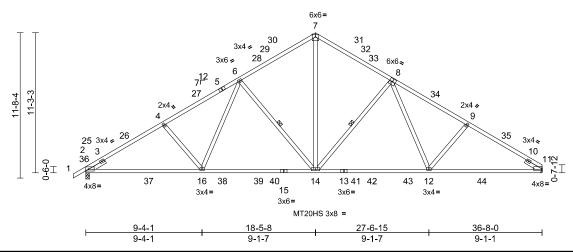


Plate Offsets (X, Y): [2:Edge,0-1-12], [11:Edge,0-1-11]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.41	12-14	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.59	12-14	>739	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.09	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	12-14	>999	240	1	
BCDL	10.0	l									Weight: 205 lb	FT = 20%

LUMBER

Scale = 1:90

TOP CHORD 2x4 SP No.2 2x4 SP SS **BOT CHORD WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

WFRS

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

1 Row at midpt REACTIONS 2=0-3-8, 11= Mechanical (size)

Max Horiz 2=178 (LC 13)

Max Grav 2=1737 (LC 34), 11=1673 (LC 35) (lb) - Maximum Compression/Maximum

8-14. 6-14

FORCES

TOP CHORD

1-2=0/47, 2-4=-2942/81, 4-6=-2770/102,

6-7=-1996/151, 7-9=-2745/151,

9-11=-2912/84

2-16=-15/2460, 14-16=0/2028, 12-14=0/2036,

BOT CHORD 11-12=-83/2425

7-14=-45/1567, 8-14=-762/105, 8-12=0/585,

9-12=-286/100, 6-14=-769/106, 6-16=0/625,

4-16=-306/101

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-8-0. Interior (1) 2-8-0 to 18-5-8. Exterior(2R) 18-5-8 to 22-1-8, Interior (1) 22-1-8 to 36-8-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) Bearings are assumed to be: Joint 2 SP SS.
- 11) Refer to girder(s) for truss to truss connections.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



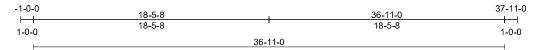
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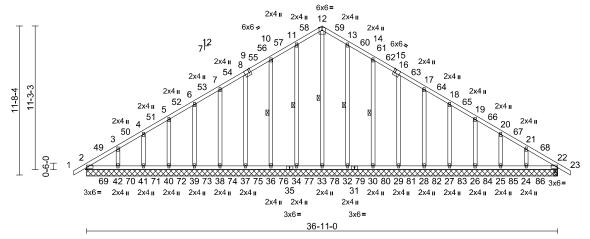


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	B1G	Common Supported Gable	4	1	Job Reference (optional)	72531932

Run: 8.83 E Feb 1 2025 Print: 8.830 E Feb 1 2025 MiTek Industries, Inc. Tue Apr 08 08:37:53 ID:GI0PFxUoc_m?B0ogjREMvuzvajH-DhtgnG7VvuZAHjxmNXmHrENqpPV34EP_kBGvWezSqdD

Page:





Scale = 1:87.8

Plate Offsets (X, Y): [8:0-1-12,Edge], [15:0-1-12,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	0.23	Vert(LL)	-0.01	24-48	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	24-48	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	42-45	>999	240		
BCDL	10.0	l									Weight: 268 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.
BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 12-33, 11-34, 10-36, 13-32, 14-30

REACTIONS All bearings 36-11-0.

