

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Jun 01 16:20:23

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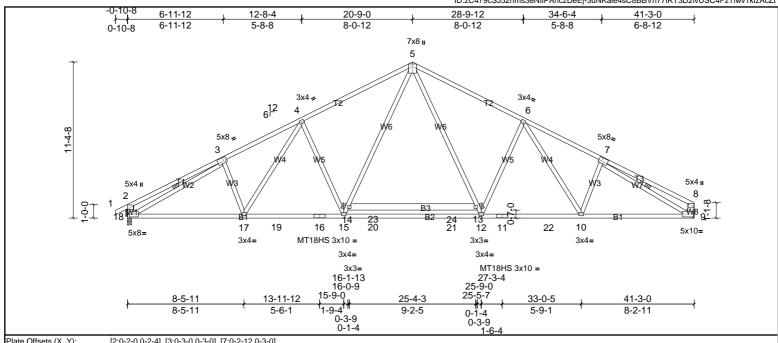


Plate Offsets (X, Y): [2:0-2-0,0-2-4], [3:0-3-0,0-3-0], [7:0-2-12,0-3-0]

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	0.84	Vert(LL)	-0.36	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.69	12-15	>709	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.15	9	n/a	n/a	ĺ	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR	1						Weight: 272 lb	FT = 20%
											1	

LUMBER **BRACING**

TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied, except end verticals. BOT CHORD **BOT CHORD** 2x4 SP No.2 *Except* B2:2x4 SP No.1, B3:2x6 SP No.2 Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

WEBS 2x4 SP No.3 *Except* W1,W8:2x6 SP No.2 6-0-0 oc bracing: 13-14

WEBS 1 Row at midpt 3-18, 7-9 REACTIONS (lb/size) 2=586/0-1-8, (min. 0-1-8), 9=1727/ Mechanical, (min. 0-1-8),

18=1208/0-3-8, (min. 0-1-9) Max Horiz 2=175 (LC 7)

> Max Unlift 2=-135 (LC 10), 9=-164 (LC 11), 18=-57 (LC 10)

Max Grav 2=586 (LC 1), 9=1795 (LC 2), 18=1319 (LC 2)

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

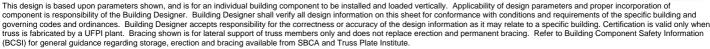
TOP CHORD 2-3=-753/225, 3-4=-2864/662, 4-5=-2587/635, 5-6=-2577/634, 6-7=-2811/656, 7-8=-660/247, 8-9=-470/214

BOT CHORD 17-18=-412/2520, 17-19=-292/2407, 16-19=-292/2407, 15-16=-292/2407, 15-20=-90/1939, 20-21=-90/1939, 12-21=-90/1939, 11-12=-289/2387, 11-22=-289/2387, 10-22=-289 9-10=-404/2455

WEBS $6-12 = -531/324, \ 4-15 = -555/326, \ 4-17 = -104/289, \ 3-18 = -2317/388, \ 7-9 = -2361/361, \ 5-13 = -146/1015, \ 12-13 = -202/803, \ 14-15 = -205/821, \ 5-14 = -149/1032, \ 14-15 = -205/821, \ 14-15 =$

- 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=35ft; 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) 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 5)
- the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2, 57 lb uplift at joint 18 and 164 lb uplift at joint 9.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 9)
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.









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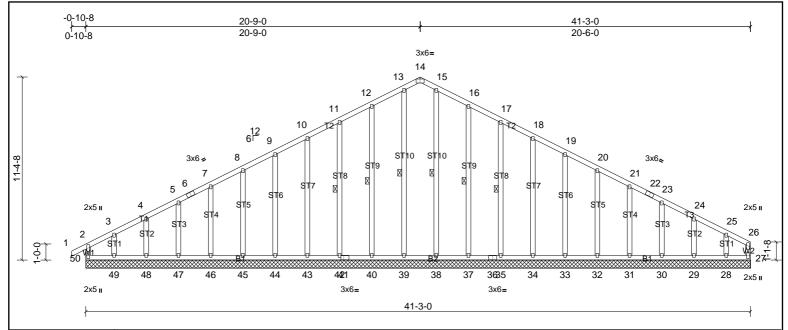


Plate Offsets (X, Y): [14:0-3-0,Edge], [41:0-2-0,0-1-8]

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	27	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 307 lb	FT = 20%

LUMBER BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS WFBS 1 Row at midpt 13-39, 15-38, 12-40, 11-42, 16-37, **OTHERS** 2x4 SP No.3 17-35

REACTIONS All bearings 41-3-0. (lb) - Max Horiz 50=173 (LC 7)

> All uplift 100 (lb) or less at joint(s) 27, 29, 30, 31, 32, 33, 34, 35, 37, 40, 42, 43, 44, 45, 46, 47, 48, 50 except 28=-171 (LC 11), 49=-176 (LC 10) Max Uplift Max Grav All reactions 250 (lb) or less at joint(s) 27, 28, 29, 30, 31, 32, 33, 34, 35 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 50

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

TOP CHORD 10-11=-108/262, 11-12=-125/309, 12-13=-149/377, 13-14=-130/324, 14-15=-130/324, 15-16=-149/377, 16-17=-125/309, 17-18=-108/262

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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) 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.
- 6) 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.
- * 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 9) 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) 50, 27, 40, 42, 43, 44, 45, 46, 47, 10 48, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 49=176, 28=171.
- 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.



