

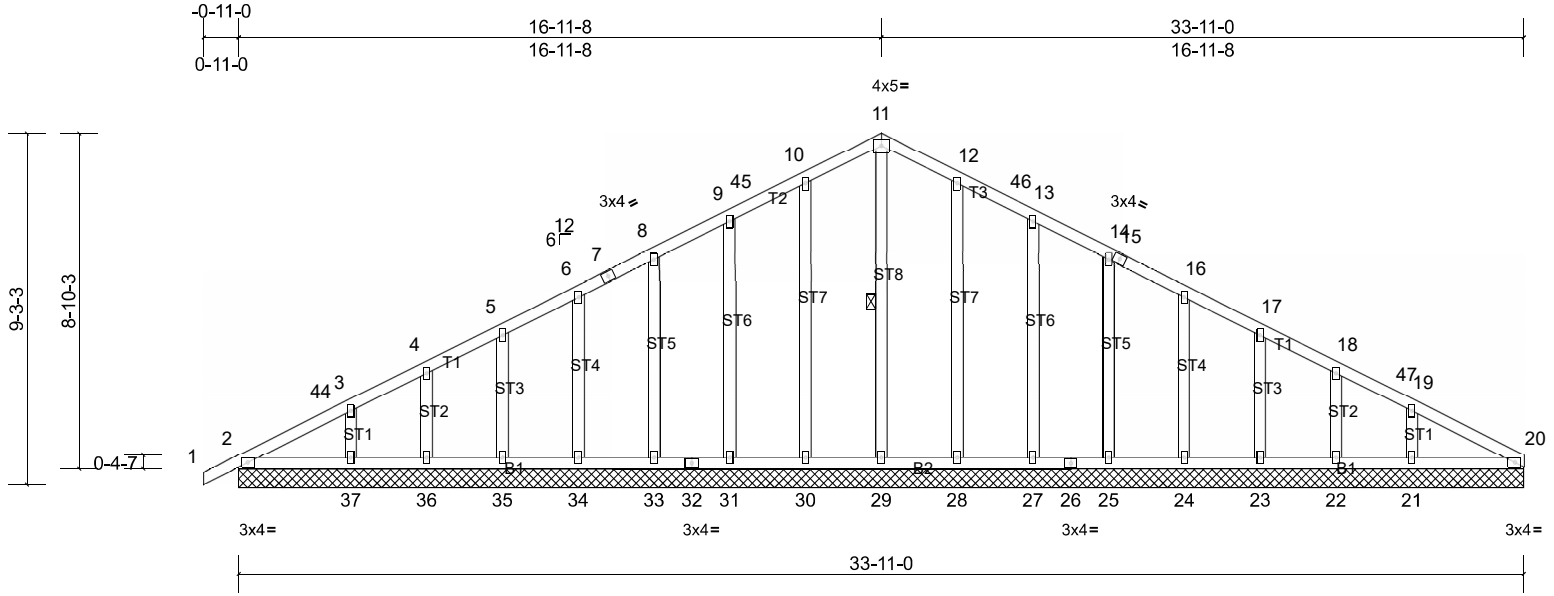
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	A01	Common Supported Gable	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:60.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	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	0.14	Horz(CT)	0.00	20	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 211 lb FT = 20%

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 11-29

**REACTIONS** All bearings 33-11-0.  
 (lb) - Max Horiz 2=138 (LC 11), 38=138 (LC 11)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 21, 22, 23, 24, 25, 27, 28, 30, 31,  
 33, 34, 35, 36, 37  
 Max Grav All reactions 250 (lb) or less at joint  
 (s) 2, 20, 21, 22, 23, 24, 25, 27, 28,  
 29, 30, 31, 33, 34, 35, 36, 37, 38,  
 41

**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=120mph (3-second gust)  
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
 B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional) and C-C Corner (3) -0-11-0 to  
 2-5-11, Exterior (2) 2-5-11 to 16-11-8, Corner (3) 16-11-8  
 to 20-4-3, Exterior (2) 20-4-3 to 33-11-0 zone; cantilever  
 left and right exposed; end vertical left and right  
 exposed; C-C for members and forces & MWFRS for  
 reactions shown; Lumber DOL=1.60 plate grip  
 DOL=1.60
  - Truss designed for wind loads in the plane of the truss  
 only. For studs exposed to wind (normal to the face),  
 see Standard Industry Gable End Details as applicable,  
 or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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.

- Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 100 lb uplift at joint  
 (s) 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 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.
  - This truss design requires that a minimum of 7/16"  
 structural wood sheathing be applied directly to the top  
 chord and 1/2" gypsum sheetrock be applied directly to  
 the bottom chord.
- LOAD CASE(S)** Standard

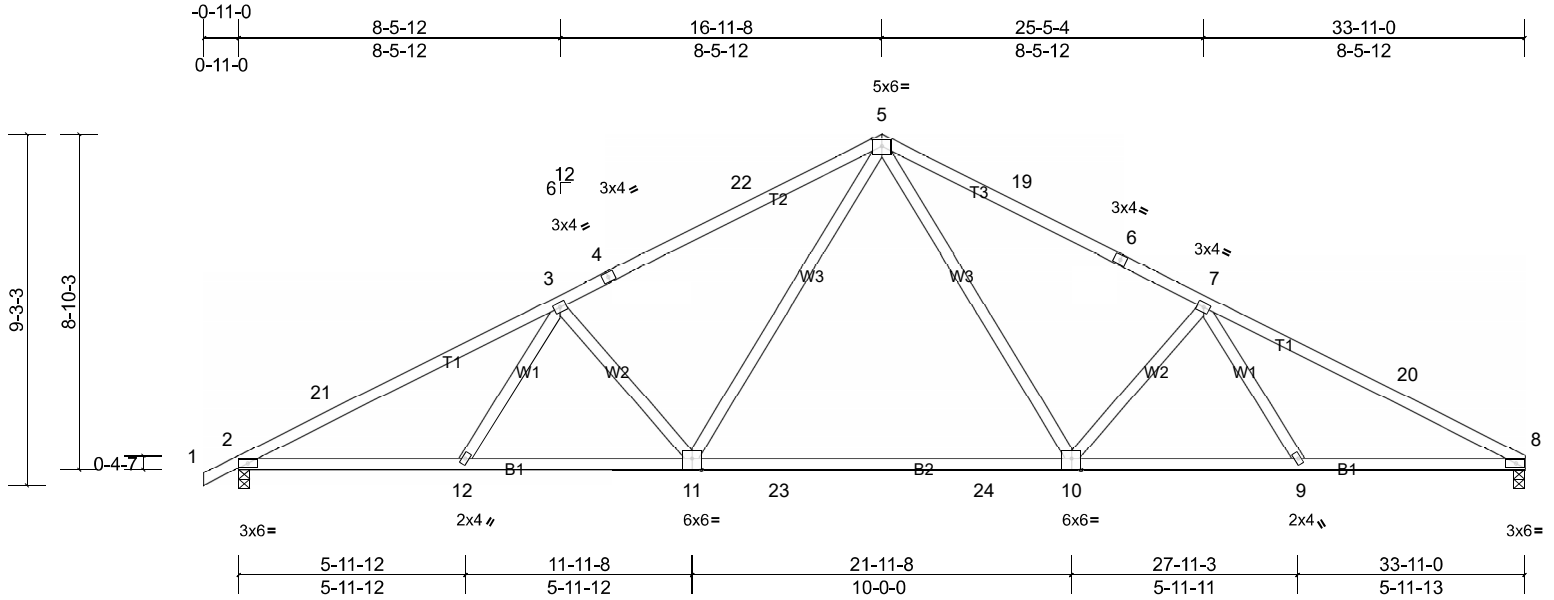
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	A02	Common	22	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:60.8

Plate Offsets (X, Y): [10:0-3-0,Edge], [11:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.39	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.70	10-11	>580	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.09	10-11	>999	240	Weight: 167 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\* B2:2x4 SP No.1  
 WEBS 2x4 SP No.3

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

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-11),  
 8=1356/0-3-8, (min. 0-1-10)  
 Max Horiz 2=138 (LC 11)  
 Max Uplift 2=-33 (LC 12), 8=-9 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 5-19=-1918/195, 6-19=-1932/174,  
 6-7=-2054/154, 7-20=-2436/146,  
 8-20=-2527/118, 2-21=-2521/97,  
 3-21=-2429/130, 3-4=-2052/146,  
 4-22=-1930/166, 5-22=-1916/187  
 BOT CHORD 2-12=-36/2173, 11-12=-64/2113,  
 11-23=0/1360, 23-24=0/1360, 10-24=0/1360,  
 9-10=-64/2098, 8-9=-42/2179  
 WEBS 5-10=-9/816, 5-11=-8/814, 3-11=-602/148,  
 7-10=-606/149

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-5-11, Interior (1) 2-5-11 to 16-11-8, Exterior (2) 16-11-8 to 20-4-3, Interior (1) 20-4-3 to 33-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 8 and 33 lb uplift at joint 2.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