(lb) - Max Horiz 2=-182 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s)

2, 24, 25, 26, 27, 28, 29, 30, 32, 34, 36, 37, 38, 39, 40, 41, 42

Max Grav

36, 37, 38, 39, 40, 41, 42
All reactions 250 (lb) or less at joint (s) except 2=323 (LC 81), 22=296 (LC 100), 24=350 (LC 119), 25=328 (LC 118), 26=335 (LC 117), 27=333 (LC 116), 28=334 (LC 115), 29=334 (LC 114), 30=333 (LC 114), 32=334 (LC 112), 33=324 (LC 111), 34=334 (LC 110), 36=333 (LC 109), 37=333 (LC 108), 38=334 (LC 107), 39=333 (LC 106), 40=335 (LC 105), 41=328 (LC 104), 42=350

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

11-34=-271/41, 10-36=-271/61, 8-37=-274/54, 7-38=-276/55, 6-39=-279/55, 5-40=-282/56, 4-41=-283/53, 3-42=-297/66,

5-40=-282/56, 4-41=-283/53, 3-42=-2 13-32=-271/41, 14-30=-271/61, 16-29=-269/54, 17-28=-276/55

16-29=-269/54, 17-28=-276/55, 18-27=-279/55, 19-26=-282/56, 20-25=-283/53, 21-24=-297/66

(LC 103)

 Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-5-8, Exterior(2N) 2-5-8 to 18-5-8, Corner (3R) 18-5-8 to 22-1-13, Exterior(2N) 22-1-13 to 37-11-0 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.
 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 8) 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A

12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



NOTES

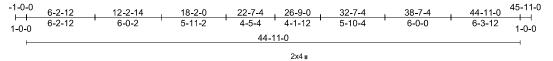
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	A1SG	Piggyback Base Structural Gable	2	1	Job Reference (optional)	l72531933

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:19 ID:mJ7vEr?Cu?x55WdGCt3I6fzvamU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



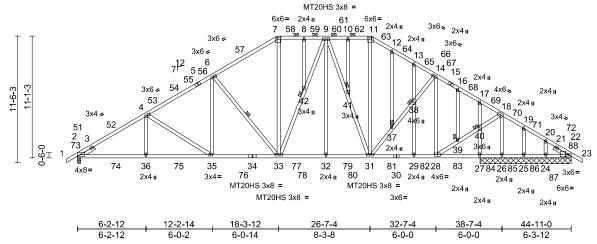


Plate Offsets (X, Y): [2:Edge,0-1-12], [7:0-4-0,0-2-4], [11:0-4-0,0-2-4], [22:0-3-5,0-1-8], [22:0-3-5,0-2-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.15	33-35	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.26	33-35	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.08	27	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	35	>999	240		
BCDL	10.0	l									Weight: 367 lb	FT = 20%

LUMBER

BRACING

BOT CHORD

Scale = 1:101.9

TOP CHORD 2x4 SP No.2

2x4 SP SS *Except* 34-30:2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3 *Except* 35-4,18-28:2x4 SP

2x4 SP No 3 OTHERS

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

-- 1-6-0

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (4-4-13 max.): 7-11. Rigid ceiling directly applied.

6-33

WERS 1 Row at midpt JOINTS

1 Brace at Jt(s): 37,

38, 39, 40, 41, 42

REACTIONS (size)

2=0-3-8 22=8-3-8 24=8-3-8 25=8-3-8, 26=8-3-8, 27=8-3-8

Max Horiz 2=180 (LC 15)

Max Uplift 22=-284 (LC 57), 24=-12 (LC 17)

2=1784 (LC 57), 22=150 (LC 133), Max Grav

24=361 (LC 131), 25=361 (LC 130), 26=1766 (LC 51), 27=560

(LC 59)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-4=-3030/0, 4-6=-2643/17, 6-7=-2029/86, 7-8=-1667/107,

8-9=-1667/107, 9-10=-1345/117, 10-11=-1345/117, 11-12=-1521/109, 12-13=-1573/89, 13-14=-1596/60,

14-16=-1190/59, 16-17=-1253/44, 17-18=-1141/19, 18-19=0/738, 19-20=0/784,

20-22=-26/817, 22-23=0/41

BOT CHORD

2-36=0/2543, 35-36=0/2543, 33-35=0/2168, 32-33=0/1456, 31-32=0/1456, 29-31=0/969 28-29=0/969, 27-28=-670/43, 26-27=-670/43,

25-26=-670/43, 24-25=-670/43,

22-24=-670/43

6-33=-946/48, 7-33=0/645, 33-42=-36/382, **WEBS**

9-42=-32/375, 9-41=-650/28, 31-41=-660/34, 11-31=-1/481, 31-37=-15/512,

37-38=-10/506, 14-38=-7/520, 4-36=0/340,

4-35=-451/45, 6-35=0/507, 14-28=-823/0.

