

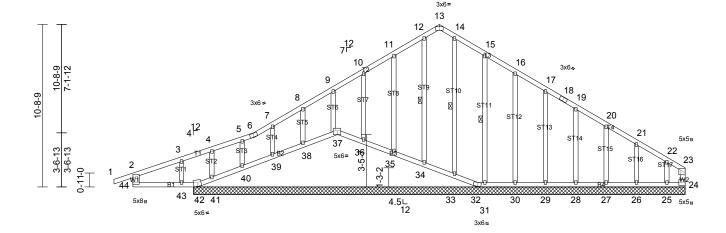
Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon Nov 10 09:44:39

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36-5-0

13-8-8





Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 233 lb	FT = 20%

LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 8-6-13 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. WEBS

12-34, 14-33, 15-31 1 Row at midpt

REACTIONS All bearings 32-5-0.

(lb) - Max Horiz 42=291 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 38, 39, 40 except 24=-647 (LC 18), 25=-387 (LC 6), 32=-113 (LC 6), 37=-255 (LC 18), 41=-181 (LC 1), 42=-483 (LC 6)

Max Grav All reactions 250 (lb) or less at joint (s) 26, 27, 28, 29, 30, 31, 32, 35, 36, 38, 39, 40, 41 except 24=514 (LC 6), 25=635 (LC 18), 33=400 (LC 1), 34=412 (LC 1), 37=329 (LC

4-3-8

6), 42=808 (LC 1)

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

TOP CHORD 2-3=-307/411, 3-4=-253/378, 4-5=-203/354, 5-6=-202/374, 6-7=-200/414, 7-8=-164/433,

8-9=-103/402, 9-10=-106/447, 10-11=-92/414, 11-12=-111/454, 12-13=-89/301, 13-14=-89/305, 14-15=-141/452, 15-16=-166/426, 16-17=-196/430, 17-18=-220/430, 18-19=-226/399, 19-20=-255/429, 20-21=-286/442, 21-22=-308/447,

22-23=-417/566, 23-24=-326/412

BOT CHORD 43-44=-341/343, 42-43=-341/343, 41-42=-543/422, 40-41=-428/341,

39-40=-440/348, 38-39=-436/347, 37-38=-439/347, 36-37=-438/338, 35-36=-439/339, 34-35=-439/339,

22-8-8

9-2-8

33-34=-438/340, 32-33=-435/340, 31-32=-404/314, 30-31=-404/314, 29-30=-404/314, 28-29=-404/314 27-28=-404/314, 26-27=-404/314.

25-26=-404/314, 24-25=-404/314 12-34=-371/40, 14-33=-363/89,

22-25=-335/224

# WEBS **NOTES**

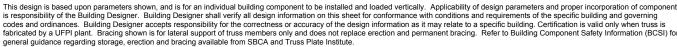
13-6-0

9-2-8

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss
- 4) All plates are 2x3 (||) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

  \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 34, 33, 35, 36, 38, 39, 40, 31, 30, 29, 28, 27, 26 except (jt=lb) 42=482, 32=113, 24=646, 37=255, 41=181, 25=387.
- 10) Non Standard bearing condition. Review required.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	A2V	Roof Special	5	1	Job Reference (optional)

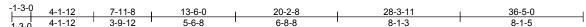
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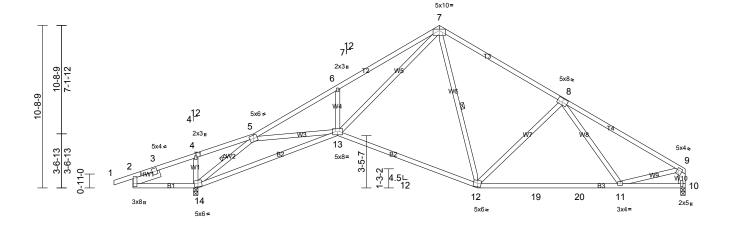
32-1-8

9-5-0

36-5-0

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.30	12-13	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.68	12-13	>560	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.25	10	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 205 lb	FT = 20%	

9-2-8

13-6-0

9-2-8

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 5-7:2x4 SP No.1

BOT CHORD 2x4 SP No.2

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

Left 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

Rigid ceiling directly applied or 2-2-0 oc **BOT CHORD** 

bracing.

WEBS 1 Row at midpt 5-14, 7-12 REACTIONS (lb/size)

10=1241/0-3-8, (min. 0-1-8), 14=1729/0-3-8, (min. 0-2-1)

Max Horiz 14=285 (LC 9)

Max Uplift 10=-140 (LC 11), 14=-236 (LC 10)

(lb) - Max. Comp./Max. Ten. - All forces 250 **FORCES** 

(lb) or less except when shown. TOP CHORD

3-4=-380/481, 4-5=-313/470, 5-6=-3034/357,

6-7=-3133/540, 7-8=-1350/320, 8-9=-1553/220, 9-10=-1236/176

2-14=-398/395, 13-14=-380/2033

**BOT CHORD** 12-13=-27/1154, 12-19=-132/1339,

19-20=-132/1339, 11-20=-132/1339

WEBS 4-14=-339/234, 5-14=-2728/445,

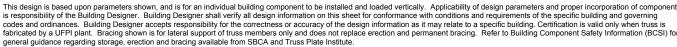
5-13=-88/953, 6-13=-447/283, 7-13=-412/2420, 7-12=-132/276,

9-11=0/1189, 8-12=-496/275

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Vasua Toshiph, TobLeo.upsi, BCDLeo.upsi, Ine2sit, C II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 14 and 140 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







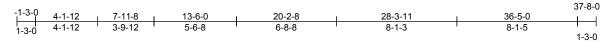
Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	A3V	Roof Special	4	1	Job Reference (optional)

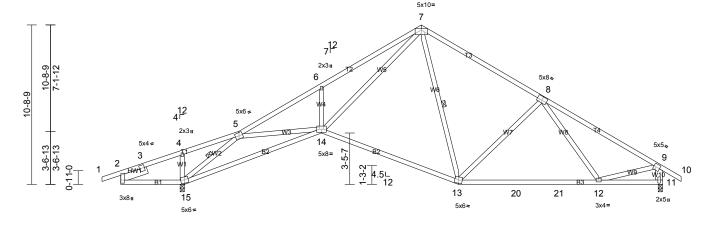
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32-1-8

