

Job 72333198	Truss A1	Truss Type Truss	Qty 9	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton					Job Reference (optional)

Run: 8.86 S 8.62 Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Sep 13 12:42:44 Page: 1
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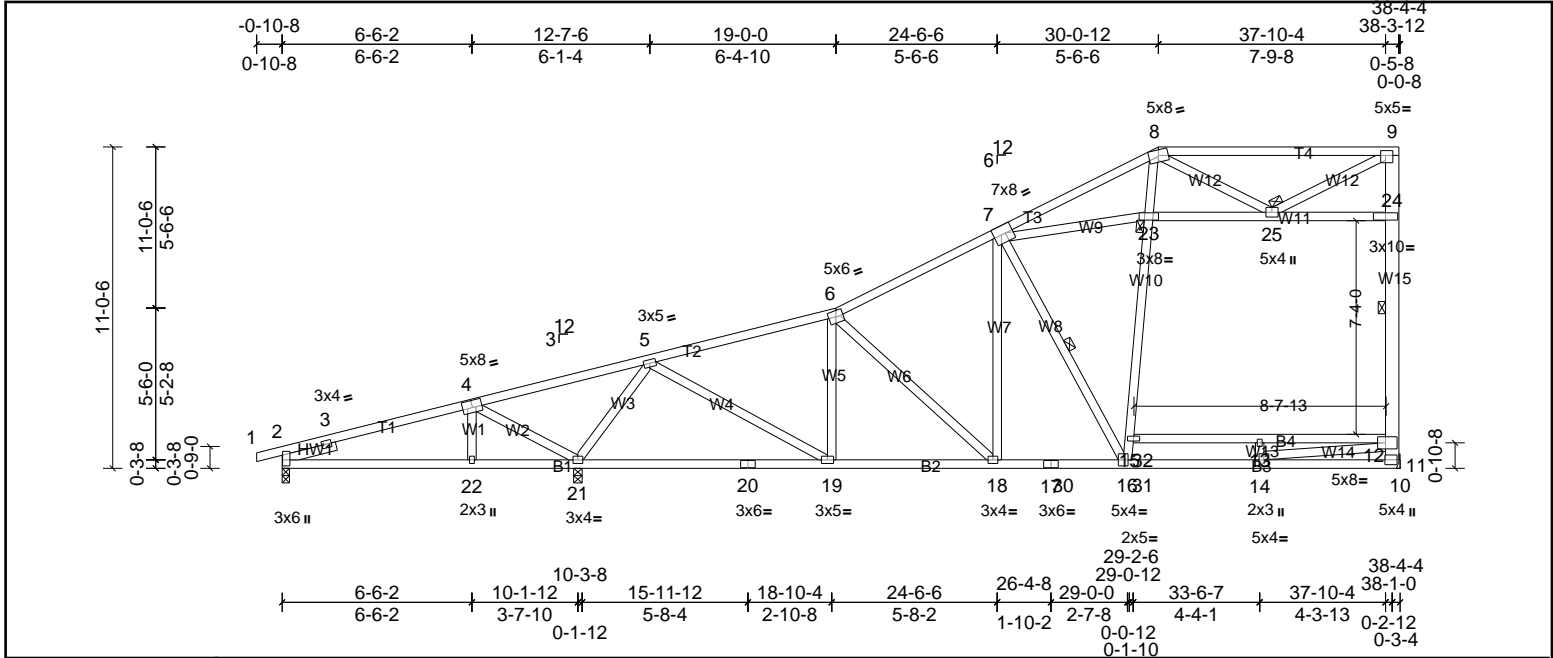


Plate Offsets (X, Y): [2:0-4-6,0-0-3], [4:0-4-0,0-3-0], [9:0-2-0,0-2-0], [11:0-2-0,0-0-4], [12:0-4-12,0-2-8]

Loading	(psf)	Spacing	2-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.35	13-15	>961	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.55	13-15	>605	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 281 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP No.1, T4:2x4 SP SS	TOP CHORD	2-0-0 oc purlins (2-9-14 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-3-0 oc bracing. Except:
WEBS	2x4 SP No.3 *Except* W15:2x6 SP SS, W10:2x4 SP No.1, W11,W9:2x4 SP No.2	WEBS	6-0-0 oc bracing: 12-15
SLIDER	Left 2x4 SP No.3 -- 1-11-0	WEBS	1 Row at midpt
REACTIONS	(lb/size) 2=202/0-3-0, (min. 0-1-8), 11=1358/ Mechanical, (min. 0-1-8), 21=2266/0-3-8, (min. 0-2-11) Max Horiz 2=493 (LC 10) Max Uplift 2=205 (LC 6), 11=73 (LC 10), 21=393 (LC 10) Max Grav 2=202 (LC 1), 11=1746 (LC 2), 21=2266 (LC 1)	JOINTS	1 Brace at Jt(s): 6, 8, 23, 25, 9
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-307/148, 3-4=-210/594, 4-5=-577/1197, 5-6=-1263/35, 6-7=-1300/125, 7-8=-3180/965, 8-9=-1201/450, 11-12=-1527/321, 12-24=-1045/373, 9-24=-1042/372 BOT CHORD 2-22=-624/145, 21-22=-623/0, 18-19=-357/1191, 17-18=-318/1103, 17-30=-318/1103, 16-30=-318/1103, 16-31=0/644, 14-31=0/644, 11-14=-899/45, 15-32=-377/0, 13-32=-377/0, 12-13=-377/0 WEBS 4-21=-930/716, 5-21=-2020/582, 5-19=-187/1361, 6-19=-493/212, 7-18=-12/291, 7-16=-1433/602, 15-16=-387/1426, 15-23=-338/1591, 8-23=-434/1831, 12-14=-14/1554, 23-25=-857/2326, 24-25=-578/0, 8-25=-1614/467, 9-25=-483/1672, 7-23=-893/2372		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 11, 205 lb uplift at joint 2 and 393 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



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



Job 72333198	Truss A1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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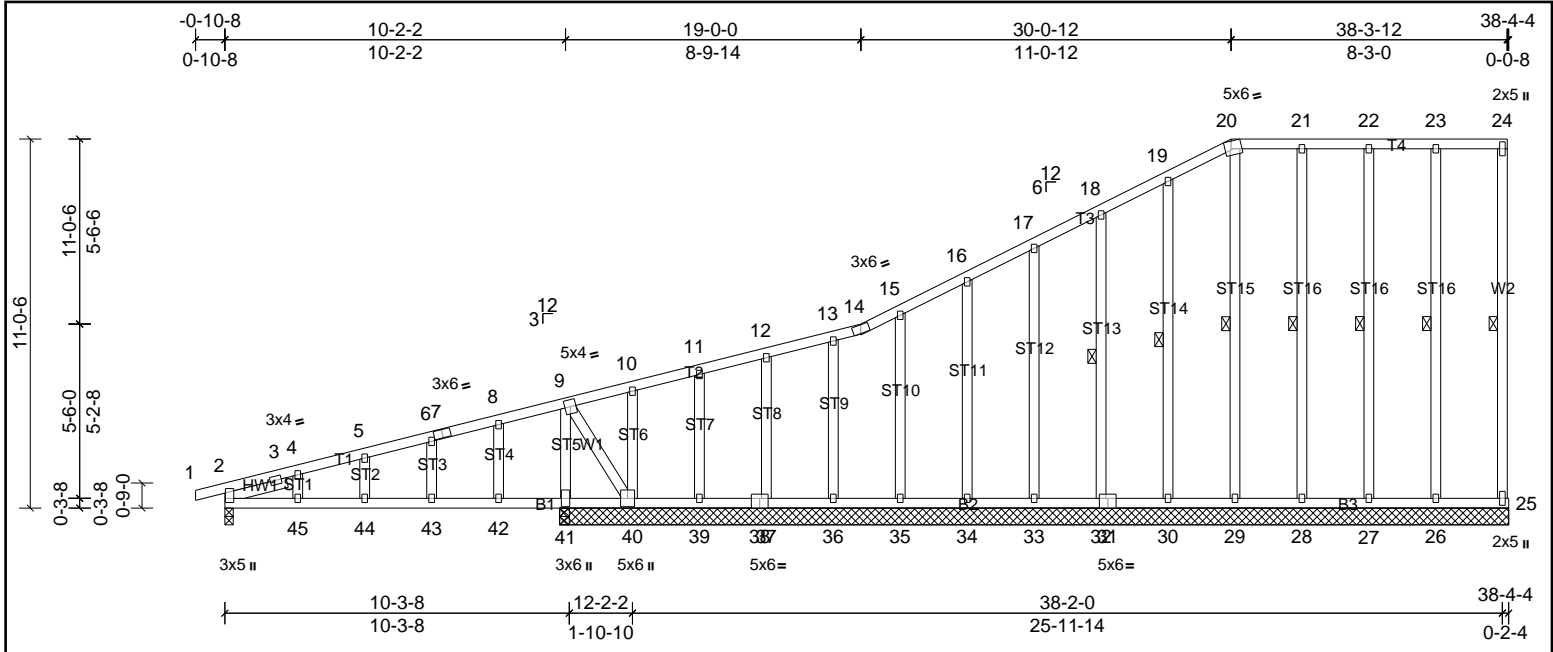


Plate Offsets (X, Y): [2:0-3-6,0-0-3], [20:0-2-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.36	43-44	>343	240	MT20	244/190
TCDL	14.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.47	43-44	>260	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 297 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 20-24.
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-14 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 -- 1-11-0	

REACTIONS
 All bearings 28-4-4. except 2=0-3-0
 (lb) - Max Horiz 2=423 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37 except 2=-278 (LC 6), 39=-114 (LC 6), 40=-549 (LC 6), 41=-600 (LC 1)
 Max Grav All reactions 250 (lb) or less at joint(s) 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37 except 2=711 (LC 1), 39=335 (LC 1), 40=980 (LC 1), 41=470 (LC 6)

FORCES
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-437/321, 3-4=-1008/457, 4-5=-1003/465, 5-6=-984/474, 6-7=-969/481, 7-8=-964/485, 8-9=-942/491, 9-10=-304/86, 10-11=-334/127, 11-12=-298/107, 12-13=-276/101, 13-14=-262/88, 14-15=-260/101
 BOT CHORD 2-45=-863/946, 44-45=-863/946, 43-44=-863/946, 42-43=-863/946, 41-42=-863/946, 40-41=-863/946
 WEBS 9-41=-1122/1093, 9-40=-1702/1553

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=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 exposed; porch left 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 2x3 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 36, 35, 37, 34, 33, 32, 30, 29, 28, 27, 26 except (jt=lb) 2=277, 39=113, 40=548, 41=599.
 - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



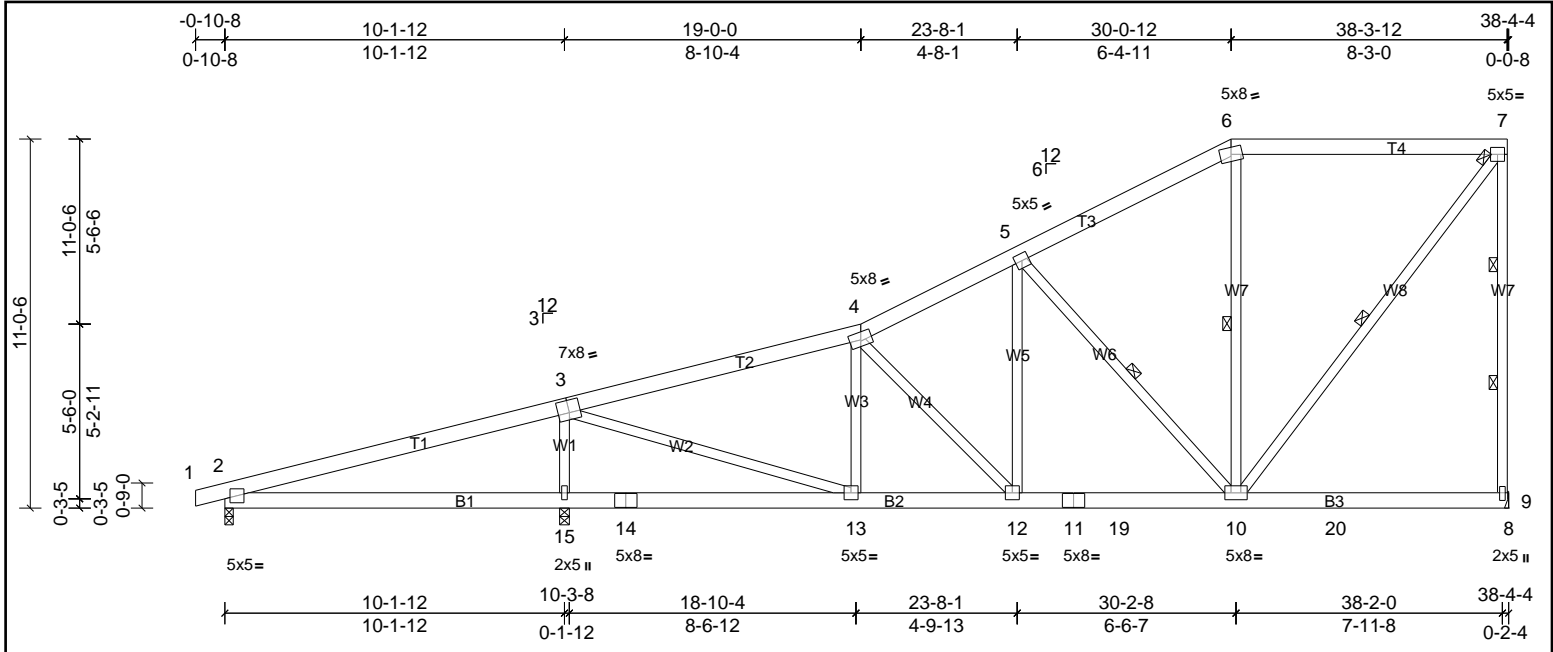
Job 72333198	Truss A1L	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Loading	(psf)	Spacing		2-6-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL		1.15	TC	0.91	Vert(LL)	0.17	15-18	>738	240	MT20	244/190
TCDL	10.0	Lumber DOL		1.15	BC	0.54	Vert(CT)	-0.16	15-18	>785	180		
BCLL	0.0*	Rep Stress Incr		NO	WB	0.57	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014		Matrix-MSH							Weight: 292 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	2-0-0 oc purlins (4-5-7 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-8-2 oc bracing.
WEBS	2x4 SP No.3 *Except* W8:2x4 SP No.2	WEBS	1 Row at midpt 5-10, 6-10, 7-10
		WEBS	2 Rows at 1/3 pts 7-9
REACTIONS			
(lb/size)	2=551/0-3-0, (min. 0-1-8), 9=1397/ Mechanical, (min. 0-1-8), 15=1940/0-3-8, (min. 0-2-5)		
Max Horiz	2=529 (LC 10)		
Max Uplift	2=255 (LC 6), 9=206 (LC 10), 15=366 (LC 10)		
Max Grav	2=551 (LC 1), 9=1452 (LC 2), 15=1940 (LC 1)		
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-364/108, 3-4=-1814/252, 4-5=-1575/293, 5-6=-981/213, 6-7=-780/256, 7-9=-1305/472		
BOT CHORD	2-15=-564/303, 14-15=-580/354, 13-14=-580/354, 12-13=-593/1674, 11-12=-500/1348, 11-19=-500/1348, 10-19=-500/1348		
WEBS	3-13=-119/1381, 4-13=-312/181, 4-12=-479/136, 5-12=-64/513, 5-10=-852/363, 7-10=-423/1283, 3-15=-1604/518		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=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 exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 9, 366 lb uplift at joint 15 and 255 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/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



Job 72333198	Truss A2	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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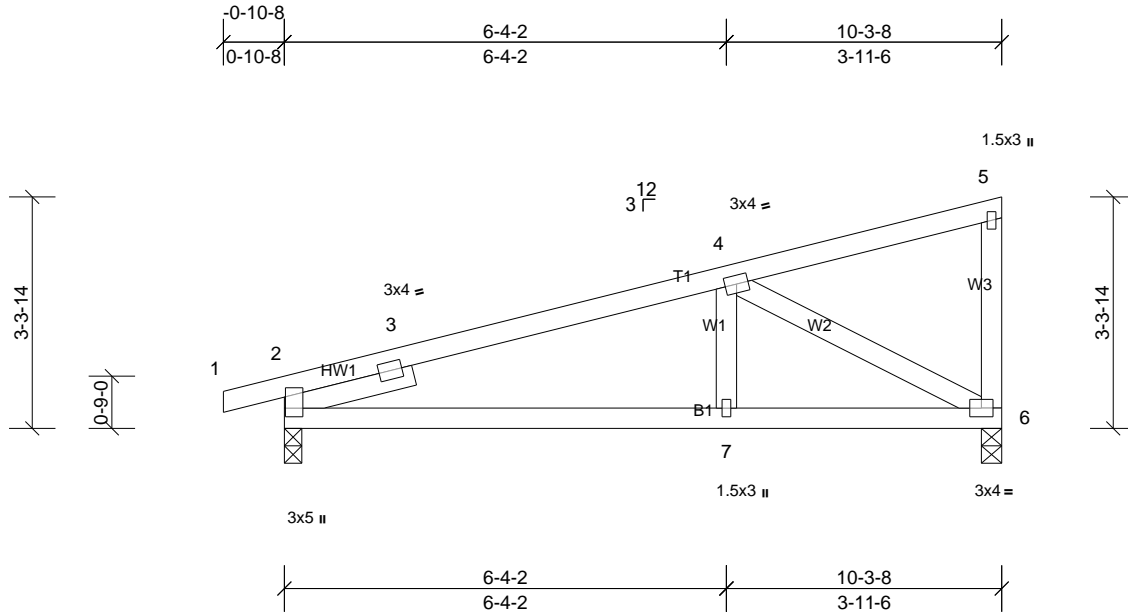


Plate Offsets (X, Y): [2:0-3-6,0-0-3]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.31	Vert(LL)	0.07	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.06	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 48 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-11-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-15 oc bracing.

