

RE: Drayton Rev 2-Elev 3-Roof **Trenco**

818 Soundside Rd Edenton, NC 27932

Site Information:

Lot/Block:

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

Subdivision:

Model: Address:

City:

State:

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 Mean Roof Height (feet): 25

Exposure Category: B

No. 1234567891011234 167819221223 25667	Seal# 170953310 170953313 170953314 170953316 170953316 170953319 170953321 170953321 170953322 170953324 170953326 170953326 170953329 170953329 170953330 170953331 170953331 170953331 170953331 1709533331 1709533331 1709533331 1709533331	Truss Name P3B P3C VD1 D1G D1 V1 P3G P3 P3G P3 P3G P3 P34 PH1 V2 VC2 PH3 PH2 C2G C2A V3 E1G E1 E2G C1G E3G	1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25	No. 35 36 37 38 39 40 41 43 445 46	Seal# 170953344 170953346 170953349 170953348 170953350 170953351 170953352 170953353 170953355	Truss Name B3GR B3SG B3 B3A G3G G3 A1G A1B A1A A1P A1 A1T	Date 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25 1/24/25
25 26 27 28 29 30 31 32	170953333 170953334	E2 C1G	1/24/25 1/24/25				

The truss drawing(s) referenced above have been prepared by

Truss Design Engineer's Name: Pace, Adam
My license renewal date for the state of North Carolina is December 31, 2024

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

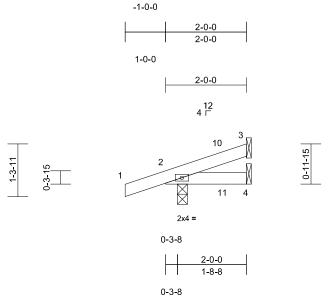
January 24,2025

1 of 1

Pace, Adam

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	Р3В	Jack-Open	9	1	Job Reference (optional)	170953310

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:44 $ID: P_AHuCqOHetD9Oy8iNhKpbzv4do-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1



Scale = 1:18.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	ВС	0.16	Vert(CT)	0.00	4-9	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	9	>999	240		
BCDL	10.0										Weight: 8 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-0 oc purlins. **BOT CHORD**

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

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4=

Mechanical Max Horiz 2=25 (LC 12)

Max Uplift 2=-42 (LC 12), 3=-9 (LC 40), 4=-11

(LC 47)

2=372 (LC 40), 3=265 (LC 46), Max Grav

4=265 (LC 53)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-3=-79/147

BOT CHORD 2-4=-136/104

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; 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.
- 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.

- 5) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4 and 9 lb uplift at joint 3.
- 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



January 24,2025

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

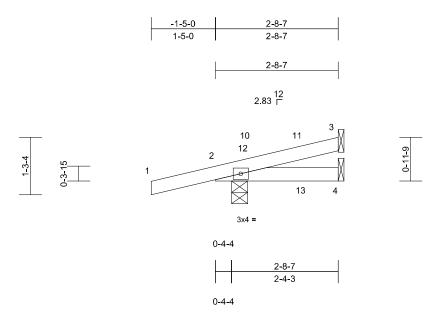
■ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	P3C	Jack-Open	3	1	Job Reference (optional)	170953311

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:44 ID:PjesKOdkHQkdcn8tDJtLc0zv4e3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:17.2

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	0.21	Vert(LL)	-0.01	4-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	4-9	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	5	>999	240		
BCDL	10.0			l							Weight: 10 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.

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

bracing.

REACTIONS (size) 2=0-4-4, 3= Mechanical, 4=

Mechanical Max Horiz 2=24 (LC 12)

Max Uplift 2=-60 (LC 12), 3=-5 (LC 13), 4=-5

(LC 22)

2=395 (LC 41), 3=269 (LC 47), Max Grav

4=269 (LC 54) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-3=-185/238

BOT CHORD 2-4=-256/228

NOTES

FORCES

- 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 (3) 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.
- 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.

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



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

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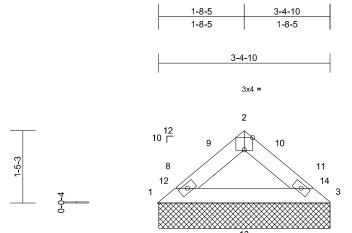
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof
	V1	Valley	3	1	Job Reference (optional)

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2x4 💊



2x4 🥠

3-4-10

Scale = 1:15.1

Plate Offsets (X, Y): [2:0-2-0,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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	l		l							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-10 oc purlins.

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

bracing. REACTIONS (lb/size)

1=120/3-4-10, 3=120/3-4-10 Max Horiz 1=20 (LC 13)

Max Grav 1=321 (LC 47), 3=321 (LC 51) (lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown.

1-8=-377/65, 1-8=-370/67, 1-9=-266/43,

2-9=-261/48, 2-10=-261/51, 3-10=-266/47,

3-11=-370/66, 3-11=-377/65 1-12=-45/282, 1-12=-44/284, 3-14=-38/284,

BOT CHORD 3-14=-39/282

NOTES

TOP CHORD

- 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 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.
- 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) 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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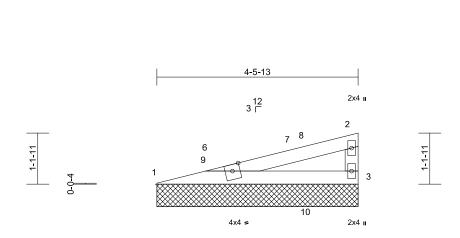


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	VC1	Valley	1	1	I709533 ⁻ Job Reference (optional)	16

4-5-13

Structural, LLC, Thurmont, MD - 21788,

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Scale = 1:23.	Sca	е	=	1	:23.
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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	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.73	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0			l							Weight: 13 lb	FT = 20%

4-5-13

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

1=4-5-13, 3=4-5-13 REACTIONS (size)

Max Horiz 1=22 (LC 13)

Max Grav 1=340 (LC 43), 3=340 (LC 42)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-663/170, 2-3=-297/77

BOT CHORD 1-3=-230/640

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) 0-1-0 to 3-1-0, Interior (1) 3-1-0 to 4-5-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) 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.
- 10) All bearings are assumed to be SP No.3.
- 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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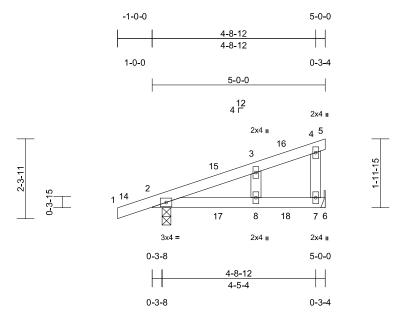
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	P3G	Monopitch Supported Gable	3	1	I70 Job Reference (optional)	0953317

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:44 ID:LepTth3JoUGWxJvnKtWn4czv4dV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:22.5

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	0.43	Vert(LL)	-0.05	8-13	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.07	8-13	>803	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	8-13	>999	240		
BCDL	10.0			ļ							Weight: 20 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

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

2=0-3-0, 7= Mechanical REACTIONS (size)

Max Horiz 2=47 (LC 12) Max Uplift 2=-49 (LC 12), 7=-29 (LC 12)

Max Grav 2=394 (LC 40), 7=349 (LC 48)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/26, 2-3=-127/146, 3-4=-35/61, 4-5=-6/0

2-8=-135/110, 7-8=0/0, 6-7=0/0 **BOT CHORD**

3-8=-128/124, 4-7=-300/89 **WEBS**

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 5-0-0 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
- Unbalanced snow loads have been considered for this

- 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 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.
- 11) Refer to girder(s) for truss to truss connections
- 12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint
- 14) 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.
- 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



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-743 rev. 1/22/023 BEFORE USE.

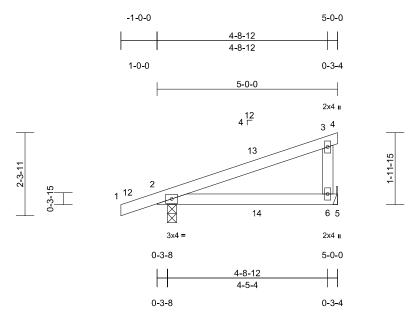
Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	P3	Monopitch	15	1	Job Reference (optional)	170953318

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:44 ID:3qygYw0FRnghgST_P1V6glzv4d4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	e	=	1	:22.