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





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ID:4RqdJEPo1pHKNSLc3wLEXmzDeEn-?GV4?RgKOpOuRpxVE7Tx8e85Ll8cY9LmCEO8odzAcZr 42-4-8 12-8-4 20-9-0 28-9-12 34-6-4 41-6-0 6-11-12 0-10-8 6-11-12 5-8-8 8-0-12 8-0-12 5-8-8 6-11-12 0-10-8 7x8 II 5 6¹² 4 6 11-4-8 5x8 = 5x8 3 5x4 II 5x4 II 8 18 22 17 16 13 25 5x5= 5x5= MT18HS 3x10 = 3x4= 3x3 =3x4= 3x4= 3x4= 3x3= MT18HS 3x10 = 27-3-4 25-9-0 16-1-13 16-0-9 25 15-9-0 8-5-11 13-11-12 25-4-3 33-0-5 41-6-0 1-9-4 8-5-11 9-2-5 0-1-4 8-5-11 5-6-1 5-9-1 0-3-9 0-3-9 0-1-4

[3:0-2-12,0-3-0], [7:0-2-12,0-3-0], [10:0-2-0,0-2-12], [19:0-1-8,0-2-12] Plate Offsets (X, Y):

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	0.85	Vert(LL)	-0.37	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.70	13-16	>703	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 274 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD TOP CHORD 2x4 SP No.2 BOT CHORD **BOT CHORD** 2x4 SP No.2 *Except* B3:2x6 SP No.2, B2:2x4 SP No.1

Rigid ceiling directly applied or 2-2-0 oc bracing. Except: WEBS 2x4 SP No.3 *Except* W1:2x6 SP No.2, W7:2x6 SP No.1 6-0-0 oc bracing: 14-15

WEBS 1 Row at midpt 3-19, 7-10 REACTIONS (lb/size) 10=1803/0-3-8, (min. 0-2-3), 19=1803/0-3-8, (min. 0-2-3)

> 19=168 (LC 9) 10=-189 (LC 11), 19=-189 (LC 10) Max Unlift

Max Grav 10=1858 (LC 2), 19=1855 (LC 2)

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

TOP CHORD 2-19 = -586/291, 8-10 = -586/292, 2-3 = -753/263, 3-4 = -2883/672, 4-5 = -2607/641, 5-6 = -2611/641, 6-7 = -2888/672, 7-8 = -754/263, 3-4 = -2883/672, 3-4 =18-19=-382/2541, 18-22=-257/2425, 17-22=-257/2425, 16-17=-257/2425, 16-23=-55/1959, 23-24=-55/1959, 13-24=-55/1959, 12-13=-257/2429, 12-25=-257/2429, 11-25=-257/2429, 12-25=-257 BOT CHORD

15-16=-207/820, 5-15=-151/1031, 5-14=-151/1040, 13-14=-207/828, 4-18=-109/288, 4-16=-554/328, 6-13=-554/328, 6-11=-109/288, 3-19=-2336/359, 7-10=-2340/359, 3-10=-109/288, 3-19=-2336/359, 3-10=-109/288, 3-10=-109/28

WEBS 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=35ft; 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) All plates are MT20 plates unless otherwise indicated.

Max Horiz

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 19 and 189 lb uplift at joint 10. 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/ 7)



Structural wood sheathing directly applied, except end verticals.





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39

BOT CHORD

WFBS

40

41-5-0

38

37

3635

3x6 =

1 Row at midpt

34

33

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

32

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

17-37

Plate Offsets (X, Y): [14:0-3-0,Edge], [43:0-1-12,0-1-8]

49

48

47

50

2x5 II

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.02	27	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR	i						Weight: 307 lb	FT = 20%
		1										

LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD

46

45

4413

3x6=

42

41

BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS All bearings 42-0-0 (lb) - Max Horiz 1=163 (LC 7)

> All uplift 100 (lb) or less at joint(s) 1, 27, 28, 30, 31, 32, 33, 34, 35, 37, 38, 41, 42, 44, 45, 46, 47, 48, 49, 50, 51 except 29=-101 (LC 11) Max Uplift Max Grav All reactions 250 (lb) or less at joint(s) 1, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 51

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

TOP CHORD 11-12=-118/285, 12-13=-142/351, 13-14=-125/305, 14-15=-125/305, 15-16=-142/351, 16-17=-118/285

NOTES

11-4-8

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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) 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.
- 6) 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.
- * 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 9) 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) 51, 1, 27, 28, 41, 42, 44, 45, 46, 47, 48, 49, 50, 38, 37, 35, 34, 33, 32, 31, 30 except (jt=lb) 29=100. 10
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 27.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 12) TPI 1.