9-5-0

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.30	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.68	13-14	>560	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.25	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 207 lb	FT = 20%

22-8-8

9-2-8

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 5-7:2x4 SP No.1

BOT CHORD 2x4 SP No.2

2x4 SP No.3 \*Except\* 11-9:2x6 SP No.2 **WEBS** 

SLIDER Left 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

Rigid ceiling directly applied or 2-2-0 oc **BOT CHORD** 

bracing. 1 Row at midpt

WEBS 7-13, 5-15 REACTIONS (lb/size) 11=1332/0-3-8, (min. 0-1-9),

15=1727/0-3-8, (min. 0-2-1)

Max Horiz 15=292 (LC 9)

Max Uplift 11=-171 (LC 11), 15=-236 (LC 10)

4-3-8

4-3-8

13-6-0

9-2-8

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

TOP CHORD 3-4=-380/481, 4-5=-313/470, 5-6=-3042/340,

6-7=-3141/522, 7-8=-1343/317,

8-9=-1557/230, 9-11=-1321/242

2-15=-398/395, 14-15=-354/2049, 13-14=-11/1164, 13-20=-82/1325,

20-21=-82/1325, 12-21=-82/1325 4-15=-339/233, 7-13=-139/274,

WEBS 5-15=-2723/418, 6-14=-446/283

5-14=-67/950, 7-14=-391/2431, 9-12=0/1154,

8-13=-484/270

## **NOTES**

**BOT CHORD** 

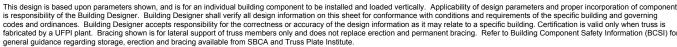
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Vasua Toshiph, TCDL=0.0psi, BCDL=0.0psi, In=2sit, C II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 15 and 171 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



36-5-0

4-3-8





Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	B1	Attic	5	1	Job Reference (optional)

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23-10-4

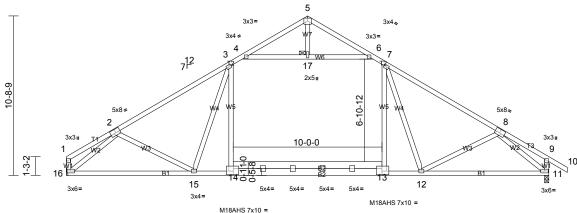
2-7-12

32-5-0

8-6-12

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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	0.85	Vert(LL)	-0.39	14-15	>996	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.47	14-15	>815	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.33	13-14	>367	360	Weight: 230 lb	FT = 20%

2-7-12

21-2-8

10-0-0

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 2-5,8-5:2x4 SP No.1 2x4 SP SS \*Except\* 14-13,14-13:2x6 SP BOT CHORD

No.2

**WEBS** 2x4 SP No.3 \*Except\* 7-13,3-14,4-6:2x4 SP

BRACING TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

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

bracing.

**JOINTS** 1 Brace at Jt(s): 17

REACTIONS (lb/size) 11=1422/0-3-8, (min. 0-1-13),

16=1335/ Mechanical

Max Horiz 16=-282 (LC 8)

Max Uplift 11=-140 (LC 11), 16=-110 (LC 10) Max Grav 11=1543 (LC 19), 16=1461 (LC 18)

8-6-12

8-6-12

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

TOP CHORD 2-3=-1954/273, 3-4=-1556/307, 6-7=-1564/308, 7-8=-1948/271

15-16=-284/1745, 14-15=-19/1696, 13-14=-25/1707, 12-13=-42/1722, **BOT CHORD** 

11-12=-146/1511

**WEBS** 7-13=-224/768, 3-14=-193/747,

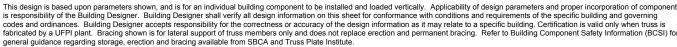
3-15=-305/325, 4-17=-1560/353, 6-17=-1560/353, 2-16=-2018/347,

7-12=-330/344, 8-11=-2040/342

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf, h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-17, 6-17
- Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 16 and 140 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Attic room checked for L/360 deflection.







Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	B2	Attic	1	1	Job Reference (optional)

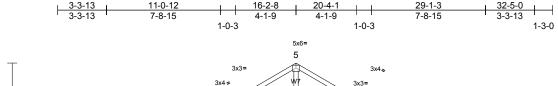
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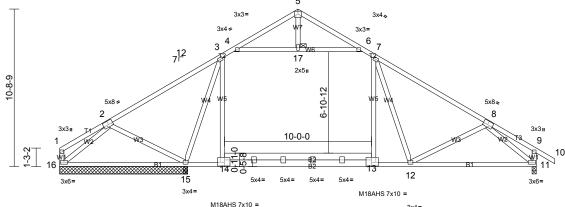
21-4-4

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33-8-0



12-0-15



		8-6-12 8-6-12			21-2-8 10-0-0		23-10-4 2-7-12	<del>                                     </del>		-5-0 6-12		
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	0.87	Vert(LL)	-0.20	13-14	>999	240	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.37	13	>776	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.10	13-14	>999	360	Weight: 230 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 2-5,8-5:2x4 SP No.1 2x4 SP SS \*Except\* 14-13,14-13:2x6 SP BOT CHORD No.2

**WEBS** 2x4 SP No.3 \*Except\* 7-13,3-14,4-6:2x4 SP

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. **BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 17

REACTIONS (lb/size) 11=1356/0-3-8, (min. 0-1-13),

15=251/8-8-8, (min. 0-1-14), 16=1149/8-8-8, (min. 0-1-14)

Max Horiz 16=-282 (LC 6)

Max Uplift 11=-196 (LC 11), 15=-336 (LC 7),

16=-191 (LC 11)

Max Grav 11=1543 (LC 19), 15=608 (LC 22),

16=1376 (LC 19)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-1894/379, 3-4=-1557/302, 4-5=-261/36,

5-6=-251/49, 6-7=-1523/280, 7-8=-1949/254

15-16=-101/1265, 14-15=-16/1496, 13-14=-8/1481, 12-13=-10/1470,

11-12=-202/1512

**WEBS** 7-13=0/424, 3-14=0/734, 3-15=-684/230, 4-17=-1551/361, 6-17=-1551/361,

2-15=-202/288, 2-16=-1834/371, 7-12=-42/295, 8-11=-2040/371

NOTES

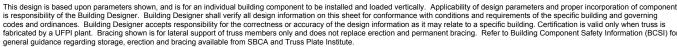
**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-17, 6-17
- Bottom chord live load (30.0 psf) and additional bottom
- chord dead load (0.0 psf) applied only to room. 13-14 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 15, 191 lb uplift at joint 16 and 196 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Attic room checked for L/360 deflection.







Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	B3	Attic	1	1	Job Reference (optional)

16-2-8

12-0-15

11-0-12

7-8-15

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Daniel Carter

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<u>23-1</u>0-4

2-7-12

32-5-0

8-6-12

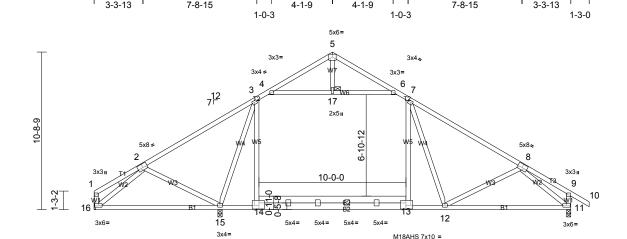
21-4-4

20-4-1

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33-8-0

32-5-0



		001	2 2112	_	10 0 0		2 / 12			0 12			
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	0.87	Vert(LL)	-0.20	13-14	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.37	13	>776	180	M18AHS	186/179	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05	11	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.10	13-14	>999	360	Weight: 230 lb	FT = 20%	

21-2-8

10\_0\_0

M18AHS 7x10 =

LUMBER

**WEBS** 

TOP CHORD 2x4 SP No.1 \*Except\* 1-2,8-10:2x4 SP No.2 2x4 SP SS \*Except\* 14-13,14-13:2x6 SP BOT CHORD

No.2

2x4 SP No.3 \*Except\* 3-14,7-13,4-6:2x4 SP

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals

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

bracing.

JOINTS 1 Brace at Jt(s): 17

11=1356/0-3-8, (min. 0-1-13), 15=251/0-3-8, (min. 0-1-8), 16=1149/ Mechanical REACTIONS (lb/size)

Max Horiz 16=-282 (LC 6)

Max Uplift 11=-196 (LC 11), 15=-336 (LC 7),

16=-191 (LC 11)

Max Grav 11=1543 (LC 19), 15=608 (LC 22),

16=1376 (LC 19)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-1894/379, 3-4=-1557/302, 4-5=-261/36, 5-6=-251/49, 6-7=-1523/280, 7-8=-1949/254

15-16=-101/1265, 14-15=-16/1496,

13-14=-8/1481, 12-13=-10/1470,

11-12=-202/1512

**WEBS** 2-15=-202/288, 3-15=-684/230, 3-14=0/734,

7-13=0/424, 4-17=-1551/361, 6-17=-1551/361, 2-16=-1834/371,

7-12=-42/295, 8-11=-2040/371

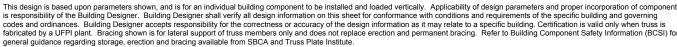
## NOTES

**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-17, 6-17
- Bottom chord live load (30.0 psf) and additional bottom
- chord dead load (0.0 psf) applied only to room. 13-14 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 15, 191 lb uplift at joint 16 and 196 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Attic room checked for L/360 deflection.







Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	B4	Common	2	1	Job Reference (optional)

16-2-8

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Daniel Carter

8-1-8

6-1-10

6-1-10

8-6-12

2-5-2

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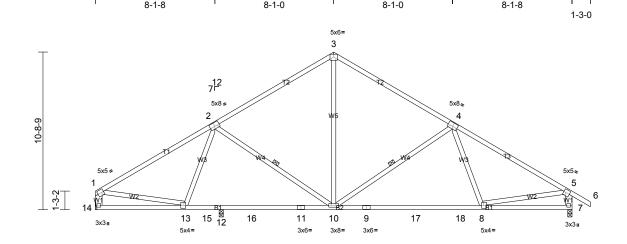
26-3-6

10-0-14

Page: 1

33-8-0

32-5-0 6-1-10



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	0.90	Vert(LL)	-0.22	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.48	8-10	>590	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 188 lb	FT = 20%

16-2-8

7-7-12

LUMBER

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

2x4 SP No.3 \*Except\* 14-1,7-5:2x6 SP No.2 **WEBS** 

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing. WFBS

1 Row at midpt 2-10. 4-10 REACTIONS (lb/size) 7=1321/0-3-8, (min. 0-1-9),

12=183/0-3-8, (min. 0-1-8),

14=1141/ Mechanical

Max Horiz 14=-284 (LC 6)

Max Uplift 7=-183 (LC 11), 14=-169 (LC 10) Max Grav 7=1321 (LC 1), 12=260 (LC 17),

14=1141 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

1-2=-1453/330, 2-3=-1218/345, 3-4=-1216/344, 4-5=-1637/300,

3-4=-1216/344, 4-5=-1637/300, 1-14=-1060/254, 5-7=-1282/296 13-14=-255/412, 13-15=-248/1322, 12-15=-248/1322, 12-16=-248/1322, 11-16=-248/1322, 10-11=-248/1322, **BOT CHORD** 

9-10=-114/1323, 9-17=-114/1323,

17-18=-114/1323, 8-18=-114/1323,

7-8=-124/269 **WEBS** 3-10=-146/698, 2-10=-420/291,

1-13=-104/973, 4-10=-582/260, 5-8=-11/1157

### NOTES

TOP CHORD

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

- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 7 and 169 lb uplift at joint 14.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



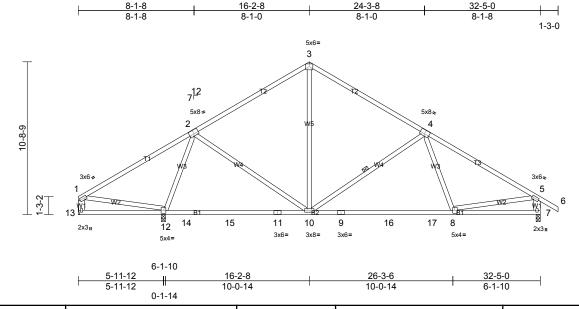


Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	B5	Common	2	1	Job Reference (optional)

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33-8-0



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	0.93	Vert(LL)	-0.17	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.36	8-10	>857	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 188 lb	FT = 20%

## LUMBER

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

2x4 SP No.3 \*Except\* 7-5,13-1:2x6 SP No.2 **WEBS** 

## **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals

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

bracing, Except: 2-2-0 oc bracing: 8-10.