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	0.57	Vert(LL)	-0.07	6-11	>855	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.09	6-11	>651	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	6-11	>999	240		
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

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

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

Max Horiz 2=47 (LC 12)

Max Uplift 2=-49 (LC 12), 6=-29 (LC 12) Max Grav 2=394 (LC 40), 6=349 (LC 46)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-3=-129/146, 3-4=-6/0 BOT CHORD 2-6=-135/109, 5-6=0/0

BOT CHORD 2-6=-135/109, 5 WEBS 3-6=-301/105

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 5-0-0 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.
- 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.
- 5) 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.
- 8) Bearings are assumed to be: Joint 2 SP No.2.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 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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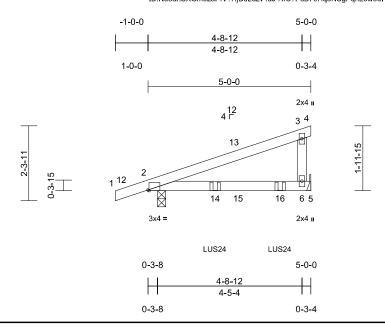
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 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.sbaccomponents.com)



318 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	P3GR	Monopitch Girder	3	1	Job Reference (optional)	I70953319

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:45



Scale = 1:22.5

Plate Offsets (X, Y): [2:0-0-6,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	0.78	Vert(LL)	-0.08	6-11	>715	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.14	6-11	>413	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.05	6-11	>999	240		
BCDL	10.0	[Weight: 19 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 or

5-0-0 oc purlins.

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

bracing.

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

Max Horiz 2=47 (LC 8)

Max Uplift 2=-80 (LC 8), 6=-77 (LC 8) Max Grav 2=573 (LC 19), 6=620 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/26, 2-3=-191/136, 3-4=-6/0

BOT CHORD 2-6=-136/158, 5-6=0/0

3-6=-319/30 WFBS

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); cantilever left and right exposed; end vertical left and right exposed; porch 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.
- 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.
- 5) 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 at joint(s) 2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 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) Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-51, 5-7=-20 Concentrated Loads (lb)

Vert: 14=-352 (F), 16=-301 (F)



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

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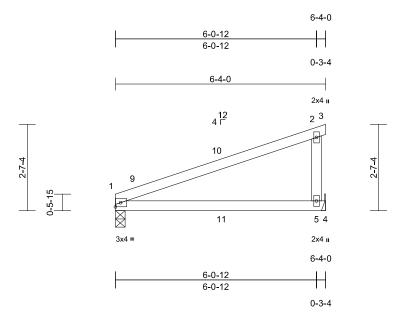
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	РЗА	Monopitch	3	1	Job Reference (optional)	170953320

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Scale = 1:23.7

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	0.87	Vert(LL)	-0.18	5-8	>409	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.26	5-8	>284	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.10	5-8	>718	240		
BCDL	10.0			l							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=0-3-8, 5= Mechanical

Max Horiz 1=46 (LC 12)

Max Uplift 1=-29 (LC 12), 5=-46 (LC 12) Max Grav 1=374 (LC 39), 5=385 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-195/52, 2-3=-6/0 BOT CHORD 1-5=-134/136, 4-5=0/0

WEBS 2-5=-321/148

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 Exterior(2E) 0-2-8 to 3-2-8, Interior (1) 3-2-8 to 6-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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
- 3) Unbalanced snow loads have been considered for this design.
 4) Plates checked for a plus or minus 5 degree rotation
- about its center.5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP No.2.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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



January 24,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly adange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH1 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)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	PH1	Half Hip	3	1	Job Reference (optional)	I70953321

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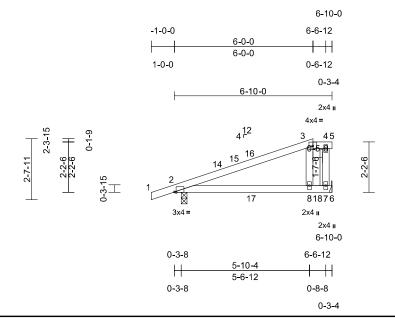


Plate Offsets (X, Y): [2:0-0-14,Edge]

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	0.80	Vert(LL)	-0.17	8-13	>476	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.25	8-13	>316	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.12	8-13	>670	240		
BCDL	10.0										Weight: 27 lb	FT = 20%

LUMBER

Scale = 1:29.4

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

2-0-0 oc purlins (6-0-0 max.): 3-5. Rigid ceiling directly applied.

BOT CHORD REACTIONS

(size) 2=0-3-0, 7= Mechanical Max Horiz 2=52 (LC 12)

Max Uplift 2=-60 (LC 12), 7=-39 (LC 12)

Max Grav 2=435 (LC 42), 7=387 (LC 71)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/26, 2-3=-152/139, 3-4=-3/2, 4-5=0/0

BOT CHORD 2-8=-138/137, 7-8=0/0, 6-7=0/0

3-8=-333/152, 4-7=-265/22 WFBS

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 2-0-0, Interior (1) 2-0-0 to 6-0-0, Exterior(2E) 6-0-0 to 6-10-0 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=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

- 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.
- Provide adequate drainage to prevent water ponding.
- 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) Bearings are assumed to be: Joint 2 SP SS
- 11) Refer to girder(s) for truss to truss connections
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 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 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.

LOAD CASE(S) Standard



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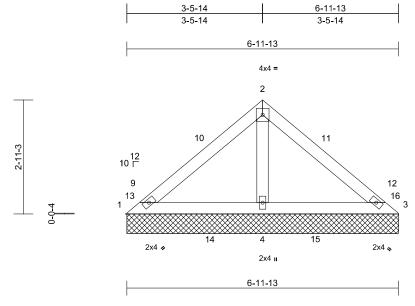
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	V2	Valley	3	1	Job Reference (optional)	322

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Page: 1



Scale = 1:20.7

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1 <u>.</u> 15	BC	0.54	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-AS								
BCDL	10.0	l		l							Weight: 26 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=6-11-13, 3=6-11-13, 4=6-11-13

Max Horiz 1=44 (LC 13)

Max Uplift 1=-39 (LC 45), 3=-39 (LC 44) Max Grav 1=274 (LC 47), 3=274 (LC 51),

4=512 (LC 45)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-215/243, 2-3=-215/243 BOT CHORD 1-4=-156/147, 3-4=-156/147

WEBS 2-4=-383/160

NOTES

- 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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-6-3, Exterior(2R) 3-6-3 to 6-2-12, Interior (1) 6-2-12 to 7-0-2 zone; cantilever left and right exposed; end vertical 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.
- 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

- 5) Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) 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.
- 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 39 lb uplift at joint 1 and 39 lb uplift at joint 3.
- 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



January 24,2020

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

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

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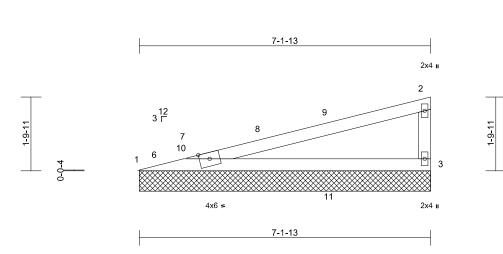


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof
	VC2	Valley	1	1	Job Reference (optional)

7-1-13

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:47 ID: JfDAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fdAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAuL8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul8pudmw8wtCmWzsmyK-RfC?PsB70Hq4xAtSGAul



Scale = 1:26.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.97	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 22 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.