31

30

13-40, 15-39, 12-41, 11-42, 16-38,

29

2x5 II



 Job
 Truss
 Truss Type
 Qty
 Ply
 PBS\SMITHFIELD ENG COUNTRY LH RF

 72320002
 B1G
 Truss
 1
 1
 Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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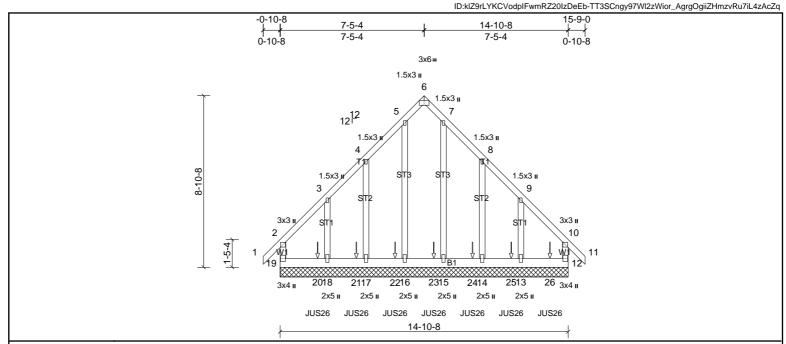


Plate Offsets (X, Y): [6:0-3-0,Edge]

/d PLATES G	RIP
99 MT20 2	44/190
99	
/a	
Weight: 119 lb F	T = 20%
	99 MT20 2 99 N/a

BOT CHORD

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP №2
 TOP CHORD

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS All bearings 14-10-8.

(lb) - Max Horiz 19=258 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 15, 16 except 12=-111 (LC 7), 13=-295 (LC 11), 14=-158 (LC 11), 17=-158 (LC 10), 18=-293 (LC 10), 19=-104

(LC 6)

Max Grav All reactions 250 (lb) or less at joint(s) 19 except 12=269 (LC 17), 13=366

(LC 18), 14=259 (LC 22), 15=262 (LC 19), 16=263 (LC 20), 17=263 (LC

21), 18=361 (LC 17)

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

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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) Truss designed for wind loads in the plane of the truss only
- 4) Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 15 except (jt=lb) 19=103, 12=110, 17=158, 18=292, 14=158, 13=294.
- 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.
- 1) Use MITek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to
- 13-11-4 to connect truss(es) to front face of bottom chord.Fill all nail holes where hanger is in contact with lumber.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-6=-60, 6-10=-60, 10-11=-60, 12-19=-20

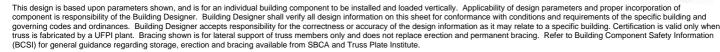
Concentrated Loads (lb)

Vert: 20=-107 (F), 21=-107 (F), 22=-107 (F), 23=-107 (F), 24=-107 (F), 25=-107 (F), 26=-109 (F)



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

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





Job PBS\SMITHFIELD ENG COUNTRY LH RF Truss Truss Type Qty Ply B₂L 2 72320002 1 Truss Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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 $ID: GY?nd?XiRBgmC8gjCj1pT5zDeEc-TT3SCngy97Wl2zWior_AgrgNNiWQHdRvRu7iL4zAcZq$ 3-10-6 7-5-4 14-10-8 11-0-2 3-10-6 3-6-14 3-6-14 3-10-6 5x6= 3

12 12□ 3x6 3x6 2 5x5: 5x5= 5 6 9 7 11 8 13 15 16 12 14 M18AHS 5x10 II M18AHS 5x10 II 7x10 ıı 8x8= 7x10 II

3-10-6 Plate Offsets (X, Y): [1:0-3-0,0-1-12], [3:0-3-0,0-1-8], [5:0-3-0,0-1-12], [8:0-4-0,0-4-12]

											i	
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	0.38	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.11	7-8	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02	6	n/a	n/a	1	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 248 lb	FT = 20%

HUS26

7-5-4

3-6-14

HUS26

BOT CHORD

HUS26

11-0-2

3-6-14

HUS26

14-10-8

3-10-6

HUS26

LUMBER **BRACING** TOP CHORD

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

WEBS 2x4 SP No.3 *Except* W1:2x6 SP No.2, W5:2x4 SP No.2

REACTIONS (lb/size) 6=7048/0-3-8, (reg. 0-4-4), 10=6055/0-3-8, (reg. 0-3-11)

10=233 (LC 5) Max Horiz Max Unlift 6=-728 (LC 8), 10=-628 (LC 9) Max Grav 6=7237 (LC 2), 10=6204 (LC 2)

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

TOP CHORD 1-2=-5713/626, 2-3=-4327/573, 3-4=-4327/573, 4-5=-5750/629, 1-10=-5275/558, 5-6=-5285/560 BOT CHORD 10-11=-266/652, 9-11=-266/652, 9-12=-464/3983, 8-12=-464/3983, 8-13=-370/4009, 13-14=-370/4009, 7-14=-370/4009, 7-15=-86/575, 15-16=-86/575, 6-16=-86/575

1-9=-338/3675, 5-7=-335/3626, 2-9=-208/2131, 2-8=-1621/324, 3-8=-702/5845, 4-8=-1664/328, 4-7=-214/2192

HUS26

3-10-6

HUS26

WFBS NOTES

6)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-9 2x4 - 1 row at 0-6-0 oc.