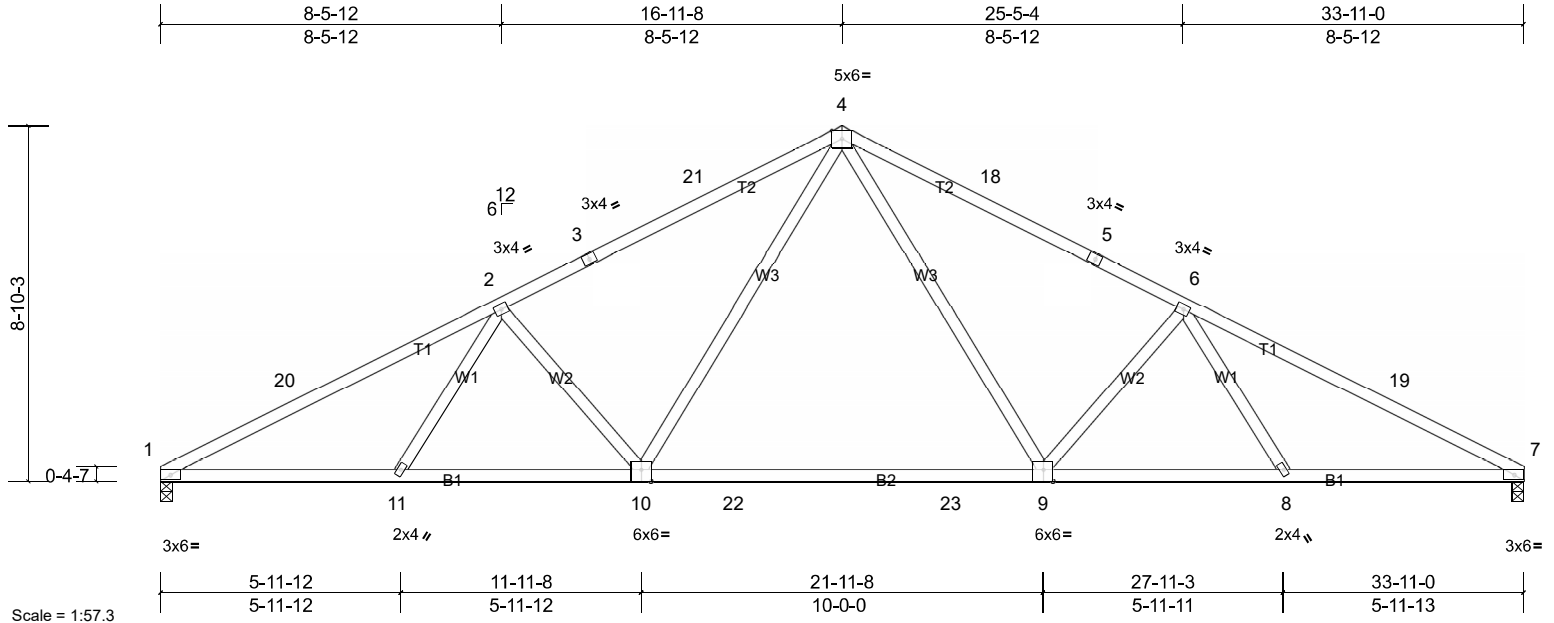
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	A03	Common	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:57.3

Plate Offsets (X, Y): [9:0-3-0,Edge], [10:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.39	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.70	9-10	>580	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.09	9-10	>999	240	Weight: 166 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\* B2:2x4 SP No.1  
 WEBS 2x4 SP No.3

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

**REACTIONS** (lb/size) 1=1357/0-3-8, (min. 0-1-10),  
 7=1357/0-3-8, (min. 0-1-10)  
 Max Horiz 1=132 (LC 11)  
 Max Uplift 1=-10 (LC 12), 7=-10 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
 (lb) or less except when shown.  
 TOP CHORD 4-18=-1919/196, 5-18=-1933/174,  
 5-6=-2056/155, 6-19=-2438/146,  
 7-19=-2529/119, 1-20=-2529/119,  
 2-20=-2438/146, 2-3=-2056/155,  
 3-21=-1933/174, 4-21=-1919/196  
 BOT CHORD 1-11=-48/2180, 10-11=-65/2117,  
 10-22=0/1362, 22-23=0/1362, 9-23=0/1362,  
 8-9=-65/2099, 7-8=-42/2180  
 WEBS 4-9=-9/817, 4-10=-9/817, 2-10=-606/149,  
 6-9=-606/149

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
 B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional) and C-C Exterior (2) 0-0-0 to  
 3-4-11, Interior (1) 3-4-11 to 16-11-8, Exterior (2) 16-11-8  
 to 20-4-3, Interior (1) 20-4-3 to 33-11-0 zone; cantilever  
 left and right exposed ; end vertical left and right  
 exposed;C-C for members and forces & MWFRS for  
 reactions shown; Lumber DOL=1.60 plate grip  
 DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom  
 chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members, with BCDL = 10.0psf.

- 5) Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 10 lb uplift at joint  
 1 and 10 lb uplift at joint 7.
- 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.
- 7) This truss design requires that a minimum of 7/16"  
 structural wood sheathing be applied directly to the top  
 chord and 1/2" gypsum sheetrock be applied directly to  
 the bottom chord.

**LOAD CASE(S)** Standard

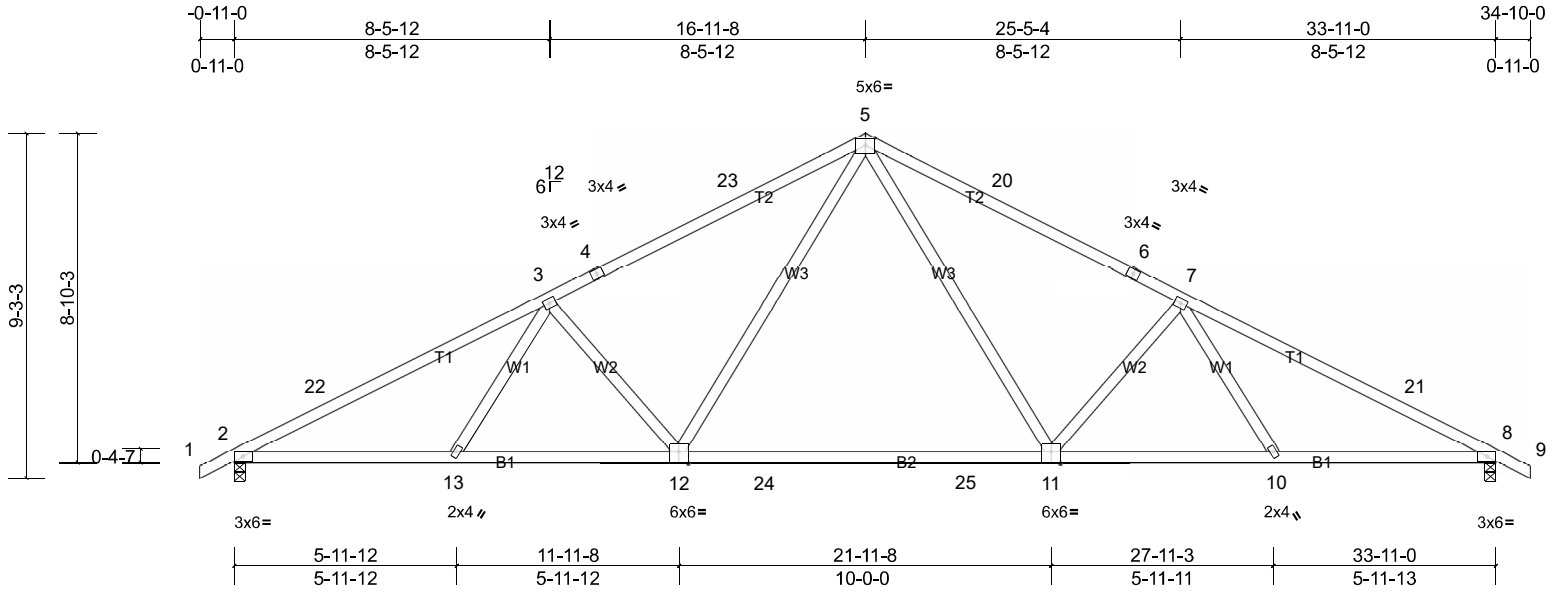
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	A04	Common	5	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:61.9

Plate Offsets (X, Y): [11:0-3-0,Edge], [12:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.37	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.67	11-12	>605	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.08	11-12	>999	240	Weight: 169 lb	FT = 20%

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

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

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-11),  
 8=1412/0-3-8, (min. 0-1-11)  
 Max Horiz 2=140 (LC 11)  
 Max Uplift 2=-33 (LC 12), 8=-33 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
 (lb) or less except when shown.  
 TOP CHORD 5-20=-1915/187, 6-20=-1929/165,  
 6-7=-2051/146, 7-21=-2428/130,  
 8-21=-2521/98, 2-22=-2521/98,  
 3-22=-2428/130, 3-4=-2051/146,  
 4-23=-1929/165, 5-23=-1915/187  
 BOT CHORD 2-13=-16/2173, 12-13=-41/2116,  
 12-24=0/1365, 24-25=0/1365, 11-25=0/1365,  
 10-11=-50/2092, 8-10=-23/2172  
 WEBS 5-11=-8/814, 5-12=-8/814, 3-12=-601/148,  
 7-11=-601/148

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
 B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional) and C-C Exterior (2) -0-11-0 to  
 2-5-11, Interior (1) 2-5-11 to 16-11-8, Exterior (2) 16-11-8  
 to 20-4-3, Interior (1) 20-4-3 to 34-10-0 zone; cantilever  
 left and right exposed ; end vertical left and right  
 exposed;C-C for members and forces & MWFRS for  
 reactions shown; Lumber DOL=1.60 plate grip  
 DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom  
 chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members, with BCDL = 10.0psf.