1=7-1-13, 3=7-1-13 REACTIONS (size)

Max Horiz 1=39 (LC 13)

Max Grav 1=393 (LC 43), 3=393 (LC 42) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-1061/210, 2-3=-325/124 1-3=-288/1025 BOT CHORD

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) 0-1-0 to 3-1-0, Interior (1) 3-1-0 to 7-1-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) 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.
- 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) 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



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

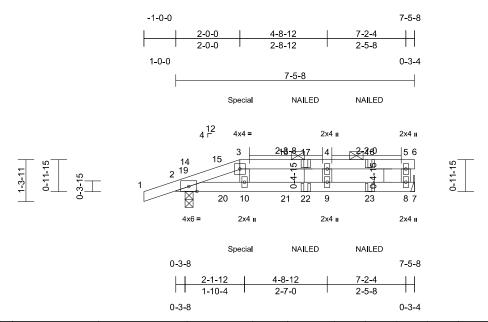
■ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
;	PH3	Half Hip Girder	3	1	I7 Job Reference (optional)	70953324

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:45 ID:F6KFOBASqxBqp2CEWPea7lzv4an-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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	0.44	Vert(LL)	-0.21	9-10	>412	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.35	9-10	>246	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.13	9-10	>673	240		
BCDL	10.0										Weight: 26 lb	FT = 20%

LUMBER

Scale = 1:23.7

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins: 3-6.

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

bracing.

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

Max Horiz 2=25 (LC 8)

Max Uplift 2=-69 (LC 8), 8=-45 (LC 9)

Max Grav 2=418 (LC 55), 8=406 (LC 59)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/26, 2-3=-276/29, 3-4=0/0, 4-5=0/0,

5-6=0/0

BOT CHORD 2-10=-28/233, 9-10=0/0, 8-9=0/0, 7-8=0/0 3-10=-550/55, 5-8=-339/31, 4-9=-27/229

WEBS

TOP CHORD

Unbalanced roof live loads have been considered for

NOTES

- 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); cantilever left and right exposed; end vertical left and right exposed; porch 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=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
- 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.
- 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 DSS.
- 11) Refer to girder(s) for truss to truss connections.12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 22 lb up at 2-0-0 on top chord, and 40 lb down and 24 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-51, 3-6=-61, 7-11=-20 Concentrated Loads (lb) Vert: 10=1 (B), 22=1 (B), 23=1 (B)



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-743 rev. 1/22/023 BEFORE USE.

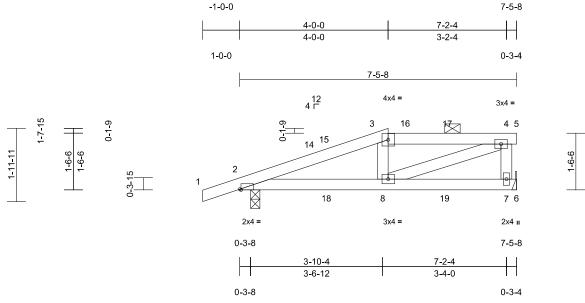
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	PH2	Half Hip	3	1	Job Reference (optional)	70953325

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:45 ID:jVJLv5Z5bauwpMNdbvls5lzv4bZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.7
Plate Offsets (X, Y): [2:0-0-6,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	0.54	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.05	7-8	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8-13	>999	240		
BCDL	10.0			1							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 3-5. Rigid ceiling directly applied.

BOT CHORD Rigid ceiling directly applied REACTIONS (size) 2=0-3-0, 7= Medical Reactions (size)

CTIONS (size) 2=0-3-0, 7= Mechanical Max Horiz 2=37 (LC 12)

Max Uplift 2=-68 (LC 12), 7=-39 (LC 12)

Max Grav 2=436 (LC 63), 7=399 (LC 71)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/26, 2-3=-565/261, 3-4=-530/2

0 1-2=0/26, 2-3=-565/261, 3-4=-530/275, 4-5=0/0

BOT CHORD 2-8=-269/528, 7-8=0/0, 6-7=0/0

WEBS 3-8=-140/119, 4-7=-366/162, 4-8=-292/565

NOTES

- 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) -10-0 to 2-0-0, Interior (1) 2-0-0 to 4-0-0, Exterior(2E) 4-0-0 to 7-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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
- 4) Unbalanced snow loads have been considered for this design.

 4. The state of th

- 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.
- 6) Provide adequate drainage to prevent water ponding.
- 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.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearings are assumed to be: Joint 2 SP No.2
- 11) Refer to girder(s) for truss to truss connections
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 7.
- 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 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 better elected.

LOAD CASE(S) Standard



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-743 rev. 1/22/023 BEFORE USE.

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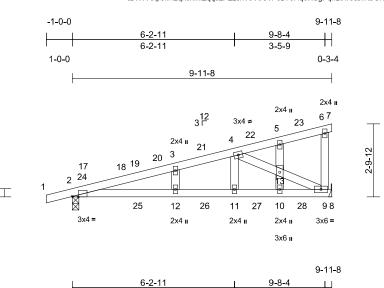


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	C2G	Monopitch Supported Gable	1	1	Job Reference (optional)	170953326

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:40 ID:TFXnpekRLqhchMiZqq6zFEzsn?c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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0 - 3 - 4



Scale = 1:37.4

Plate Offsets (X, Y): [2:0-2-12,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	0.58	Vert(LL)	-0.10	12-16	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.16	12-16	>740	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	12-16	>999	240		
BCDL	10.0										Weight: 45 lb	FT = 20%

6-2-11

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. **BOT CHORD** Rigid ceiling directly applied. REACTIONS (size) 2=0-3-0, 9= Mechanical

Max Horiz 2=62 (LC 12)

Max Uplift 2=-75 (LC 12), 9=-65 (LC 12) Max Grav 2=468 (LC 46), 9=457 (LC 57)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-3=-782/321, 3-4=-761/336, TOP CHORD 4-5=-53/16, 5-6=-33/35, 6-7=-5/0 **BOT CHORD** 2-12=-388/742. 11-12=-388/742.

10-11=-388/742, 9-10=-388/742, 8-9=0/0 6-9=-276/39, 4-11=-113/361, 4-13=-815/427,

9-13=-817/427, 5-13=-157/92,

10-13=-89/161, 3-12=-123/129

NOTES

WEBS

- 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 Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 9-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 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 desian.
- 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.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 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 and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

rameters and READ NOTES ON THIS AND INCLUIDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE LISE

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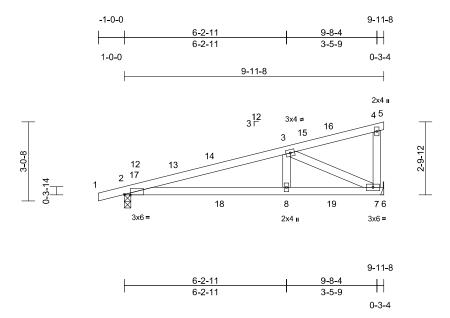
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	C2	Monopitch	4	1	Job Reference (optional)	170953327

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:40 ID:bltYgilwHGcxqaob5BS_f8zsn_t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.4

Plate Offsets (X, Y): [2:0-2-12,Edge	Plate Offsets	s (X, Y):	[2:0-2-12	,Edge
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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	0.66	Vert(LL)	-0.12	8-11	>983	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.17	8-11	>666	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	8-11	>999	240		
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-0, 7= Mechanical

Max Horiz 2=62 (LC 12)

Max Uplift 2=-75 (LC 12), 7=-65 (LC 12)

Max Grav 2=468 (LC 44), 7=457 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-783/330, 3-4=-48/29, 4-5=-5/0 BOT CHORD 2-8=-388/741, 7-8=-388/741, 6-7=0/0 WEBS 3-8=-79/367, 4-7=-276/45, 3-7=-815/426

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
 Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 9-11-8
 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- 8) Bearings are assumed to be: Joint 2 SP No.2 .
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 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. 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



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

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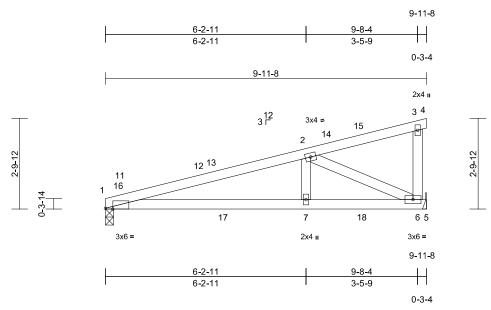
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	C2A	Monopitch	1	1	Job Reference (optional)	170953328