**WEBS** 4-10 1 Row at midpt

REACTIONS (lb/size) 7=1100/0-3-8, (min. 0-1-8),

12=1456/0-3-8, (min. 0-1-13),

13=89/ Mechanical

Max Horiz 13=-284 (LC 6)

Max Uplift 7=-162 (LC 11), 12=-153 (LC 10), 13=-49 (LC 24) Max Grav 7=1100 (LC 1), 12=1519 (LC 17),

13=144 (LC 21)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD

1-2=-56/359, 2-3=-832/262, 3-4=-830/260, 4-5=-1320/231, 5-7=-1073/251

12-13=-272/353, 12-14=-148/365, 14-15=-148/365, 11-15=-148/365,

10-11=-148/365, 9-10=-61/1016,

9-16=-61/1016, 16-17=-61/1016, 8-17=-61/1016, 7-8=-122/267

**WEBS** 2-12=-1293/293, 2-10=0/510, 3-10=-62/377,

5-8=0/870, 1-12=-370/175, 4-10=-606/266

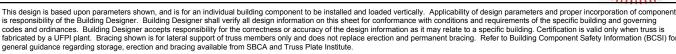
### NOTES

BOT CHORD

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

- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 7, 153 lb uplift at joint 12 and 49 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



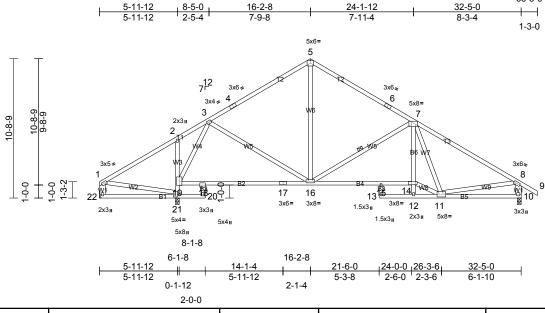


Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	В6Т	Roof Special	5	1	Job Reference (optional)

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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	0.84	Vert(LL)	-0.11	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.23	16-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 210 lb	FT = 20%

## LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* 20-18,15-13,7-12:2x4 BOT CHORD

SP No.3

**WEBS** 2x4 SP No.3 \*Except\* 10-8,22-1:2x6 SP No.2 5)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.

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

bracing.

**WEBS** 7-16 1 Row at midpt

10=1098/0-3-8, (min. 0-1-8), REACTIONS (lb/size)

21=1507/0-3-8, (min. 0-1-13), 22=41/ Mechanical

Max Horiz 22=-284 (LC 6) Max Uplift 10=-197 (LC 11), 21=-108 (LC 10), 22=-176 (LC 11)

10=1098 (LC 1), 21=1520 (LC 17), Max Grav

22=119 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. 1-2=-97/454, 2-3=-36/414, 3-4=-882/263,

TOP CHORD 4-5=-764/306, 5-6=-766/308, 6-7=-890/265,

7-8=-1275/287, 8-10=-1039/290 21-22=-260/330, 20-21=-338/0,

18-19=-31/534, 17-18=-129/373

16-17=-129/373, 15-16=-107/1228,

14-15=-71/1195, 10-11=-132/320, 7-14=0/670

**WEBS** 19-21=-1274/197, 5-16=-110/406,

7-16=-716/256, 1-21=-467/129,

11-14=-20/1311, 7-11=-666/71, 8-11=0/740,

3-16=0/429, 3-19=-1199/105

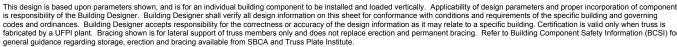
### NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 22, 197 lb uplift at joint 10 and 108 lb uplift at joint 21.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



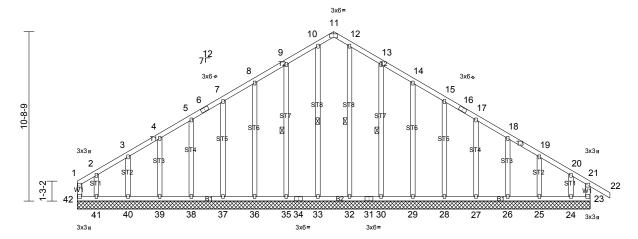




Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	B7G	Common Supported Gable	1	1	Job Reference (optional)

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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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 240 lb	FT = 20%

32-5-0

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 or 6-0-0 oc purlins, except end verticals.

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

WEBS 1 Row a

1 Row at midpt 10-33, 12-32, 9-35, 13-30

REACTIONS All bearings 32-5-0.

(lb) - Max Horiz 42=-282 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 25, 26, 27, 28, 29, 30, 35, 36, 37, 38, 39, 40 except 23=-143 (LC 7), 24=-197 (LC 11), 41=-214 (LC 10),

42=-218 (LC 8)

Max Grav All reactions 250 (lb) or less at joint (s) 24, 25, 26, 27, 28, 29, 30, 32, 33, 35, 36, 37, 38, 39, 40 except 23=257 (LC 17), 41=278 (LC 8),

42=257 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

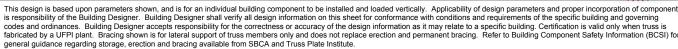
(lb) or less except when shown. TOP CHORD 9-10=-251/309, 12-13=-251/309

## NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- 4) All plates are 2x3 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 35, 36, 37, 38, 39, 40, 30, 29, 28, 27, 26, 25 except (jt=lb) 42=218, 23=143, 41=214, 24=196.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







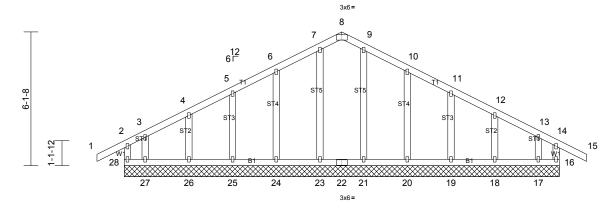
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Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	C1G	Common Supported Gable	1	1	Job Reference (optional)

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19-11-0

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 115 lb	FT = 20%

## LUMBER

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

## **BRACING**

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

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

bracing.