28-39=0/1955, 39-40=0/1974, 18-40=0/1912, 18-26=-1910/0, 12-37=-74/15,

13-38=-176/70, 29-38=-140/117,

16-39=-105/20, 17-40=-342/38

27-40=-455/40, 19-25=-310/29,

20-24=-303/37, 10-41=-42/15, 9-32=0/312,

8-42=-47/11

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp B: Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-2-0, Exterior(2R) 18-2-0 to 24-7-4, Interior (1) 24-7-4 to 26-9-0, Exterior(2R) 26-9-0 to 33-1-4, Interior (1) 33-1-4 to 45-11-0 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.

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 13) All bearings are assumed to be SP SS



ontinued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-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 properly general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

ters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	A1SG	Piggyback Base Structural Gable	2	1	I7 Job Reference (optional)	72531933

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:19

Page: 2

- 15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

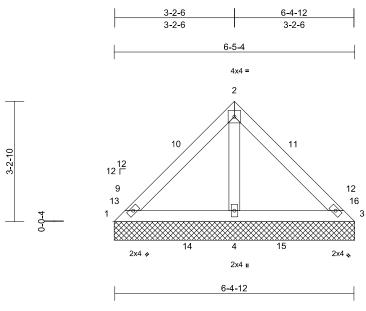
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	V2	Valley	4	1	I72531934 Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:45 ID:5jyyDRAYBVyvXnedYvmkjvzvaiO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	l									Weight: 25 lb	FT = 20%

LUMBER

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

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=6-5-4, 3=6-5-4, 4=6-5-4

Max Horiz 1=-48 (LC 14)

Max Uplift 1=-37 (LC 45), 3=-37 (LC 44) Max Grav 1=274 (LC 47), 3=274 (LC 51),

4=486 (LC 45)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-210/222, 2-3=-210/222 BOT CHORD 1-4=-130/134, 3-4=-130/134

2-4=-348/191 **WEBS**

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1 15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation
- 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.
- 11) All bearings are assumed to be SP No.3.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 37 lb uplift at joint 3.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

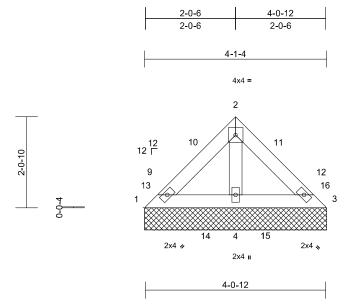


eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	V3	Valley	4	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:45 ID:5jyyDRAYBVyvXnedYvmkjvzvaiO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:25.2

Loading	(psf)	Spacing	2-0-0	csı		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	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-12 oc purlins

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size)

1=4-1-4, 3=4-1-4, 4=4-1-4

Max Horiz 1=-30 (LC 12)

Max Uplift 1=-23 (LC 50), 3=-23 (LC 48) Max Grav 1=276 (LC 47), 3=276 (LC 51),

4=371 (LC 57)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-202/143, 2-3=-202/143 BOT CHORD 1-4=-56/129, 3-4=-56/129

2-4=-242/79 **WEBS**

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1 15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation
- 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.
- 11) All bearings are assumed to be SP No.3.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 23 lb uplift at joint 3.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

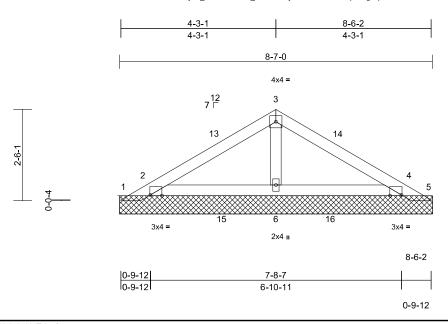
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	PB1		26	1	I72531936 Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:44 ID:jkQ_fufFcRFQ?KZ_zhRHFIzUjU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.7