- 21 All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections
- have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 4)
- 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.
- 7)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 8) WARNING: Required bearing size at joint(s) 10, 6 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 628 lb uplift at joint 10 and 728 lb uplift at joint 6. 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.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord
- Fill all nail holes where hanger is in contact with lumber. 12

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 1) Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 6-10=-20

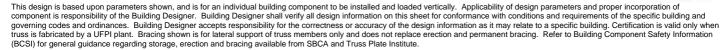
Concentrated Loads (lb)

Vert: 9=-1707 (B), 11=-1707 (B), 12=-1707 (B), 13=-1707 (B), 14=-1707 (B), 15=-1707 (B), 16=-1711 (B)



Structural wood sheathing directly applied or 5-1-4 oc purlins, except end

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





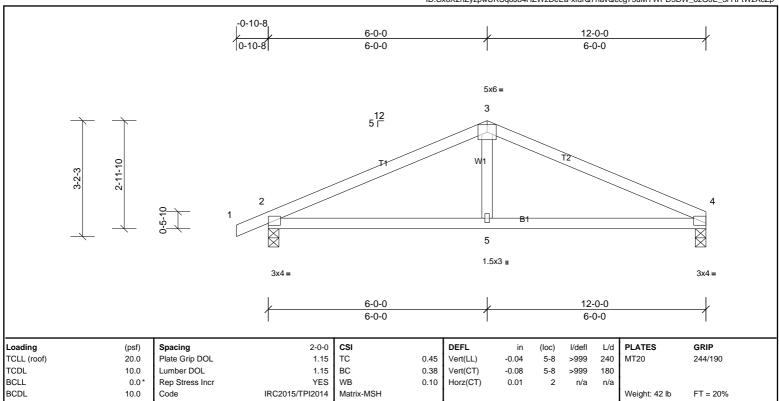


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Structural wood sheathing directly applied or 5-10-12 oc purlins.

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



BOT CHORD

LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS (lb/size) 2=534/0-3-8, (min. 0-1-8), 4=478/0-3-8, (min. 0-1-8)

> Max Horiz 2=56 (LC 10)

Max Uplift 2=-87 (LC 10), 4=-67 (LC 11)

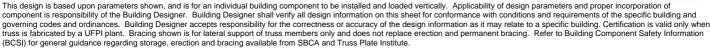
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-734/239, 3-4=-734/238 BOT CHORD 2-5=-142/618, 4-5=-142/618

WEBS 3-5=0/267

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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. 3)
- * 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 4) the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 4 and 87 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 6) **TPI 1.**







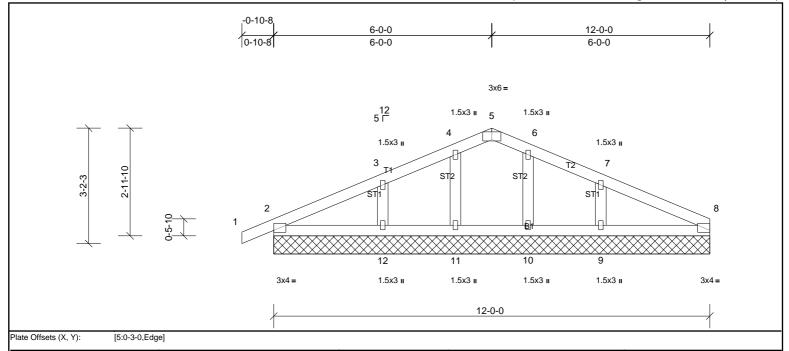


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Structural wood sheathing directly applied or 6-0-0 oc purlins

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



Lo	ading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TC	CLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TC	CDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BC	CLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BC	CDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 48 lb	FT = 20%

LUMBER **BRACING**

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 12-0-0.

(lb) - Max Horiz 2=56 (LC 10), 13=56 (LC 10)

All uplift 100 (lb) or less at joint(s) 2, 8, 9, 10, 11, 12, 13, 17 Max Unlift Max Grav All reactions 250 (lb) or less at joint(s) 2, 8, 9, 10, 11, 12, 13, 17

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 2) 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
- All plates are 1.5x3 MT20 unless otherwise indicated. 4)
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 11, 10, 12, 9, 2, 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/ 10) TPI 1.







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 $ID: ZdO? XaPQo7PB? cwocdsT4_zDeEm-xfdrQ7 havQecg75 uMYWPD3DS_6 tG0DG3 fYtFtWzAcZparter for the control of the$ -0-10-8 7-4-10 10-0-0 0-10-8 7-4-10 1.5x3 _{II} 1.5x3 ₃12 3 5 7x8= 3x5 =10-0-0 9-10-8 9-10-8

Plate Offsets (X, Y):	[2:0-1-8,Edg	ej											
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	0.71	Vert(LL)	-0.22	5-8	>534	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.50	5-8	>238	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	5	n/a	n/a			
BCDI	10.0	Code	IRC2015/TPI2014	Matrix-MSH		1					Weight: 39 lh	FT = 20%	

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end **BOT CHORD** 2x4 SP No.2

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS

REACTIONS (lb/size) 2=449/0-3-8, (min. 0-1-8), 5=392/0-1-8, (min. 0-1-8)

Max Horiz 2=110 (LC 9)

Max Uplift 2=-113 (LC 6), 5=-86 (LC 10)

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

TOP CHORD 2-3=-544/238 **BOT CHORD** 2-5=-203/509 3-5=-574/317 WEBS

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2 and 86 lb uplift at joint 5.
- 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/





Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD ENG COUNTRY LH RF
72320002	D1G	Truss	1	1	Job Reference (optional)

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ID: klZ9rLYKCVodplFwmRZ20lzDeEb-xfdrQ7havQecg75uMYWPD3Dbv6150Fx3fYtFtWzAcZparter (Compared to the compared t10-0-0 9-8-8 9-8-8 1.5x3 II 1.5x3 II 6 1.5x3 II 5 1.5x3 II 4 3 ST3 1.5x3 II 1.5x3 II 1.5x3 II 3x4 = 3x4 = 9-8-8

Plate Offsets (X, Y):	[2:0-4-8,0-0-	-2]											
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	0.14	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	0.04	Horz(CT)	0.00	7	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 41 lb	FT = 20%	

9-8-8

LUMBER BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS

OTHERS 2x4 SP No.3

REACTIONS All bearings 10-0-0.

(lb) - Max Horiz 2=107 (LC 9), 12=107 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 7, 8, 9, 10, 12

Max Grav All reactions 250 (lb) or less at joint(s) 2, 7, 8, 9, 12 except 10=313 (LC 1)

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

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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 1) for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only.
- 3) Gable requires continuous bottom chord bearing
- Gable studs spaced at 2-0-0 oc. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7, 10, 9, 8, 2.
- 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.



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

Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD ENG COUNTRY LH RF
72320002	E1	Truss	3	1	Job Reference (optional)

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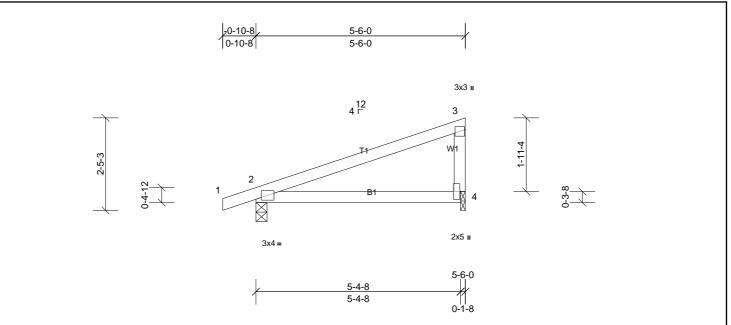


Plate Offsets (X, Y):	[4:0-2-8,0-0-	4]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.03	4-7	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	4-7	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 21 lb	FT = 20%	

BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end 2x4 SP No.2 **BOT CHORD** BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No 3 WEBS

REACTIONS (lb/size) 2=271/0-3-8, (min. 0-1-8), 4=210/0-1-8, (min. 0-1-8)

Max Horiz 2=88 (LC 9)

Max Uplift 2=-77 (LC 6), 4=-49 (LC 10)

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

NOTES

LUMBER

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) 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.
- 3) * 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2 and 49 lb uplift at joint 4.
- 7) 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.

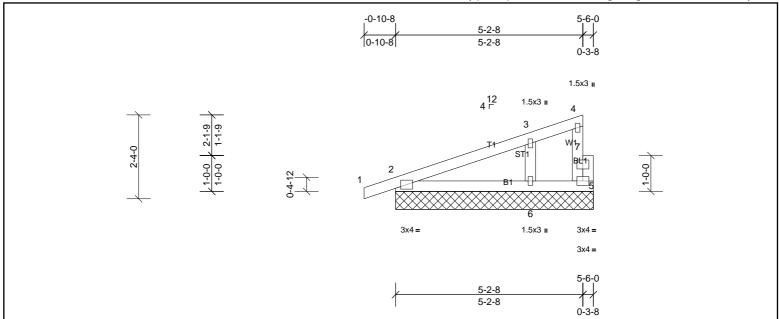






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riate Oliseis (A, 1). [2.0-1-11,0-0-4]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 23 lb	FT = 20%	

LUMBER BRACING

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3 WEBS

OTHERS 2x4 SP No.3

REACTIONS All bearings 5-6-0. (lb) - Max Horiz

2=83 (LC 9), 8=83 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8

Max Grav All reactions 250 (lb) or less at joint(s) 2, 5, 8 except 6=279 (LC 1) (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1)

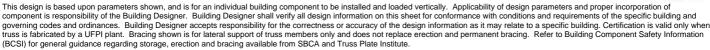
[2:0 4 44 0 0 4]

FORCES NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
- 2) Truss designed for wind loads in the plane of the truss only
- 3) Gable requires continuous bottom chord bearing
- Gable studs spaced at 2-0-0 oc. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 2.
- 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.