REACTIONS All bearings 19-11-0.

(lb) - Max Horiz 28=-101 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 23, 24, 25,

26, 27, 28

Max Grav All reactions 250 (lb) or less at joint  $(s)\ 8,\ 16,\ 17,\ 18,\ 19,\ 20,\ 21,\ 23,\ 24,$ 25, 26, 27, 28

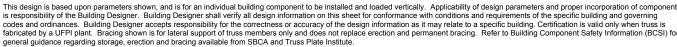
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 28, 16, 23, 21, 24, 25, 26, 27, 20, 19, 18, 17
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	C2	Common	5	1	Job Reference (optional)

9-11-8

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Daniel Carter

-1-3-0

5-1-8

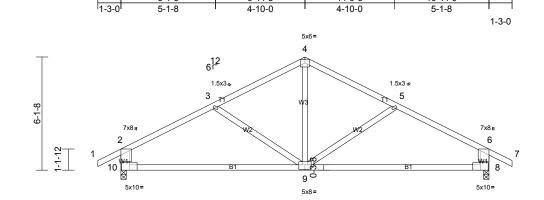
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19-11-0

14-9-8

Page: 1

21-2-0





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	0.98	Vert(LL)	-0.18	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.38	8-9	>613	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 96 lb	FT = 20%

## LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2

2x4 SP No.3 \*Except\* 10-2,8-6:2x6 SP No.2 **WEBS** 

### **BRACING**

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing.

REACTIONS (lb/size) 8=867/0-3-8, (min. 0-1-8),

10=867/0-3-8, (min. 0-1-8)

Max Horiz 10=-103 (LC 8)

Max Uplift 8=-120 (LC 11), 10=-120 (LC 10) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-992/293, 3-4=-794/237, 4-5=-794/237,

5-6=-992/293, 2-10=-759/309, 6-8=-759/309

BOT CHORD 9-10=-128/774, 8-9=-103/774

**WEBS** 4-9=-40/401

### NOTES

**FORCES** 

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 10, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 10 and 120 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





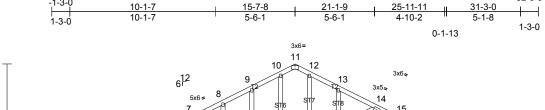
Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	D1SG	Common Structural Gable	1	1	Job Reference (optional)

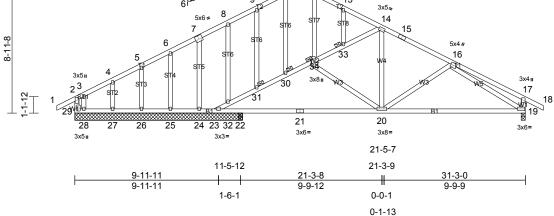
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.20	19-20	>999	240	MT20	244/190
TCDL	18.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.42	19-20	>561	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.05	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 214 lb	FT = 20%

LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 20-22,19-20.

JOINTS 1 Brace at Jt(s): 30,

31, 33, 34

**REACTIONS** All bearings 11-7-8. except 19=0-3-8, 22=0-3-8

(lb) - Max Horiz 29=-136 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s) 24, 25, 26, 27 except 19=-155 (LC 11), 23=-185 (LC 11), 28=-637 (LC

Max Grav All reactions 250 (lb) or less at joint (s) 25, 26, 27, 28 except 19=1204

(LC 1), 22=414 (LC 3), 23=487 (LC 1), 24=381 (LC 1), 29=1033 (LC 1)

(lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown.

TOP CHORD 2-3=-543/0, 3-4=-392/0, 4-5=-391/18,

5-6=-401/68, 6-7=-354/97, 7-8=-416/172, 8-9=-426/219, 9-10=-365/245, 10-11=-285/232, 11-12=-346/243,

12-13=-354/247, 13-14=-430/217 14-15=-1159/312, 15-16=-1310/299,

16-17=-315/100, 2-29=-679/47, 17-19=-401/192

BOT CHORD 28-29=-10/361, 27-28=-10/361,

26-27=-10/361, 25-26=-10/361, 24-25=-10/361, 23-24=-9/358, 22-23=-36/1220, 21-22=-36/1220, 20-21=-36/1220, 19-20=-171/1242 23-32=-1084/232, 31-32=-1013/213,

30-31=-1007/206, 30-34=-1028/219, 33-34=-895/206, 14-33=-882/189,

7-24=-293/147, 3-28=0/302, 14-20=0/467,

16-19=-1259/269

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- All plates are 2x3 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 24, 25, 26, 27 except (jt=lb) 19=155, 23=185, 28=637.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



## NOTES

**WEBS** 

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) from the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) from the correctness or accuracy of the design information as it may relate to a specific building. general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	D2	Common	1	1	Job Reference (optional)

15-7-8

7-10-2

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7-9-6

7-9-6

9-3-11

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23-5-10

7-10-2

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32-6-0

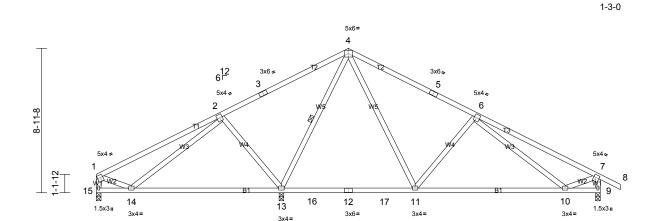
31-3-0

31-3-0

7-9-6

29-0-15

9-3-11



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.22	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.30	10-11	>792	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 175 lb	FT = 20%

19-9-4

8-3-8

LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-1-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 13-14. 4-13

**WEBS** 1 Row at midpt REACTIONS (lb/size)

9=794/0-3-8, (min. 0-1-8),

13=1447/0-3-8, (min. 0-1-11), 15=319/0-3-8, (min. 0-1-8)

Max Horiz 15=-140 (LC 6)

Max Uplift 9=-147 (LC 11), 13=-161 (LC 10), 15=-41 (LC 10)
Max Grav 9=794 (LC 1), 13=1447 (LC 1),