REACTIONS
(lb/size) 2=461/0-3-0, (min. 0-1-8), 6=404/0-3-8, (min. 0-1-8)
Max Horiz 2=125 (LC 9)
Max Uplift 2=210 (LC 6), 6=187 (LC 6)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-316/317, 3-4=-588/609
BOT CHORD 2-7=-557/571, 6-7=-557/571
WEBS 4-6=-640/690

- NOTES**
- 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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 210 lb uplift at joint 2 and 187 lb uplift at joint 6.
 - 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.



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Job 72333198	Truss B1	Truss Type Truss	Qty 8	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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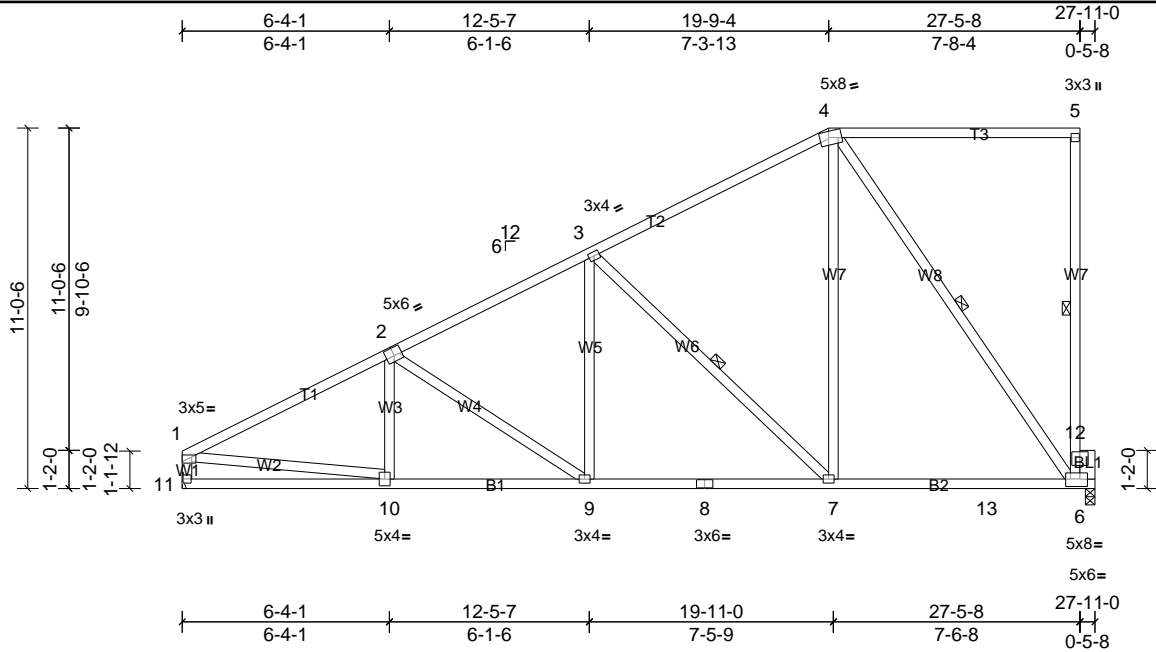


Plate Offsets (X, Y): [1:Edge,0-2-4], [2:0-3-0,0-3-0], [4:0-3-4,0-2-4], [6:0-1-12,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.13	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.22	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 189 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-7-9 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt
OTHERS 2x6 SP No.2	

REACTIONS (lb/size) 6=1084/0-3-8, (min. 0-1-8), 11=1092/ Mechanical, (min. 0-1-8)
 Max Horiz 11=384 (LC 10)
 Max Uplift 6=191 (LC 10), 11=120 (LC 10)
 Max Grav 6=1117 (LC 2), 11=1092 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1600/265, 2-3=-1296/247, 3-4=-763/164, 1-11=-1030/217
 BOT CHORD 10-11=-506/293, 9-10=-597/1361, 8-9=-440/1095, 7-8=-440/1095, 7-13=-208/616, 6-13=-208/616
 WEBS 2-9=-326/188, 3-9=-27/400, 3-7=-701/321, 4-7=-119/774, 1-10=-90/1189, 4-6=-1031/352

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 6 and 120 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job 72333198	Truss B1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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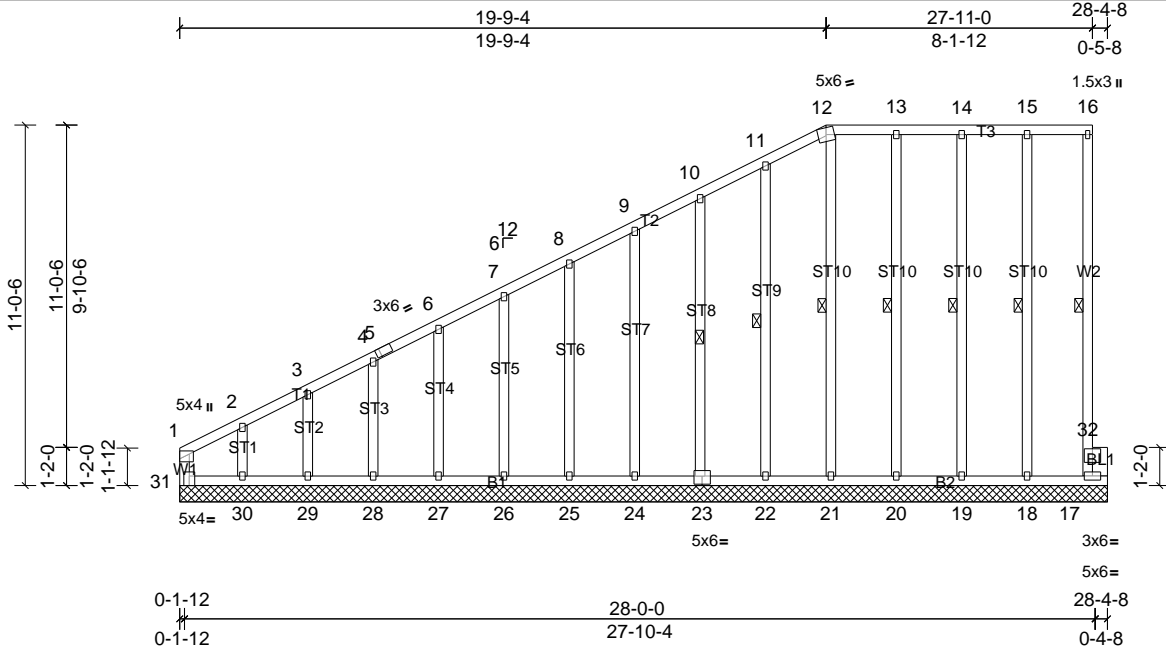


Plate Offsets (X, Y): [5:0-1-9,Edge], [23:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	n/a	-	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							
										Weight: 242 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-16.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
OTHERS	2x4 SP No.3 *Except* BL1:2x6 SP No.2		16-17, 15-18, 14-19, 13-20, 12-21, 11-22, 10-23

REACTIONS	
All bearings	28-4-8.
(lb) - Max Horiz	31=384 (LC 10)
Max Uplift	All uplift 100 (lb) or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 except 30=358 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 except 31=427 (LC 10)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	1-31=-322/97, 1-2=-533/193, 2-3=-410/148, 3-4=-376/136, 4-5=-322/101, 5-6=-321/118, 6-7=-273/101
WEBS	2-30=-141/254

- NOTES**
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=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 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x3 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.
 - Bearing at joint(s) 31 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 100 lb uplift at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 except (jt=lb) 30=357.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



Job 72333198	Truss B2L	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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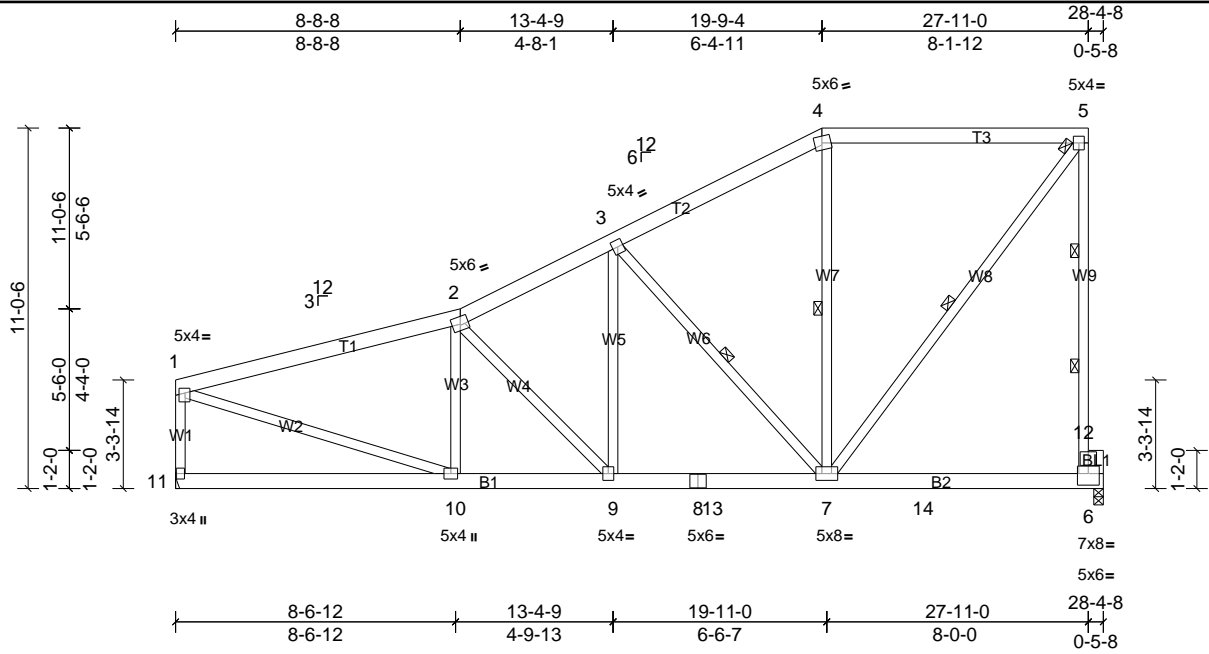


Plate Offsets (X, Y): [1:0-2-4,0-3-4], [2:0-3-0,0-2-12], [4:0-2-12,0-2-8], [6:0-4-0,0-4-4]

Loading	(psf)	Spacing	2-6-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.15	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 243 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (3-7-5 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-2 oc bracing: 9-10.
WEBS 2x4 SP No.3 *Except* W9,W8:2x4 SP No.2	WEBS 1 Row at midpt 3-7, 4-7, 5-7
OTHERS 2x6 SP No.2	WEBS 2 Rows at 1/3 pts 5-6
REACTIONS	
(lb/size) 6=1378/0-3-8, (min. 0-1-11), 11=1389/ Mechanical, (min. 0-1-8)	
Max Horiz 11=337 (LC 10)	
Max Uplift 6=222 (LC 10), 11=167 (LC 10)	
Max Grav 6=1439 (LC 2), 11=1389 (LC 1)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-1809/322, 2-3=-1571/326, 3-4=-982/226, 4-5=-782/269, 6-12=-1293/483, 5-12=-1306/488, 1-11=-1284/296	
BOT CHORD 10-11=-513/261, 9-10=-672/1691, 8-9=-523/1335, 8-13=-523/1335, 7-13=-523/1335	
WEBS 2-10=-366/176, 2-9=-524/218, 3-9=-99/508, 3-7=-829/379, 1-10=-162/1686, 5-7=-442/1279	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 11 and 222 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



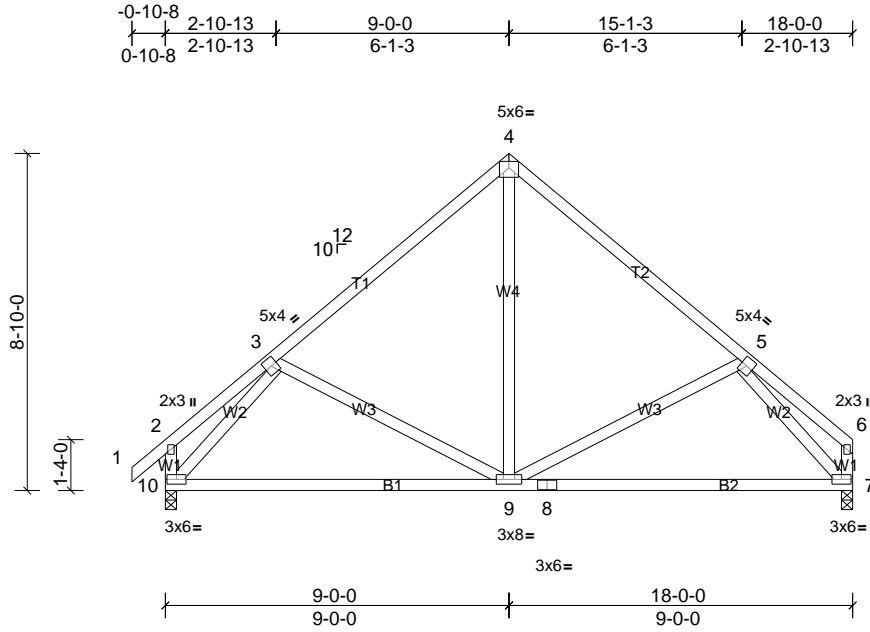
Job 72333198	Truss C1	Truss Type Truss	Qty 4	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.25	9-10	>860	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 111 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS	(lb/size)	7=707/0-3-8, (min. 0-1-8), 10=771/0-3-8, (min. 0-1-8)
Max Horiz	10=248 (LC 7)	
Max Uplift	7=73 (LC 11), 10=95 (LC 10)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-646/197, 4-5=-646/197
BOT CHORD	9-10=-185/599, 8-9=-92/507, 7-8=-92/507
WEBS	4-9=-69/412, 3-10=-739/208, 5-7=-726/234

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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.
 - * 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 95 lb uplift at joint 10 and 73 lb uplift at joint 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.