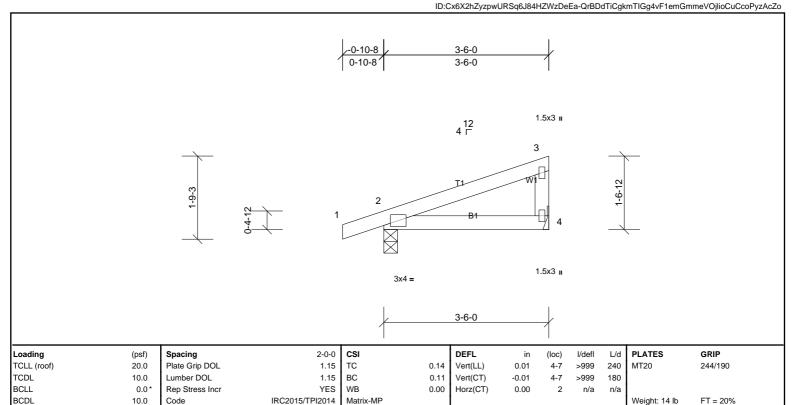
Structural wood sheathing directly applied or 5-6-0 oc purlins, except end







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LUMBER BRACING TOP CHORD

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

BOT CHORD WEBS 2x4 SP No.3 REACTIONS (lb/size) 2=194/0-3-8, (min. 0-1-8), 4=127/ Mechanical, (min. 0-1-8)

> Max Horiz 2=58 (LC 9)

Max Uplift 2=-65 (LC 6), 4=-29 (LC 10)

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

FORCES NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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.
- 3) * 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
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 4 and 65 lb uplift at joint 2.
- 5) 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.



Structural wood sheathing directly applied or 3-6-0 oc purlins, except end

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





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verticals

-0-10-8 3-6-0 10-10-8 3-6-0 1.5x3 II 4 12 1.5x3 _{II} 3x4: 1.5x3 II 1.5x3 II 3-6-0 3-4-8 3-4-8

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	0.07	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	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

BOT CHORD

LUMBER BRACING TOP CHORD

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

OTHERS 2x4 SP No.3

REACTIONS All bearings 3-6-0.

(lb) - Max Horiz 2=58 (LC 9), 7=58 (LC 9) Max Uplift

All uplift 100 (lb) or less at joint(s) 2, 5, 6, 7 Max Grav All reactions 250 (lb) or less at joint(s) 2, 5, 6, 7

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

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between
 - the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6, 2.
- 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.



Structural wood sheathing directly applied or 3-6-0 oc purlins, except end

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



Job Truss Type PBS\SMITHFIELD ENG COUNTRY LH RF Truss Qty Ply 1 72320002 Truss 1 Job Reference (optional)

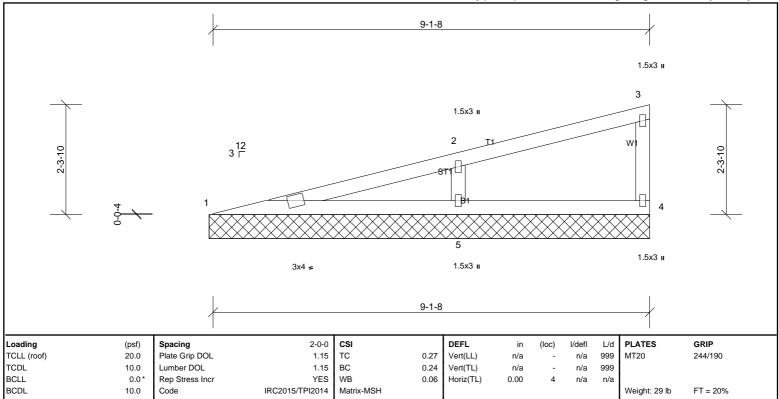
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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verticals

BOT CHORD

Page: 1 ID: Cx6X2hZyzpwURSq6J84HZWzDeEa-QrBDdTiCgkmTIGg4vF1emGmkbVMjlitCuCcoPyzAcZoNLCCCQPyzAcZoNLCCCQPyzAcZONCCQPyzAcZONC



LUMBER BRACING TOP CHORD

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

2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS (lb/size) 1=170/9-2-8, (min. 0-1-8), 4=102/9-2-8, (min. 0-1-8), 5=452/9-2-8, (min.

0-1-8) 1=88 (LC 7) Max Horiz

1=-26 (LC 6), 4=-21 (LC 10), 5=-102 (LC 6) Max Uplift

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

TOP CHORD 1-2=-406/112 **BOT CHORD** 1-5=-134/388 WEBS 2-5=-303/199

NOTES

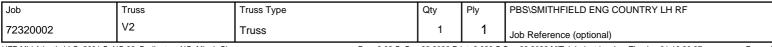
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 4, 26 lb uplift at joint 1 and 102 lb uplift at joint 5.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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/ 7) TPI 1



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

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



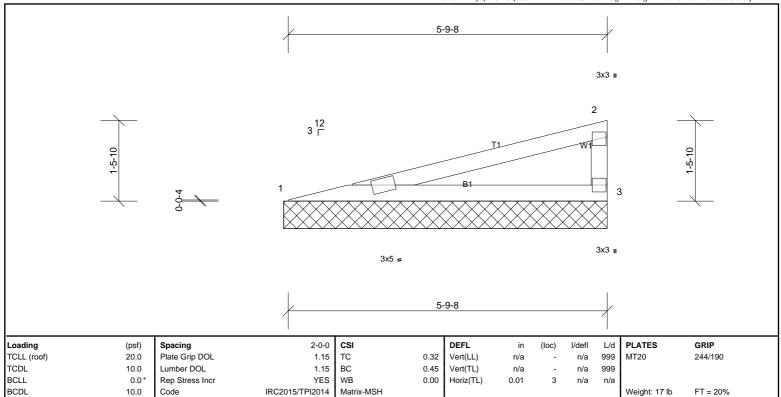


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Page: 1

Structural wood sheathing directly applied or 5-9-8 oc purlins, except end

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



BOT CHORD

LUMBER BRACING TOP CHORD

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

WEBS 2x4 SP No.3

REACTIONS (lb/size) 1=229/5-10-8, (min. 0-1-8), 3=229/5-10-8, (min. 0-1-8)