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Page:



Scale = 1:24.5
Plate Offsets (X, Y): [1:0-2-12,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	0.67	Vert(LL)	-0.12	7-10	>983	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.18	7-10	>659	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	7-10	>999	240		
BCDL	10.0	1		1		l ` ´					Weight: 41 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-0, 6= Mechanical

Max Horiz 1=54 (LC 12)

Max Uplift 1=-54 (LC 12), 6=-66 (LC 12) Max Grav 1=447 (LC 43), 6=458 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-793/341, 2-3=-48/29, 3-4=-5/0
BOT CHORD 1-7=-394/751, 6-7=-394/751, 5-6=0/0
WEBS 2-7=-82/368, 3-6=-275/45, 2-6=-826/433

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) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-11-8
 zone; cantilever left and right exposed; end vertical left
 and right exposed; porch left and right exposed;C-C for
 members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 4) Plates checked for a plus or minus 5 degree rotation about its center.
 5) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 1 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- Previde mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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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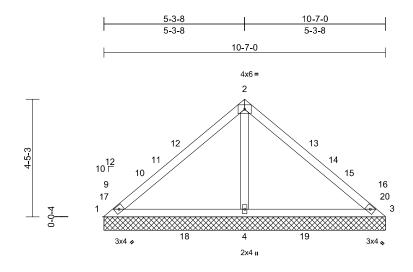
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Job	Truss	russ Truss Type Qty Ply Drayton Rev 2-Elev		Drayton Rev 2-Elev 3-Roof		
	V3	Valley	3	1	Job Reference (optional)	0953329

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10-7-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.98	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0	1		1							Weight: 40 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. BOT CHORD Rigid ceiling directly applied.

1=10-7-0, 3=10-7-0, 4=10-7-0 **REACTIONS** (size)

Max Horiz 1=-68 (LC 12)

Max Uplift 1=-63 (LC 54), 3=-63 (LC 53) Max Grav

1=268 (LC 47), 3=268 (LC 51),

4=778 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-223/351, 2-3=-223/351 **BOT CHORD** 1-4=-240/154, 3-4=-240/154

WEBS 2-4=-683/215

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) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-3-13, Exterior(2R) 5-3-13 to 8-3-13, Interior (1) 8-3-13 to 10-7-5 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 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 desian.
- 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 63 lb uplift at joint 1 and 63 lb uplift at joint 3.
- 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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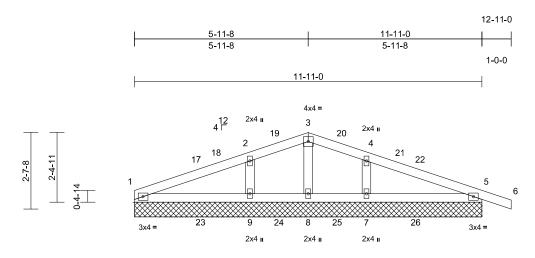
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	Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
ı	•	E2G	Common Supported Gable	1	1	Job Reference (optional)	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:41 ID:limRILNBjPaVF881GI6iiczsn1M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



11-11-0 Scale = 1:32.9

Loading	(psf)	Spacing	2-0-0	csı	•	DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	l wв	0.06	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 44 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) 1=11-11-0, 5=11-11-0, 7=11-11-0,

8=11-11-0, 9=11-11-0 Max Horiz 1=-22 (LC 13)

5=-19 (LC 13), 8=-124 (LC 61), Max Uplift

9=-1 (LC 16)

1=328 (LC 57), 5=351 (LC 69), Max Grav

7=418 (LC 61), 8=251 (LC 66),

9=423 (LC 58)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-158/56, 2-3=-106/116, 3-4=-105/113, TOP CHORD

4-5=-144/55, 5-6=0/26 **BOT CHORD**

1-9=-22/140, 8-9=0/64, 7-8=0/64, 5-7=-29/127

WFBS 3-8=-230/95, 2-9=-333/186, 4-7=-330/182

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 Corner (3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 5-11-8, Corner (3R) 5-11-8 to 8-11-8, Exterior(2N) 8-11-8 to 12-11-0 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 desian.
- 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 19 lb uplift at joint 5, 124 lb uplift at joint 8, 1 lb uplift at joint 9 and 19 lb uplift at joint 5.
- 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



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/22/023 BEFORE USE.

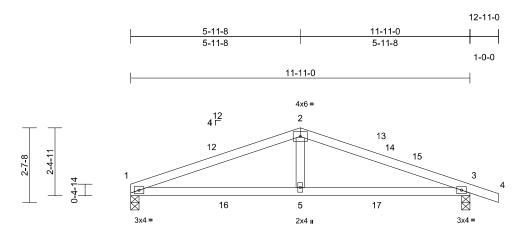
Design valid for use only with MITE&® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 eigeneral guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
;	E2	Common	5	1	Job Reference (optional)	170953333

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:41 ID:O0UzpSWju54oi_3LzpJWB8zsn1A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:33.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.12	5-8	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.16	5-8	>881	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	5-8	>999	240		
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=0-3-8, 3=0-3-8 Max Horiz 1=-22 (LC 13)

Max Grav 1=494 (LC 23), 3=548 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=-885/224, 2-3=-886/212, 3-4=0/26

BOT CHORD 1-5=-138/795, 3-5=-138/795

WEBS 2-5=0/377

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) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-8, Exterior(2R) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 12-11-0 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2,00 times flat roof load of 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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2.
- 10) 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



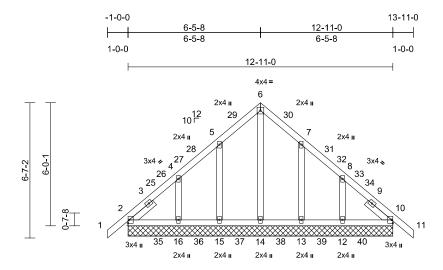
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Safety Information.



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	B3G	Common Supported Gable	3	1	Job Reference (optional)	170953336

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:38 ID:nCLAm0SekqX8TQOaw5rz_Mzv4v4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



12-11-0 Scale = 1:48.3

		1	-	1	-		-	-	-			-
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	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	l wв	0.12	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 79 lb	FT = 20%

LUMBER

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

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. **REACTIONS** (size) 2=12-11-0, 10=12-11-0,

12=12-11-0, 13=12-11-0,

14=12-11-0, 15=12-11-0,

16=12-11-0

Max Horiz 2=-99 (LC 14)

Max Uplift 2=-4 (LC 12), 12=-42 (LC 17)

13=-20 (LC 17), 15=-20 (LC 16),

16=-43 (LC 16)

Max Grav 2=330 (LC 61), 10=330 (LC 77),

12=348 (LC 75), 13=329 (LC 74), 14=314 (LC 73), 15=329 (LC 72),

16=348 (LC 71)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/52, 2-4=-180/64, 4-5=-99/89,

5-6=-146/156, 6-7=-146/156, 7-8=-99/89, 8-10=-180/57, 10-11=0/52

BOT CHORD 2-16=-31/133, 15-16=-31/133,

14-15=-31/133, 13-14=-31/133,

12-13=-31/133, 10-12=-31/133

6-14=-196/35, 5-15=-283/103,

4-16=-294/137, 7-13=-283/103,

8-12=-294/136

NOTES

WEBS

Unbalanced roof live loads have been considered for 1) 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 2-0-0, Exterior(2N) 2-0-0 to 6-5-8, Corner (3R) 6-5-8 to 9-5-8, Exterior(2N) 9-5-8 to 13-11-0 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 DOI = 160
- 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
- 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.
- 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 4 lb uplift at joint 2, 20 lb uplift at joint 15, 43 lb uplift at joint 16, 20 lb uplift at joint 13, 42 lb uplift at joint 12 and 4 lb uplift at joint 2.

- 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



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-743 rev. 1/22/023 BEFORE USE.