- 5) Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 33 lb uplift at joint  
 2 and 33 lb uplift at joint 8.
- 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.
- 7) This truss design requires that a minimum of 7/16"  
 structural wood sheathing be applied directly to the top  
 chord and 1/2" gypsum sheetrock be applied directly to  
 the bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	A05	Common	7	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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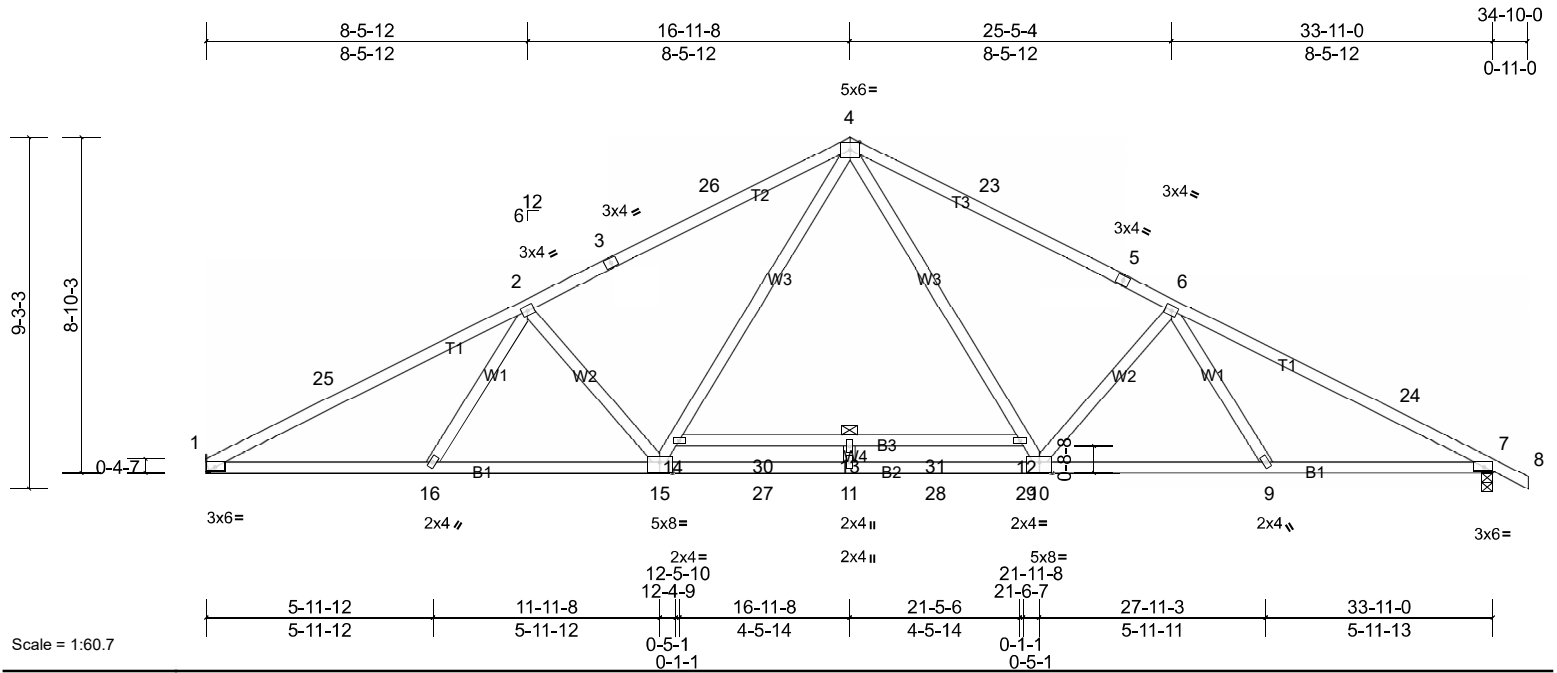


Plate Offsets (X, Y): [10:0-4-0,0-3-4], [15:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.42	13	>961	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.82	13	>498	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	-0.09	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.08	11	>999	240	Weight: 182 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.1 \*Except\* B3:2x4 SP No.2, B2:2x4 SP DSS  
 WEBS 2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 12-14

**REACTIONS** (lb/size) 1=1449/ Mechanical, (min. 0-1-8), 7=1506/0-3-8, (min. 0-1-12)  
 Max Horiz 7=-138 (LC 10)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-23=-2241/58, 5-23=-2252/37, 5-6=-2354/17, 6-24=-2642/12, 7-24=-2721/0, 1-25=-2727/1, 2-25=-2649/28, 2-3=-2356/25, 3-26=-2253/45, 4-26=-2242/66  
 BOT CHORD 1-16=-15/2359, 15-16=0/2312, 15-27=0/1685, 11-27=0/1685, 11-28=0/1685, 28-29=0/1685, 10-29=0/1685, 9-10=0/2407, 7-9=0/2452  
 WEBS 4-12=0/992, 10-12=0/839, 14-15=0/841, 4-14=0/994, 2-15=-596/156, 6-10=-592/154

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-4-11, Interior (1) 3-4-11 to 16-11-8, Exterior (2) 16-11-8 to 20-4-3, Interior (1) 20-4-3 to 34-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Refer to girder(s) for truss to truss connections.

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

**LOAD CASE(S)** Standard

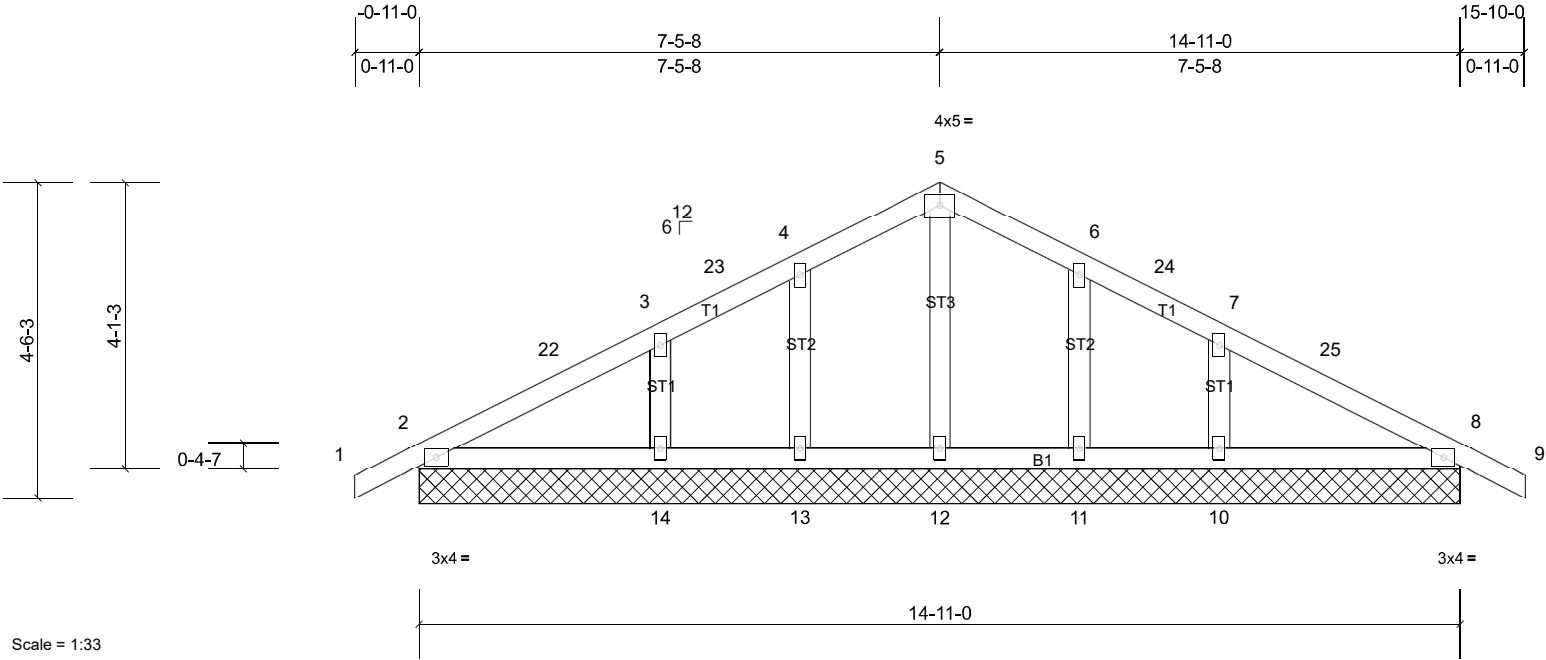
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	B01	Common Supported Gable	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.10	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	0.04	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 68 lb FT = 20%

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

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

**REACTIONS** All bearings 14-11-0.  
 (lb) - Max Horiz 2=57 (LC 11), 15=57 (LC 11)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 2, 8, 10, 11, 13, 14, 15, 19  
 Max Grav All reactions 250 (lb) or less at joint  
 (s) 2, 8, 11, 12, 13, 15, 19 except  
 10=258 (LC 1), 14=258 (LC 1)

**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=120mph (3-second gust)  
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
 B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional) and C-C Corner (3) 0-11-0 to  
 2-1-0, Exterior (2) 2-1-0 to 7-5-8, Corner (3) 7-5-8 to  
 10-5-8, Exterior (2) 10-5-8 to 15-10-0 zone; cantilever  
 left and right exposed; end vertical left and right  
 exposed; C-C for members and forces & MWFRS for  
 reactions shown; Lumber DOL=1.60 plate grip  
 DOL=1.60
  - Truss designed for wind loads in the plane of the truss  
 only. For studs exposed to wind (normal to the face),  
 see Standard Industry Gable End Details as applicable,  
 or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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.
  - Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 100 lb uplift at joint  
 (s) 2, 8, 13, 14, 11, 10, 2, 8.