> Max Horiz 1=52 (LC 7)

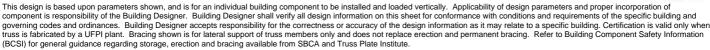
Max Uplift 1=-44 (LC 6), 3=-50 (LC 10)

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

TOP CHORD 1-2=-647/276 **BOT CHORD** 1-3=-285/622

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) 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. 3)
- * 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 4) the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3 and 44 lb uplift at joint 1.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 7) 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.







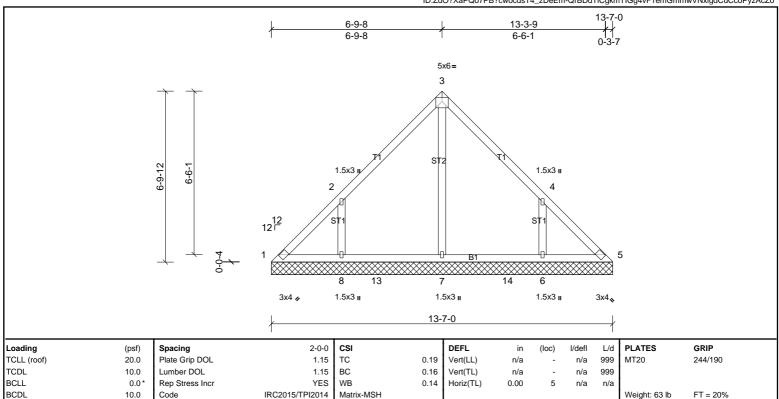


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Page: 1 $ID: ZdO? XaPQo7PB? cwocdsT4_zDeEm-QrBDdTiCgkmTlGg4vF1emGmmwVNxlgdCuCcoPyzAcZoNemCoPyzAcZ$

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



LUMBER BRACING TOP CHORD

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

REACTIONS All bearings 13-7-0 (lb) - Max Horiz 1=171 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-215 (LC 11), 8=-220 (LC

All reactions 250 (lb) or less at joint(s) 1, 5 except 6=388 (LC 18), 7=364 Max Grav

(LC 17), 8=394 (LC 17)

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

WEBS 2-8=-324/263, 4-6=-324/261

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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.
- 4) 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 5) the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=219, 6=214.
- 7) 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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5-9-8 11-3-9 5-9-8 5-6-1 5x6: 3 5-9-12 5-6, 1.5x3 1.5x3₁ 2 12 12□ 6 3x4 " 1.5x3 II 1.5x3 II 1.5x3 II 3x4 11-7-0 Loading (psf) Spacing 2-0-0 CSI in I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) 999 MT20 244/190 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.12 Vert(TL) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.08 Horiz(TL) 0.00 5 n/a n/a BCDL IRC2015/TPI2014 10.0 Matrix-MSH Weight: 52 lb FT = 20% Code

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

OTHERS REACTIONS

All bearings 11-7-0 (lb) - Max Horiz 1=145 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-196 (LC 11), 8=-202 (LC

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=338 (LC 18),

8=344 (LC 17)

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

WEBS 2-8=-333/276, 4-6=-333/273

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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. 3)

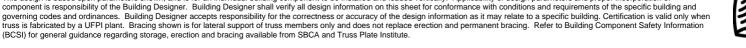
2x4 SP No.3

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

(BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute

- * 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 5) the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=202, 6=196.
- 7) 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.



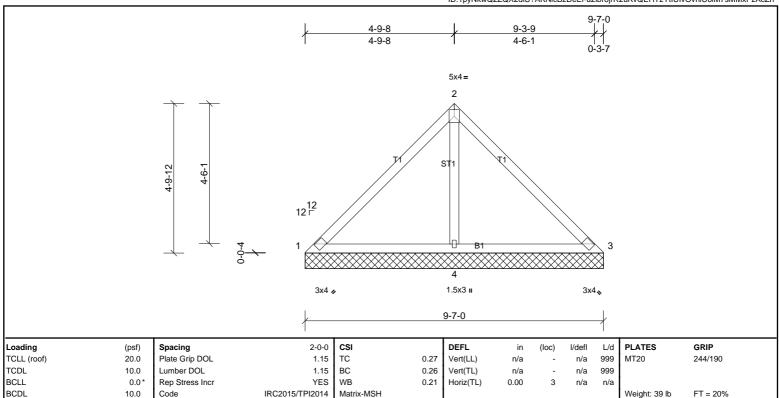






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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 9-7-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

(lb/size) 1=36/9-7-0, (min. 0-1-8), 3=36/9-7-0, (min. 0-1-8), 4=694/9-7-0, (min. 0-1-8)

2x4 SP No.3

1=-119 (LC 8) Max Horiz

Max Uplift 1=-22 (LC 22), 3=-22 (LC 21), 4=-178 (LC 10) 1=74 (LC 21), 3=74 (LC 22), 4=694 (LC 1) Max Grav

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

TOP CHORD 1-2=-130/285, 2-3=-119/277

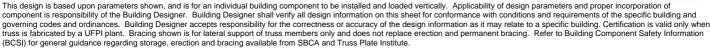
WEBS 2-4=-548/263

NOTES

OTHERS REACTIONS

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 22 lb uplift at joint 3 and 178 lb uplift at joint 4.
- 7) 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.