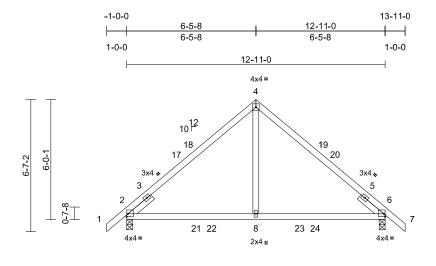
Design valid for use only with MITE&© connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 eigeneral guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
;	ВЗВ	Common	6	1	Job Reference (optional)	170953337

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:37 ID:JHJD7UegzkYtNtdesS7jdkzv4uq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6-5-8 12-11-0 6-5-8 6-5-8

Scale = 1:49.6

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

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	0.70	Vert(LL)	-0.14	8-15	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.18	8-15	>859	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	8-11	>999	240		
BCDL	10.0			1							Weight: 61 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, Right 2x4 SP No.3

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 2=0-3-8, 6=0-3-8

Max Horiz 2=-99 (LC 14)

Max Grav 2=644 (LC 34), 6=644 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/60, 2-4=-659/111, 4-6=-659/111,

6-7=0/60

BOT CHORD 2-8=0/420, 6-8=0/420

WEBS 4-8=0/383

NOTES

- 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 2-0-0, Interior (1) 2-0-0 to 6-5-8, Exterior(2R) 6-5-8 to 9-5-8, Interior (1) 9-5-8 to 13-11-0 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
- 4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP No.2.
- 10) 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



January 24,2025

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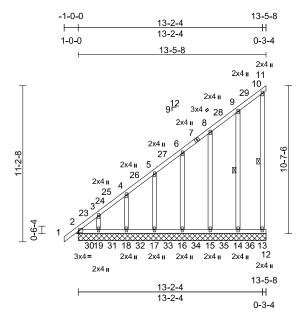
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	G1G	Monopitch Supported Gable	2	1	Job Reference (optional)	170953338

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:42 $ID:DBZMz2sBoJkHJ_sKZXgjyqyFJ90-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale =	1	:7	C
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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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 105 lb	FT = 20%

LUMBER

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

WEBS

NOTES

OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied.

BOT CHORD

1 Row at midpt 9-14, 10-13 REACTIONS (size) 2=13-5-8, 11=13-5-8, 12=13-5-8, 13=13-5-8, 14=13-5-8, 15=13-5-8,

Rigid ceiling directly applied.

16=13-5-8, 17=13-5-8, 18=13-5-8, 19=13-5-8

Max Horiz 2=233 (LC 16)

Max Uplift 2=-24 (LC 14), 11=-23 (LC 47), 12=-232 (LC 66), 13=-61 (LC 65), 14=-22 (LC 16), 15=-20 (LC 16), 16=-20 (LC 16), 17=-22 (LC 16), 18=-14 (LC 16), 19=-55 (LC 16)

Max Grav 2=302 (LC 59), 11=143 (LC 48), 12=60 (LC 65), 13=414 (LC 66), 14=332 (LC 75), 15=334 (LC 74),

16=333 (LC 73), 17=332 (LC 72), 18=336 (LC 71), 19=320 (LC 70)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/49, 2-3=-510/248, 3-4=-435/210, 4-5=-362/174, 5-6=-288/138, 6-8=-214/102, 8-9=-138/87, 9-10=-98/73, 10-11=-17/85

BOT CHORD 2-19=-234/115, 18-19=0/0, 17-18=0/0, 16-17=0/0. 15-16=0/0. 14-15=0/0. 13-14=0/0.

12-13=0/0

9-14=-273/123, 8-15=-275/103, 6-16=-278/99, 5-17=-281/100,

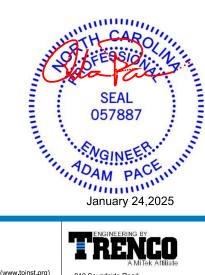
4-18=-286/100, 3-19=-279/118,

10-13=-153/46

- 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 13-5-8 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
- 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.
- 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.
- 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) All bearings are assumed to be SP SS
- 12) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 232 lb uplift at joint 12, 23 lb uplift at joint 11, 22 lb uplift at joint 14, 20 lb uplift at joint 15, 20 lb uplift at joint 16, 22 lb uplift at joint 17, 14 lb uplift at joint 18, 55 lb uplift at joint 19, 61 lb uplift at joint 13 and 24 lb uplift at joint 2.
- 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



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/22/023 BEFORE USE.

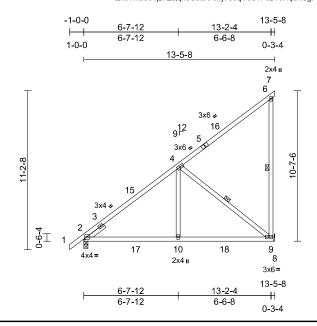
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	G1	Monopitch	27	1	I70953339 Job Reference (optional)	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:42 ID:sVHuU9?jz?EalqneG3uXRMyFJ8q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:70

Plate Offsets (X, Y): [2:0-1-7,0-2-0]

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	0.79	Vert(LL)	-0.19	9-10	>824	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.24	9-10	>666	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	10-13	>999	240		
BCDL	10.0			1							Weight: 83 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt

REACTIONS (size)

2=0-3-8, 9= Mechanical Max Horiz 2=231 (LC 16) Max Uplift 9=-71 (LC 16)

Max Grav 2=593 (LC 2), 9=596 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/56, 2-4=-637/0, 4-6=-145/95, 6-7=-14/0 2-10=-127/469, 9-10=-127/469, 8-9=0/0

BOT CHORD **WEBS** 4-10=0/401, 4-9=-598/162, 6-9=-309/96

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 13-5-8 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 desian.
- 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.

- 5) 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 SS.
- Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint
- 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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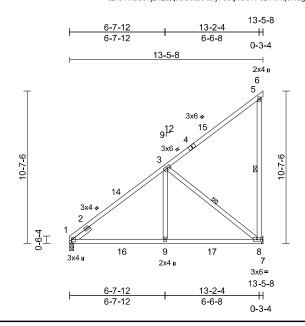
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	G1A	Monopitch	3	1	I70953340 Job Reference (optional)	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:42 ID: sVHuU9? jz? EalqneG3uXRMyFJ8q-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full fill for the control of th



Scale = 1:67.7

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

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	0.79	Vert(LL)	-0.19	8-9	>824	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.23	8-9	>668	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	9-12	>999	240		
BCDL	10.0	l		1							Weight: 81 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt 3-8, 5-8

REACTIONS (size) 1=0-3-8, 8= Mechanical Max Horiz 1=216 (LC 16)

Max Uplift 8=-71 (LC 16) Max Grav 1=522 (LC 2), 8=599 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-630/0, 3-5=-146/95, 5-6=-14/0 BOT CHORD 1-9=-129/473, 8-9=-129/473, 7-8=0/0 **WEBS** 3-9=0/403, 3-8=-603/164, 5-8=-309/96

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) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 13-5-8 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. 4) 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.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP SS.
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint
- 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



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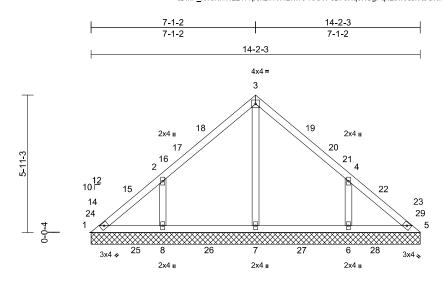
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	V4	Valley	3	1	I7 Job Reference (optional)	0953342

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:46 $ID:nF_N1sNHWzLVrTpskLT7N1zvk?9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC.ffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zAffcPsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7dAffcPsB70Hq3NSgPqnWqaAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4dAffcPsB70Hq4$



Scale = 1:43.9

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	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	ВС	0.44	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horiz(TL)	-0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 61 lb	FT = 20%

14-2-3

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) 1=14-2-3, 5=14-2-3, 6=14-2-3,

7=14-2-3, 8=14-2-3

Max Horiz 1=-92 (LC 14) 1=-225 (LC 55), 5=-2 (LC 55), Max Uplift

6=-48 (LC 17), 8=-52 (LC 16)