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

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	B02	Common	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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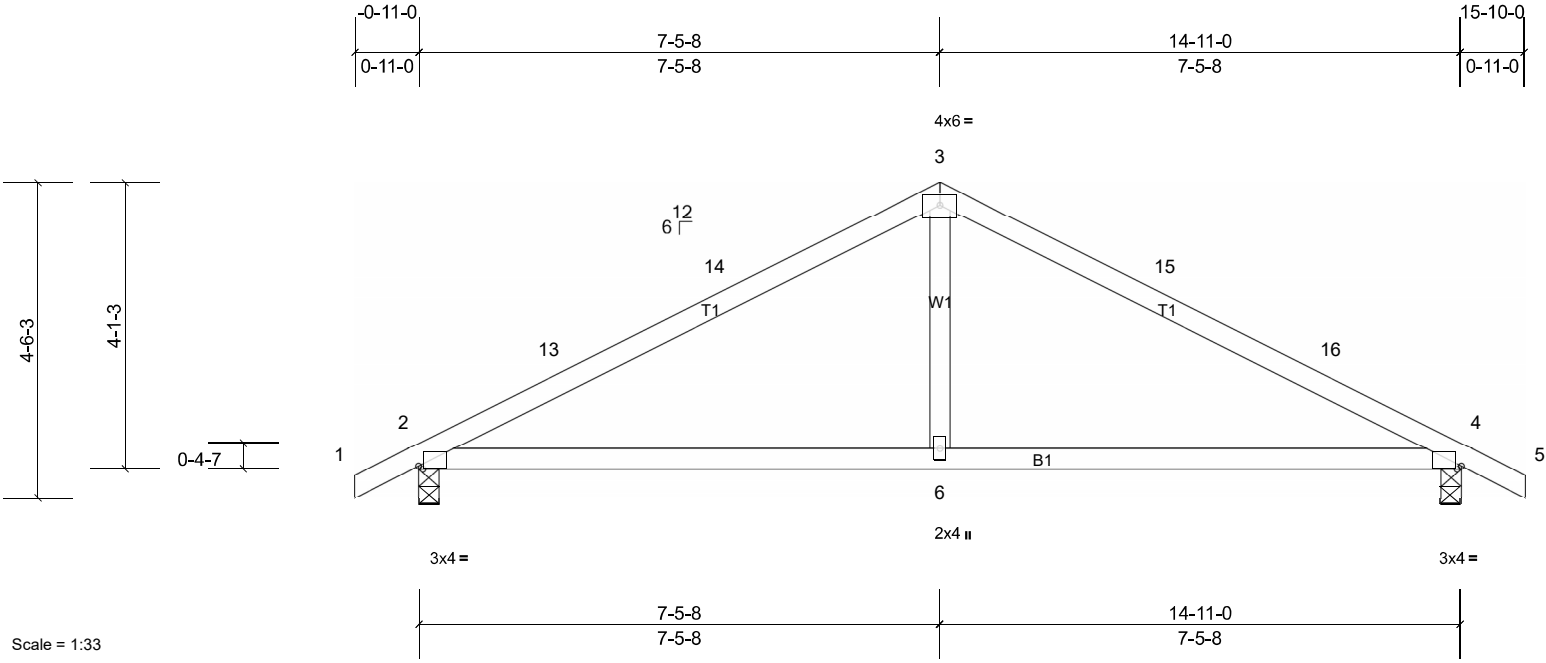


Plate Offsets (X, Y): [2:0-0-12,Edge], [4:0-0-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.09	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.17	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.04	6-9	>999	240	Weight: 56 lb	FT = 20%

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

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

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

**LOAD CASE(S)** Standard

**REACTIONS** (lb/size) 2=652/0-3-8, (min. 0-1-8),  
 4=652/0-3-8, (min. 0-1-8)  
 Max Horiz 2=59 (LC 11)  
 Max Uplift 2=-27 (LC 12), 4=-27 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-13=-854/65, 13-14=-771/74, 3-14=-748/94,  
 3-15=-748/94, 15-16=-771/74, 4-16=-854/65  
 BOT CHORD 2-6=-4/690, 4-6=0/690  
 WEBS 3-6=0/340

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 7-5-8, Exterior (2) 7-5-8 to 10-5-8, Interior (1) 10-5-8 to 15-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2 and 27 lb uplift at joint 4.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job Q2301219	Truss B03	Truss Type Common Girder	Qty 1	Ply 3	Value Build Homes - (AlexanderA) Job Reference (optional)
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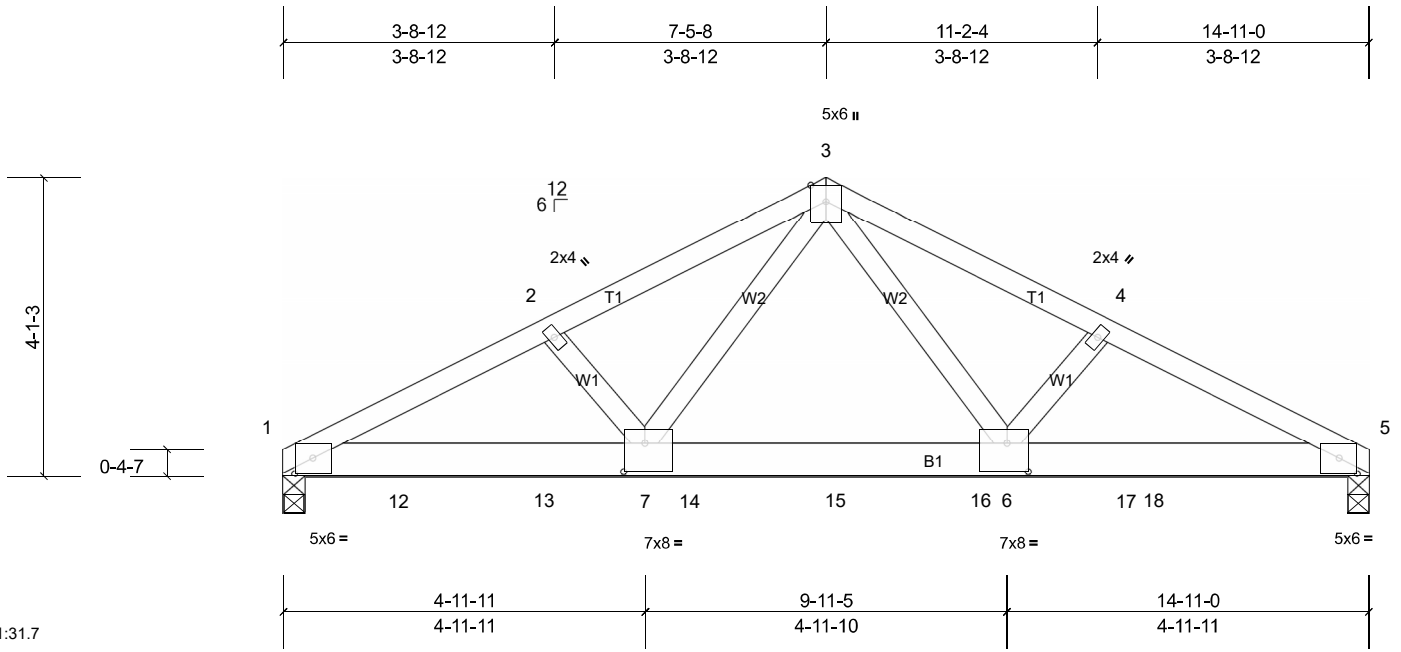


Plate Offsets (X, Y): [1:0-3-0,0-2-9], [5:0-3-0,0-2-9], [6:0-3-8,0-4-12], [7:0-3-8,0-4-12]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.08	6-7	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	6-7	>999	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.04	5	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.01	6-11	>999	240	Weight: 235 lb FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=5728/0-3-8, (min. 0-1-15),  
 5=6775/0-3-8, (min. 0-2-4)  
 Max Horiz 1=-51 (LC 6)

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

TOP CHORD 1-2=-10285/0, 2-3=-9975/0, 3-4=-10768/0,  
 4-5=-10900/0

BOT CHORD 1-12=0/9053, 12-13=0/9053, 7-13=0/9053,  
 7-14=0/6224, 14-15=0/6224, 15-16=0/6224,  
 6-16=0/6224, 6-17=0/9790, 17-18=0/9790,  
 5-18=0/9790

WEBS 3-6=0/6048, 4-6=-342/46, 3-7=0/4795,  
 2-7=-276/41

**NOTES**

- 3-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.  
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)  
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional); 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.
  - 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.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1430 lb down at 1-7-0, 1430 lb down at 3-7-0, 1430 lb down at 5-7-0, 1430 lb down at 7-7-0, 1430 lb down at 9-7-0, 1430 lb down at 11-7-0, and 1430 lb down at 11-11-9, and 1339 lb down and 19 lb up at 14-2-9 on bottom 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=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-3=-58, 3-5=-58, 1-5=-19  
 Concentrated Loads (lb)  
 Vert: 11=-1339 (B), 12=-1430 (B), 13=-1430 (B),  
 14=-1430 (B), 15=-1430 (B), 16=-1430 (B), 17=-1430 (B), 18=-1430 (B)