15=356 (LC 21)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD

1-2=-393/65, 3-4=0/362, 4-5=-473/270, 5-6=-588/232, 6-7=-820/186, 1-15=-398/47,

7-9=-831/214

**BOT CHORD** 10-11=-86/704 WEBS

2-14=0/374, 2-13=-531/314, 4-13=-951/207,

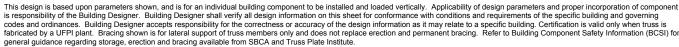
1-14=0/288, 4-11=-133/603, 6-11=-457/292,

7-10=0/615

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 15, 161 lb uplift at joint 13 and 147 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



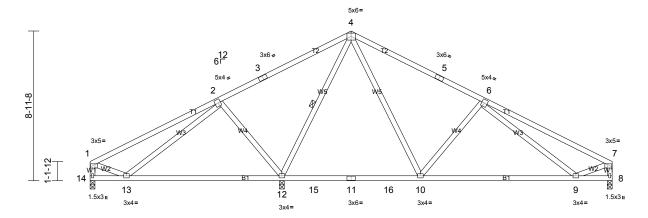




Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	D3	Common	1	1	Job Reference (optional)

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	2-2-1 2-2-1	11-5-12 9-3-11	-	19-9-4 8-3-8		<del>                                     </del>		29-0-15 9-3-11	5	31-3- 2-2-1	
Loading         (psf)           TCLL (roof)         20.0           TCDL         10.0           BCLL         0.0*           BCDL         10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MSH	0.87 0.66 0.47	Vert(LL) Vert(CT) Horz(CT)	in -0.22 -0.30 0.02	(loc) 10-12 9-10 8	I/defl >999 >792 n/a		PLATES MT20 Weight: 173 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 12-13.

**WEBS** 1 Row at midpt 4-12

REACTIONS (lb/size) 8=707/0-3-8, (min. 0-1-8),

12=1451/0-3-8, (min. 0-1-11),

14=318/0-3-8, (min. 0-1-8)

Max Horiz 14=-127 (LC 6)

Max Uplift 8=-114 (LC 11), 12=-165 (LC 10), 14=-38 (LC 10)
Max Grav 8=707 (LC 1), 12=1451 (LC 1),

14=356 (LC 21)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

1-2=-393/52, 3-4=0/365, 4-5=-477/262, 5-6=-595/224, 6-7=-807/161, 1-14=-397/36,

7-8=-745/128

**BOT CHORD** 9-10=-124/715

4-12=-956/227, 2-12=-531/317, 1-13=0/287, WEBS

2-13=0/375, 4-10=-140/611, 6-10=-469/300,

7-9=0/627

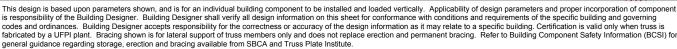
### NOTES

TOP CHORD

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 8, 165 lb uplift at joint 12 and 38 lb uplift at joint 14.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	D4G	Common Girder	1	3	Job Reference (optional)

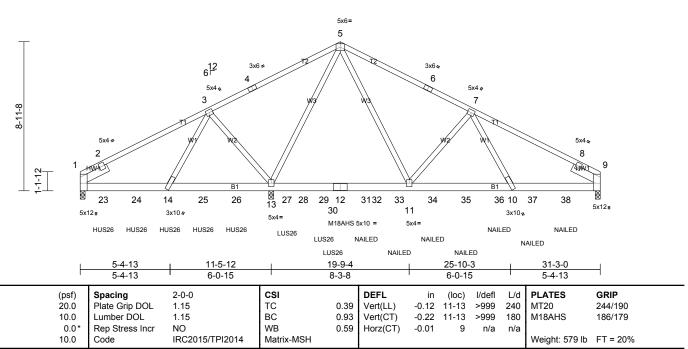
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7-9-3

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23-5-13 31-3-0 7-10-5



LUMBER

Loading

TCDI

**BCLL** 

**BCDL** 

TCLL (roof)

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.1 2x4 SP No.3 **WEBS** 

SLIDER Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP

No.2 -- 1-11-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size)

1=2958/0-3-8, (min. 0-1-8), 9=921/0-3-8, (min. 0-1-8), 13=9013/0-3-8, (req. 0-3-12)

Max Horiz 1=-130 (LC 9)

Max Uplift 1=-195 (LC 8), 9=-714 (LC 9),

13=-1653 (LC 8) 1=3094 (LC 15), 9=921 (LC 1), Max Grav

13=9561 (LC 15)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD 1-2=-2088/8, 2-3=-2742/124, 3-4=-293/1680,

4-5=-268/1798, 5-6=-803/787, 6-7=-916/759.

7-8=-1004/1130, 8-9=-346/407

**BOT CHORD** 1-23=-187/2523, 23-24=-151/2523, 14-24=-151/2523, 14-25=-141/518

25-26=-141/518, 13-26=-141/518,

13-27=-313/30, 27-28=-313/30, 28-29=-313/30, 29-30=-313/30 12-30=-313/30, 12-31=-313/30,

31-32=-313/30, 32-33=-313/30, 11-33=-313/30, 11-34=-744/939.

34-35=-744/939, 35-36=-744/939, 10-36=-744/939, 10-37=-910/903,

37-38=-910/903, 9-38=-910/903 WFBS 5-13=-2898/991, 5-11=-1112/2046, 3-13=-2976/482, 3-14=-332/4432,

7-11=-390/462, 7-10=-353/109

NOTES

3-ply truss to be connected together with 10d 1) (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 0-4-0 oc.

- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 1, 1653 lb uplift at joint 13 and 714 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-12 from the left end to 9-4-12 to connect truss(es) B1 (1 ply 2x4 SP) to back face of bottom chord.
- 12) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-2-8 oc max. starting at 12-5-4 from the left end to 15-2-4 to connect truss(es) B3 (1 ply 2x4 SP), B4 (1 ply 2x4 SP) to back face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber. 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d

Page: 1

(0.148"x3.25") toe-nails per NDS guidlines.