Max Grav 1=257 (LC 49), 5=0 (LC 60), 6=413 (LC 65), 7=773 (LC 55), 8=406 (LC

63)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-233/504, 2-3=-37/515, 3-4=-94/510, TOP CHORD

4-5=-37/513

BOT CHORD 1-8=-377/173, 7-8=-377/36, 6-7=-377/36,

5-6=-377/40

3-7=-696/0, 2-8=-330/147, 4-6=-333/146 WFBS

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) 0-0-5 to 3-1-6, Interior (1) 3-1-6 to 7-1-6, Exterior(2R) 7-1-6 to 10-1-6, Interior (1) 10-1-6 to 14-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 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 9) 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 225 lb uplift at joint 1, 2 lb uplift at joint 5, 52 lb uplift at joint 8, 48 lb uplift at joint 6 and 2 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.
- 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	Drayton Rev 2-Elev 3-Roof	
	B3GR	Common Girder	2	2	Job Reference (optional)	l70953344

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:38 ID:ISpyVYYDSUnqAmzmwsR?MLzv4r4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

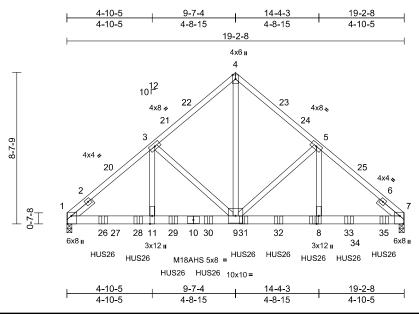


Plate Offsets (X, Y): [1:0-5-8,Edge], [7:0-0-0,0-0-0], [7:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.11	9-11	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.20	9-11	>999	240	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.00	9-11	>999	240		
BCDL	10.0			1							Weight: 257 lb	FT = 20%

LUMBER

Scale = 1:56

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP DSS

WEBS 2x4 SP No.3 *Except* 9-4:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-11 oc purlins.

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

bracing.

REACTIONS 1=0-3-8, 7=0-3-8, (req. 0-3-15) (size) Max Horiz 1=126 (LC 11)

Max Grav 1=6693 (LC 25), 7=7797 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-3=-8220/0, 3-4=-5803/0, 4-5=-5807/0, 5-7=-8499/0

BOT CHORD 1-11=0/6321, 9-11=0/6321, 8-9=0/6482,

7-8=0/6482 **WEBS** 4-9=0/7067. 5-9=-2819/0. 5-8=0/3399.

3-9=-2507/0, 3-11=0/3038

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

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.
- 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.
- 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) WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- 12) All bearings are assumed to be SP DSS.
- 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) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 18-0-12 to connect truss(es) to back face of bottom chord.
- 15) 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, 12-16=-20 Concentrated Loads (lb)

Vert: 8=-1095 (B), 26=-1095 (B), 28=-1095 (B), 29=-1095 (B), 30=-1095 (B), 31=-1095 (B), 32=-1095

(B), 33=-1523 (B), 35=-1523 (B)

minni January 24,2025

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

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

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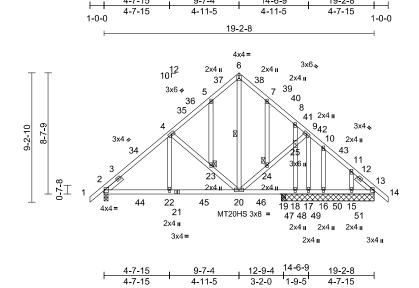


Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	B3SG	Common Structural Gable	3	1	Job Reference (optional)	l70953345

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:38 ID: Z6SKH pazrPFy7i?Ss7?mFzzv4td-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffraction and the property of the

Page: 1



Scale = 1:72.1

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	0.40	Vert(LL)	-0.08	20-22	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.10	20-22	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	22-28	>999	240		
BCDL	10.0	l		1							Weight: 144 lb	FT = 20%

4-11-5

3-2-0

LUMBER

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

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

1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt 6-20

1 Brace at Jt(s): 23, **JOINTS**

REACTIONS (size) 2=0-3-8, 13=6-7-0, 15=6-7-0,

16=6-7-0, 17=6-7-0, 18=6-7-0, 19=0-3-8

Max Horiz 2=142 (LC 15) Max Uplift 13=-41 (LC 69), 15=-36 (LC 17),

16=-3 (LC 17), 18=-85 (LC 70), 19=-59 (LC 69)

2=608 (LC 2), 13=272 (LC 87),

15=330 (LC 85), 16=340 (LC 84), 17=431 (LC 83), 18=432 (LC 49),

19=365 (LC 70)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 1-2=0/60, 2-4=-606/36, 4-5=-361/72, 5-6=-297/101, 6-7=-300/108, 7-8=-344/80, 8-9=-228/23, 9-10=-83/98, 10-11=-39/149,

11-13=-114/135, 13-14=0/52

BOT CHORD 2-22=-11/455, 20-22=-11/455, 19-20=-90/76, 18-19=-90/76, 17-18=-90/76, 16-17=-90/76,

15-16=-90/76, 13-15=-90/76

WEBS 4-22=0/334, 4-23=-324/78, 20-23=-357/92,

6-20=-54/227, 20-24=0/344, 24-25=0/349, 9-25=0/323, 9-17=-340/0, 5-23=-95/22, 7-24=-114/26, 8-25=-341/80,

18-25=-438/106, 10-16=-285/40,

11-15=-280/64

NOTES

-1-0-0

- 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 9-7-4, Exterior(2R) 9-7-4 to 12-7-4, Interior (1) 12-7-4 to 20-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For 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.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 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) N/A

- 14) N/A
- 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



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-743 rev. 1/22/023 BEFORE USE.

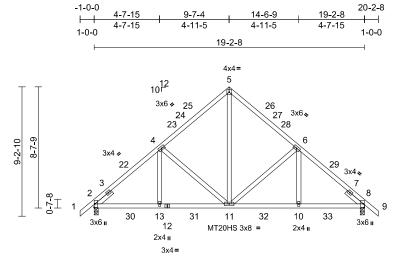
Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	В3	Common	12	1	Job Reference (optional)	I70953346

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:37 ID:WI9MPxDDMhwR_sZdTmSCu9zv4so-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



 4-7-15
 9-7-4
 14-6-9
 19-2-8

 4-7-15
 4-11-5
 4-11-5
 4-7-15

Scale = 1:72.1

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

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)	-0.09	10-11	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.12	10-11	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	10-11	>999	240		
BCDL	10.0										Weight: 117 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, Right 2x4 SP No.3

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 2=0-3-8, 8=0-3-8

Max Horiz 2=141 (LC 15)

Max Grav 2=825 (LC 2), 8=825 (LC 2)

FORCES (lb) - M

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/60

1-2=0/60, 2-4=-931/50, 4-5=-715/107, 5-6=-715/107, 6-8=-931/50, 8-9=0/60 2-13=0/657, 11-13=0/657, 10-11=0/655,

8-10=0/655

WEBS 5-11=-38/505, 6-11=-301/86, 4-11=-301/86,

6-10=0/317, 4-13=0/317

NOTES

BOT CHORD

- 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 2-0-0. Interior (1) 2-0-0 to 9-7-4, Exterior(2R) 9-7-4 to 12-7-4, Interior (1) 12-7-4 to 20-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- 6) All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 9) * This truss has been designed for a live load of 20.0psf
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 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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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 BEFORE USE.