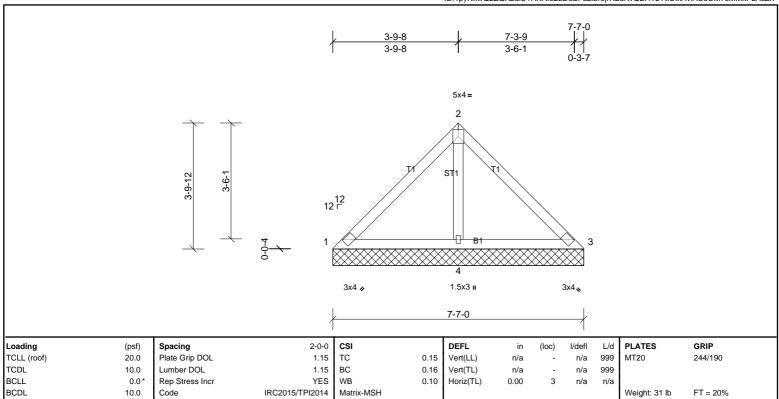






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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 7-7-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=55/7-7-0, (min. 0-1-8), 3=55/7-7-0, (min. 0-1-8), 4=497/7-7-0, (min. 0-1-8) 1=-93 (LC 8) Max Horiz

2x4 SP No.3

Max Uplift 4=-114 (LC 10)

1=78 (LC 21), 3=78 (LC 22), 4=497 (LC 1) Max Grav

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

WEBS 2-4=-361/171

NOTES

OTHERS

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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.
- 3)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between 5) the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 4.
- 7) 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.**



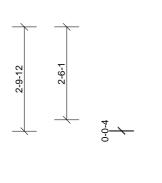


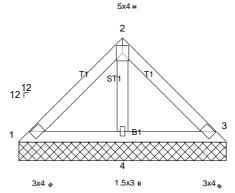


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Page: 1







	5-7-0	
1		1

I/defI L/d	(loc)	I/defI	I/defI L	(loc) I/de	(loc)	(loc	in	DEFL	I	CSI	2-0-0	Spacing	(psf)	Loading
n/a 999	-	n/a	n/a 99	- n/	-		n/a	Vert(LL)	0.07	TC	1.15	Plate Grip DOL	20.0	TCLL (roof)
n/a 999	-	n/a	n/a 99	- n/	-		n/a	Vert(TL)	0.09	BC	1.15	Lumber DOL	10.0	TCDL
n/a n/a	4	n/a	n/a n	4 n/	4		0.00	Horiz(TL)	0.04	WB	YES	Rep Stress Incr	0.0*	BCLL
									I	Matrix-MSH	IRC2015/TPI2014	Code	10.0	BCDL
	- - 4			- - 4	- - 4	(100	n/a n/a	Vert(LL) Vert(TL)	0.07 0.09	TC BC WB	1.15 1.15 YES	Plate Grip DOL Lumber DOL Rep Stress Incr	20.0 10.0 0.0*	TCLL (roof) TCDL BCLL

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins. 2x4 SP No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=82/5-7-0, (min. 0-1-8), 3=65/5-7-0, (min. 0-1-8), 4=273/5-7-0, (min.

0-1-8) Max Horiz

Max Uplift 1=-14 (LC 11), 3=-13 (LC 11), 4=-66 (LC 10) 1=85 (LC 18), 3=85 (LC 22), 4=276 (LC 17) Max Grav

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

NOTES

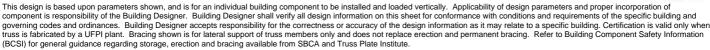
OTHERS

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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.

2x4 SP No.3

- 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 5) the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 13 lb uplift at joint 3 and 66 lb uplift at
- 7) 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.



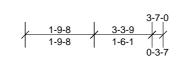


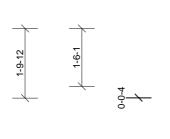


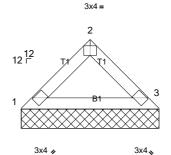
Job	Truss	Truss Type	Qty Ply		PBS\SMITHFIELD ENG COUNTRY LH RF
72320002	V8	Truss	1	1	Job Reference (optional)

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	3-7-0	,
1		1

Plate Offsets	(X, Y):	[2:0-2-0,Edge]
riale Olisels	(A, I).	[2.0-2-0,Euge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP	l					1	Weight: 12 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=130/3-7-0, (min. 0-1-8), 3=130/3-7-0, (min. 0-1-8)

Max Horiz 1=41 (LC 7)

Max Uplift 1=-14 (LC 10), 3=-14 (LC 10)

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

FORCES NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 14 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/ 7) TPI 1.