7-9-3

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

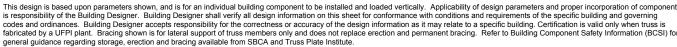
Vert: 1-5=-60, 5-9=-60, 15-19=-20

Concentrated Loads (lb)

Vert: 14=-1315 (B), 23=-1315 (B), 24=-1315 (B), 25=-1315 (B), 26=-1315 (B), 27=-1129 (B), 29=-1121 (B), 30=-1121 (B), 31=-124 (B), 33=-40 (B), 34=-40

(B), 35=-40 (B), 36=-40 (B), 37=-40 (B), 38=-124 (B)







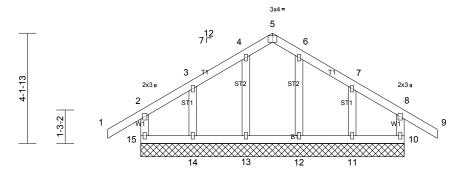
Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	E1G	Common Supported Gable	1	1	Job Reference (optional)

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Page: 1



9-11-0



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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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 54 lb	FT = 20%

#### LUMBER

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

## **BRACING**

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

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

bracing.

**REACTIONS** All bearings 9-11-0.

(lb) - Max Horiz 15=-127 (LC 8)

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

10, 11, 14, 15

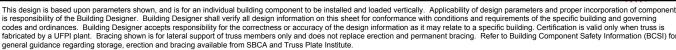
All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15

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

- 1) Unbalanced roof live loads have been considered for
- this design.
  Wind: ASCE 7-10; Vult=130mph (3-second gust)
  Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only.
- 4) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 15, 10, 14, 11.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

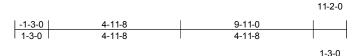


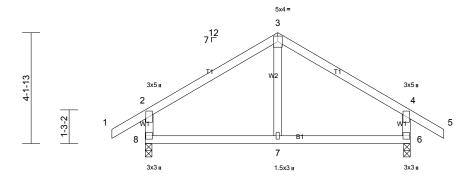




Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	E2	Common	3	1	Job Reference (optional)

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4-11-8	9-11-0
4-11-8	4-11-8

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	0.55	Vert(LL)	0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 44 lb	FT = 20%

## LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals Rigid ceiling directly applied or 10-0-0 oc

**BOT CHORD** 

bracing.

REACTIONS (lb/size) 6=469/0-3-0, (min. 0-1-8),

8=469/0-3-0, (min. 0-1-8)

Max Horiz 8=-127 (LC 8)

Max Uplift 6=-71 (LC 11), 8=-71 (LC 10) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-356/304, 3-4=-356/304, 2-8=-399/293,

4-6=-399/293

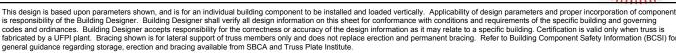
## NOTES

**FORCES** 

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

  \* This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 8 and 71 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



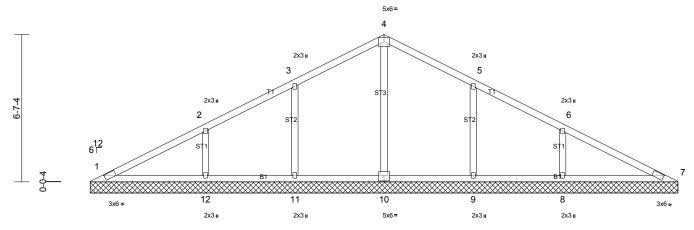




Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V1	Valley	1	1	Job Reference (optional)

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Loading Spacing 2-0-0 CSI **DEFL** I/defl L/d **PLATES** GRIP (psf) in (loc) TCLL (roof) 20.0 Plate Grip DOI 1 15 TC 0.28 Vert(LL) 999 MT20 244/190 n/a n/a TCDI BC. 10.0 Lumber DOL 1 15 0.26 Vert(TL) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.22 Horiz(TL) 0.00 8 n/a **BCDL** 10.0 IRC2015/TPI2014 Matrix-MSH Weight: 108 lb FT = 20%

26-4-0

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS All bearings 26-4-0.

(lb) - Max Horiz 1=-111 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7 except 8=-119 (LC 11), 9=-101 (LC 11), 11=-102 (LC 10), 12=-119 (LC 10)

Max Grav All reactions 250 (lb) or less at joint (s) 1, 7 except 8=426 (LC 1), 9=324 (LC 24), 10=463 (LC 17), 11=333 (LC 23), 12=396 (LC 1)

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

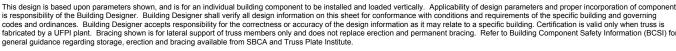
WFBS 4-10=-281/0, 2-12=-273/177, 6-8=-288/178

## NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 7 except (jt=lb) 11=101, 12=118, 9=101, 8=119.

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





Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V2	Valley	1	1	Job Reference (optional)

10-10-0

10-10-0

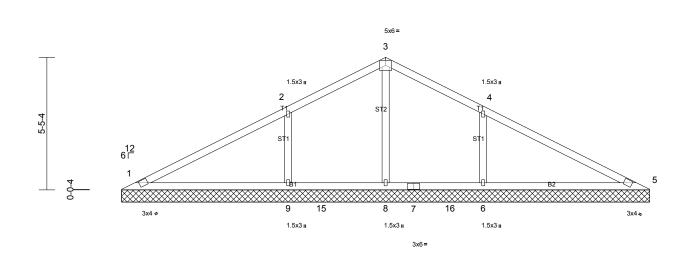
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Daniel Carter

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21-8-0

10-10-0

Page: 1



Loading Spacing 2-0-0 CSI **DEFL** I/defl L/d **PLATES** GRIP (psf) in (loc) TCLL (roof) 20.0 Plate Grip DOI 1 15 TC 0.58 Vert(LL) 999 MT20 244/190 n/a n/a TCDI BC. 10.0 Lumber DOL 1 15 0.36 Vert(TL) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.34 Horiz(TL) -0.02 14 n/a **BCDL** 10.0 IRC2015/TPI2014 Matrix-MSH Weight: 82 lb FT = 20%

21-8-0

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS All bearings 21-8-0.