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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 1=8-7-0, 2=8-7-0, 4=8-7-0, 5=8-7-0, 6=8-7-0

Max Horiz 1=37 (LC 13)

Max Uplift 1=-287 (LC 46), 2=-19 (LC 16),

4=-21 (LC 17), 5=-284 (LC 47) 1=190 (LC 44), 2=556 (LC 46), 4=543 (LC 47), 5=193 (LC 56),

Max Grav

6=366 (LC 63)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-42/156, 2-3=-139/135, 3-4=-139/133, 4-5=-30/155

BOT CHORD 2-6=-125/47, 4-6=-125/47

WEBS 3-6=-250/21

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-3-8, Exterior(2R) 4-3-8 to 7-3-4, Interior (1) 7-3-4 to 8-3-5 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 stude exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 11) All bearings are assumed to be SP No.3.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 1 and 284 lb uplift at joint 5.
- 13) N/A
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 16) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

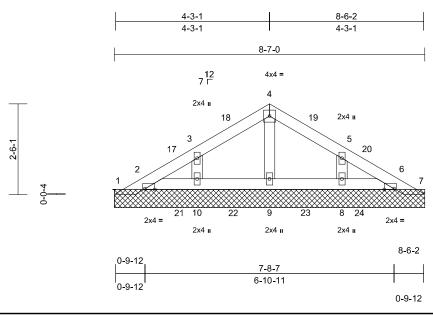




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	PB1G		4	1	I72531937 Job Reference (optional)	

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:44 ID:IhtiF_YDnNpkdpBtqJDoJezUjP3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31

Plate Offsets (X, Y): [2:0-3-5	.Fdgel. [6:0-3-5.Edge1

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
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD**

Rigid ceiling directly applied.

REACTIONS (size) 1=8-7-0, 2=8-7-0, 6=8-7-0, 7=8-7-0,

8=8-7-0, 9=8-7-0, 10=8-7-0

Max Horiz 1=37 (LC 13)

Max Uplift 1=-47 (LC 68), 2=-18 (LC 63),

6=-29 (LC 64), 7=-45 (LC 66), 8=-15 (LC 17), 10=-14 (LC 16)

1=258 (LC 44), 2=304 (LC 61), Max Grav 6=294 (LC 73), 7=260 (LC 60),

8=332 (LC 71), 9=322 (LC 70), 10=334 (LC 69)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-43/50, 2-3=-67/70, 3-4=-110/50,

4-5=-110/50, 5-6=-67/70, 6-7=-16/35

BOT CHORD 2-10=-14/37, 9-10=-14/37, 8-9=-14/37, 6-8=-14/37

WEBS 4-9=-240/0, 3-10=-290/86, 5-8=-289/86

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-3-8, Exterior(2R) 4-3-8 to 7-3-4, Interior (1) 7-3-4 to 8-3-5 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 stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.3
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2, 29 lb uplift at joint 6, 47 lb uplift at joint 1, 45 lb uplift at joint 7, 14 lb uplift at joint 10, 15 lb uplift at joint 8, 18 lb uplift at joint 2 and 29 lb uplift at joint 6.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE

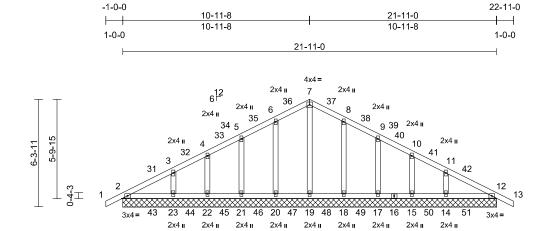


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	G3G	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:41 ID:ZENVlegAVROwgP2CKzf?EEzUj87-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x4=