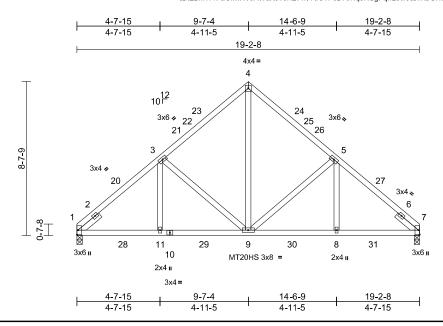
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/2/20/3 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH 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)



Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
;	вза	Common	3	1	Job Reference (optional)	70953347

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:37 ID:2BihTr1FaGMwW9AWuK9v6Hzv4rl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:56

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

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)	-0.09	9-11	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.12	9-11	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8-9	>999	240		
BCDL	10.0			1							Weight: 113 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **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. REACTIONS (size) 1=0-3-8, 7=0-3-8

Max Horiz 1=126 (LC 13)

Max Grav 1=757 (LC 2), 7=757 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-3=-940/55, 3-4=-720/110, 4-5=-720/110,

TOP CHORD 5-7=-940/55

BOT CHORD 1-11=0/660, 9-11=0/660, 8-9=0/654,

7-8=0/654

WEBS 4-9=-42/509, 3-11=0/319, 5-8=0/319,

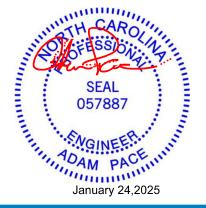
3-9=-308/87, 5-9=-308/87

NOTES

- 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) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-7-4, Exterior(2R) 9-7-4 to 12-7-4, Interior (1) 12-7-4 to 19-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- All bearings are assumed to be SP No.2
- 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



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

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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	A1G	Roof Special	6	1	Job Reference (optional)	I70953350

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:34 ID:08bw023UrEav3TTDydwK3DyFJ3a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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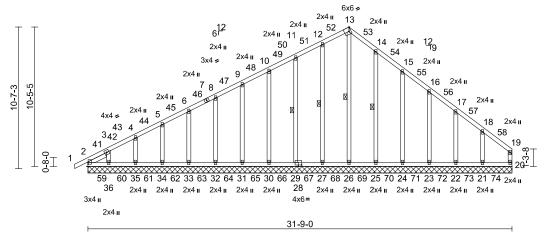


Plate Offsets (X, Y): [2:0-1-8,0-0-1], [13:0-1-12,Edge], [28:0-3-0,0-1-4]

Scale = 1:75.5

BOT CHORD

REACTIONS (size)

Max Uplift

Max Grav

WEBS

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 228 lb	FT = 20%

LUMBER **FORCES** (lb) - Maximum Compression/Maximum TOP CHORD 2x4 SP No.2 Tension TOP CHORD 1-2=0/36, 2-3=-150/79, 3-4=-157/70, 2x4 SP No.2 **BOT CHORD** 4-5=-150/71, 5-6=-142/79, 6-8=-135/101, **WEBS** 2x4 SP No.3 8-9=-127/140, 9-10=-120/178, **OTHERS** 2x4 SP No.3 10-11=-112/216, 11-12=-114/257, SLIDER Left 2x4 SP No.3 -- 1-7-2 **BRACING** TOP CHORD

30=-6 (LC 16), 31=-6 (LC 16),

32=-6 (LC 16), 33=-6 (LC 16),

34=-7 (LC 16), 35=-5 (LC 16),

36=-30 (LC 13) 2=308 (LC 79), 20=294 (LC 113),

25=334 (LC 108), 26=324 (LC 107), 27=334 (LC 106), 29=333 (LC 105), 30=333 (LC 104),

31=333 (LC 103), 32=333 (LC

(LC 98)

102), 33=333 (LC 101), 34=332 (LC 100), 35=335 (LC 99), 36=321

21=340 (LC 112), 22=331 (LC 111),

23=333 (LC 110), 24=333 (LC 109),

12-13=-128/287, 13-14=-140/312, 14-15=-119/257, 15-16=-101/188, Structural wood sheathing directly applied, 16-17=-98/124, 17-18=-81/95, except end verticals 18-19=-117/59, 19-20=-274/1 Rigid ceiling directly applied. BOT CHORD 2-36=-32/80, 35-36=-32/80, 34-35=-32/80, 13-26, 12-27, 11-29, 1 Row at midnt 33-34=-32/80, 32-33=-32/80, 31-32=-32/80,

14-25 30-31=-32/80, 29-30=-32/80, 27-29=-32/80, 2=31-9-0. 20=31-9-0. 21=31-9-0. 26-27=-32/80, 25-26=-32/80, 24-25=-32/80, 22=31-9-0, 23=31-9-0, 24=31-9-0, 23-24=-32/80, 22-23=-32/80, 21-22=-32/80, 25=31-9-0, 26=31-9-0, 27=31-9-0, 20-21=-32/80 29=31-9-0, 30=31-9-0, 31=31-9-0, **WEBS** 13-26=-246/72, 12-27=-272/41,

32=31-9-0, 33=31-9-0, 34=31-9-0, 11-29=-272/70, 10-30=-274/61 35=31-9-0, 36=31-9-0 9-31=-276/62, 8-32=-279/62, 6-33=-281/62, 5-34=-283/62, 4-35=-287/65, 3-36=-277/86, Max Horiz 2=179 (LC 15) 2=-30 (LC 12), 21=-57 (LC 17), 14-25=-274/67, 15-24=-275/91, 22=-11 (LC 17), 23=-21 (LC 17), 16-23=-279/84, 17-22=-282/80, 24=-24 (LC 17), 25=-12 (LC 17), 26=-2 (LC 15), 29=-10 (LC 16),

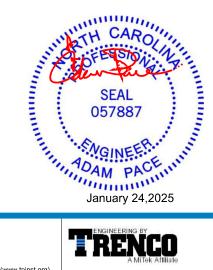
18-21=-290/167

NOTES

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

Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ff; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-2-2, Exterior(2N) 2-2-2 to 19-6-10, Corner(3R) 19-6-10 to 22-8-11, Exterior(2N) 22-8-11 to 31-7-4 zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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 desian.
- 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.



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-743 rev. 1/22/023 BEFORE USE.

Design valid for use only with MITER® 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)



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	A1G	Roof Special	6	1	Job Reference (optional)	

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:34

Structural, LLC, Thurmont, MD - 21788,

11) * This truss has been designed for a live load of 20.0psf

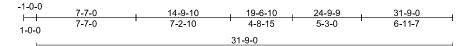
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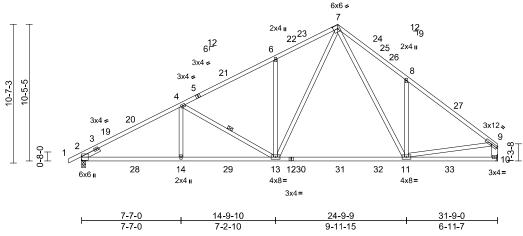
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) All bearings are assumed to be SP No.2.
- 13) N/A
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at 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

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	A1B	Roof Special	15	1	Job Reference (optional)	I70953351

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:34 ID:lkNDmt454ccCAJHHZnKHxnyFlNg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:77.7 Plate Offsets (X, Y): [7:0-4-0,0-3-0]

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	0.88	Vert(LL)	-0.44	11-13	>853	360	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.66	11-13	>576	240			
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	10	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	13-14	>999	240			
BCDL	10.0										Weight: 189 lb	FT = 20%	

LUMBER

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

2x4 SP No.3 *Except* 10-9:2x6 SP No.2 **WEBS**

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

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. WFBS 1 Row at midpt 4-13

REACTIONS 2=0-3-8, 10= Mechanical (size)

Max Horiz 2=180 (LC 15)

Max Grav 2=1424 (LC 3), 10=1415 (LC 35) (lb) - Maximum Compression/Maximum

FORCES

1-2=0/36, 2-4=-2514/87, 4-6=-1924/120, 6-7=-1936/195, 7-8=-1911/226, TOP CHORD

8-9=-1870/83, 9-10=-1453/77

BOT CHORD 2-14=-115/2191, 13-14=-44/2191, 11-13=0/1108, 10-11=-65/263

WFBS 9-11=0/1199, 6-13=-404/130, 8-11=-411/191,

7-13=-61/1213, 7-11=-105/664, 4-14=0/359,

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 2-2-2, Interior (1) 2-2-2 to 19-6-10, Exterior(2R) 19-6-10 to 22-8-11, Interior (1) 22-8-11 to 31-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP SS
- 10) Refer to girder(s) for truss to truss connections.
- 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



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/22/023 BEFORE USE.