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



Job 72333198	Truss C1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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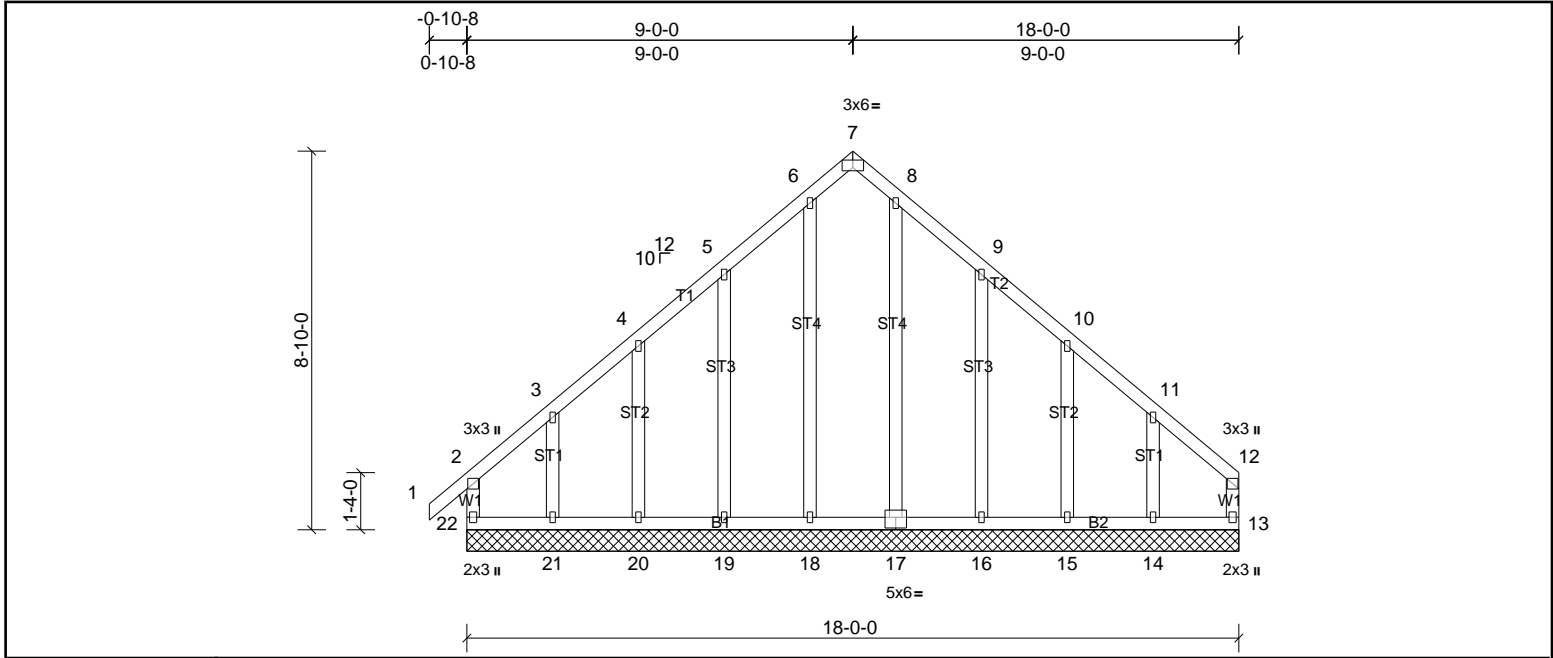


Plate Offsets (X, Y): [7:0-3-0,Edge], [17:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.17	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 126 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS All bearings 18-0-0.
 (lb) - Max Horiz 22=248 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 13, 15, 20 except 14=190 (LC 11), 16=139 (LC 11), 19=137 (LC 10), 21=205 (LC 10), 22=125 (LC 6)
 Max Grav All reactions 250 (lb) or less at joint(s) 13, 15, 16, 17, 18, 19, 20, 21, 22 except 14=255 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-225/265, 8-9=-225/265

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 20, 15 except (jt=lb) 22=124, 19=137, 21=205, 16=138, 14=190.
 - 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 72333198	Truss C2L	Truss Type Truss	Qty 1	Ply 2	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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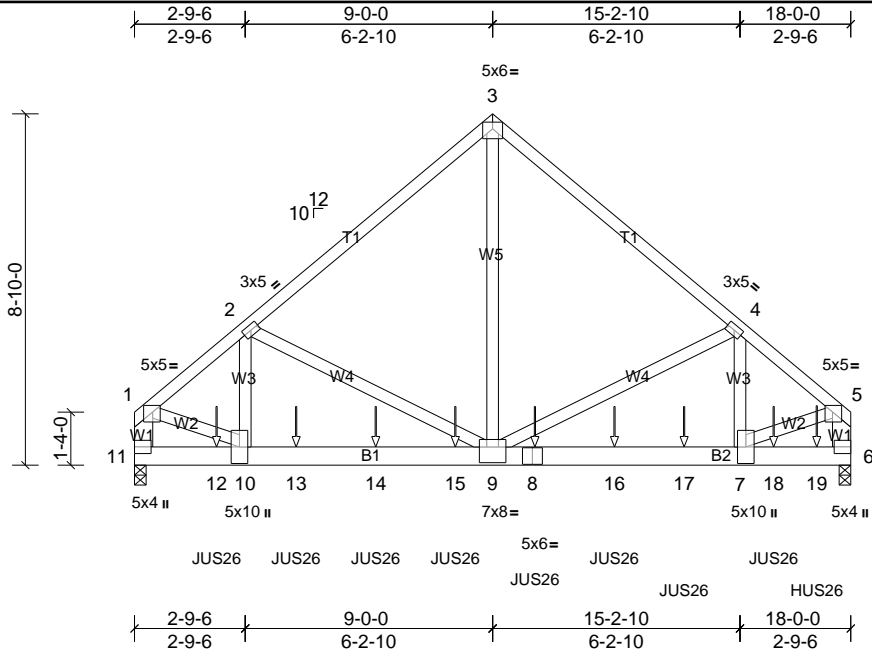


Plate Offsets (X, Y): [1:0-2-12,0-3-0], [5:0-2-12,0-3-0], [6:Edge,0-5-8], [9:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.08	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.16	7-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 258 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W1:2x6 SP No.2, W5:2x4 SP No.2	
REACTIONS (lb/size) 6=6324/0-3-8, (req. 0-3-12), 11=5029/0-3-8, (min. 0-2-15) Max Horiz 11=-231 (LC 4) Max Uplift 6=-775 (LC 9), 11=-607 (LC 8)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-5267/653, 2-3=-4205/609, 3-4=-4205/609, 4-5=-5543/688, 1-11=-5071/614, 5-6=-5261/639 BOT CHORD 11-12=-215/288, 10-12=-215/288, 10-13=-591/4030, 13-14=-591/4030, 14-15=-591/4030, 9-15=-591/4030, 8-9=-528/4241, 8-16=-528/4241, 16-17=-528/4241, 7-17=-528/4241, 7-18=-54/333, 18-19=-54/333, 6-19=-54/333 WEBS 1-10=-537/4228, 5-7=-540/4261, 2-10=-118/1002, 2-9=-1040/304, 3-9=-604/4857, 4-9=-1278/336, 4-7=-154/1290	

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - 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; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 607 lb uplift at joint 11 and 775 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.
 - Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-3-0 oc max. starting at 2-0-12 from the left end to 16-0-12 to connect truss(es) to back face of bottom chord.
 - Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 17-1-12 from the left end to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft)	
Vert: 1-3=-60, 3-5=-60, 6-11=-20	
Concentrated Loads (lb)	
Vert: 8=-1072, 12=-1072, 13=-1072, 14=-1072, 15=-1072, 16=-1072, 17=-1072, 18=-1072, 19=-1370	



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Job 72333198	Truss D1	Truss Type Truss	Qty 8	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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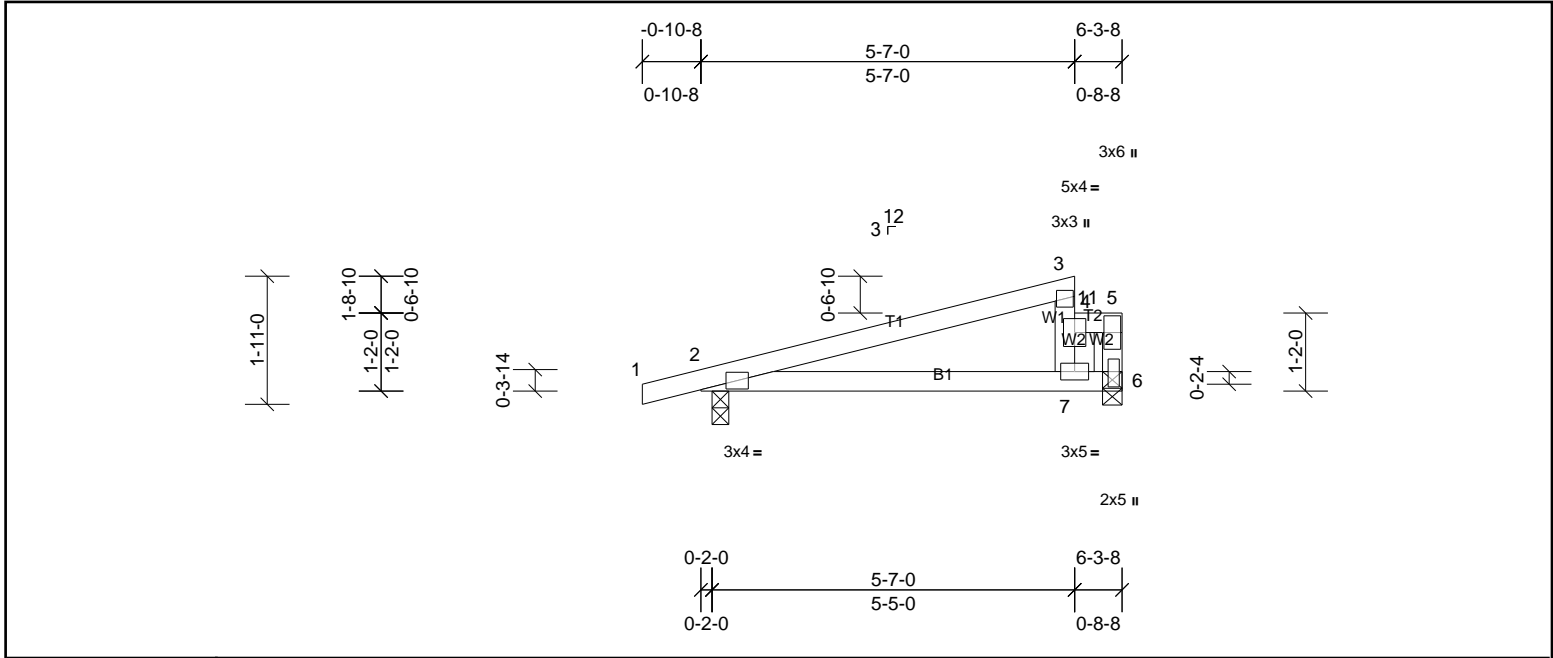


Plate Offsets (X, Y): [6:0-2-4,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.06	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.06	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 24 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7, 4-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-5-7 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS

(lb/size)	2=333/0-3-0, (min. 0-1-8), 6=712/0-3-8, (min. 0-1-8)
Max Horiz	2=83 (LC 10)
Max Uplift	2=157 (LC 6), 6=309 (LC 6)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-394/393, 5-6=-475/551
BOT CHORD	2-7=-435/363

- 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) exterior zone and C-C Exterior (2) -0-10-8 to 6-1-12 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 6 and 157 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/TPI 1.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 569 lb down and 574 lb up at 5-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)

Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-5=-60, 6-8=-20
Concentrated Loads (lb)
Vert: 11=-500



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



Job 72333198	Truss D2	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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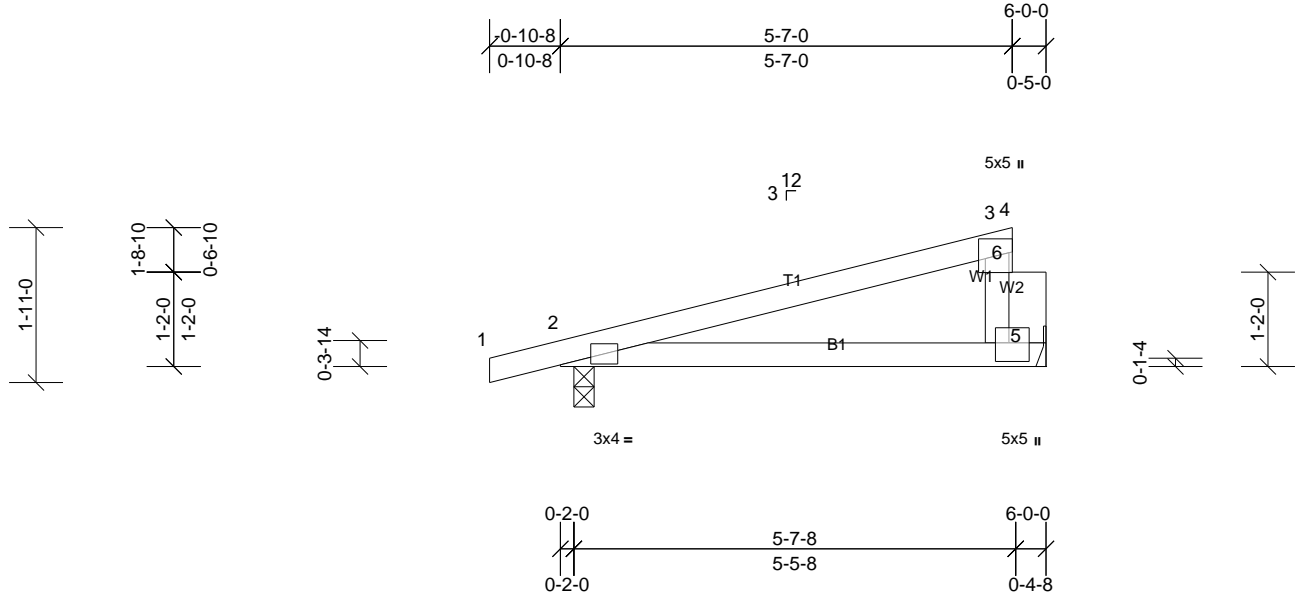


Plate Offsets (X, Y): [3:0-2-8,0-2-4], [5:0-2-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.07	5-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.06	5-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	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	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W2:2x6 SP No.2		

REACTIONS

(lb/size)	2=302/0-3-0, (min. 0-1-8), 5=691/ Mechanical, (min. 0-1-8)
Max Horiz	2=68 (LC 6)
Max Uplift	2=142 (LC 6), 5=316 (LC 6)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-263/242, 5-6=-649/697, 3-6=-611/653
BOT CHORD	2-5=-273/240

- 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 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 316 lb uplift at joint 5 and 142 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/TPI 1.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 563 lb up at 5-7-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)

Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-20, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-500