Page: 1



21-11-0 Scale = 1:65.8

											•	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-AS		' '						
BCDL	10.0	l				1					Weight: 114 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

2=21-11-0, 12=21-11-0 14=21-11-0, 15=21-11-0 17=21-11-0, 18=21-11-0, 19=21-11-0, 20=21-11-0, 21=21-11-0, 22=21-11-0 23=21-11-0

Max Horiz 2=52 (LC 15)

14=-8 (LC 17), 15=-6 (LC 17), Max Uplift 17=-7 (LC 17), 18=-5 (LC 17), 20=-6 (LC 16), 21=-7 (LC 16), 22=-6 (LC 16), 23=-8 (LC 16)

Max Grav

2=329 (LC 69), 12=329 (LC 93) 14=368 (LC 91), 15=321 (LC 90), 17=336 (LC 89), 18=333 (LC 88), 19=326 (LC 87), 20=333 (LC 86) 21=336 (LC 85), 22=321 (LC 84) 23=368 (LC 83)

FORCES

NOTES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-3=-109/81, 3-4=-72/59, 4-5=-73/68, 5-6=-69/108, 6-7=-92/145 7-8=-92/145, 8-9=-69/108, 9-10=-73/68

10-11=-72/59, 11-12=-109/81, 12-13=0/36 2-23=-30/90, 22-23=-30/90, 21-22=-30/90, **BOT CHORD**

20-21=-30/90, 19-20=-30/90, 18-19=-30/90, 17-18=-30/90, 15-17=-30/90, 14-15=-30/90,

12-14=-30/90

WEBS 7-19=-249/3, 6-20=-282/59, 5-21=-284/65, 4-22=-280/58, 3-23=-307/83, 8-18=-282/59,

9-17=-284/66, 10-15=-280/58, 11-14=-307/83

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

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3F) -1-0-0 to 2-0-0. Exterior(2N) 2-0-0 to 10-11-8 Corner(3R) 10-11-8 to 13-11-8, Exterior(2N) 13-11-8 to 22-11-0 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.

TCLL: ASCE 7-16: Pr=20.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

Plates checked for a plus or minus 5 degree rotation about its center.

Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc.

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* 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

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

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 20, 7 lb uplift at joint 21, 6 lb uplift at joint 22, 8 lb uplift at joint 23, 5 lb uplift at joint 18, 7 lb uplift at joint 17, 6 lb uplift at joint 15 and 8 lb uplift at joint 14.

14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 24.

15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

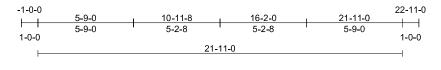


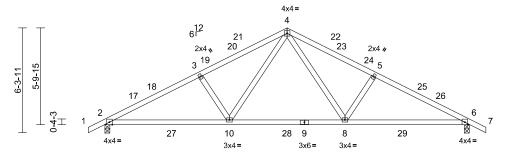
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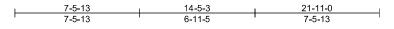


Job)	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
		G3	Common	7	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:41 ID:A5RDExUGAWHegSW17TMAKtzUj5n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:67.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.19	8-10	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.27	8-16	>962	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	10-13	>999	240		
BCDL	10.0										Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD BOT CHORD 2x4 SP No 2 2x4 SP SS 2x4 SP No.3 **WEBS**

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

2=0-3-8, 6=0-3-8 REACTIONS (size) Max Horiz 2=52 (LC 15)

Max Grav 2=937 (LC 2), 6=937 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/36, 2-3=-1515/140, 3-4=-1359/157, TOP CHORD 4-5=-1359/157, 5-6=-1515/140, 6-7=0/36

BOT CHORD 2-10=-51/1319, 8-10=0/877, 6-8=-58/1319 WEBS 4-8=-23/585, 5-8=-343/123, 4-10=-23/585,

3-10=-343/123

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-11-8, Exterior(2R) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 22-11-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- 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 SS.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