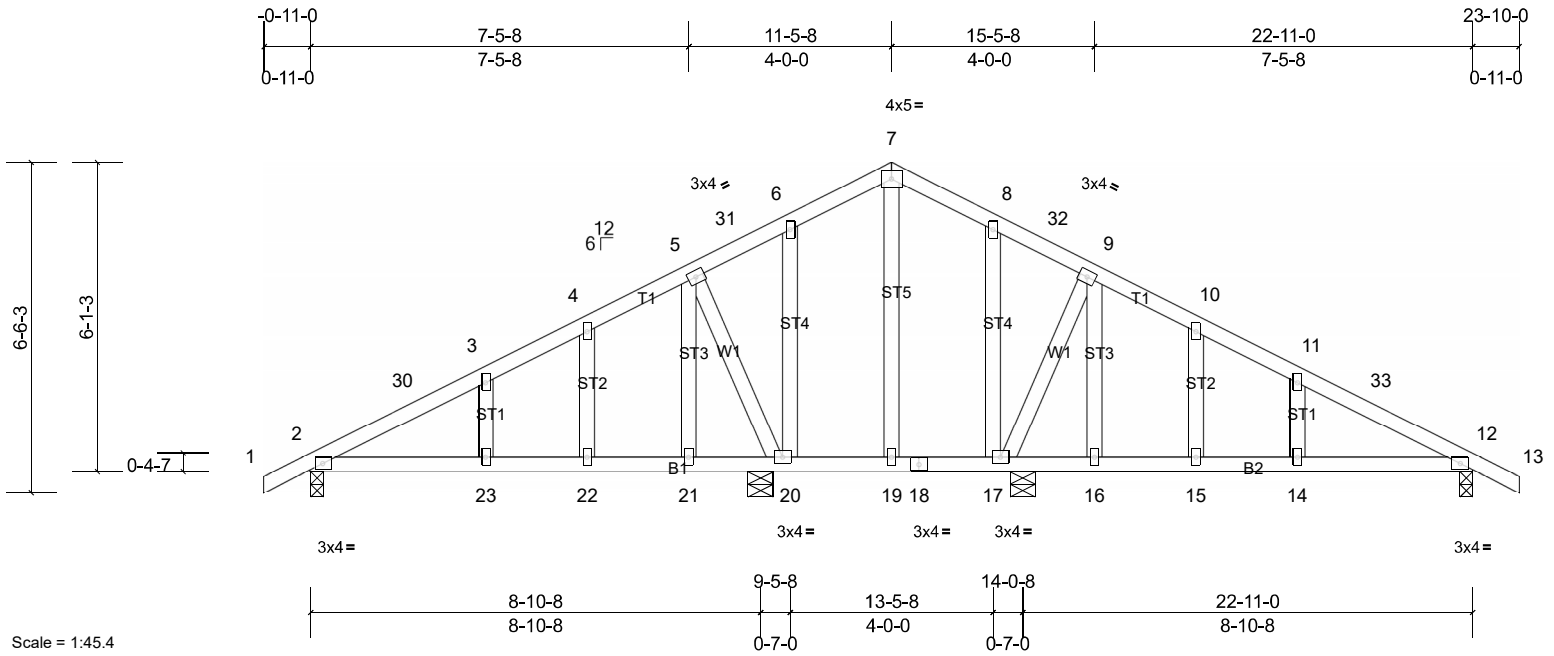
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	C01	Common Structural Gable	1	1	Job Reference (optional)

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Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.09	23	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.19	23-26	>594	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	12	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.12	23	>946	240	Weight: 132 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.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS** All bearings 0-3-0, except 20=0-6-0, 17=0-6-0  
 (lb) - Max Horiz 2=-84 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 except 2=-106 (LC 12), 12=-106 (LC 12), 17=-113 (LC 12), 20=-113 (LC 12)  
 Max Grav All reactions 250 (lb) or less at joint (s)  
 except 2=467 (LC 1), 12=467 (LC 1), 17=475 (LC 1), 20=475 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-30=-435/182, 3-30=-385/187, 3-4=-385/198, 4-5=-353/206, 9-10=-353/209, 10-11=-385/201, 11-33=-385/191, 12-33=-435/185  
 BOT CHORD 2-23=-105/345, 22-23=-105/345, 21-22=-105/345, 20-21=-105/345, 16-17=-104/345, 15-16=-104/345, 14-15=-104/345, 12-14=-104/345  
 WEBS 5-21=-190/269, 9-16=-191/269, 5-20=-552/331, 9-17=-552/332

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-11-0 to 2-1-0, Interior (1) 2-1-0 to 11-5-8, Exterior (2) 11-5-8 to 14-5-8, Interior (1) 14-5-8 to 23-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch exposed 0-1-8 to 8-10-8; porch exposed 8-10-8 to 14-0-8; porch exposed 14-0-8 to 22-9-8; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 2, 105 lb uplift at joint 12, 112 lb uplift at joint 20 and 112 lb uplift at joint 17.
- 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 truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

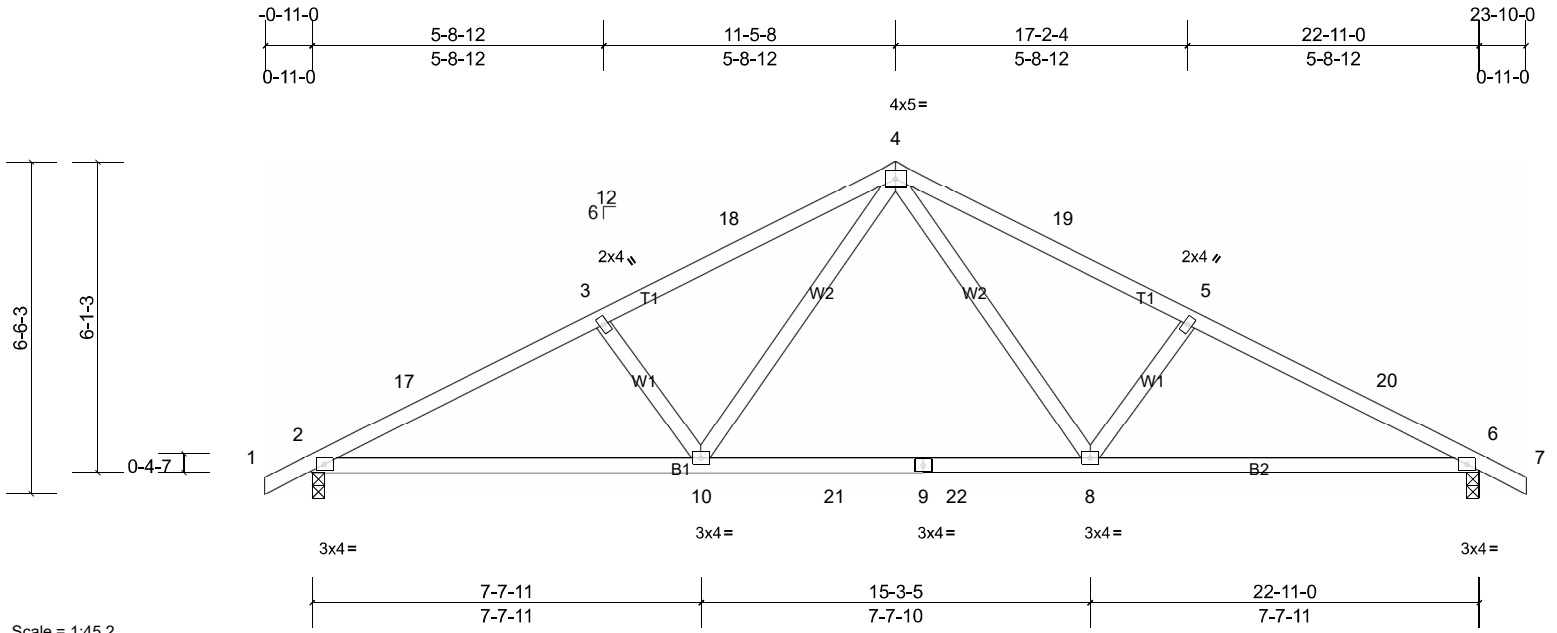
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	C02	Common	2	1	Job Reference (optional)

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Scale = 1:45.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.12	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.12	10-13	>999	240		
										Weight: 105 lb	FT = 20%	

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

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

**REACTIONS** (lb/size) 2=972/0-3-0, (min. 0-1-8),  
 6=972/0-3-0, (min. 0-1-8)  
 Max Horiz 2=-87 (LC 10)  
 Max Uplift 2=-224 (LC 12), 6=-224 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-1602/788, 3-17=-1562/808,  
 3-18=-1429/799, 4-18=-1347/821,  
 4-19=-1347/821, 5-19=-1429/799,  
 5-20=-1562/808, 6-20=-1602/788  
 BOT CHORD 2-10=-656/1397, 10-21=-380/915,  
 9-21=-380/915, 9-22=-380/915,  
 8-22=-380/915, 6-8=-668/1397  
 WEBS 4-8=-378/540, 5-8=-350/140, 4-10=-378/540,  
 3-10=-350/140

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
 MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 11-5-8, Exterior (2) 11-5-8 to 14-5-8, Interior (1) 14-5-8 to 23-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2 and 224 lb uplift at joint 6.