(lb) - Max Horiz 1=-91 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 5 except 1=-148 (LC 22), 6=-164 (LC

11), 9=-164 (LC 10)

Max Grav All reactions 250 (lb) or less at joint

(s) 1, 5 except 6=542 (LC 1), 8=695

(LC 2), 9=537 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 1-2=-129/646, 2-3=0/578, 3-4=0/576,

4-5=-129/647 BOT CHORD

1-9=-497/177, 9-15=-497/177,

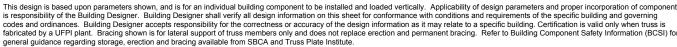
8-15=-497/177, 7-8=-497/177, 7-16=-497/177, 6-16=-497/177, 5-6=-497/177

**WEBS** 3-8=-641/67, 2-9=-369/234, 4-6=-375/236

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 1, 164 lb uplift at joint 9 and 163 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

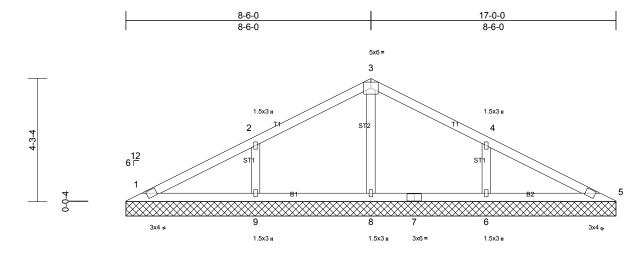






Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V3	Valley	1	1	Job Reference (optional)

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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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 62 lb	FT = 20%

17-0-0

## LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

### REACTIONS All bearings 17-0-0.

(lb) - Max Horiz 1=-72 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-122 (LC 11), 9=-120 (LC 10)

Max Grav All reactions 250 (lb) or less at joint

(s) 1, 5 except 6=404 (LC 22), 8=326 (LC 1), 9=380 (LC 21)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

WEBS 3-8=-263/46, 2-9=-274/176, 4-6=-285/178

## NOTES

**FORCES** 

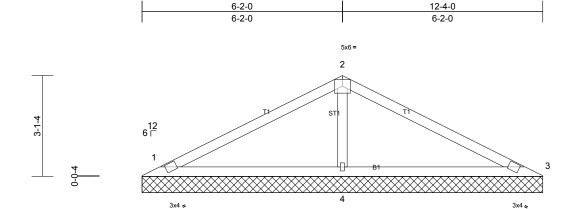
- 1) Unbalanced roof live loads have been considered for
- this design.
  Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5 except (jt=lb) 9=120, 6=122.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V4	Valley	1	1	Job Reference (optional)

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1.5x3 II

12-4-0

Loading (psf) Spacing 2-0-0 CSI **DEFL** I/defl L/d **PLATES** GRIP in (loc) TCLL (roof) Plate Grip DOL 244/190 20.0 1 15 TC 0.45 Vert(LL) 999 MT20 n/a n/a TCDI BC. 10.0 Lumber DOL 1 15 0.40 Vert(TL) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB Horiz(TL) 0.00 4 0.14 n/a **BCDL** 10.0 IRC2015/TPI2014 Matrix-MSH Weight: 41 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=55/12-4-0, (min. 0-1-8),

3=94/12-4-0, (min. 0-1-8), 4=792/12-4-0, (min. 0-1-8)

Max Horiz 1=-52 (LC 11)

Max Uplift 1=-65 (LC 22), 3=-6 (LC 11),

4=-109 (LC 11) Max Grav 1=147 (LC 21), 3=94 (LC 1), 4=792

(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 1-2=-107/349, 2-3=-94/389 BOT CHORD 1-4=-283/150, 3-4=-283/150

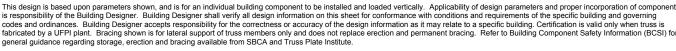
**WEBS** 2-4=-581/252

### NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1, 6 lb uplift at joint 3 and 109 lb uplift at joint 4.

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



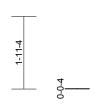


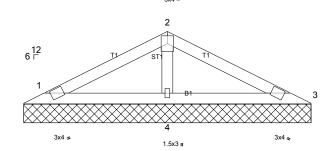
Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V5	Valley	1	1	Job Reference (optional)

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7-8-0

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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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 24 lb	FT = 20%

#### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

7-8-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

1=53/7-8-0, (min. 0-1-8), 3=87/7-8-0, (min. 0-1-8), 4=427/7-8-0, (min. 0-1-8)

Max Horiz 1=-33 (LC 11)

Max Uplift 1=-21 (LC 10), 3=-15 (LC 11),

4=-46 (LC 11)

Max Grav 1=91 (LC 21), 3=87 (LC 1), 4=427

(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

WEBS 2-4=-289/143

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 15 lb uplift at joint 3 and 46 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

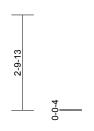


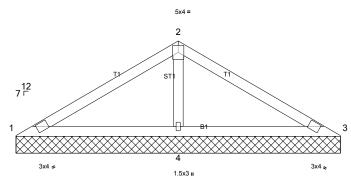


Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V6	Valley	1	1	Job Reference (optional)

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9-7-2

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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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		` ′					Weight: 32 lb	FT = 20%	

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

9-7-2 oc purlins.

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

bracing.

REACTIONS (lb/size)

1=2/9-7-2, (min. 0-1-8), 3=-2/9-7-2, (min. 0-1-8), 4=768/9-7-2, (min.

0-1-8

Max Horiz 1=-66 (LC 6)

Max Uplift 1=-1 (LC 10), 3=-98 (LC 21), 4=-90

(LC 10)

Max Grav 1=2 (LC 17), 3=95 (LC 22), 4=768

(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. 1-2=-134/442, 2-3=-70/424

TOP CHORD

BOT CHORD 1-4=-354/126, 3-4=-330/111 **WEBS** 2-4=-613/166

## NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 3, 4, 1.

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





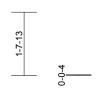
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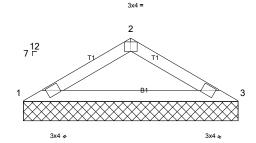
Job	Truss	Truss Type	Qty	Ply	PBS/MADISON II RF
72530438	V7	Valley	1	1	Job Reference (optional)

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5-7-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 16 lb	FT = 20%

## LUMBER

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

## **BRACING**

TOP CHORD Structural wood sheathing directly applied or

5-7-2 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=224/5-7-2, (min. 0-1-8),

3=224/5-7-2, (min. 0-1-8)

Max Horiz 1=-37 (LC 8)

Max Uplift 1=-26 (LC 10), 3=-26 (LC 11) (lb) - Max. Comp./Max. Ten. - All forces 250

**FORCES** (lb) or less except when shown.

TOP CHORD 1-2=-385/87, 2-3=-259/80

BOT CHORD 1-3=-65/320

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 26 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