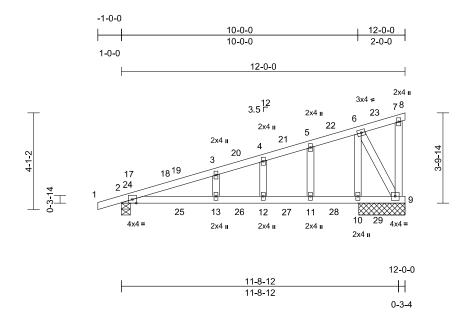




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	C1G	Monopitch Supported Gable	2	1	Job Reference (optional)	72531943

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:39 ID:TkrpsUIfFhnBK87J2sgDDNzUieK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.25	12-13	>483	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.48	12-13	>252	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.24	12-13	>507	240		
BCDL	10.0										Weight: 58 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-4-8, 8=1-11-8, 9=1-11-8, 10=1-11-8

Max Horiz 2=91 (LC 13)

Max Uplift 2=-72 (LC 12), 8=-45 (LC 12),

9=-434 (LC 51), 10=-120 (LC 12) 2=449 (LC 61), 8=194 (LC 46), Max Grav

9=92 (LC 12), 10=848 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-328/90, 3-4=-144/53,

TOP CHORD

4-5=-130/64, 5-6=-116/76, 6-7=-96/71, 7-8=-32/54, 7-9=-216/407

BOT CHORD 2-13=-148/295, 12-13=-104/151, 11-12=-104/151, 10-11=-104/151,

9-10=-104/151

WFRS 6-10=-325/114 5-11=-129/119

4-12=-126/124, 3-13=-124/127, 6-9=-305/163

NOTES

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) All bearings are assumed to be SP SS.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



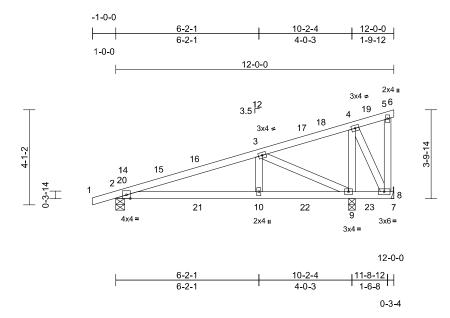
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof
	C1	Monopitch	14	1	Job Reference (optional)

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:39 ID:U4UyhYK_EoU70C7fXCi89JzUid?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.12	10-13	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.17	10-13	>721	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	10-13	>999	240		
BCDL	10.0										Weight: 60 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-4-8, 8= Mechanical, 9=0-3-8

Max Horiz 2=91 (LC 15)

Max Uplift 2=-73 (LC 12), 8=-323 (LC 56),

9=-125 (LC 12)

Max Grav 2=451 (LC 54), 8=118 (LC 53),

9=880 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/23, 2-3=-541/221, 3-4=-142/202,

4-5=-52/49, 5-6=-6/0, 5-8=-262/72

BOT CHORD 2-10=-277/495, 9-10=-277/495,

8-9=-173/116, 7-8=0/0

WFBS 3-10=-73/364, 3-9=-713/324, 4-9=-532/213,

4-8=-128/367

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 9 8) SP No.2
- Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



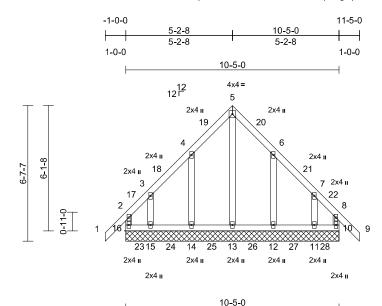
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Jo	ob	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
		B2G	Common Supported Gable	4	1	Job Reference (optional)	31949

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Page: 1



Scale = 1:54.7

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 67 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

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

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 10=10-5-0, 11=10-5-0, 12=10-5-0, 13=10-5-0, 14=10-5-0, 15=10-5-0,

16=10-5-0

Max Horiz 16=116 (LC 15)

Max Uplift 10=-44 (LC 13), 11=-63 (LC 17), 12=-37 (LC 17), 14=-37 (LC 16),

15=-65 (LC 16), 16=-58 (LC 12)

10=298 (LC 69), 11=307 (LC 68), Max Grav

12=339 (LC 67), 13=331 (LC 66), 14=339 (LC 65), 15=307 (LC 64),

16=298 (LC 63)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

2-16=-286/61, 1-2=0/66, 2-3=-109/85,

3-4=-126/81, 4-5=-130/183, 5-6=-130/178, 6-7=-126/81, 7-8=-109/85, 8-9=0/66,

8-10=-286/57 **BOT CHORD**

15-16=-58/107, 14-15=-58/107

13-14=-58/107, 12-13=-58/107

11-12=-58/107, 10-11=-58/107 5-13=-238/48, 4-14=-290/154,

3-15=-266/123, 6-12=-290/154,

7-11=-266/121

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-2-8, Exterior(2R) 5-2-8 to 8-2-8, Interior (1) 8-2-8 to 11-5-0 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 stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 13) All bearings are assumed to be SP No.2.

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 16, 44 lb uplift at joint 10, 37 lb uplift at joint 14, 65 lb uplift at joint 15, 37 lb uplift at joint 12 and 63 lb uplift at joint 11.
- 15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



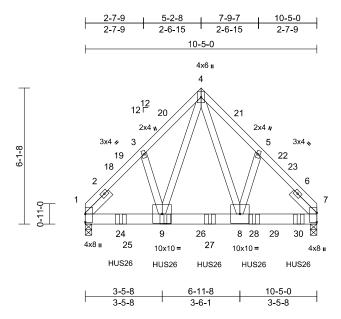
April 9,2025

stors and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 1-Roof	
	B2GR	Common Girder	2	2	Job Reference (optional)	l72531962

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Fri Apr 04 09:53:38 ID:avWKQnBAyp4m8xDp6cHzG7zvaiN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:50.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.04	8-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.07	8-9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.00	8-9	>999	240		
BCDL	10.0			1							Weight: 153 lb	FT = 20%

LUMBER

BRACING

2x4 SP No 2 TOP CHORD BOT CHORD 2x6 SP No.2 2x4 SP No.3 **WEBS**

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=0-3-8. 7=0-3-8

Max Horiz 1=83 (LC 65)

Max Grav 1=4217 (LC 26), 7=4800 (LC 25) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-3=-4188/0, 3-4=-4073/0, 4-5=-4072/0,

5-7=-4177/0

BOT CHORD 1-9=0/2906, 8-9=0/2066, 7-8=0/2875 3-9=-142/160, 4-9=0/2909, 4-8=0/2903, **WEBS**

5-8=-152/149

NOTES

TOP CHORD

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

- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 7) Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) All bearings are assumed to be SP No.2 .
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max, starting at 1-7-4 from the left end to 9-7-4 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-51, 4-7=-51, 10-14=-20

Concentrated Loads (lb)

Vert: 9=-1272 (B), 24=-1272 (B), 27=-1272 (B), 28=-1272 (B), 30=-1274 (B)

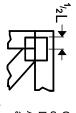


stors and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE

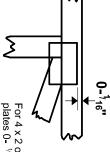


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

Plate location details available in MiTek software or upon request

PLATE SIZE



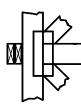
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

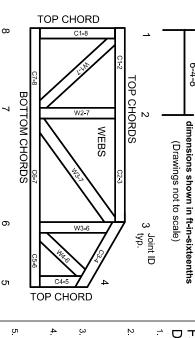
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-22:

Plate Connected Wood Trusses Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing Installing, Restraining & Bracing of Metal

Numbering System

6-4-8



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

section 6.3 These truss designs rely on lumber values established by others. Lumber design values are in accordance with ANSI/TPI 1

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

▲ General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint

6

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7

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- 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
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design
- . 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
- 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
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.