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

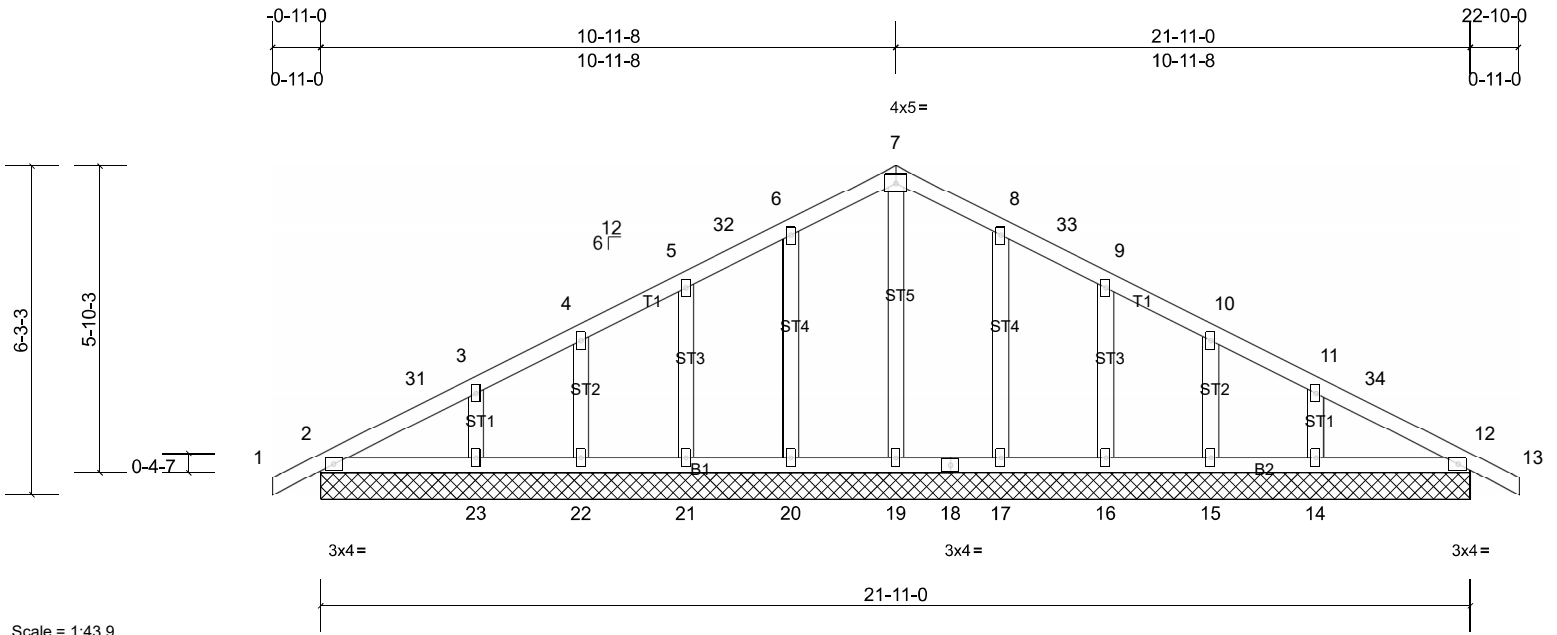
Job Q2301219	Truss D01	Truss Type Common Supported Gable	Qty 1	Ply 1	Value Build Homes - (AlexanderA) Job Reference (optional)
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Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 114 lb FT = 20%

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

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

**REACTIONS** All bearings 21-11-0.  
 (lb) - Max Horiz 2=81 (LC 11), 24=81 (LC 11)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 2, 12, 14, 15, 16, 17, 20, 21, 22,  
 23, 24, 28  
 Max Grav All reactions 250 (lb) or less at joint  
 (s) 2, 12, 14, 15, 16, 17, 19, 20, 21,  
 22, 23, 24, 28

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

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 10-11-8, Corner (3) 10-11-8 to 13-11-8, Exterior (2) 13-11-8 to 22-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 20, 21, 22, 23, 17, 16, 15, 14, 12, 2, 12.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 24.
- 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.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

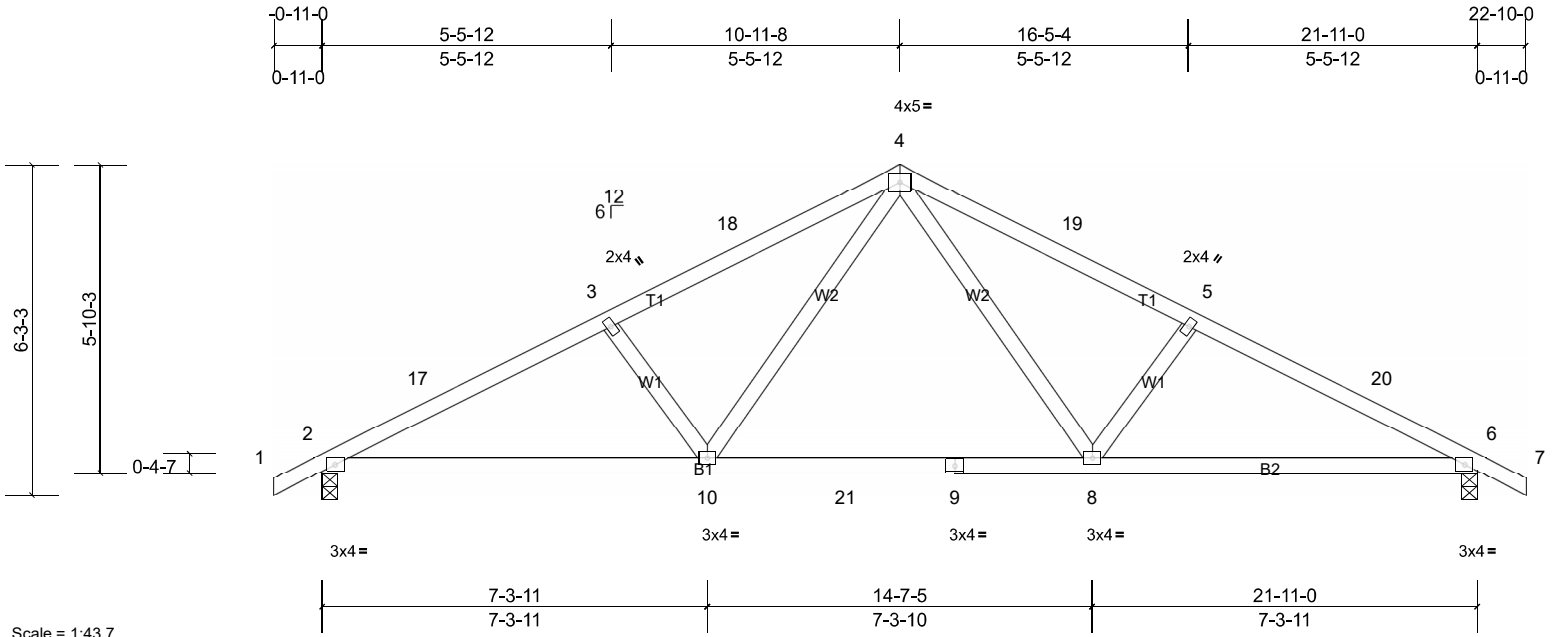
Job Q2301219	Truss D02	Truss Type Common	Qty 11	Ply 1	Value Build Homes - (AlexanderA) Job Reference (optional)
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Scale = 1:43.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.10	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.18	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.03	10-13	>999	240	Weight: 101 lb	FT = 20%

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

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

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

**LOAD CASE(S)** Standard

**REACTIONS** (lb/size) 2=932/0-3-8, (min. 0-1-8),  
 6=932/0-3-8, (min. 0-1-8)  
 Max Horiz 2=84 (LC 11)  
 Max Uplift 2=-29 (LC 12), 6=-29 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-1529/86, 3-17=-1490/110,  
 3-18=-1364/110, 4-18=-1285/126,  
 4-19=-1285/126, 5-19=-1364/110,  
 5-20=-1490/110, 6-20=-1529/86  
 BOT CHORD 2-10=-25/1333, 10-21=0/875, 9-21=0/875,  
 8-9=0/875, 6-8=-37/1333  
 WEBS 4-8=-4/522, 5-8=-334/111, 4-10=-4/522,  
 3-10=-334/111

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-11-8, Exterior (2) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 22-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 29 lb uplift at joint 2 and 29 lb uplift at joint 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

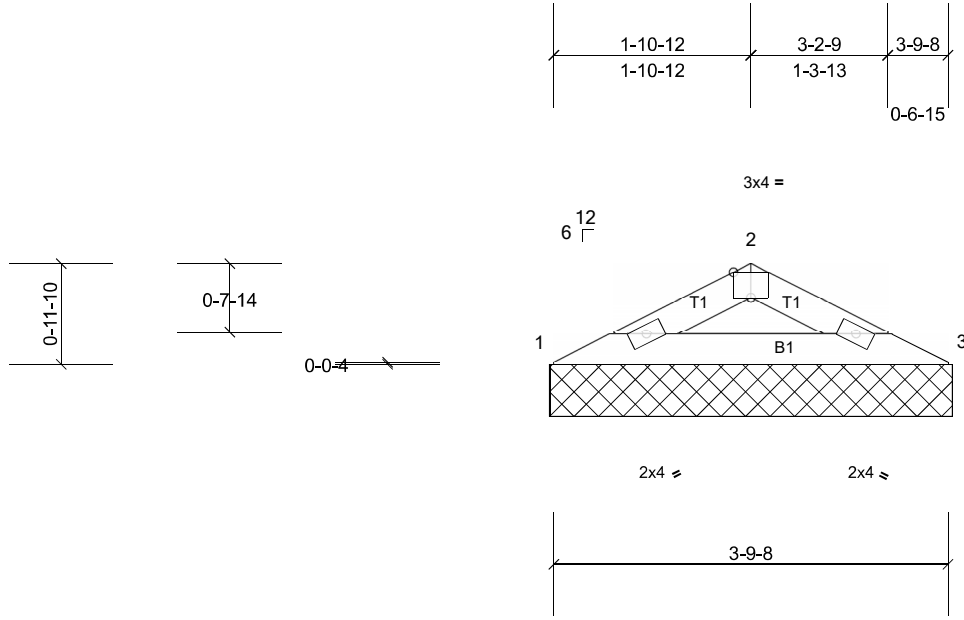
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	V01	Valley	3	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:22.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	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: 10 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.