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



Job 72333198	Truss E1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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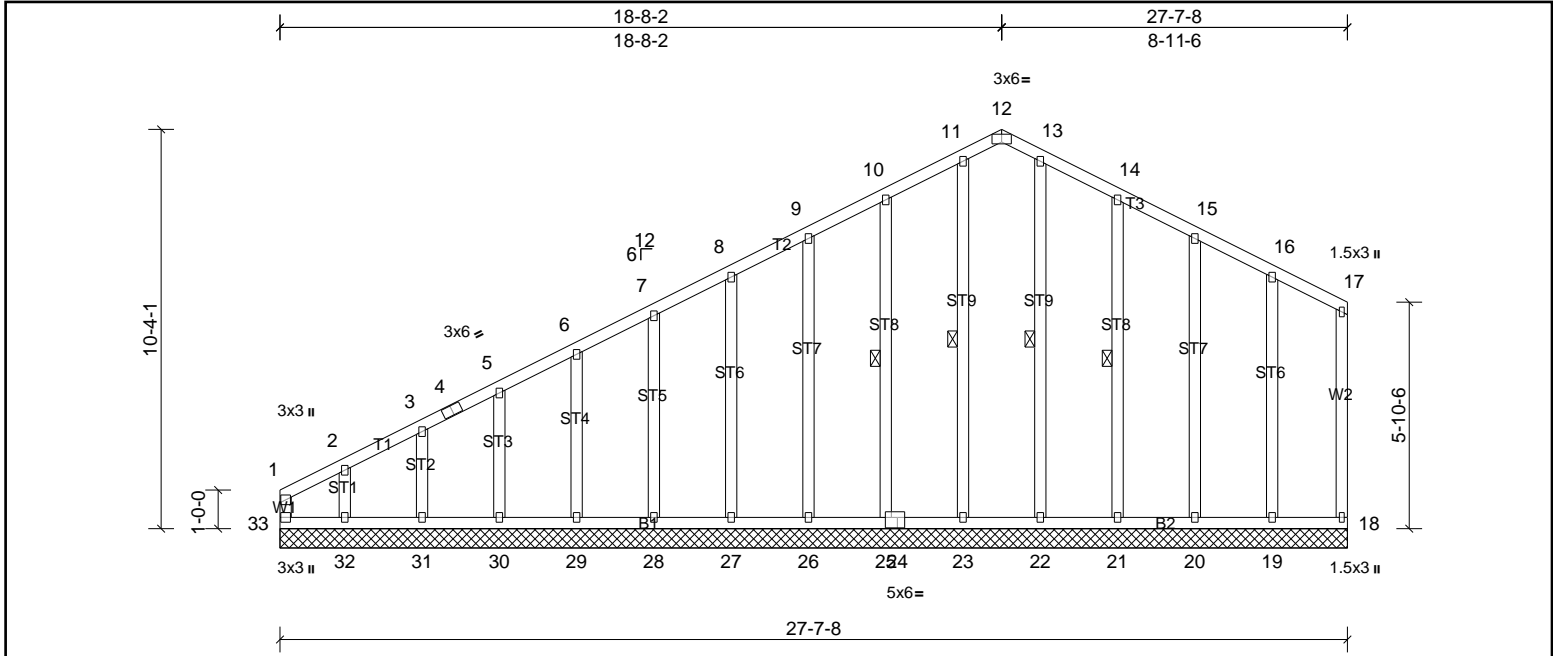


Plate Offsets (X, Y): [12:0-3-0,Edge], [24:0-2-4,0-0-4]

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	0.28	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	0.13	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 213 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
OTHERS	2x4 SP No.3		11-23, 13-22, 10-25, 14-21

REACTIONS All bearings 27-7-8.
 (lb) - Max Horiz 33=263 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 25, 26, 27, 28, 29, 30, 31, 33 except 32=243 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32 except 33=284 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-328/98

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 18, 25, 26, 27, 28, 29, 30, 31, 21, 20, 19 except (jt=lb) 32=243.
 - 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.



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



Job 72333198	Truss E2	Truss Type Truss	Qty 7	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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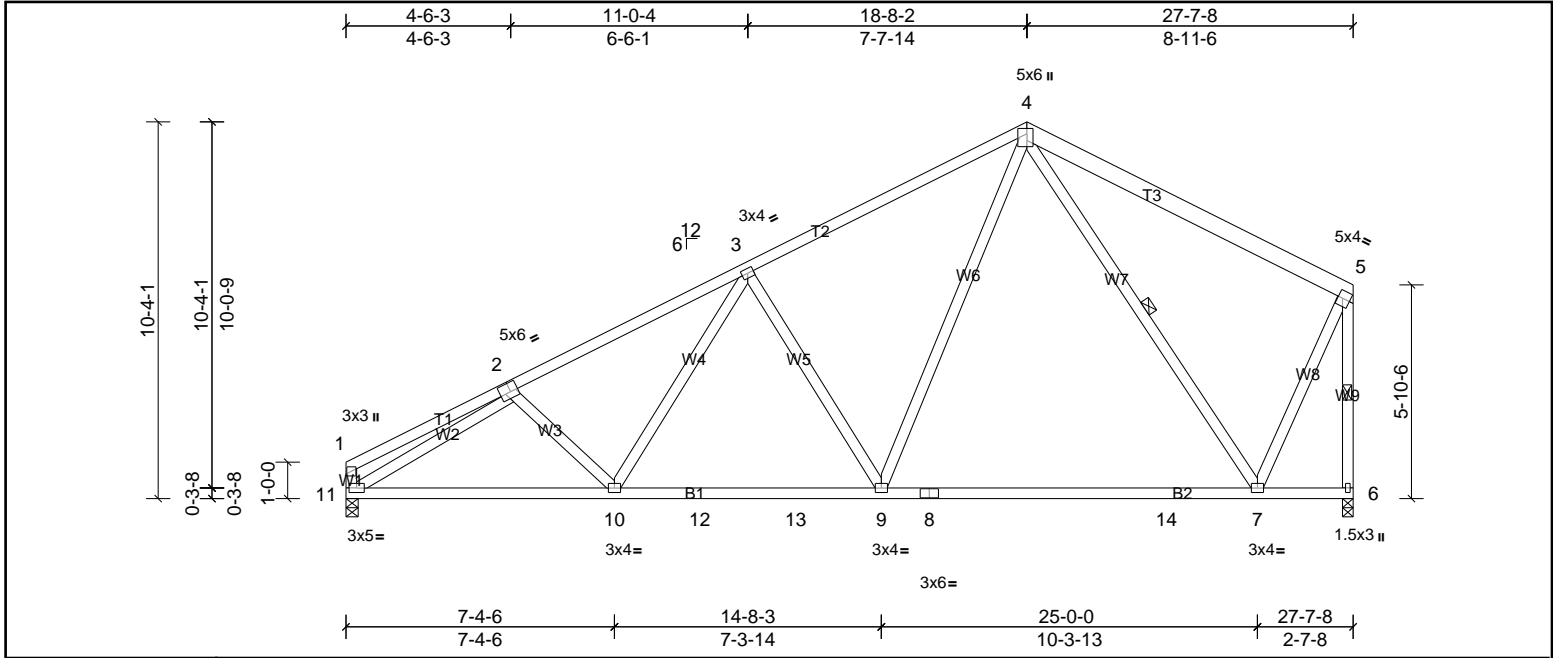


Plate Offsets (X, Y): [2:0-2-8,0-3-0], [4:0-1-12,0-2-0], [5:0-1-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.35	7-9	>932	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.57	7-9	>573	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 180 lb	FT = 20%

LUMBER	BRACING
TOP CHORD: 2x4 SP No.2 *Except* T3:2x6 SP No.2	TOP CHORD: Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals.
BOT CHORD: 2x4 SP No.1	BOT CHORD: Rigid ceiling directly applied or 8-5-13 oc bracing.
WEBS: 2x4 SP No.3	WEBS: 1 Row at midpt

REACTIONS	(lb/size)
	6=1093/0-3-8, (min. 0-1-8), 11=1093/0-4-0, (min. 0-1-8)
	Max Horiz 11=260 (LC 10)
	Max Uplift 6=-139 (LC 10), 11=-155 (LC 10)
	Max Grav 6=1124 (LC 2), 11=1093 (LC 1)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1553/430, 3-4=-1195/413, 4-5=-506/183, 5-6=-1233/273
BOT CHORD	10-11=-542/1385, 10-12=-398/1224, 12-13=-398/1224, 9-13=-398/1224, 8-9=-165/686, 8-14=-165/686, 7-14=-165/686
WEBS	5-7=-71/907, 3-10=-41/289, 3-9=-559/324, 4-9=-183/826, 4-7=-613/225, 2-11=-1467/371

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 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 139 lb uplift at joint 6 and 155 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.



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



Job 72333198	Truss E2H	Truss Type Truss	Qty 9	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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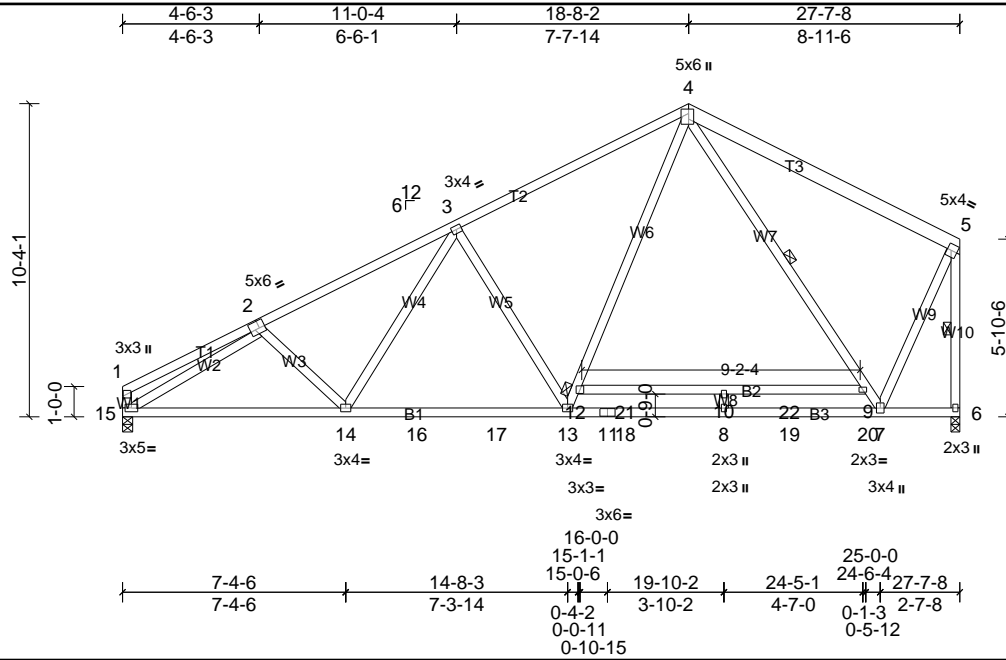


Plate Offsets (X, Y): [2:0-2-4,0-3-0], [4:0-1-12,0-2-0], [5:0-1-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.44	10-12	>739	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.75	10-12	>434	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 194 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T3:2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1 *Except* B2:2x4 SP No.2, B3:2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
WEBS	2x4 SP No.3 *Except* W10:2x4 SP No.2	WEBS	6-0-0 oc bracing: 9-12
REACTIONS	(lb/size) 6=1232/0-3-8, (min. 0-1-10), 15=1148/0-4-0, (min. 0-1-8)		1 Row at midpt 5-6, 4-7
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-1719/371, 3-4=-1392/344, 4-5=-623/142, 5-6=-1519/170		
BOT CHORD	14-15=-495/1499, 14-16=-339/1390, 16-17=-339/1390, 13-17=-339/1390, 11-13=-101/842, 11-18=-101/842, 8-18=-101/842, 8-19=-101/842, 19-20=-101/842, 7-20=-101/842		
WEBS	5-7=0/1162, 3-13=-548/331, 12-13=-170/859, 4-12=-124/994, 4-9=-622/219, 7-9=-698/172, 2-15=-1600/320		

- 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) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 56 lb uplift at joint 6 and 122 lb uplift at joint 15.
 - 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 72333198	Truss E3H	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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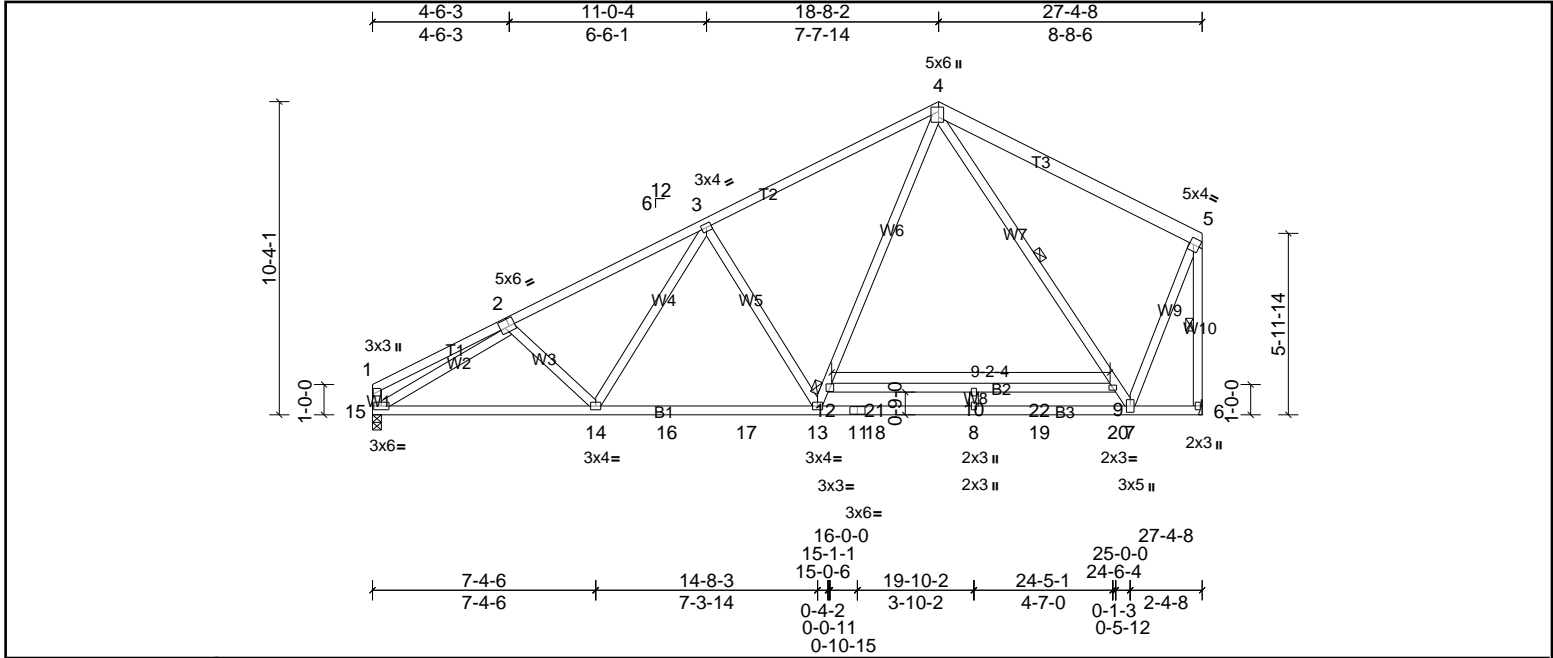


Plate Offsets (X, Y): [2:0-2-4,0-3-0], [4:0-1-12,0-2-0], [5:0-1-8,0-2-8]

Loading	(psf)	Spacing	2-1-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.45	10-12	>721	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.77	10-12	>424	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 194 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1 *Except* T3:2x6 SP No.2, T1:2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (4-3-13 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	2x4 SP SS *Except* B2:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-3-0 oc bracing. Except:
WEBS	2x4 SP No.3	WEBS	6-0-0 oc bracing: 9-12
REACTIONS	(lb/size) 6=1274/ Mechanical, (min. 0-1-8), 15=1184/0-3-8, (min. 0-1-8) Max Horiz 15=274 (LC 10) Max Uplift 6=60 (LC 10), 15=126 (LC 30) Max Grav 6=1406 (LC 2), 15=1191 (LC 2)		1 Row at midpt 5-6, 4-7
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-263/81, 2-3=-1765/380, 3-4=-1427/350, 4-5=-599/140, 5-6=-1601/167 BOT CHORD 14-15=-516/1540, 14-16=-353/1427, 16-17=-353/1427, 13-17=-353/1427, 11-13=-104/853, 11-18=-104/853, 8-18=-104/853, 8-19=-104/853, 19-20=-104/853, 7-20=-104/853 WEBS 2-15=-1638/326, 5-7=0/1239, 3-14=-58/256, 3-13=-571/346, 12-13=-176/901, 4-12=-129/1040, 4-9=-678/231, 7-9=-761/183		

- 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) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 126 lb uplift at joint 15 and 60 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 72333198	Truss E4H	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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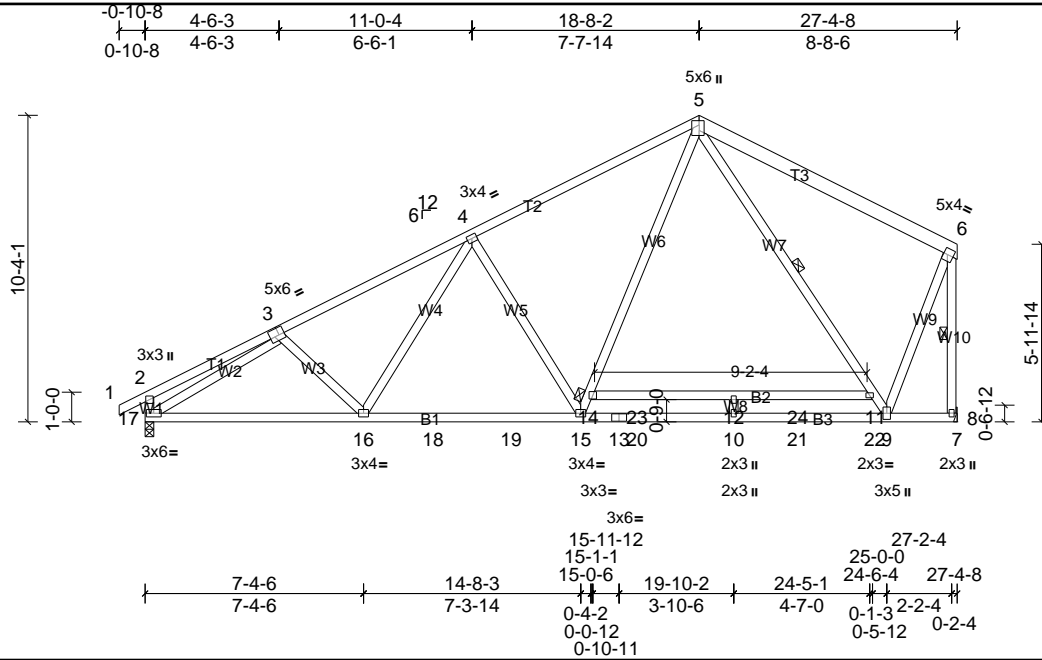


Plate Offsets (X, Y): [3:0-2-4,0-3-0], [5:0-1-12,0-2-0], [6:0-1-8,0-2-8]

Loading	(psf)	Spacing	2-1-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.45	12-14	>720	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.77	12-14	>424	180		
BCLL	0.0*	Rep Stress Incr		WB	0.85	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 195 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1 *Except* T3:2x6 SP No.2, T1:2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (4-4-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	2x4 SP SS *Except* B2:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied of 9-3-11 oc bracing. Except:
WEBS	2x4 SP No.3	WEBS	6-0-0 oc bracing: 11-14
REACTIONS	(lb/size) 8=1276/ Mechanical, (min. 0-1-8), 17=1247/0-3-8, (min. 0-1-8) Max Horiz 17=293 (LC 10) Max Uplift 8=58 (LC 10), 17=150 (LC 10) Max Grav 8=1408 (LC 2), 17=1247 (LC 1)		1 Row at midt 6-8, 5-9
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-291/102, 3-4=-1754/376, 4-5=-1421/349, 5-6=-590/139, 2-17=-300/167, 6-8=-1604/163		
BOT CHORD	16-17=-510/1526, 16-18=-352/1421, 18-19=-352/1421, 15-19=-352/1421, 13-15=-104/848, 13-20=-104/848, 10-20=-104/848, 10-21=-104/848, 21-22=-104/848, 9-22=-104/848		
WEBS	3-17=-1594/298, 6-9=0/1244, 4-16=-55/253, 4-15=-569/346, 14-15=-176/900, 5-14=-128/1039, 5-11=-681/231, 9-11=-765/183		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 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 150 lb uplift at joint 17 and 58 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 72333198	Truss E5	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.86 S 8.62 Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Sep 13 12:42:49

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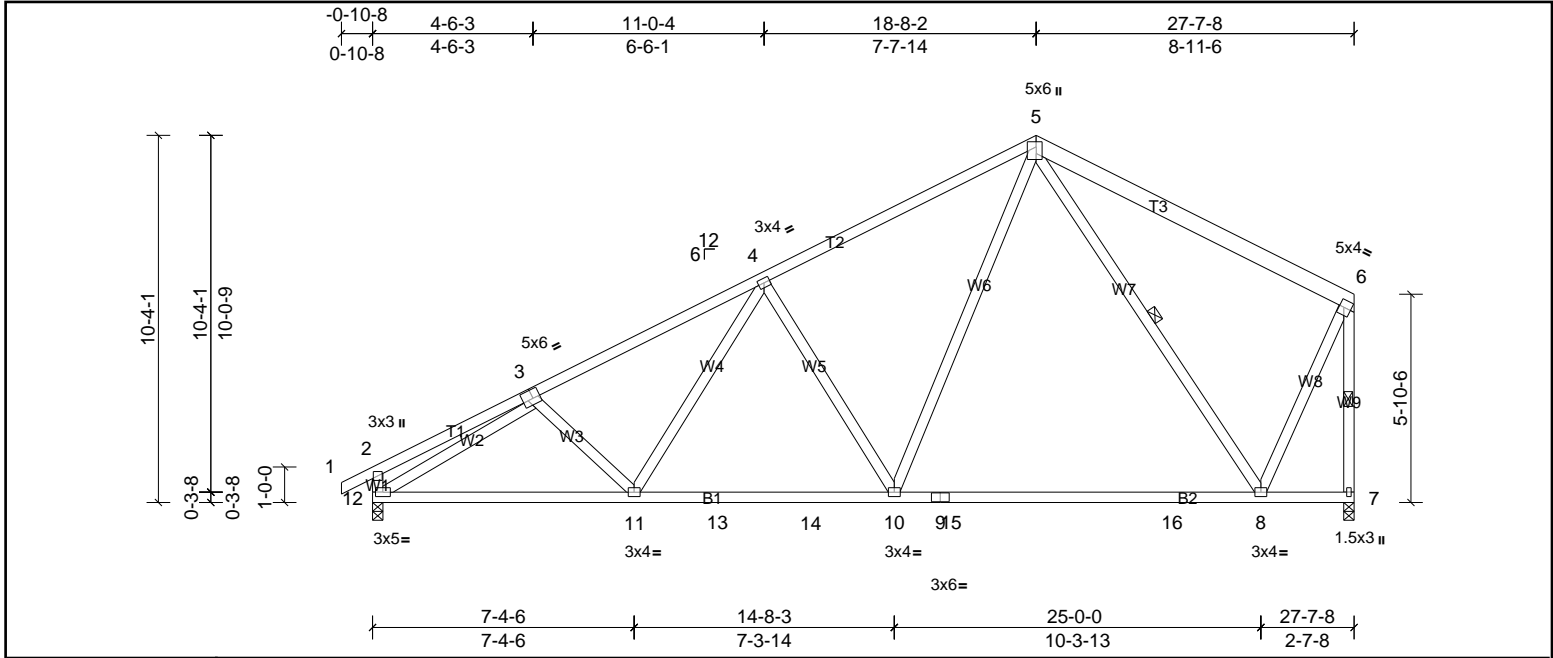


Plate Offsets (X, Y): [3:0-2-8,0-3-0], [5:0-1-12,0-2-0], [6:0-1-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.35	8-10	>929	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.58	8-10	>566	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 181 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T3:2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt

REACTIONS	(lb/size)
	7=1092/0-3-8, (min. 0-1-8), 12=1156/0-3-8, (min. 0-1-8)
	Max Horiz 12=278 (LC 10)
	Max Uplift 7=139 (LC 10), 12=178 (LC 10)
	Max Grav 7=1119 (LC 2), 12=1156 (LC 1)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-263/102, 3-4=-1542/426, 4-5=-1184/413, 5-6=-504/182, 2-12=-280/162, 6-7=-1228/272
BOT CHORD	11-12=-536/1372, 11-13=-397/1214, 13-14=-397/1214, 10-14=-397/1214, 9-10=-165/681, 9-15=-165/681, 15-16=-165/681, 8-16=-165/681
WEBS	6-8=-70/903, 4-11=-38/289, 4-10=-558/324, 5-10=-183/813, 5-8=-611/225, 3-12=-1434/345

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 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 139 lb uplift at joint 7 and 178 lb uplift at joint 12.
 - 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.



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



Job 72333198	Truss E6G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.86 S 8.62 Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Sep 13 12:42:50

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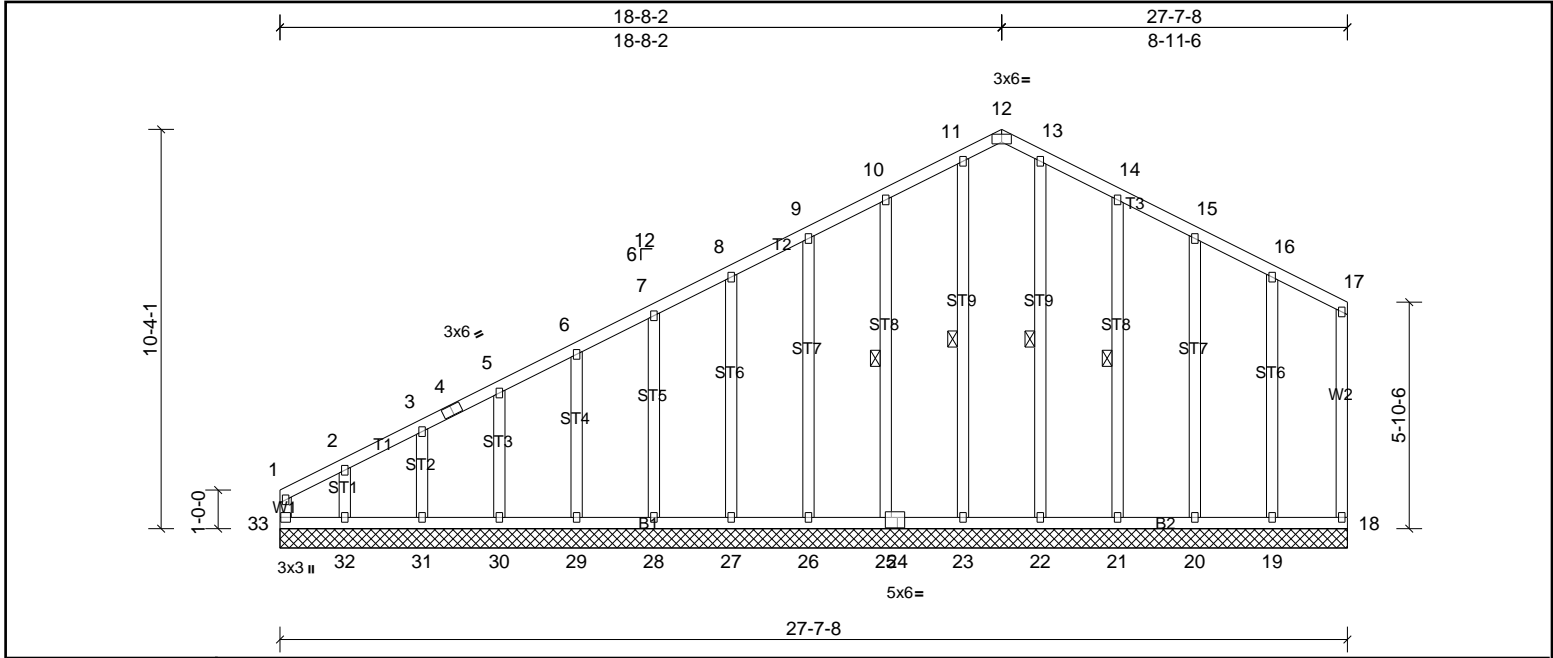


Plate Offsets (X, Y): [12:0-3-0,Edge], [24:0-2-4,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 213 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt
OTHERS 2x4 SP No.3	

REACTIONS All bearings 27-7-8.
 (lb) - Max Horiz 33=285 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 23, 25, 26, 27, 28, 29, 30, 31, 33 except 32=204 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-271/110, 10-11=-169/292, 11-12=-145/259, 12-13=-145/259, 13-14=-169/292

- 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) 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 18, 23, 25, 26, 27, 28, 29, 30, 31, 21, 20, 19 except (it=lb) 32=204.
 - 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.



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



Job 72333198	Truss G1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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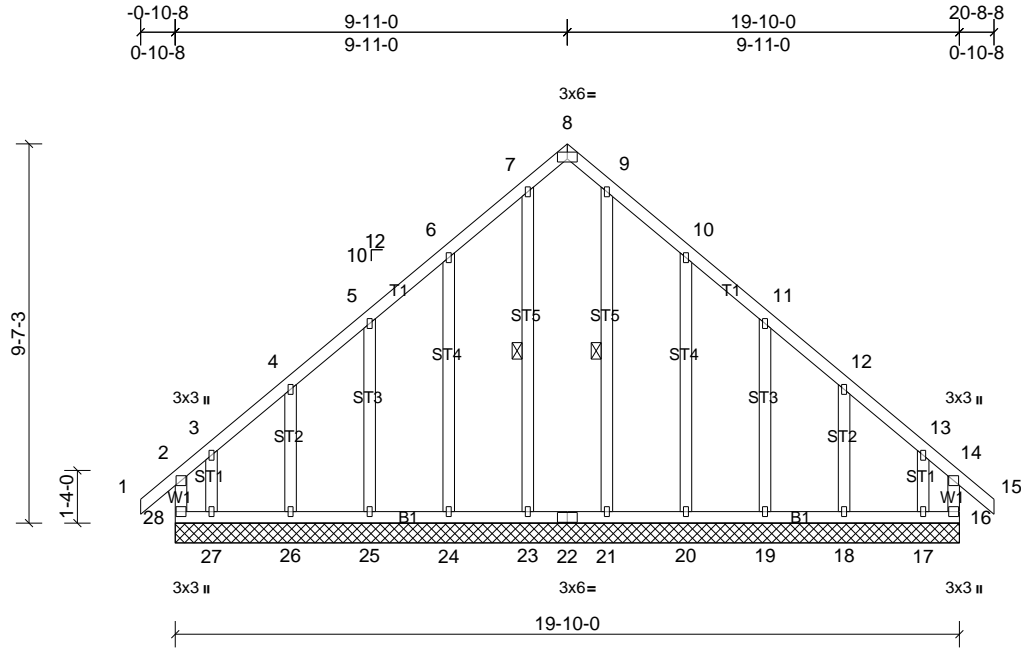


Plate Offsets (X, Y): [8:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	16	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							
										Weight: 147 lb	FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-23, 9-21

REACTIONS
 All bearings 19-10-0.
 (lb) - Max Horiz 28--275 (LC 8)
 Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 25, 26 except 16--220 (LC 9), 17--312 (LC 11), 20--131 (LC 11), 24--129 (LC 10), 27--325 (LC 10), 28--261 (LC 8)
 Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 23, 24, 25, 26 except 16--318 (LC 11), 17--287 (LC 9), 27--316 (LC 8), 28--355 (LC 7)

FORCES
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3--257/213, 6-7--202/268, 9-10--202/268

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 19, 18 except (jt=lb) 28=261, 16=219, 24=129, 27=325, 20=131, 17=312.
 - 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.



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



Job 72333198	Truss H1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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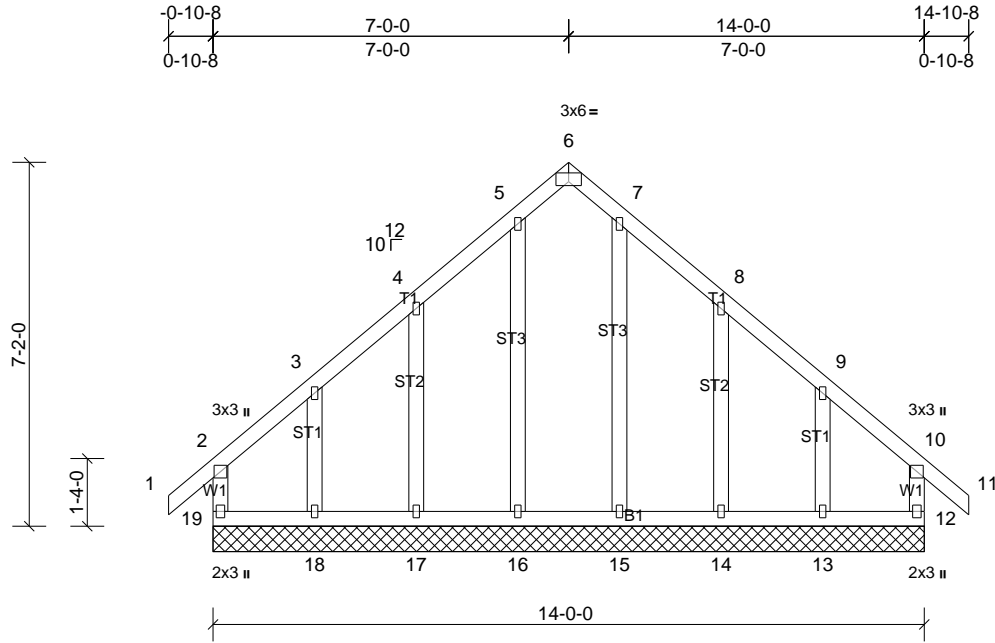


Plate Offsets (X, Y): [6:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 91 lb	FT = 20%

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

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

REACTIONS All bearings 14-0-0.
(lb) - Max Horiz 19=-212 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 19 except 13=-160 (LC 11), 14=-108 (LC 11), 17=-107 (LC 10), 18=-163 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19

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.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12 except (jt=lb) 17=106, 18=163, 14=108, 13=160.
 - 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.



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



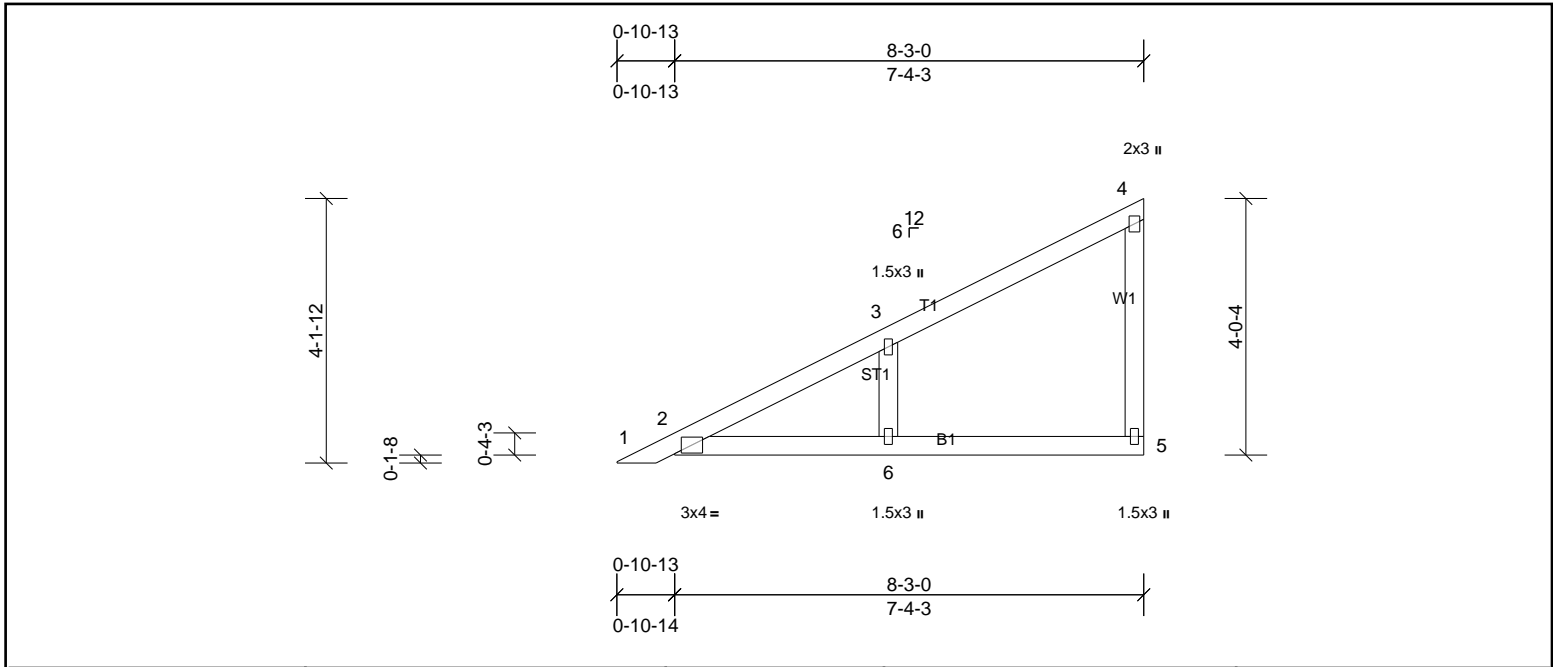
Job 72333198	Truss PB1	Truss Type Truss	Qty 9	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Loading	(psf)	Spacing	2-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 32 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS All bearings 8-3-8.
 (lb) - Max Horiz 1=182 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 2, 5, 7 except 6=128 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 2=271 (LC 1), 6=385 (LC 1), 7=271 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-284/265

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=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.
 - 4) Gable studs spaced at 4-0-0 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) Bearing at joint(s) 1, 2, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 2 except (jt=lb) 6=127.
 - 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.
 - 10) See standard piggyback truss connection detail for connection to base truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



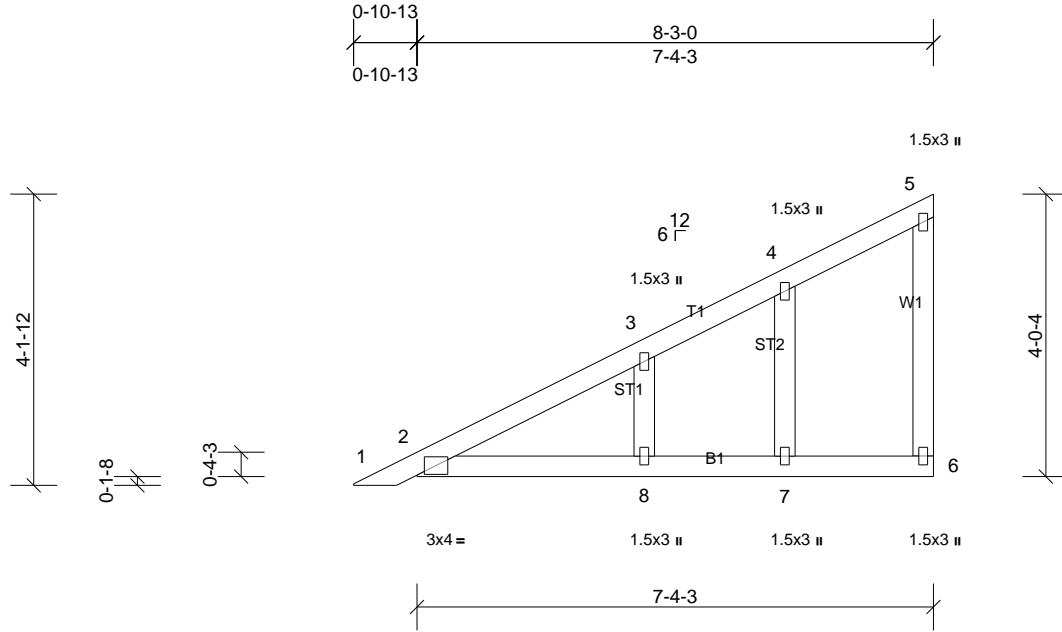
Job 72333198	Truss PB1G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 35 lb	FT = 20%

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

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

REACTIONS All bearings 7-4-3.
(lb) - Max Horiz 2=155 (LC 9), 9=155 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 6, 7, 8
Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 7, 9 except 8=255 (LC 1)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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.
 - 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) 6, 7, 8.
 - 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.
 - 9) See standard piggyback truss connection detail for connection to base truss.



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



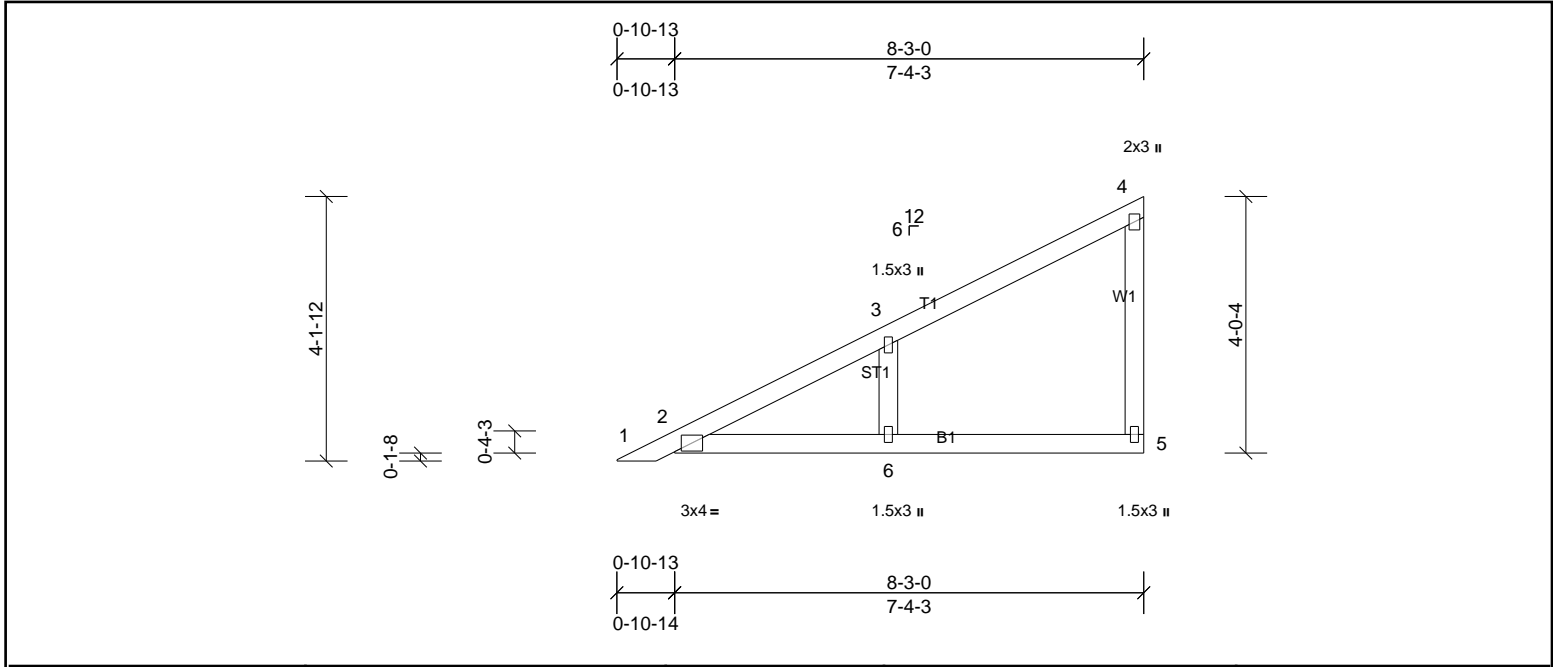
Job 72333198	Truss PB1L	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Loading	(psf)	Spacing	2-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 32 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS All bearings 8-3-8.
 (lb) - Max Horiz 1=182 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 2, 5, 7 except 6=128 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 2=271 (LC 1), 6=385 (LC 1), 7=271 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-284/265

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=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.
 - 4) Gable studs spaced at 4-0-0 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) Bearing at joint(s) 1, 2, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 2 except (jt=lb) 6=127.
 - 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.
 - 10) See standard piggyback truss connection detail for connection to base truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



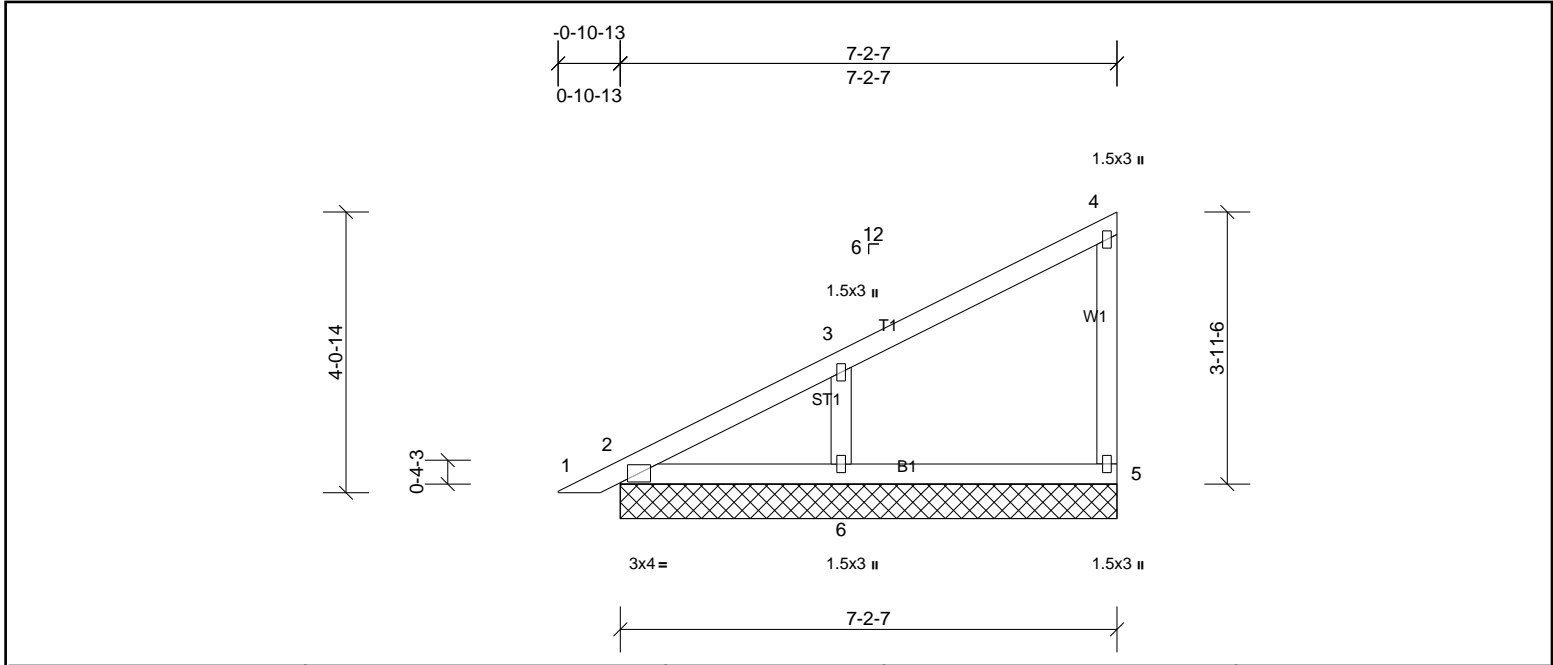
Job 72333198	Truss PB2	Truss Type Truss	Qty 8	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	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	0.07	Horz(CT)	n/a	-	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 31 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS All bearings 7-2-7.
 (lb) - Max Horiz 2=153 (LC 10), 7=153 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 5 except 6=113 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 5, 7 except 6=337 (LC 1)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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 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.
 - 4) Gable studs spaced at 4-0-0 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 except (i=lb) 6=113.
 - 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.
 - 9) See standard piggyback truss connection detail for connection to base truss.



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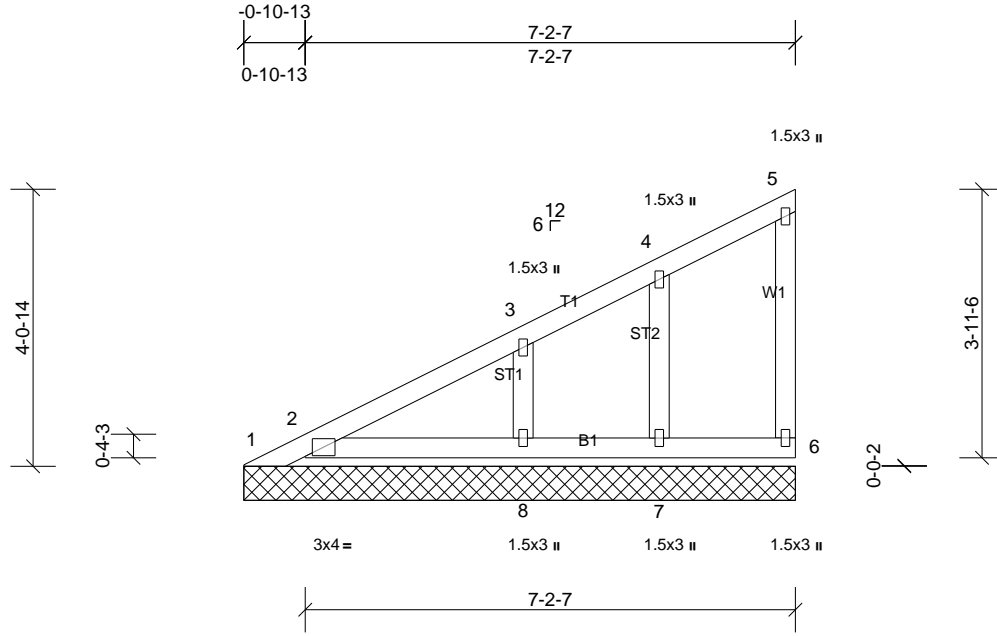
Job 72333198	Truss PB2G	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

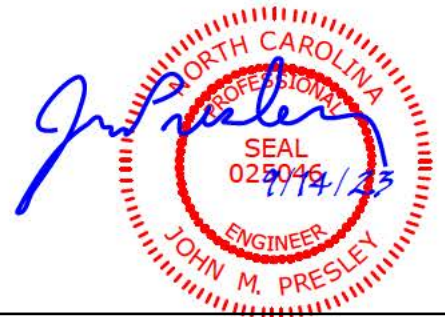
All bearings 8-1-4.
 (lb) - Max Horiz 1=155 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 7, 8, 12
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 2, 6, 7, 12 except 8=304 (LC 1)

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; TC DL=6.0psf; BC DL=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 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 2, 2 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 100 lb uplift at joint(s) 6, 2, 7, 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.
- See standard piggyback truss connection detail for connection to base truss.



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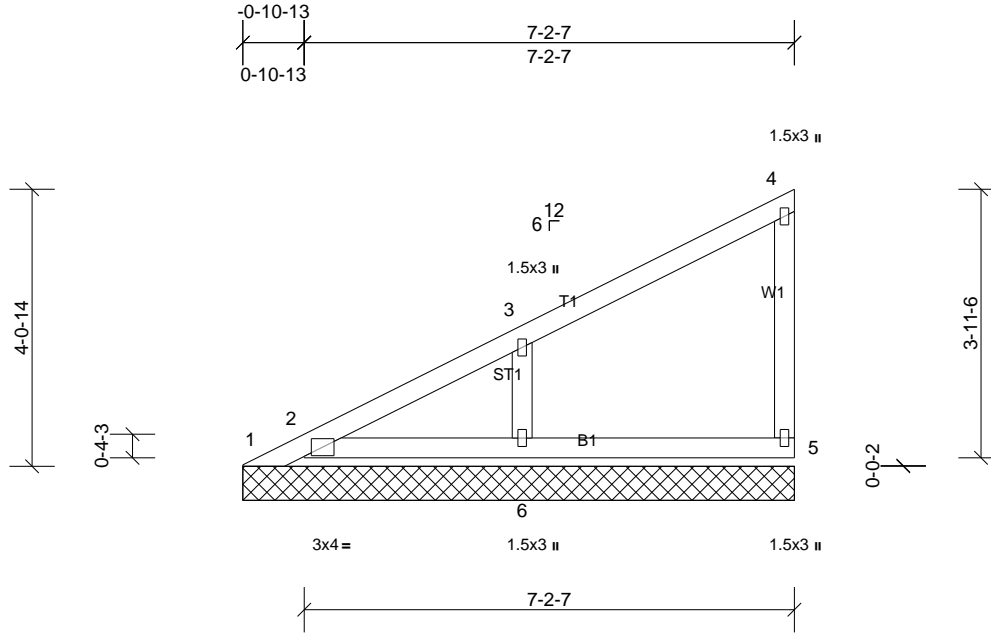
Job 72333198	Truss PB2L	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Loading	(psf)	Spacing	2-6-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr		NO	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 31 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD	2x4 SP No.2	BOT CHORD	(Switched from sheeted: Spacing > 2-0-0).
WEBS	2x4 SP No.3		Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS All bearings 8-1-4.
 (lb) - Max Horiz 1=193 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5, 10 except 6=148 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 2, 5, 10 except 6=464 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-265/62
 WEBS 3-6=-327/304

- NOTES**
- 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 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.
 - 4) Gable studs spaced at 4-0-0 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) Bearing at joint(s) 1, 2, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 2 except (jt=lb) 6=148.
 - 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.
 - 10) See standard piggyback truss connection detail for connection to base truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job 72333198	Truss V1	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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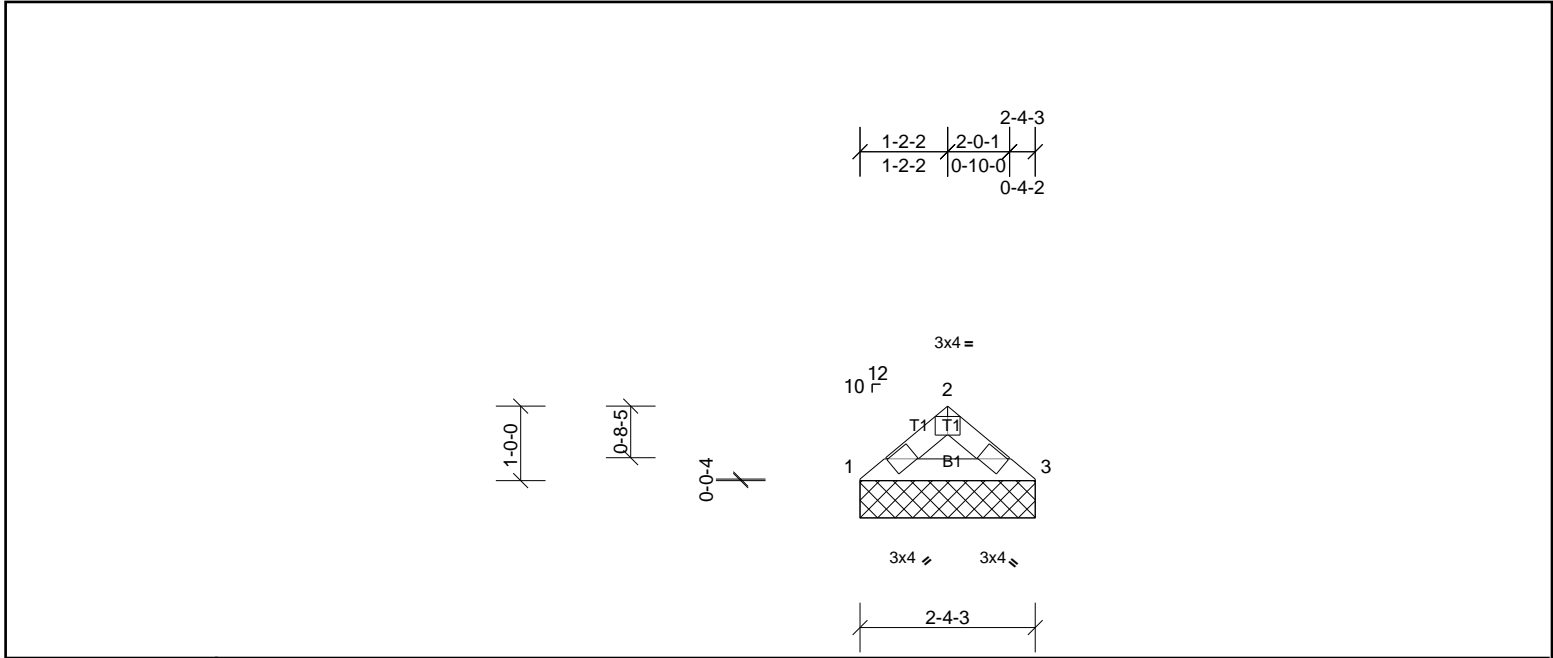


Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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							Weight: 7 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-4-3 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 1=94/2-4-3, (min. 0-1-8), 3=94/2-4-3, (min. 0-1-8) Max Horiz 1=21 (LC 8) Max Uplift 1=12 (LC 10), 3=12 (LC 11)		

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.
- 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
- 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 12 lb uplift at joint 1 and 12 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.



Job 72333198	Truss V2	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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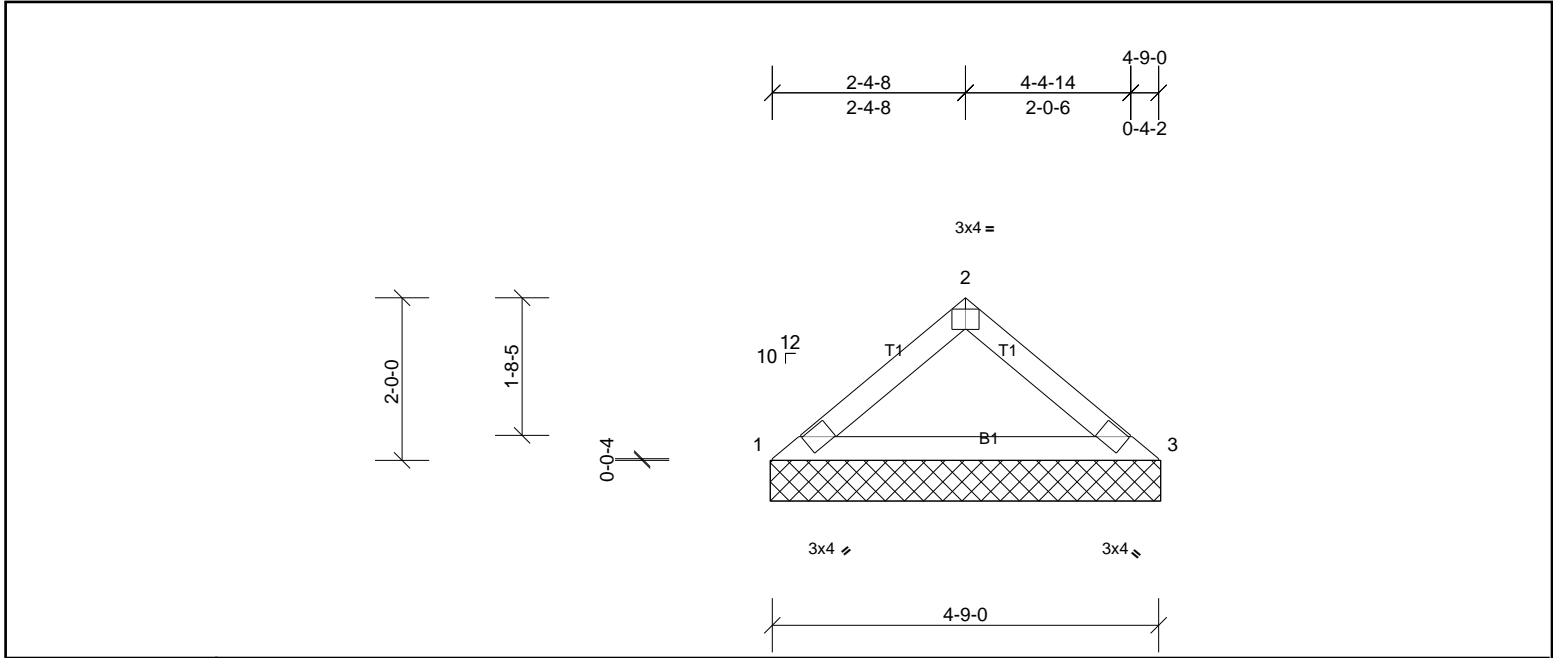


Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	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-MP							Weight: 15 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-10 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	
	1=192/4-9-10, (min. 0-1-8), 3=192/4-9-10, (min. 0-1-8)	
	Max Horiz	1=47 (LC 6)
	Max Uplift	1=23 (LC 10), 3=23 (LC 11)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-268/65

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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 23 lb uplift at joint 1 and 23 lb uplift at joint 3.
 - 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - 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.



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



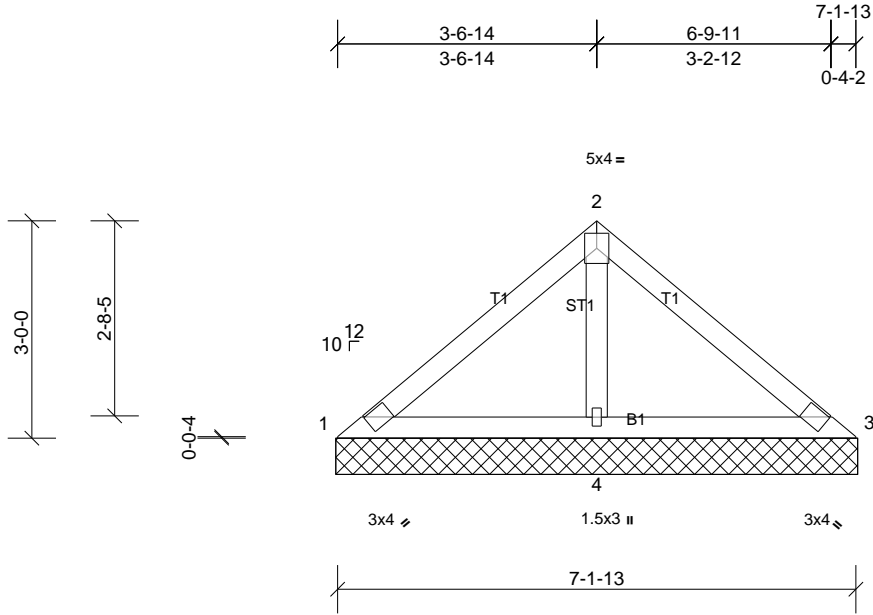
Job 72333198	Truss V3	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.86 S 8.62 Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Sep 13 12:42:52

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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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 27 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'-1-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.

REACTIONS

(lb/size) 1=50/7-2-6, (min. 0-1-8), 3=50/7-2-6, (min. 0-1-8), 4=475/7-2-6, (min. 0-1-8)
 Max Horiz 1=73 (LC 6)
 Max Uplift 3=6 (LC 6), 4=83 (LC 10)
 Max Grav 1=73 (LC 21), 3=73 (LC 22), 4=475 (LC 1)

FORCES

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

WEBS

2-4=-342/140

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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) 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 6 lb uplift at joint 3 and 83 lb uplift at joint 4.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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.



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



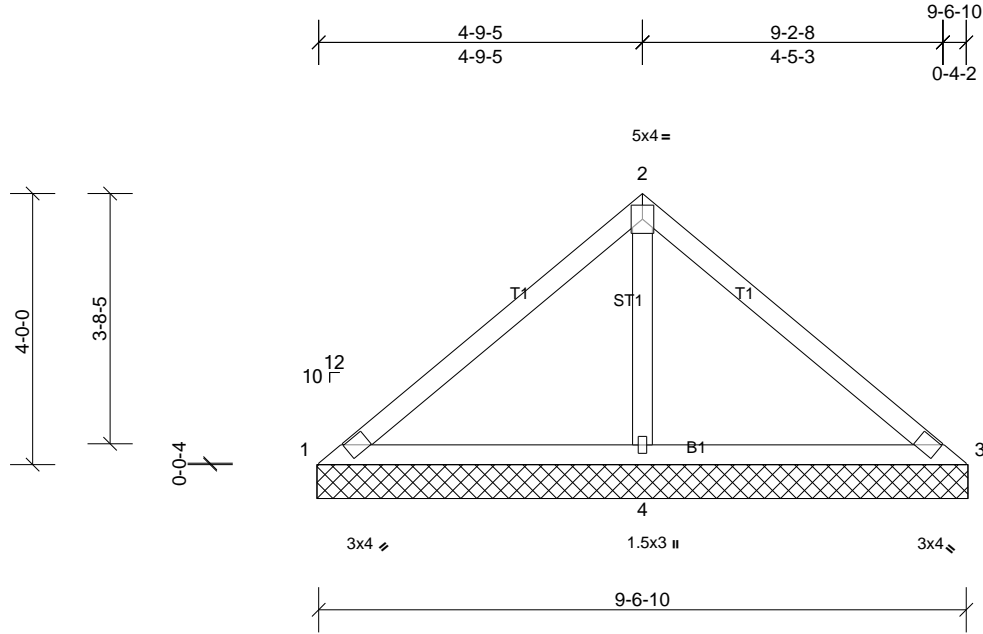
Job 72333198	Truss V4	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 36 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 9-6-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size) 1=27/9-7-3, (min. 0-1-8), 3=27/9-7-3, (min. 0-1-8), 4=715/9-7-3, (min. 0-1-8)
 Max Horiz 1=98 (LC 8)
 Max Uplift 1=-29 (LC 22), 3=-29 (LC 21), 4=-142 (LC 10)
 Max Grav 1=67 (LC 21), 3=67 (LC 22), 4=715 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-106/308, 2-3=-106/308
 BOT CHORD 1-4=-257/158, 3-4=-257/158
 WEBS 2-4=-547/233

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
- 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 29 lb uplift at joint 1, 29 lb uplift at joint 3 and 142 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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.



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



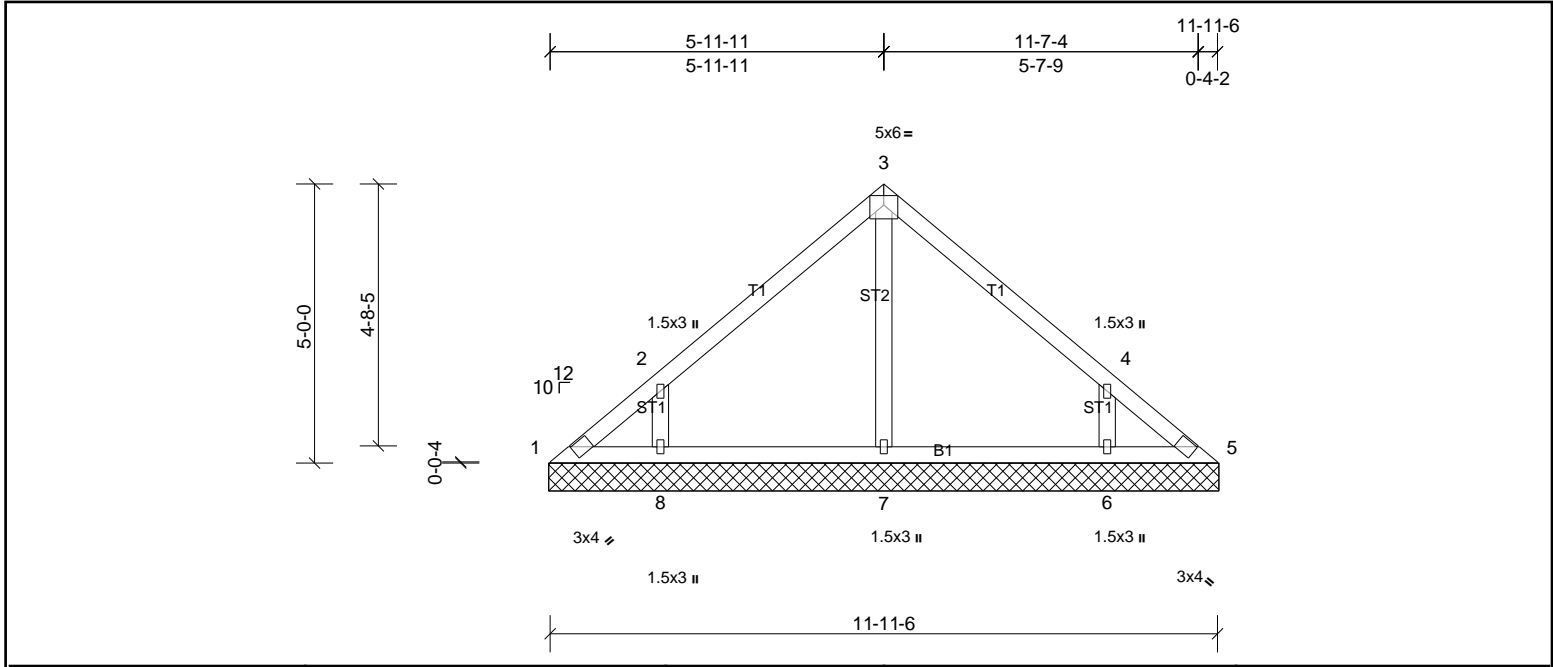
Job 72333198	Truss V5	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 49 lb	FT = 20%

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 2x4 SP No.3	
REACTIONS	
All bearings 12-0-0.	
(lb) - Max Horiz 1=124 (LC 7)	
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-158 (LC 11), 8=-162 (LC 10)	
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=329 (LC 18), 8=333 (LC 17)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
WEBS	
2-8=-292/224, 4-6=-292/222	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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) 8=161, 6=157.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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.



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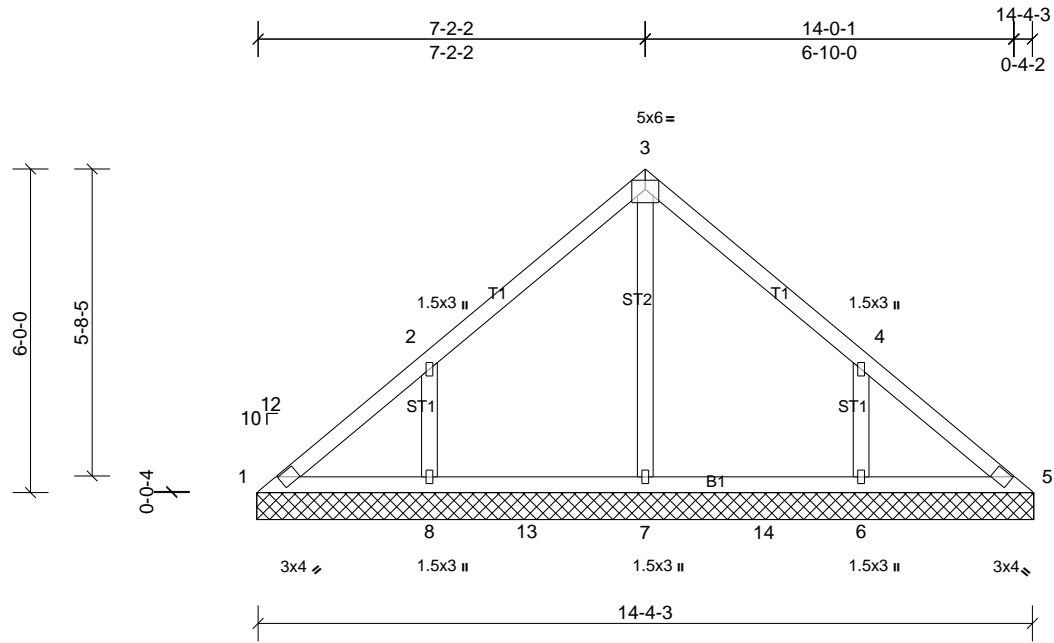
Job 72333198	Truss V6	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH						Weight: 62 lb	FT = 20%

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 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings	14-4-13.
(lb) - Max Horiz	1=150 (LC 9)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1 except 6=179 (LC 11), 8=182 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 5 except 6=384 (LC 18), 7=389 (LC 17), 8=387 (LC 17)

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

- WEBS**
2-8=295/220, 4-6=295/219
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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 except (jt=lb) 8=182, 6=179.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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.



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



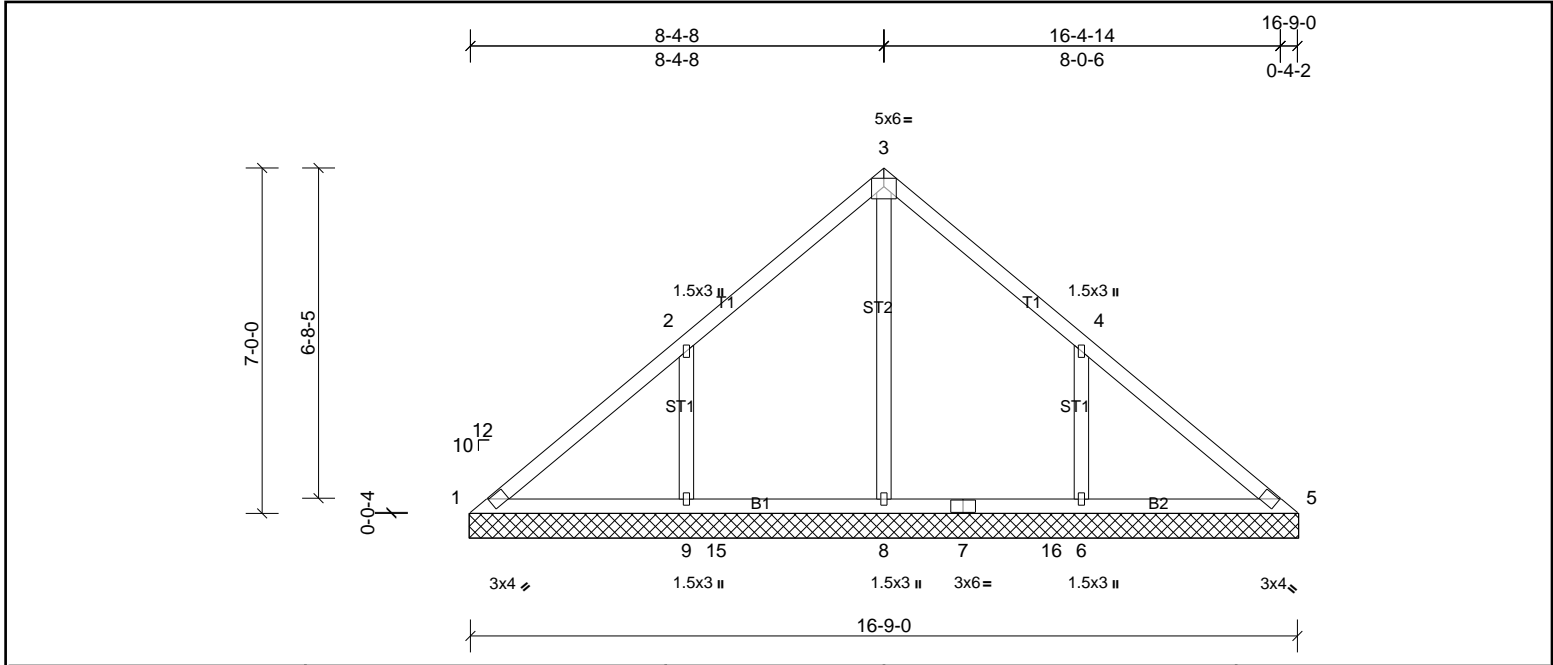
Job 72333198	Truss V7	Truss Type Truss	Qty 2	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	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	0.44	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 75 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS	
All bearings	16-9-10.
(lb) - Max Horiz	1=-176 (LC 6)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5, 14 except 6=-212 (LC 11), 9=-218 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=467 (LC 18), 8=679 (LC 17), 9=463 (LC 17)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-118/382, 2-3=0/325, 3-4=0/305, 4-5=-50/327
WEBS	3-8=-512/0, 2-9=-330/247, 4-6=-332/246

- 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) 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=217, 6=212.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5, 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.



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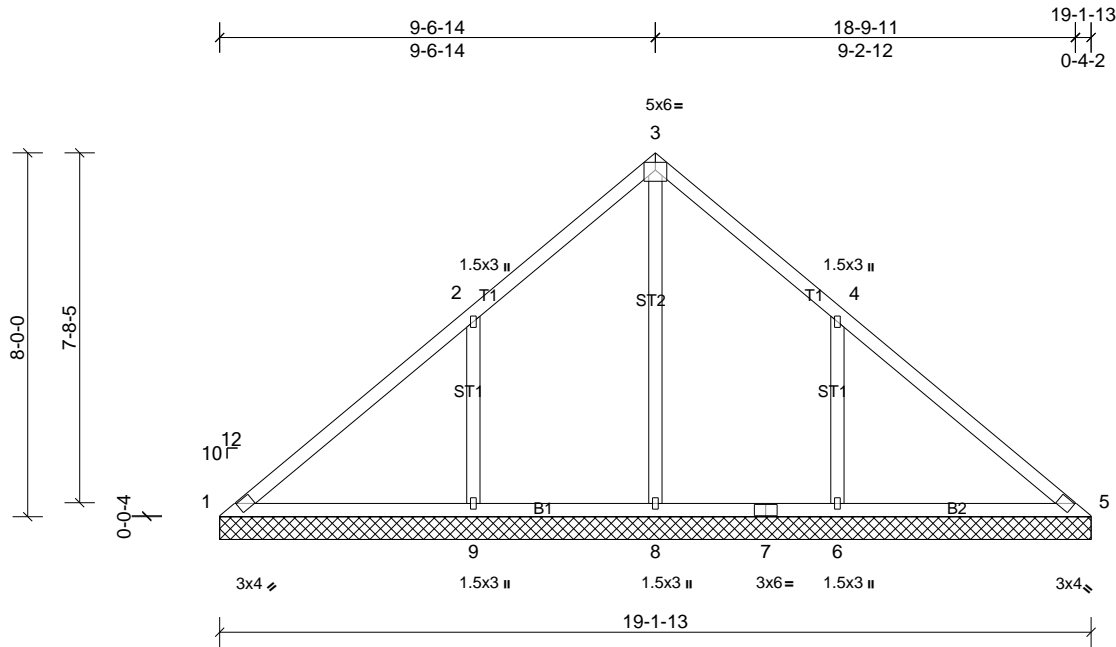
Job 72333198	Truss V8	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horiz(TL)	-0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 87 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	
REACTIONS	
All bearings 19-1-13.	
(lb) - Max Horiz 1=-202 (LC 6)	
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 14 except 6=-251 (LC 11), 9=-259 (LC 10)	
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=559 (LC 18), 8=719 (LC 17), 9=564 (LC 17)	
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-129/468, 2-3=0/367, 3-4=0/367, 4-5=-63/417	
BOT CHORD 1-9=-276/128, 8-9=-276/128, 7-8=-276/128, 6-7=-276/128, 5-6=-276/128	
WEBS 3-8=-576/0, 2-9=-386/286, 4-6=-386/284	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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, 5, 5 except (jt=lb) 9=259, 6=251.
 - 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.