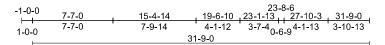
Design valid for use only with MITE&® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 eigeneral guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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)

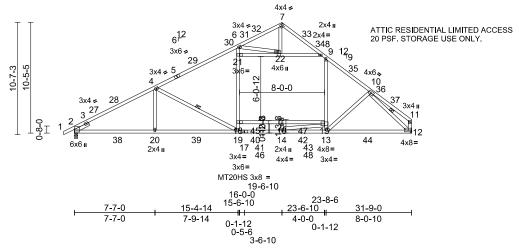


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
;	A1A	Attic	6	1	Job Reference (optional)	170953352

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Thu Jan 23 06:47:33 ID:Orpw4HRIOLXYOdJamSbwV7yFlch-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:82.4

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	0.88	Vert(LL)	-0.46	19-20	>828	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.66	19-20	>576	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.19	19-20	>999	240		
BCDL	10.0			1							Weight: 203 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-7:2x4 SP SS

BOT CHORD 2x4 SP SS

WEBS 2x4 SP No.3 *Except* 6-19,9-13:2x4 SP SS,

21-8:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-19, 10-12

JOINTS 1 Brace at Jt(s): 22

REACTIONS (size) 2=0-3-8, 12= Mechanical

Max Horiz 2=179 (LC 15)

Max Grav 2=1589 (LC 2), 12=1702 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-2806/0, 4-6=-2291/0,

6-7=-402/62, 7-8=-439/58, 8-9=-1800/0, 9-10=-2293/0, 10-11=-336/64, 11-12=-342/49

BOT CHORD 2-20=-9/2446, 19-20=0/2446, 14-19=0/2394, 13-14=0/1330, 12-13=0/1639, 16-18=-736/6.

15-16=-736/6

WEBS 4-20=0/349, 4-19=-632/129, 18-19=0/633,

18-21=0/789, 6-21=0/752, 13-15=0/503, 9-15=0/710, 10-13=-27/241, 21-22=-99/743, 8-22=-1627/0, 10-12=-2211/0, 14-16=-345/0,

7-22=0/231, 6-22=-2122/0, 14-15=0/1294

NOTES

 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 2-2-2. Interior (1) 2-2-2 to 19-6-10, Exterior(2R) 19-6-10 to 22-8-11, Interior (1) 22-8-11 to 31-7-4 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
- 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.
- 200.0lb AC unit load placed on the bottom chord, 19-6-10 from left end, supported at two points, 5-0-0 apart.
- 7) 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.
- 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.
- Stottom chord live load (20.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 16-18, 15-16
- 12) Bearings are assumed to be: Joint 2 SP SS.
- 13) Refer to girder(s) for truss to truss connections.
- 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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

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

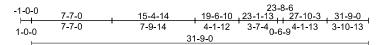
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITIPH 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)

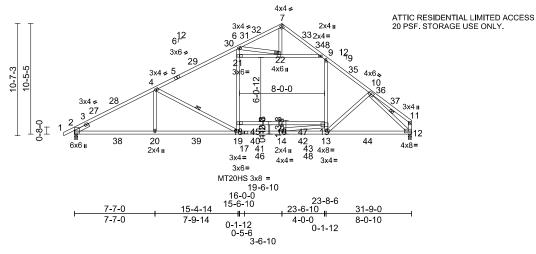


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof	
	A1P	Attic	15	1	Job Reference (optional)	0953353

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Page: 1





Scale = 1:82.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.46	19-20	>828	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.66	19-20	>576	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.19	19-20	>999	240		
BCDL	10.0			l							Weight: 203 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-7:2x4 SP SS

BOT CHORD 2x4 SP SS

WEBS 2x4 SP No.3 *Except* 6-19,9-13:2x4 SP SS,

21-8:2x4 SP No.2 Left 2x4 SP No.3 -- 1-6-0

SLIDER Left 2x4 S
BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-19, 10-12

JOINTS 1 Brace at Jt(s): 22

REACTIONS (size) 2=0-3-8, 12=0-3-8

Max Horiz 2=179 (LC 15)

Max Grav 2=1589 (LC 2), 12=1702 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-2806/0, 4-6=-2291/0, 6-7=-402/62, 7-8=-439/58, 8-9=-1800/0,

9-10=-2293/0, 10-11=-336/64, 11-12=-342/49

BOT CHORD 2-20=-9/2446, 19-20=0/2446, 14-19=0/2394,

2-20=-9/2446, 19-20=0/2446, 14-19=0/2394, 13-14=0/1330, 12-13=0/1639, 16-18=-736/6.

15-16=-736/6

WEBS 4-20=0/349, 4-19=-632/129, 18-19=0/633,

18-21=0/789, 6-21=0/752, 13-15=0/503, 9-15=0/710, 10-13=-27/241, 21-22=-99/743, 8-22=-1627/0, 10-12=-2211/0, 14-16=-345/0,

7-22=0/231, 6-22=-2122/0, 14-15=0/1294

NOTES

 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 2-2-2. Interior (1) 2-2-2 to 19-6-10, Exterior(2R) 19-6-10 to 22-8-11, Interior (1) 22-8-11 to 31-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 200.0lb AC unit load placed on the bottom chord, 19-6-10 from left end, supported at two points, 5-0-0 apart.
- 7) 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.
- 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) Bottom chord live load (20.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 16-18, 15-16
- 12) All bearings are assumed to be SP SS.
- 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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

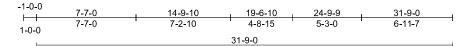
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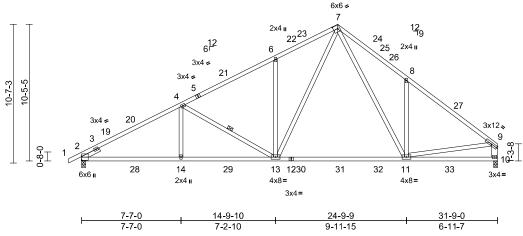


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-Elev 3-Roof		
	A1	Roof Special	15	1	Job Reference (optional)	170953354	

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Page:





Scale = 1:77.7
Plate Offsets (X, Y): [7:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.44	11-13	>853	360	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.66	11-13	>576	240			
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	10	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	13-14	>999	240			
BCDL	10.0	l		1							Weight: 189 lb	FT = 20%	

LUMBER

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

WEBS 2x4 SP No.3 *Except* 10-9:2x6 SP No.2

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

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-13

REACTIONS (size) 2=0-3-8, 10=0-3-8 Max Horiz 2=180 (LC 15)

Max Grav 2=1424 (LC 3), 10=1415 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/3

1-2=0/36, 2-4=-2514/87, 4-6=-1924/120, 6-7=-1936/195, 7-8=-1911/226,

6-7=-1936/195, 7-8=-1911/226, 8-9=-1870/83, 9-10=-1453/77

BOT CHORD 2-14=-115/2191, 13-14=-44/2191,

11-13=0/1108, 10-11=-65/263

9-11=0/1199, 4-14=0/359, 6-13=-404/130, 8-11=-411/191, 4-13=-657/72, 7-13=-61/1213,

7-11=-411/191, 7-11=-105/664

NOTES

WFBS

- 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 2-2-2, Interior (1) 2-2-2 to 19-6-10, Exterior(2R) 19-6-10 to 22-8-11, Interior (1) 22-8-11 to 31-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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.
- 7) 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.
- 9) 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



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

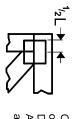
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/22/023 BEFORE USE.

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 adange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH1 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)

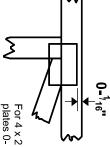


Symbols

PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- ¹/16" 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



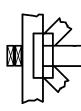
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



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

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

Plate Connected Wood Trusses

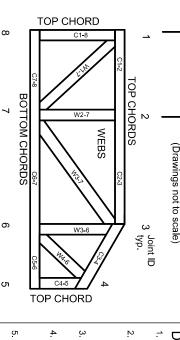
Installing, Restraining & Bracing of Metal

DSB-22:

Numbering System

6-4-8

dimensions shown in ft-in-sixteenths



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 Lumber design values are in accordance with ANSI/TPI 1 established by others.

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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

Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

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.
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 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.