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

**REACTIONS** (lb/size) 1=155/3-10-8, (min. 0-1-8),

3=155/3-10-8, (min. 0-1-8)

Max Horiz 1=11 (LC 11)

Max Uplift 1=-1 (LC 12), 3=-1 (LC 12)

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

(lb) or less except when shown.

TOP CHORD 1-2=-272/86

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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 1 lb uplift at joint 1 and 1 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.

**LOAD CASE(S)** Standard

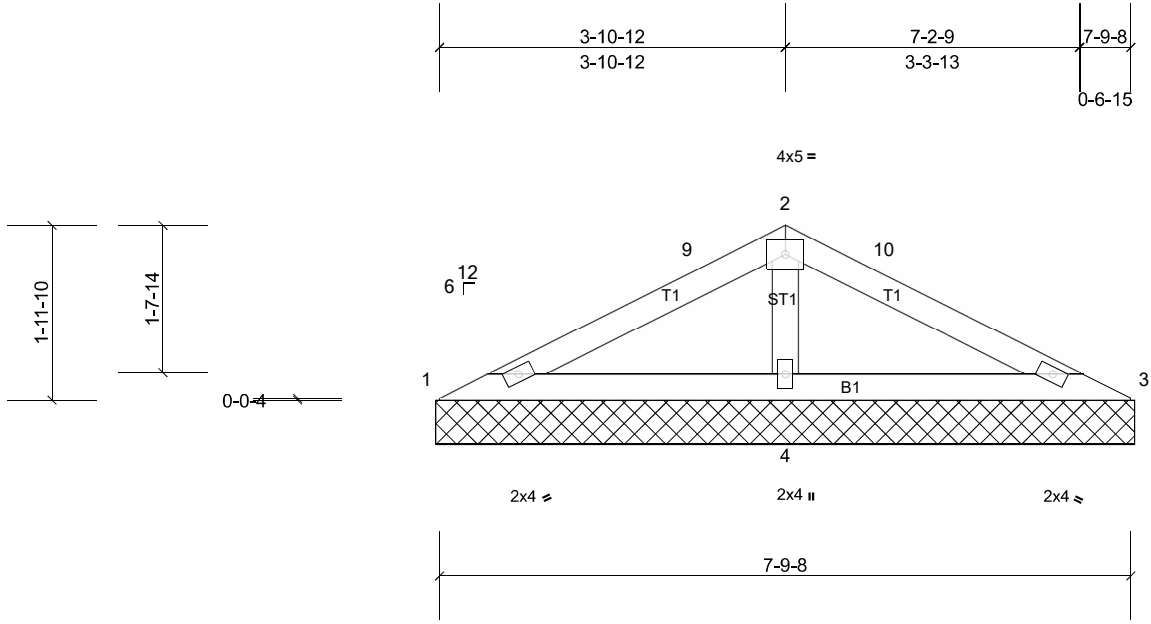
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	V02	Valley	3	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 25 lb	FT = 20%

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

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

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

**LOAD CASE(S)** Standard

**REACTIONS** (lb/size) 1=53/7-10-8, (min. 0-1-8),  
3=53/7-10-8, (min. 0-1-8),  
4=523/7-10-8, (min. 0-1-8)  
Max Horiz 1=-25 (LC 10)  
Max Uplift 4=-9 (LC 12)  
Max Grav 1=80 (LC 21), 3=80 (LC 22), 4=523 (LC 1)

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

TOP CHORD 2-9=-57/259, 2-10=-57/259  
WEBS 2-4=-368/118

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-11-4, Exterior (2) 3-11-4 to 6-7-11, Interior (1) 6-7-11 to 7-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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 9 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.

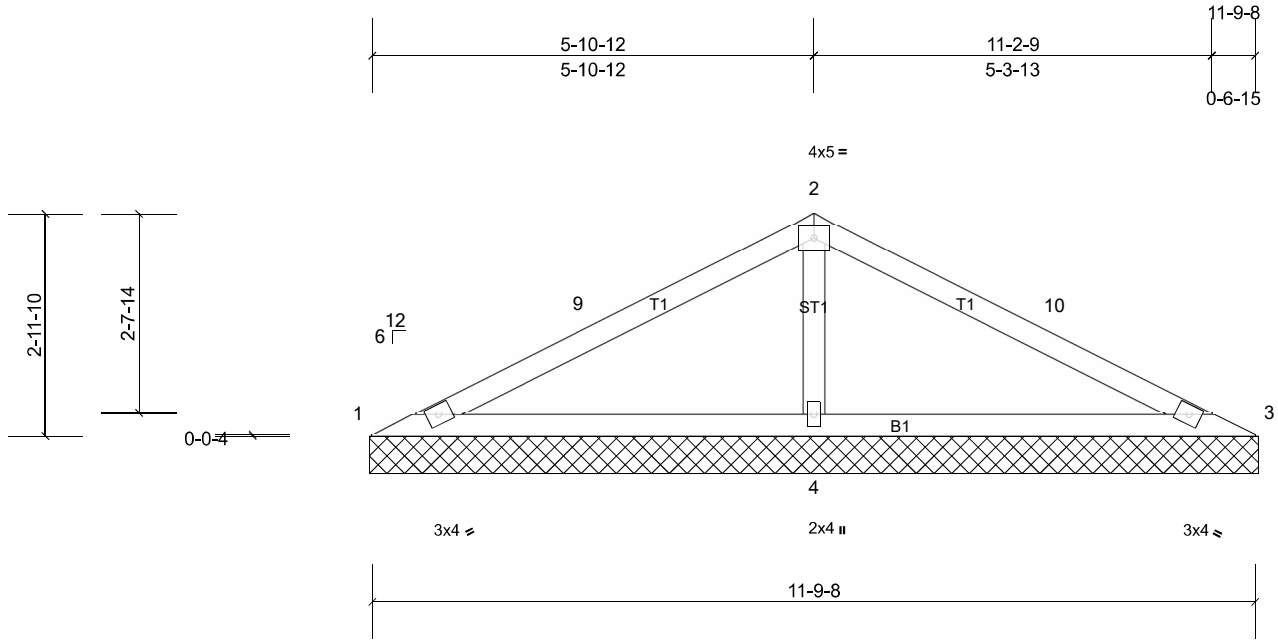
Job Q2301219	Truss V03	Truss Type Valley	Qty 3	Ply 1	Value Build Homes - (AlexanderA) Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:30.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	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	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS						Weight: 39 lb	FT = 20%

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

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

**REACTIONS** (lb/size) 1=37/11-10-8, (min. 0-1-8),  
 3=37/11-10-8, (min. 0-1-8),  
 4=875/11-10-8, (min. 0-1-8)  
 Max Horiz 1=-40 (LC 10)  
 Max Uplift 1=-31 (LC 22), 3=-31 (LC 21),  
 4=-18 (LC 12)  
 Max Grav 1=88 (LC 21), 3=88 (LC 22), 4=875  
 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
 (lb) or less except when shown.  
 TOP CHORD 1-9=-97/390, 2-9=-62/469, 2-10=-62/469,  
 3-10=-75/388  
 BOT CHORD 1-4=-351/105, 3-4=-351/105  
 WEBS 2-4=-692/160

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-4, Exterior (2) 5-11-4 to 8-11-4, Interior (1) 8-11-4 to 11-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 31 lb uplift at joint 1, 31 lb uplift at joint 3 and 18 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 truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

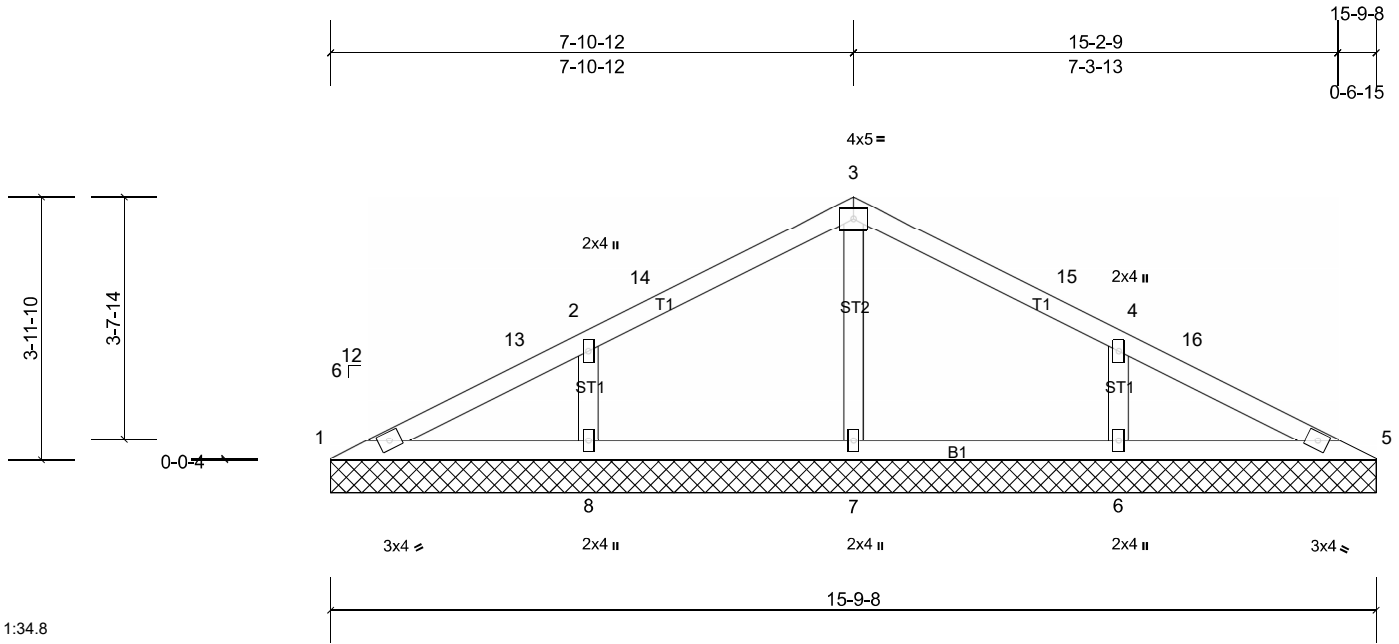
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	V04	Valley	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:34.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 57 lb	FT = 20%

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

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

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

**LOAD CASE(S)** Standard

**REACTIONS** All bearings 15-9-8.  
 (lb) - Max Horiz 1=54 (LC 11)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 6, 8  
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=367 (LC 22), 7=355 (LC 1), 8=367 (LC 21)

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

**WEBS** 3-7=-285/33, 2-8=-263/98, 4-6=-263/98

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 7-11-4, Exterior (2) 7-11-4 to 10-11-4, Interior (1) 10-11-4 to 15-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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 100 lb uplift at joint (s) 8, 6.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	V05	Valley	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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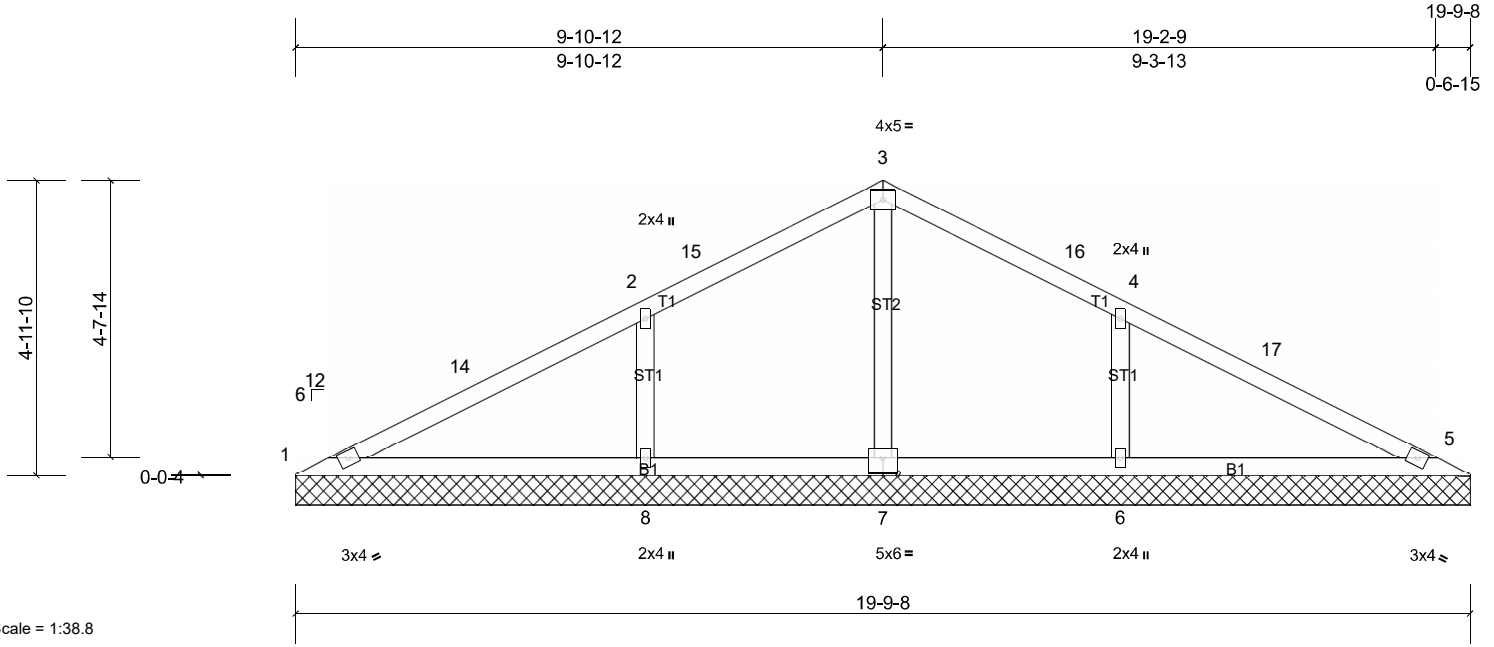


Plate Offsets (X, Y): [7:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 74 lb	FT = 20%

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

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

**REACTIONS** All bearings 19-9-8.  
(lb) - Max Horiz 1=67 (LC 11)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
1, 6, 8  
Max Grav All reactions 250 (lb) or less at joint  
(s) 1, 5, 13 except 6=474 (LC 22),  
7=553 (LC 1), 8=487 (LC 21)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.  
TOP CHORD 1-14=-157/379, 2-14=-46/458, 2-15=0/357,  
3-15=0/418, 3-16=0/418, 4-16=0/321,  
4-17=-42/458, 5-17=-55/379  
BOT CHORD 1-8=-339/136, 7-8=-339/87, 6-7=-339/87,  
5-6=-339/87  
WEBS 3-7=-515/43, 2-8=-339/113, 4-6=-334/114

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;  
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;  
MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8,  
Interior (1) 3-0-8 to 9-11-4, Exterior (2) 9-11-4 to 12-11-4,  
Interior (1) 12-11-4 to 19-3-1 zone; cantilever left and  
right exposed; end vertical left and right exposed; C-C  
for members and forces & MWFRS for reactions shown;  
Lumber DOL=1.60 plate 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 100 lb uplift at joint  
(s) 1, 8, 6.

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

**LOAD CASE(S)** Standard

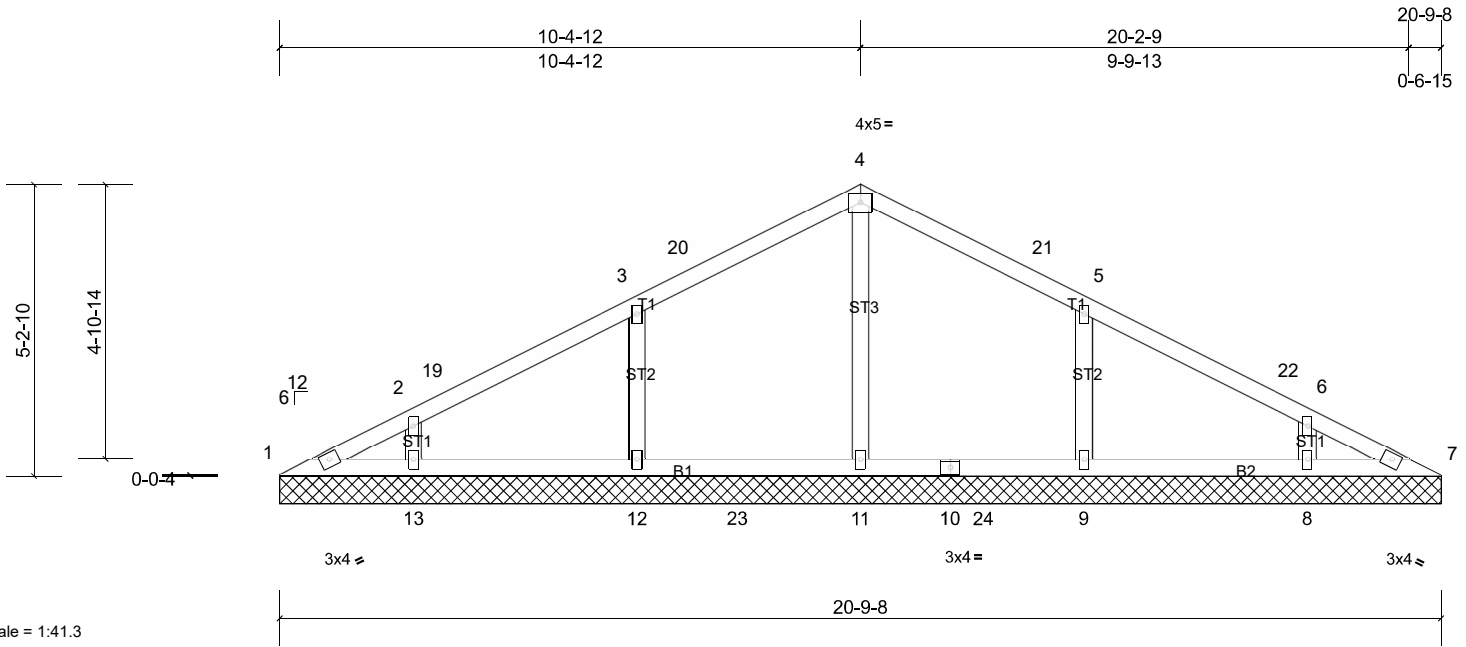
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - (AlexanderA)
Q2301219	V06	Valley	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:41.3

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.20	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	0.15	Horiz(TL)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 80 lb	FT = 20%

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

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

**REACTIONS** All bearings 20-9-8.  
(lb) - Max Horiz 1=-69 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
1, 7, 8, 9, 12, 13, 18  
Max Grav All reactions 250 (lb) or less at joint  
(s) 1 except 8=301 (LC 1), 9=317  
(LC 22), 11=460 (LC 17), 12=336  
(LC 21), 13=263 (LC 21)

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

**WEBS** 4-11=-310/3, 3-12=-256/102

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 10-5-4, Exterior (2) 10-5-4 to 13-5-4, Interior (1) 13-5-4 to 20-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 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, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 12, 13, 9, 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard