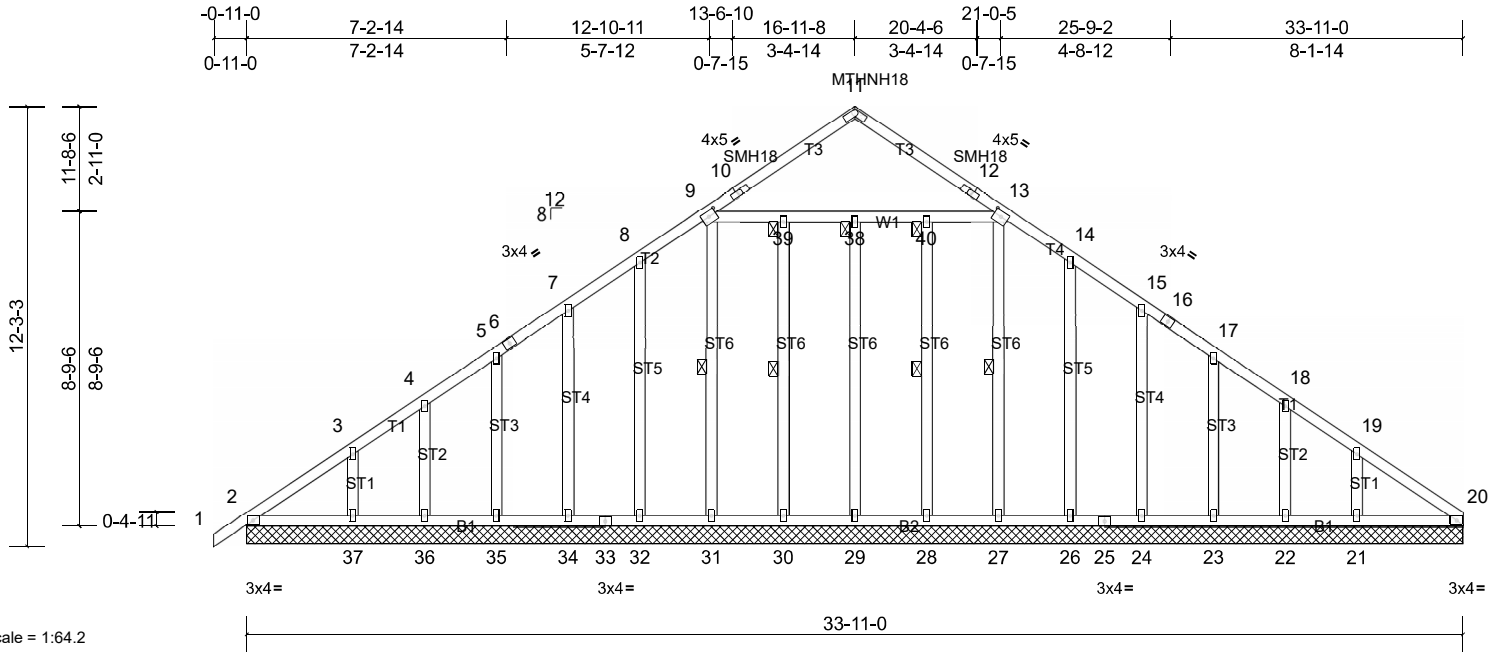


Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A01	Common Supported Gable	2	1	Job Reference (optional)



Scale = 1:64.2

Plate Offsets (X, Y): [9:0-2-8,0-1-12], [10:0-1-0,0-1-0], [10:0-1-0,0-1-0], [11:0-1-3,0-1-12], [11:0-1-3,0-1-12], [12:0-1-0,0-1-0], [12:0-1-0,0-1-0], [13:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.20	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	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS								
										Weight: 254 lb	FT = 20%	

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 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 30-39, 9-31, 28-40, 13-27  
 JOINTS 1 Brace at Jt(s): 38, 39, 40

**REACTIONS** All bearings 33-11-0.  
 (lb) - Max Horiz 2=209 (LC 11), 41=209 (LC 11)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 2, 21, 22, 23, 24, 34, 35, 36, 37, 41  
 Max Grav All reactions 250 (lb) or less at joint  
 (s) 2, 20, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 36, 37, 41, 44  
 except 27=338 (LC 1), 31=350 (LC 17)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 9-10=-282/51, 12-13=-282/51  
 WEBS 9-31=-309/14, 13-27=-297/14

**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=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  
 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 MT20 plates unless otherwise indicated.  
 5) All plates are 2x4 MT20 unless otherwise indicated.

- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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, 34, 35, 36, 37, 24, 23, 22, 21, 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 20.
- 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 - Wendt 05-24-107
Q2301429	A02	Common	10	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 14 14:54:12

Page: 1

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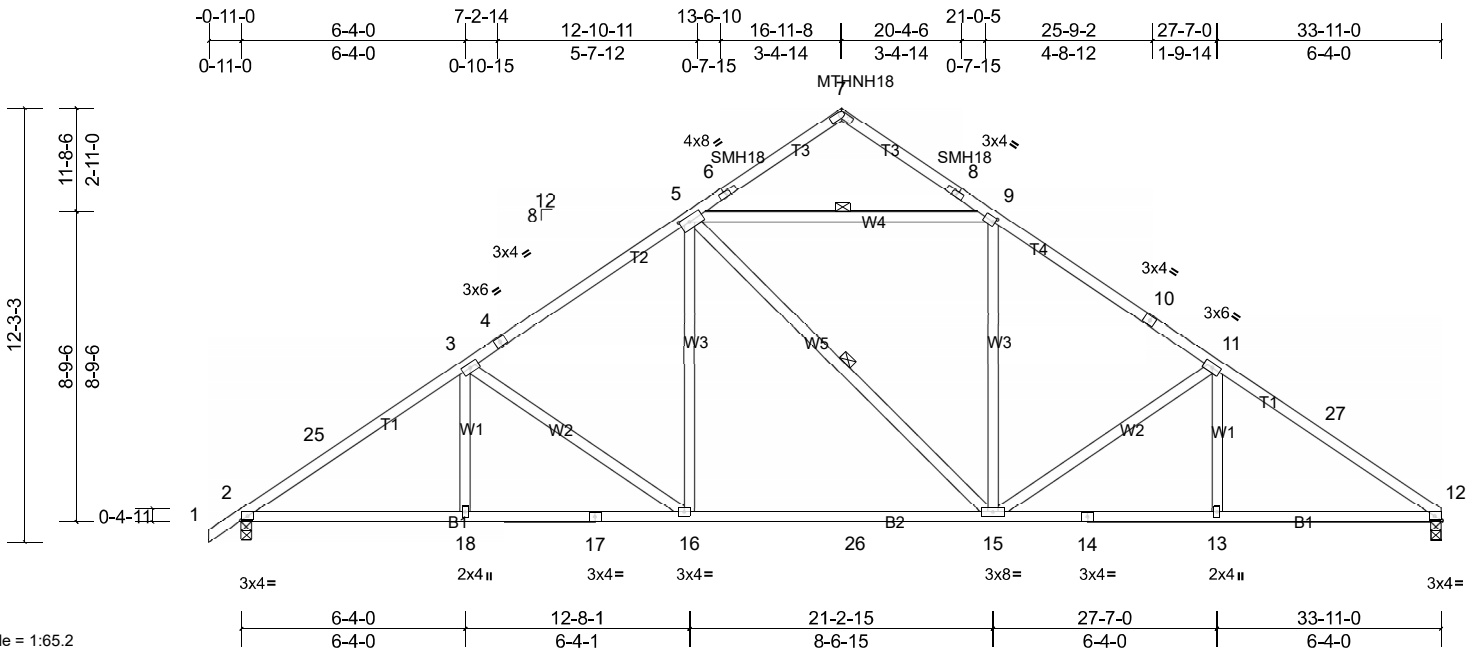


Plate Offsets (X, Y): [2:Edge,0-1-8], [5:0-3-4,0-1-12], [6:0-1-0,0-1-0], [6:0-1-0,0-1-0], [7:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-1-0,0-1-0], [8:0-1-0,0-1-0], [9:0-0-12,0-1-8], [12:0-2-4,Edge]

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	0.42	Vert(LL)	-0.20	15-16	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.38	15-16	>999	240	MT18HS 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	12	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	15-16	>999	240	Weight: 201 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-9, 5-15

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-11), 12=1356/0-3-8, (min. 0-1-10)  
Max Horiz 2=209 (LC 11)  
Max Uplift 2=-33 (LC 12), 12=-9 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-25=-2114/79, 3-25=-2030/104, 3-4=-1662/107, 4-5=-1543/145, 5-6=-284/44, 8-9=-286/44, 9-10=-1548/148, 10-11=-1664/111, 11-27=-2017/113, 12-27=-2118/90  
BOT CHORD 2-18=-16/1758, 17-18=-8/1758, 16-17=-8/1758, 16-26=0/1363, 15-26=0/1363, 14-15=-15/1692, 13-14=-15/1692, 12-13=-15/1692  
WEBS 5-9=-1140/159, 5-16=0/545, 9-15=0/503, 11-15=-492/106, 3-16=-493/99

- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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 33 lb uplift at joint 2 and 9 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 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).

Job Q2301429	Truss A03	Truss Type Common	Qty 1	Ply 1	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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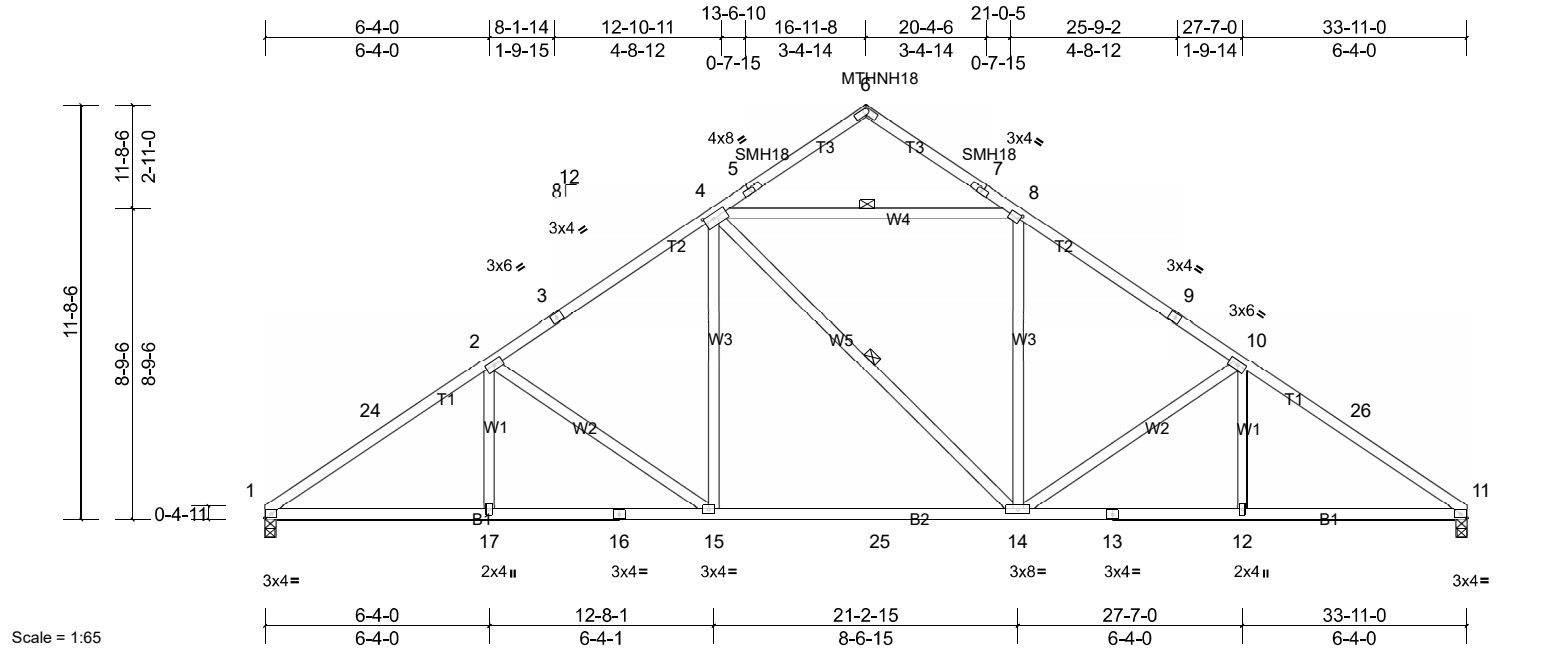


Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-3-4,0-1-12], [5:0-1-0,0-1-0], [5:0-1-0,0-1-0], [6:0-1-3,0-1-12], [6:0-1-3,0-1-12], [7:0-1-0,0-1-0], [7:0-1-0,0-1-0], [8:0-0-12,0-1-8], [11:0-2-4,Edge]

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	0.43	Vert(LL)	-0.20	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.38	14-15	>999	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	14-15	>999	240	Weight: 200 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 4-8, 4-14

**REACTIONS** (lb/size) 1=1357/0-3-8, (min. 0-1-10),  
11=1357/0-3-8, (min. 0-1-10)  
Max Horiz 1=-202 (LC 10)  
Max Uplift 1=-10 (LC 12), 11=-10 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-24=-2120/91, 2-24=-2020/114,  
2-3=-1664/111, 3-4=-1545/149, 4-5=-284/44,  
7-8=-286/44, 8-9=-1549/149, 9-10=-1665/111,  
10-26=-2019/113, 11-26=-2119/91  
BOT CHORD 1-17=-35/1764, 16-17=-16/1764,  
15-16=-16/1764, 15-25=0/1365,  
14-25=0/1365, 13-14=-15/1693,  
12-13=-15/1693, 11-12=-15/1693  
WEBS 4-8=-1141/161, 8-14=0/503, 4-15=0/547,  
10-14=-492/106, 2-15=-498/108

- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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 10 lb uplift at joint 1 and 10 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 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
  - See HINGE PLATE DETAILS for plate placement.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A04	Scissor	3	1	Job Reference (optional)

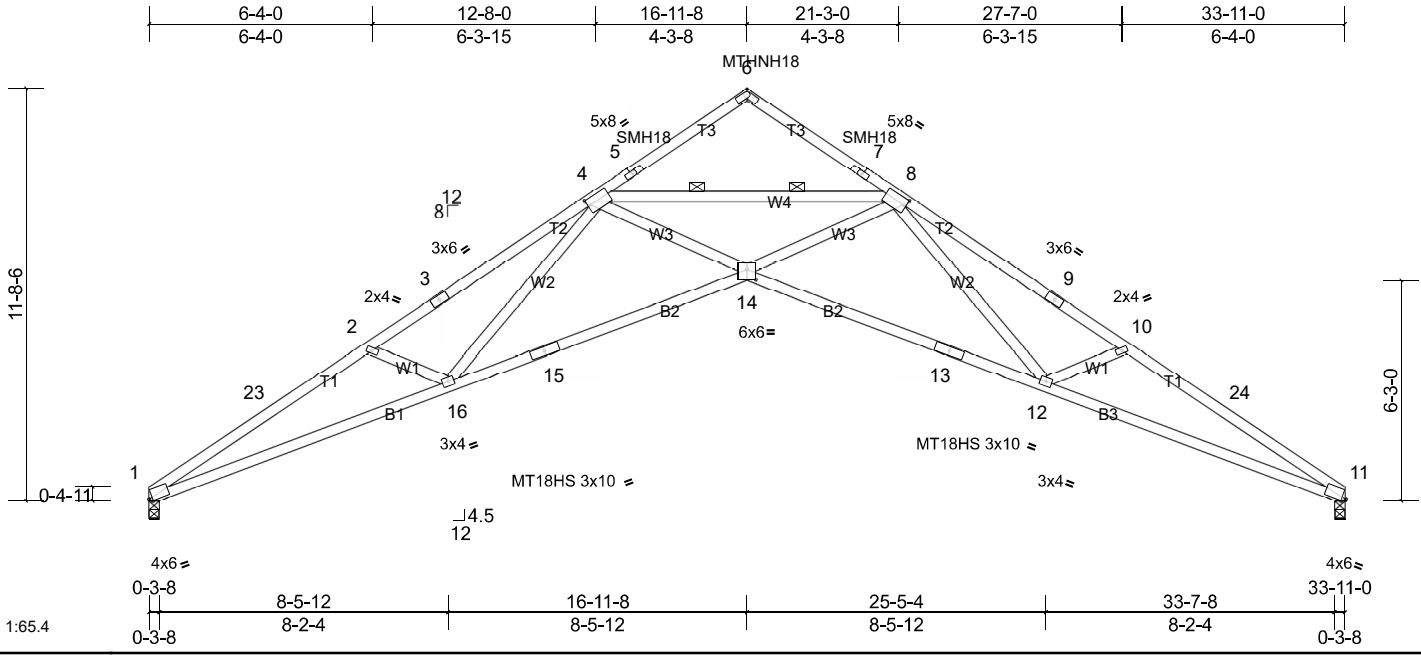


Plate Offsets (X, Y): [1:0-1-2,Edge], [4:0-0-15,0-2-4], [5:16-7-5,0-1-7], [5:16-7-5,0-1-7], [6:0-1-3,0-1-12], [6:0-1-3,0-1-12], [7:0-1-0,0-1-0], [7:0-1-0,0-1-0], [8:0-0-15,0-2-4], [11:0-1-2,Edge], [14:0-3-0,0-3-8]

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)	-0.47	12-14	>860	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-1.03	12-14	>394	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.88	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.26	12-14	>999	240		
										Weight: 169 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* T2:2x4 SP No.1  
BOT CHORD 2x4 SP No.2 \*Except\* B1,B3:2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP DSS

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 2 Rows at 1/3 pts 4-8

**REACTIONS** (lb/size) 1=1357/0-3-8, (min. 0-1-8), 11=1357/0-3-8, (min. 0-1-8)  
Max Horiz 1=-202 (LC 10)  
Max Uplift 1=-10 (LC 12), 11=-10 (LC 12)

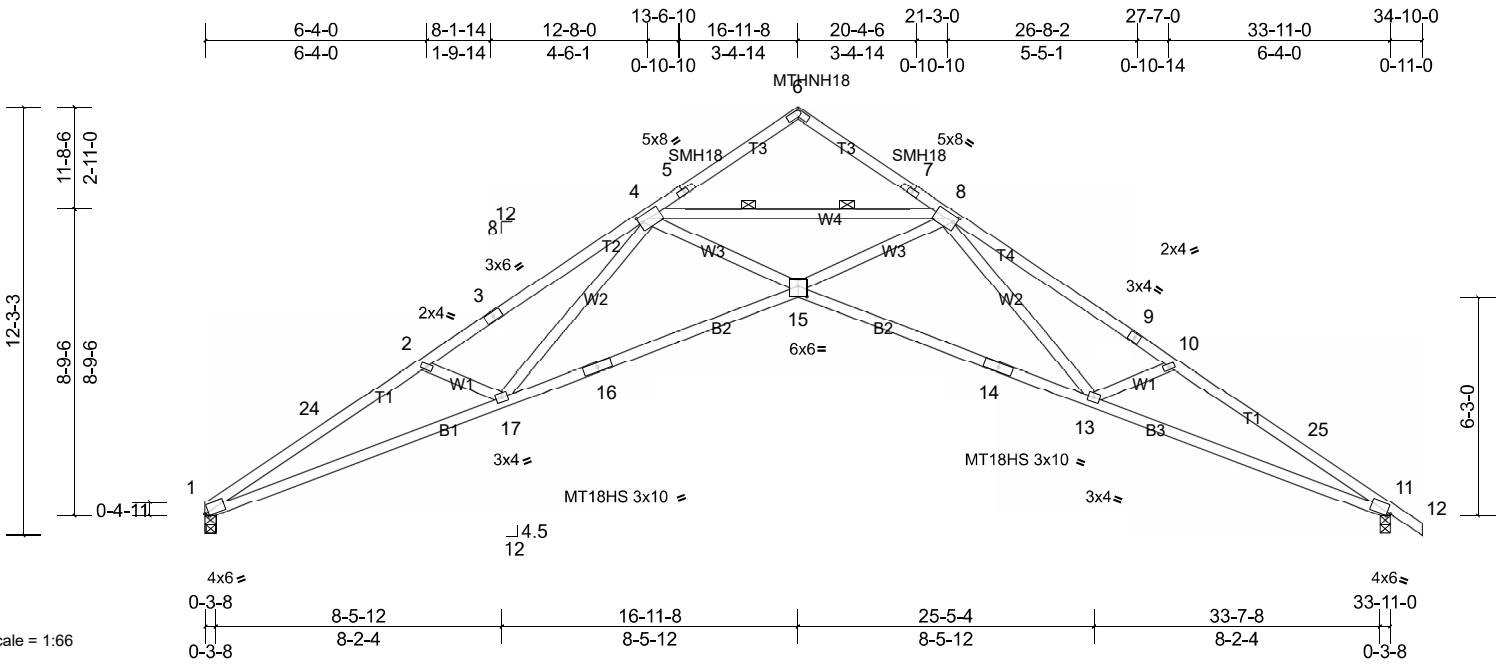
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-23=-4319/134, 2-23=-4209/155, 2-3=-3965/73, 3-4=-3856/112, 4-5=-284/44, 7-8=-284/44, 8-9=-3856/111, 9-10=-3965/72, 10-24=-4210/154, 11-24=-4319/133  
BOT CHORD 1-16=-71/3763, 15-16=0/2955, 14-15=0/2996, 13-14=0/2996, 12-13=0/2955, 11-12=-69/3763  
WEBS 4-8=-4721/0, 2-16=-341/170, 4-14=0/2389, 8-14=0/2389, 10-12=-341/170, 4-16=-50/742, 8-12=-50/742

- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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, 11 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 10 lb uplift at joint 1 and 10 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 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
  - See HINGE PLATE DETAILS for plate placement.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A05	Scissor	9	1	Job Reference (optional)



Scale = 1:66  
 Plate Offsets (X, Y): [1:0-1-2,Edge], [4:0-1-3,0-2-4], [5:16-7-5,0-1-7], [5:16-7-5,0-1-7], [6:0-1-3,0-1-12], [6:0-1-3,0-1-12], [7:0-1-0,0-1-0], [7:0-1-0,0-1-0], [8:0-1-3,0-2-4], [11:0-1-2,Edge], [15:0-3-0,0-3-8]

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)	-0.47	13-15	>861	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-1.03	13-15	>395	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.88	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.25	13-15	>999	240		

Weight: 170 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* T2,T4:2x4 SP No.1  
 BOT CHORD 2x4 SP No.2 \*Except\* B1,B3:2x4 SP No.1  
 WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP DSS

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 2 Rows at 1/3 pts 4-8

**REACTIONS** (lb/size) 1=1356/0-3-8, (min. 0-1-8), 11=1412/0-3-8, (min. 0-1-8)  
 Max Horiz 1=-209 (LC 10)  
 Max Uplift 1=-9 (LC 12), 11=-33 (LC 12)

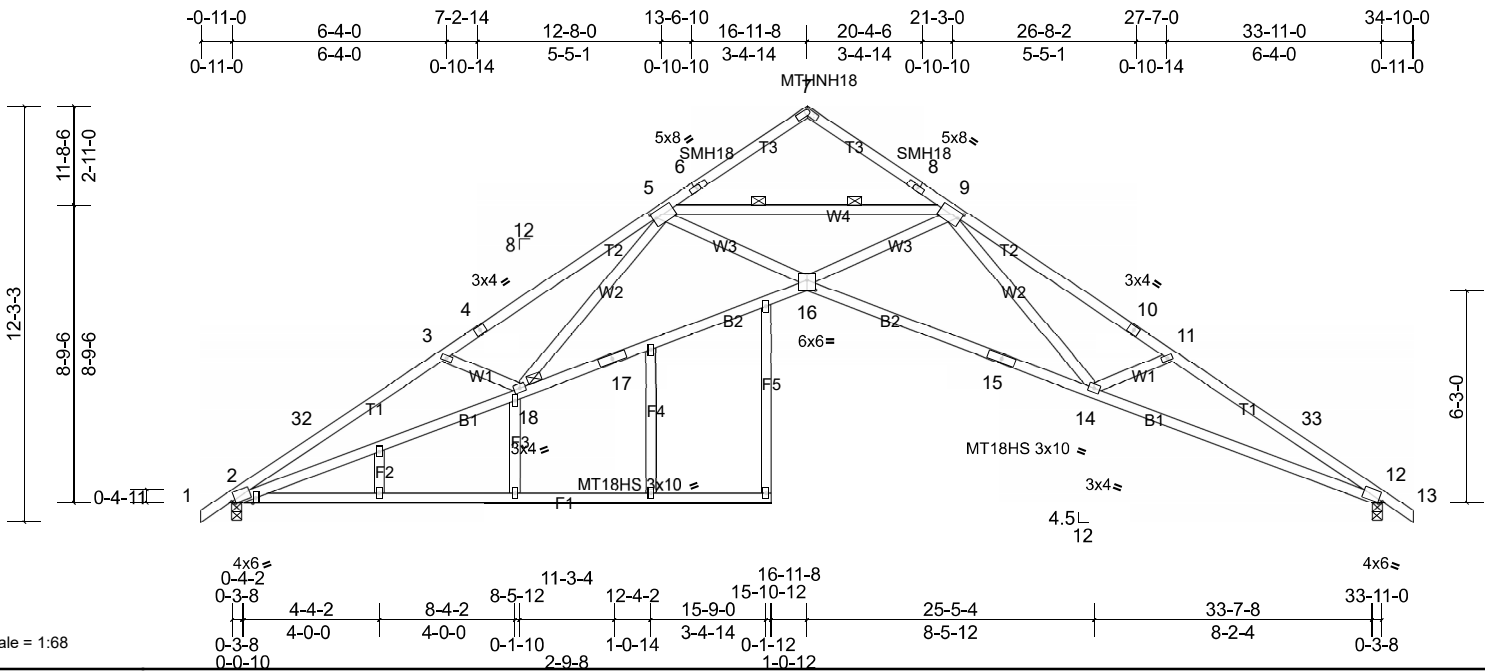
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-24=-4316/115, 2-24=-4207/137, 2-3=-3962/54, 3-4=-3853/94, 4-5=-284/44, 7-8=-284/44, 8-9=-3845/74, 9-10=-3954/35, 10-25=-4194/112, 11-25=-4305/87  
 BOT CHORD 1-17=-4137/61, 16-17=0/2953, 15-16=0/2993, 14-15=0/2991, 13-14=0/2951, 11-13=-26/3749  
 WEBS 4-8=-4715/0, 2-17=-342/170, 4-17=-51/742, 4-15=0/2386, 8-15=0/2388, 8-13=-41/734, 10-13=-338/165

- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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, 11 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 9 lb uplift at joint 1 and 33 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 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
  - See HINGE PLATE DETAILS for plate placement.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A06	Roof Special	1	1	Job Reference (optional)



Scale = 1:68

Plate Offsets (X, Y): [2:0-1-2,Edge], [5:0-1-3,0-2-4], [6:0-1-0,0-1-0], [6:0-1-0,0-1-0], [7:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-1-0,0-1-0], [8:0-1-0,0-1-0], [9:0-1-3,0-2-4], [12:0-1-2,Edge], [16:0-3-0,0-3-8]

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)	-0.46	14-16	>877	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-1.00	14-16	>406	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.86	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.24	14-16	>999	240		

Weight: 216 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* T2:2x4 SP No.1  
 BOT CHORD 2x4 SP No.1 \*Except\* F1:2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP DSS, F5,F2,F3,F4:2x4 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 2 Rows at 1/3 pts 5-9  
 JOINTS 1 Brace at Jt(s): 18

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-8), 12=1412/0-3-8, (min. 0-1-8)  
 Max Horiz 2=-212 (LC 10)  
 Max Uplift 2=-33 (LC 12), 12=-33 (LC 12)

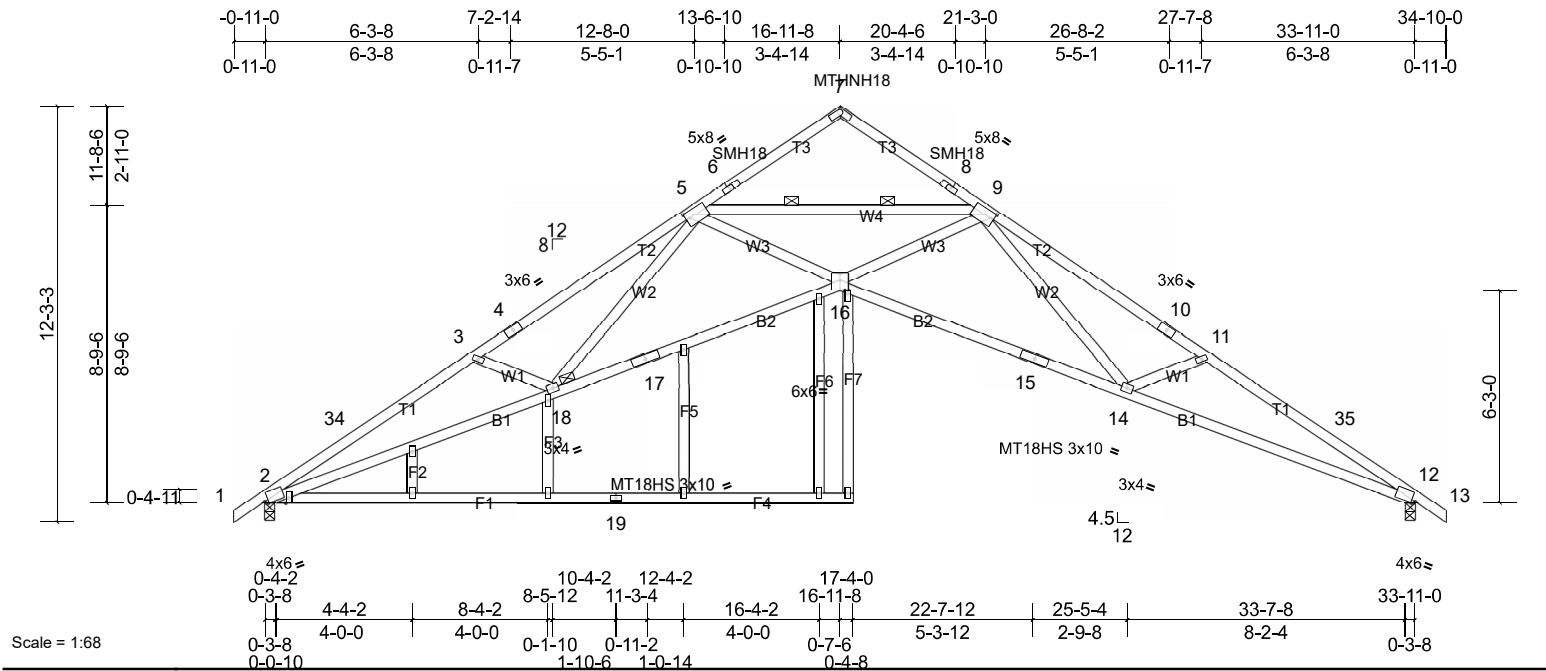
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-32=-4301/93, 3-32=-4190/118, 3-4=-3949/38, 4-5=-3840/77, 5-6=-284/44, 8-9=-284/44, 9-10=-3840/70, 10-11=-3949/31, 11-33=-4190/108, 12-33=-4301/84  
 BOT CHORD 2-18=-20/3746, 17-18=0/2948, 16-17=0/2988, 15-16=0/2988, 14-15=0/2948, 12-14=-23/3746  
 WEBS 5-9=-4710/0, 9-14=-42/732, 11-14=-338/165, 9-16=0/2385, 5-16=0/2385, 3-18=-338/164, 5-18=-41/732

- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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) 12, 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 33 lb uplift at joint 12 and 33 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.
- 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 2x4 MT20 unless otherwise indicated.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A07	Roof Special	1	1	Job Reference (optional)



Scale = 1:68  
 Plate Offsets (X, Y): [2:0-1-2,Edge], [5:0-1-3,0-2-4], [6:0-1-0,0-1-0], [6:0-1-0,0-1-0], [7:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-1-0,0-1-0], [8:0-1-0,0-1-0], [9:0-1-3,0-2-4], [12:0-1-2,Edge], [16:0-3-0,0-3-8], [16:0-1-5,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.46	14-16	>876	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-1.00	14-16	>406	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.86	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.24	14-16	>999	240		

Weight: 227 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* T2:2x4 SP No.1  
 BOT CHORD 2x4 SP No.1 \*Except\* F4,F1:2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP DSS, F7,F2,F3,F5,F6:2x4 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 2 Rows at 1/3 pts 5-9  
 JOINTS 1 Brace at Jt(s): 18

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-8), 12=1412/0-3-8, (min. 0-1-8)  
 Max Horiz 2=-212 (LC 10)  
 Max Uplift 2=-33 (LC 12), 12=-33 (LC 12)

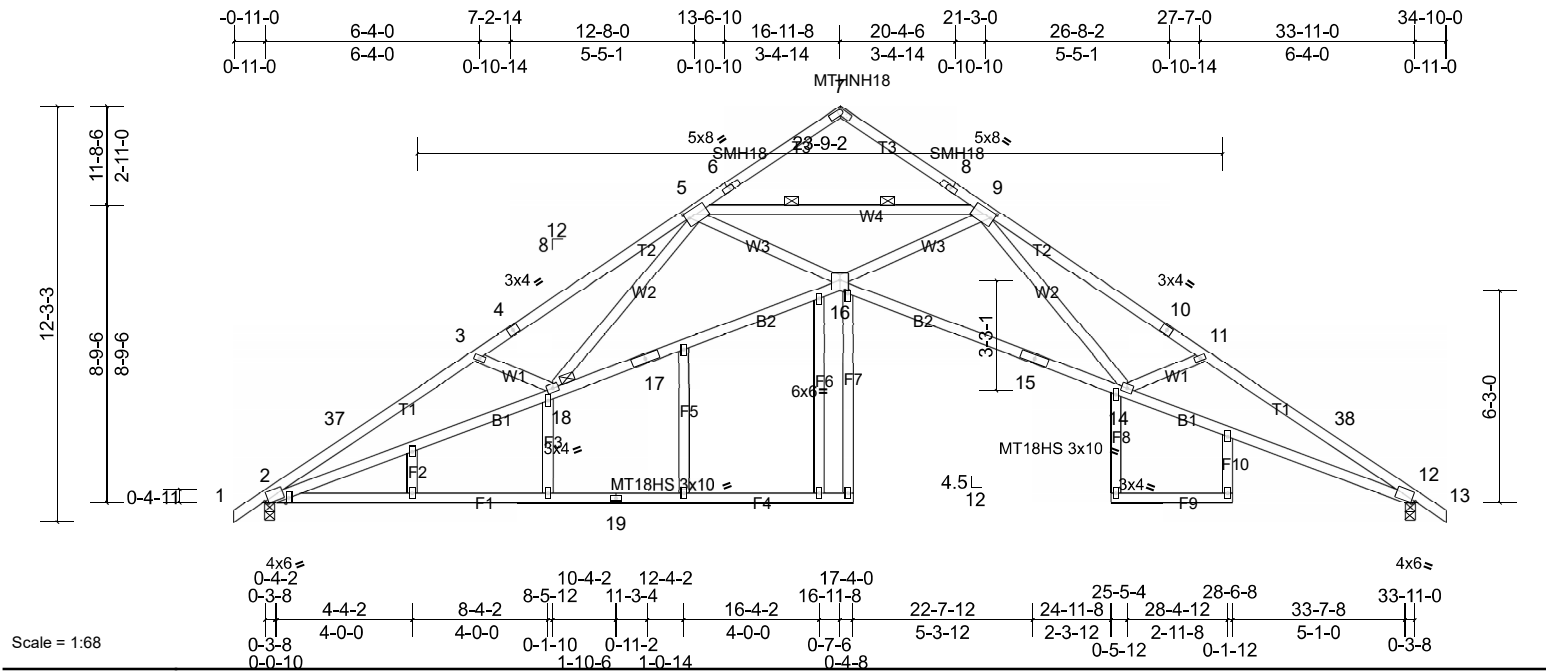
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-34=-4305/95, 3-34=-4194/119, 3-4=-3947/36, 4-5=-3837/76, 5-6=-284/44, 8-9=-284/44, 9-10=-3837/69, 10-11=-3947/29, 11-35=-4194/110, 12-35=-4305/86  
 BOT CHORD 15-16=0/2988, 14-15=0/2948, 12-14=-25/3749, 2-18=-23/3749, 17-18=0/2948, 16-17=0/2988  
 WEBS 5-9=-4710/0, 5-16=0/2385, 9-16=0/2385, 9-14=-40/728, 3-18=-342/166, 5-18=-39/728, 11-14=-342/167

- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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) 12, 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 33 lb uplift at joint 12 and 33 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.
- 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 2x4 MT20 unless otherwise indicated.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A08	Roof Special	1	1	Job Reference (optional)



Scale = 1:68  
 Plate Offsets (X, Y): [2:0-1-2,Edge], [5:0-1-3,0-2-4], [6:0-1-0,0-1-0], [6:0-1-0,0-1-0], [7:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-1-0,0-1-0], [8:0-1-0,0-1-0], [9:0-1-3,0-2-4], [12:0-1-2,Edge], [16:0-3-0,0-3-8], [16:0-1-5,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.46	14-16	>877	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-1.00	14-16	>406	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.86	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.24	14-16	>999	240		

Weight: 239 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2 \*Except\* T2:2x4 SP No.1  
 BOT CHORD 2x4 SP No.1 \*Except\* F4,F9,F1:2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\* W4:2x4 SP DSS, W3,W1,W2:2x4 SP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 2 Rows at 1/3 pts 5-9  
 JOINTS 1 Brace at Jt(s): 18

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-8), 12=1412/0-3-8, (min. 0-1-8)  
 Max Horiz 2=-212 (LC 10)  
 Max Uplift 2=-33 (LC 12), 12=-33 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-37=-4301/93, 3-37=-4190/118, 3-4=-3949/38, 4-5=-3840/77, 5-6=-284/44, 8-9=-284/44, 9-10=-3840/70, 10-11=-3949/31, 11-38=-4190/108, 12-38=-4301/84  
 BOT CHORD 15-16=0/2988, 14-15=0/2948, 12-14=-23/3746, 2-18=-20/3746, 17-18=0/2948, 16-17=0/2988  
 WEBS 5-9=-4710/0, 9-16=0/2385, 5-16=0/2385, 3-18=-338/164, 5-18=-41/732, 11-14=-338/165, 9-14=-42/732

- Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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) 12, 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 33 lb uplift at joint 12 and 33 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.
- 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 2x4 MT20 unless otherwise indicated.



Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	A09	Common	3	1	Job Reference (optional)

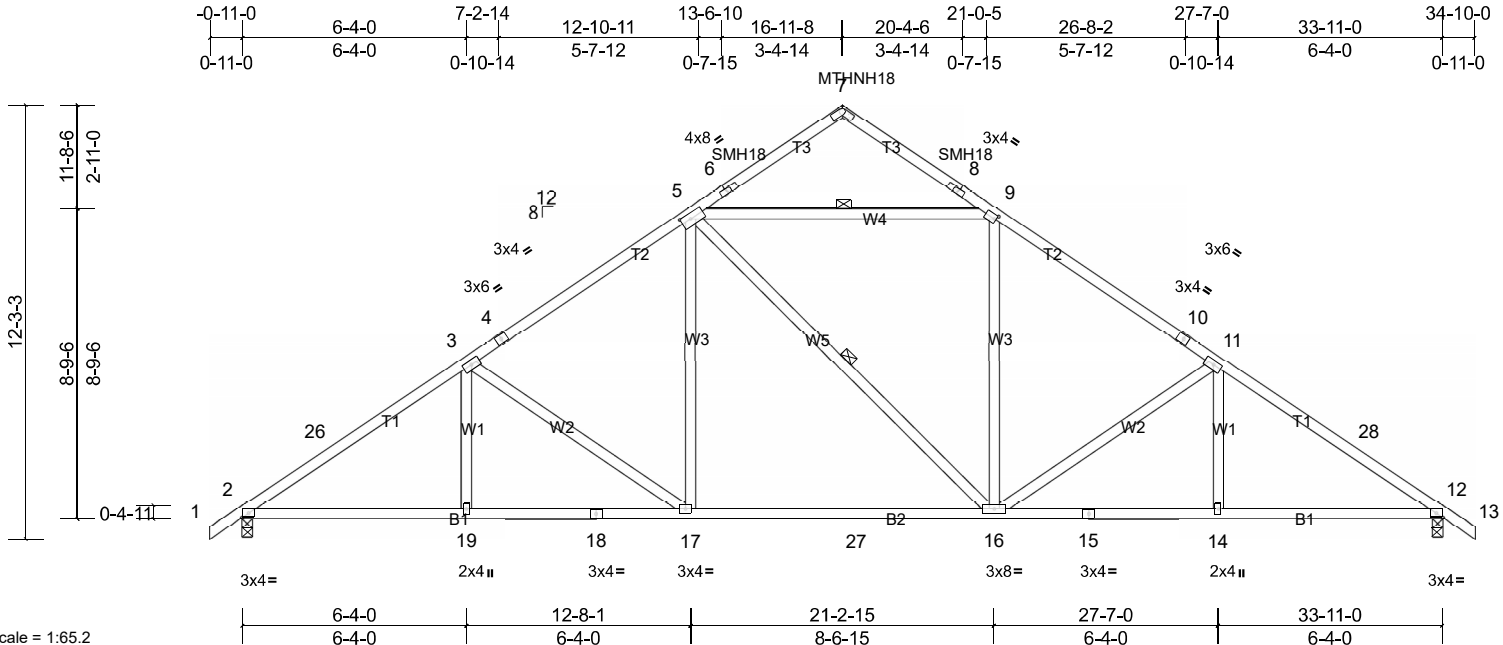


Plate Offsets (X, Y): [2:Edge,0-1-8], [5:0-3-4,0-1-12], [6:0-1-0,0-1-0], [6:0-1-0,0-1-0], [7:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-1-0,0-1-0], [8:0-1-0,0-1-0], [9:0-0-12,0-1-8], [12:0-2-4,Edge]

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	0.42	Vert(LL)	-0.20	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.38	16-17	>999	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	16-17	>999	240		Weight: 203 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W4:2x4 SP No.2

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 5-9, 5-16

**REACTIONS** (lb/size) 2=1412/0-3-8, (min. 0-1-11),  
 12=1412/0-3-8, (min. 0-1-11)  
 Max Horiz 2=-212 (LC 10)  
 Max Uplift 2=-33 (LC 12), 12=-33 (LC 12)

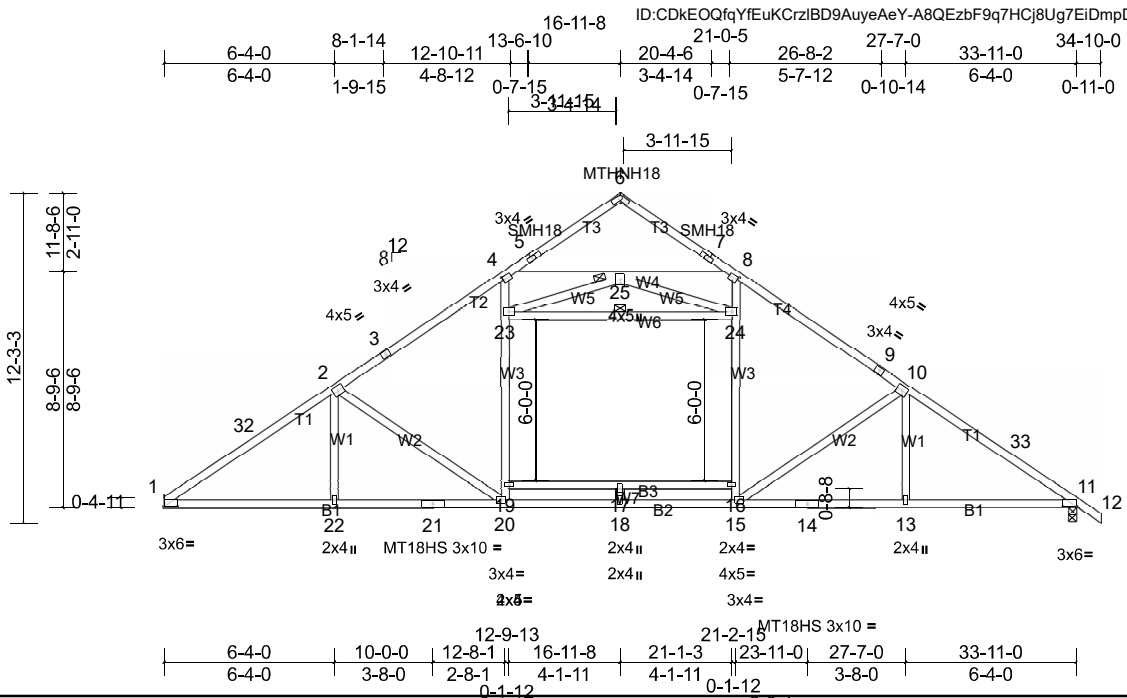
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-26=-2113/78, 3-26=-2028/104,  
 3-4=-1660/106, 4-5=-1542/145, 5-6=-284/44,  
 8-9=-286/44, 9-10=-1546/144,  
 10-11=-1661/107, 11-28=-2026/104,  
 12-28=-2112/78  
 BOT CHORD 2-19=-3/1763, 18-19=0/1763, 17-18=0/1763,  
 17-27=0/1368, 16-27=0/1368, 15-16=0/1686,  
 14-15=0/1686, 12-14=0/1686  
 WEBS 5-9=-1138/158, 9-16=0/502, 5-17=0/545,  
 11-16=-487/97, 3-17=-493/99

- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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 33 lb uplift at joint 2 and 33 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 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

- 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=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
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
  - See HINGE PLATE DETAILS for plate placement.

Job Q2301429	Truss A10	Truss Type Common	Qty 7	Ply 1	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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Scale = 1:85.7

Plate Offsets (X, Y): [1:0-6-0,0-0-4], [2:0-0-0,0-0-0], [4:0-0-12,0-1-8], [5:0-1-0,0-1-0], [5:0-1-0,0-1-0], [6:0-1-3,0-1-12], [6:0-1-3,0-1-12], [7:0-1-0,0-1-0], [7:0-1-0,0-1-0], [8:0-0-12,0-1-8], [11:0-6-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.54	20-22	>757	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.63	18-20	>645	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.33	20-22	>999	240		

Weight: 222 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* B2:2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W4,W3:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 23-24  
JOINTS 1 Brace at Jt(s): 25

**REACTIONS** (lb/size) 1=1442/ Mechanical, (min. 0-1-8), 11=1498/0-3-8, (min. 0-1-15)  
Max Horiz 1=-209 (LC 10)  
Max Grav 1=1569 (LC 17), 11=1620 (LC 18)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-32=-2488/1, 2-32=-2404/24, 2-3=-2124/16, 3-4=-2028/53, 4-5=-286/44, 7-8=-286/44, 8-9=-2028/50, 9-10=-2124/12, 10-33=-2412/14, 11-33=-2483/0  
BOT CHORD 1-22=7/2155, 21-22=0/2155, 20-21=0/2155, 18-20=0/1705, 15-18=0/1705, 14-15=0/1990, 13-14=0/1990, 11-13=0/1990  
WEBS 4-25=-1654/82, 8-25=-1652/82, 19-20=0/614, 19-23=0/759, 4-23=0/793, 15-16=0/614, 16-24=0/759, 8-24=0/793, 10-15=-528/102, 2-20=-534/111

**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) All plates are MT20 plates unless otherwise indicated.

- 4) Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with MiTek NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (6 Nails per side 12 nails total).
- 5) See HINGE PLATE DETAILS for plate placement.
- 6) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 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

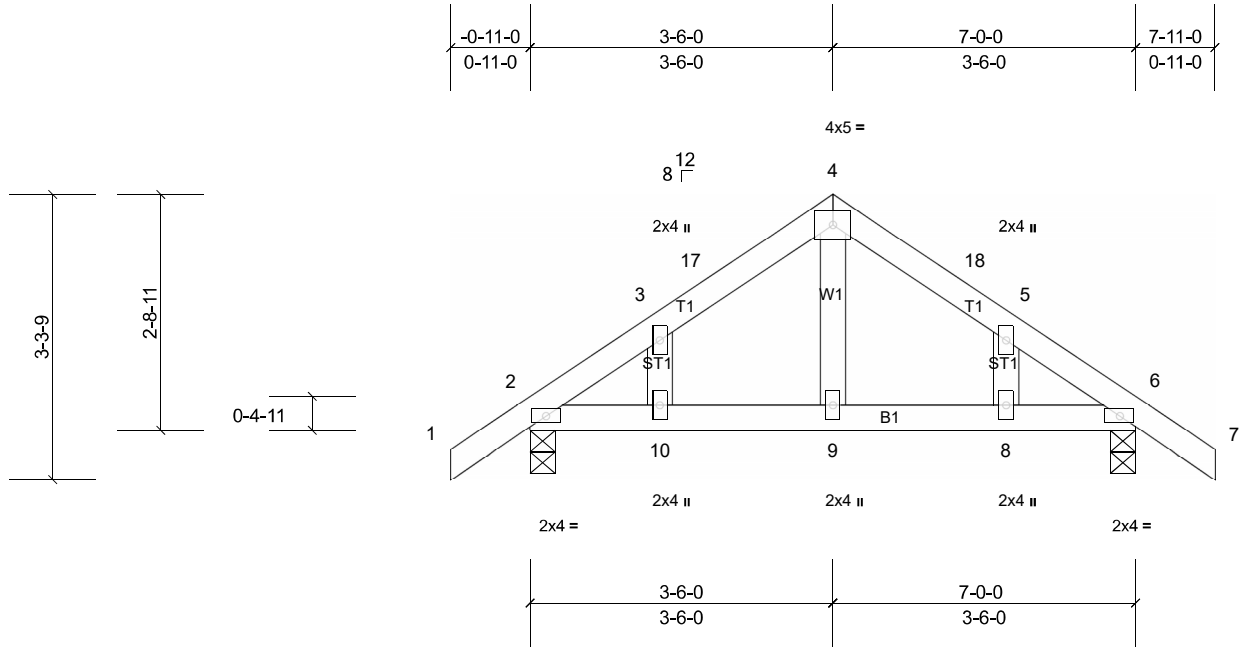
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	B01	Common Structural Gable	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:26.6

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	0.09	Vert(LL)	-0.01	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.01	8	>999	240	Weight: 32 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** (lb/size) 2=325/0-3-8, (min. 0-1-8),  
6=325/0-3-8, (min. 0-1-8)  
Max Horiz 2=49 (LC 11)  
Max Uplift 2=-82 (LC 12), 6=-82 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.  
TOP CHORD 2-3=-273/172, 3-17=-276/197,  
4-17=-254/205, 4-18=-254/205,  
5-18=-276/197, 5-6=-273/172

- 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 3-6-0, Exterior (2) 3-6-0 to  
6-7-8, Interior (1) 6-7-8 to 7-11-0 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) 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) 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 82 lb uplift at joint  
2 and 82 lb uplift at joint 6.

- 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

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	C01	Common Structural Gable	1	1	Job Reference (optional)

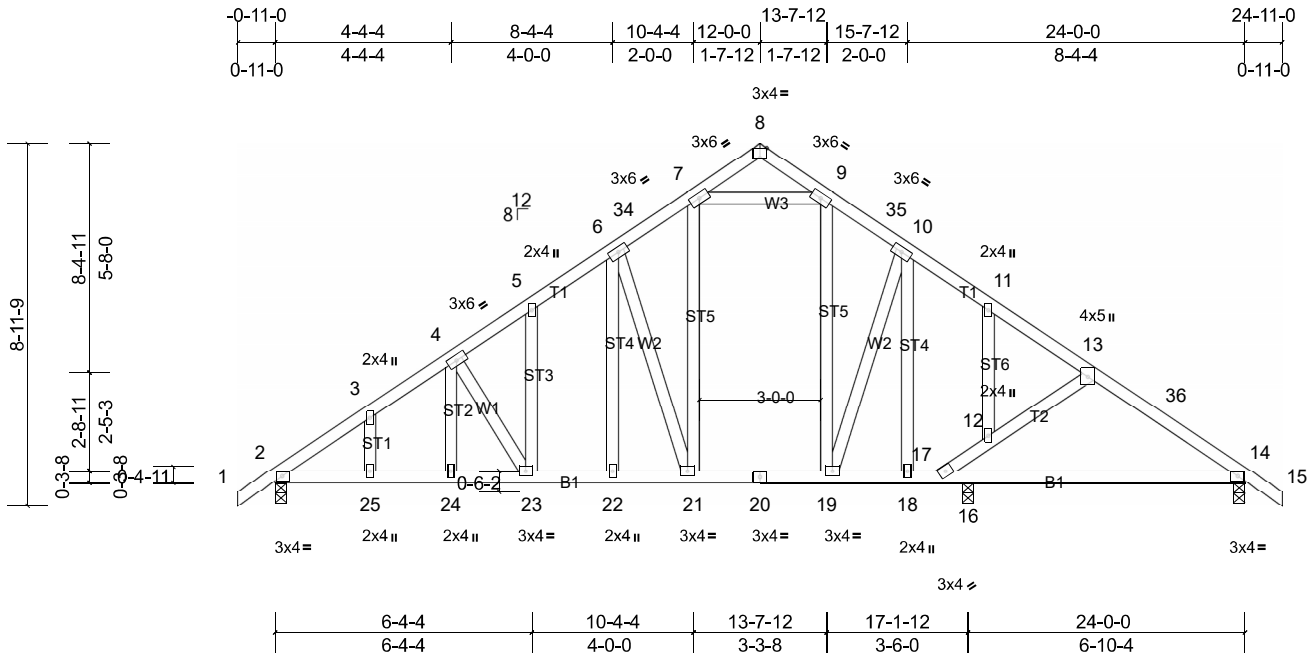


Plate Offsets (X, Y): [8:0-2-0,Edge]

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	Vert(LL)	-0.07	23	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.13	23-24	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.03	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.08	23-24	>999	240	Weight: 169 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** (lb/size) 2=849/0-3-8, (min. 0-1-8),  
 14=648/0-3-8, (min. 0-1-8),  
 16=469/0-3-8, (min. 0-1-8)  
 Max Horiz 2=142 (LC 11)  
 Max Uplift 2=-192 (LC 12), 14=-139 (LC 12),  
 16=-122 (LC 12)  
 Max Grav 2=849 (LC 1), 14=648 (LC 1),  
 16=491 (LC 22)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1187/552, 3-4=-1141/569, 4-5=-977/497,  
 5-6=-855/457, 6-34=-761/428,  
 7-34=-703/440, 9-35=-603/390,  
 10-35=-661/379, 10-11=-659/350,  
 11-13=-644/306, 13-36=-774/339,  
 14-36=-818/322, 12-17=-269/137  
 BOT CHORD 2-25=-405/949, 24-25=-405/949,  
 23-24=-405/949, 22-23=-268/744,  
 21-22=-268/744, 20-21=-151/554,  
 19-20=-151/554, 18-19=-129/504,  
 17-18=-129/504, 16-17=-218/651,  
 14-16=-218/651  
 WEBS 6-22=-213/322, 7-21=-283/394,  
 7-9=-478/337, 4-23=-369/247, 6-21=-599/360

- 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 2-4-4, Interior (1) 2-4-4 to 12-0-0, Exterior (2) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 24-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2, 139 lb uplift at joint 14 and 122 lb uplift at joint 16.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

**LOAD CASE(S)** Standard

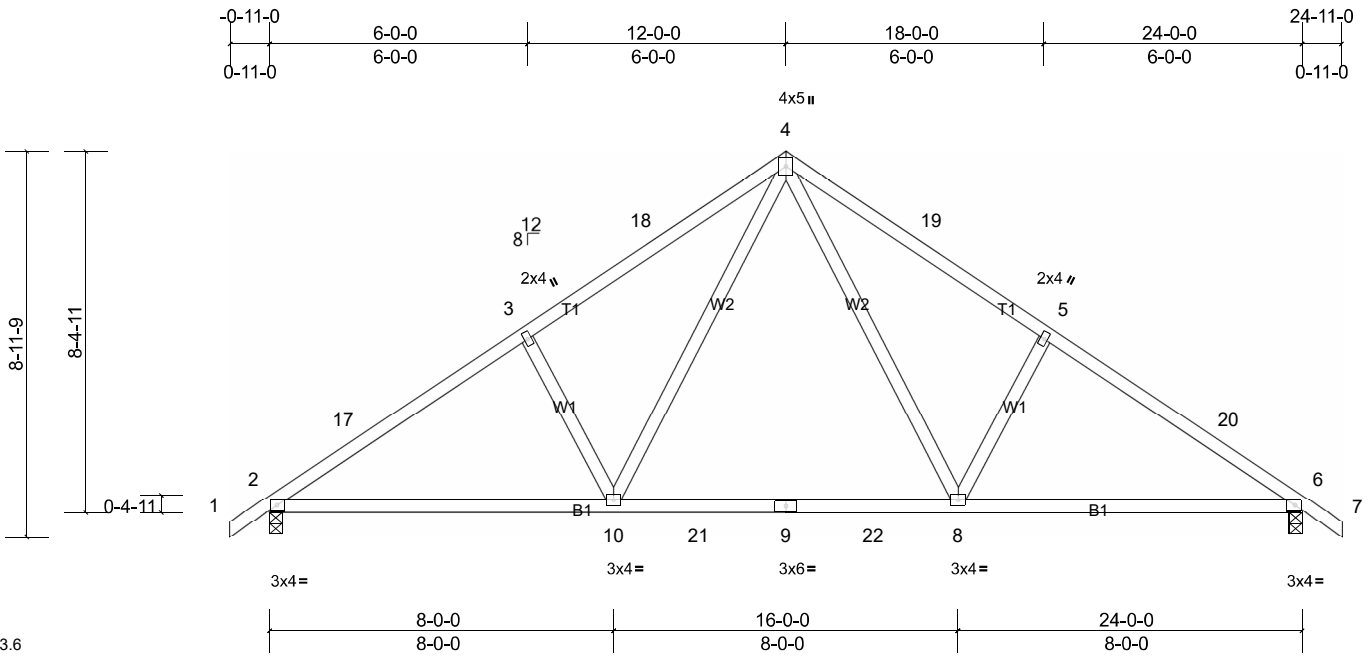
Job Q2301429	Truss C02	Truss Type Common	Qty 3	Ply 1	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:53.6

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	0.39	Vert(LL)	-0.19	8-10	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.27	8-10	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.13	10-13	>999	240	Weight: 121 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=1015/0-3-8, (min. 0-1-8),  
 6=1015/0-3-8, (min. 0-1-8)  
 Max Horiz 2=146 (LC 11)  
 Max Uplift 2=-234 (LC 12), 6=-234 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-1381/639, 3-17=-1326/664,  
 3-18=-1252/686, 4-18=-1143/722,  
 4-19=-1143/722, 5-19=-1252/686,  
 5-20=-1326/664, 6-20=-1381/639  
 BOT CHORD 2-10=-473/1103, 10-21=-233/720,  
 9-21=-233/720, 9-22=-233/720,  
 8-22=-233/720, 6-8=-479/1103  
 WEBS 4-8=-389/549, 5-8=-344/160, 4-10=-389/549,  
 3-10=-344/160

- 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 12-0-0, Exterior (2) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 24-11-0 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 234 lb uplift at joint 2 and 234 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

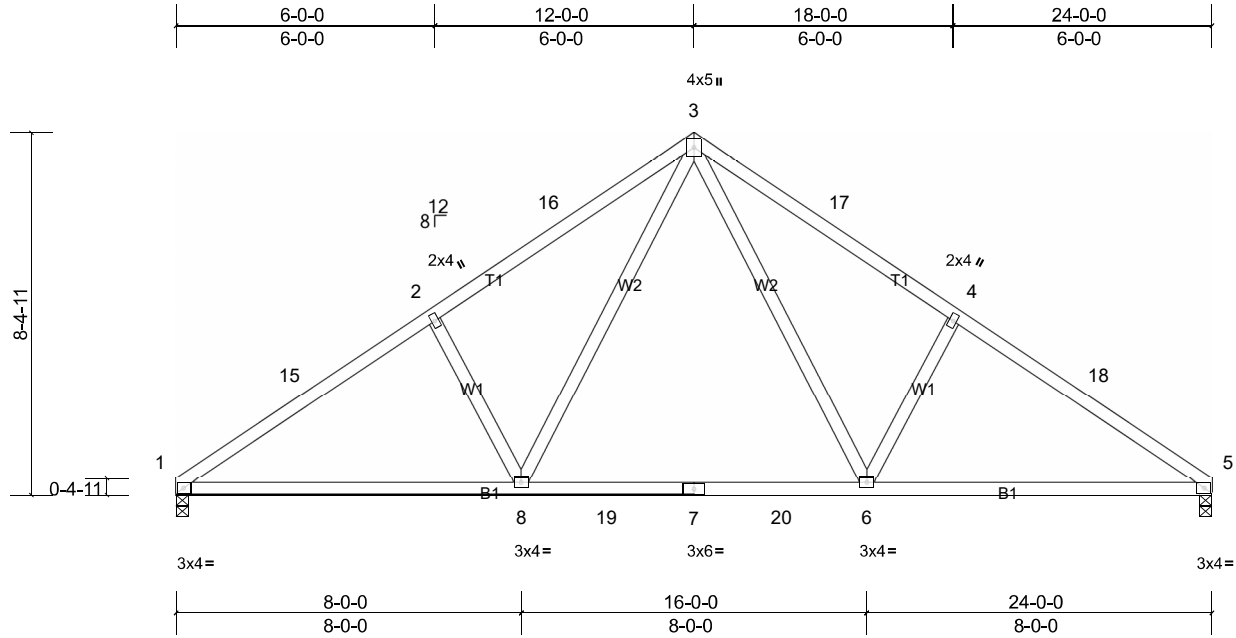
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	C03	Common	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:53.4

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	0.40	Vert(LL)	-0.19	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.27	6-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.14	8-11	>999	240	Weight: 118 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) 1=960/0-3-8, (min. 0-1-8),  
 5=960/0-3-8, (min. 0-1-8)  
 Max Horiz 1=-136 (LC 10)  
 Max Uplift 1=-211 (LC 12), 5=-211 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-15=-1387/647, 2-15=-1318/672,  
 2-16=-1259/694, 3-16=-1150/731,  
 3-17=-1150/731, 4-17=-1259/694,  
 4-18=-1318/672, 5-18=-1387/647  
 BOT CHORD 1-8=-495/1110, 8-19=-248/723,  
 7-19=-248/723, 7-20=-248/723,  
 6-20=-248/723, 5-6=-495/1110  
 WEBS 3-6=-391/554, 4-6=-348/161, 3-8=-391/554,  
 2-8=-348/161

- 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 12-0-0, Exterior (2) 12-0-0 to 15-0-0,  
 Interior (1) 15-0-0 to 24-0-0 zone; cantilever left and right  
 exposed; end vertical left and right exposed; porch left  
 and right exposed; C-C for members and forces &  
 MWFRS for reactions shown; Lumber DOL=1.60 plate  
 grip DOL=1.60
  - 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 211 lb uplift at joint  
 1 and 211 lb uplift at joint 5.

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

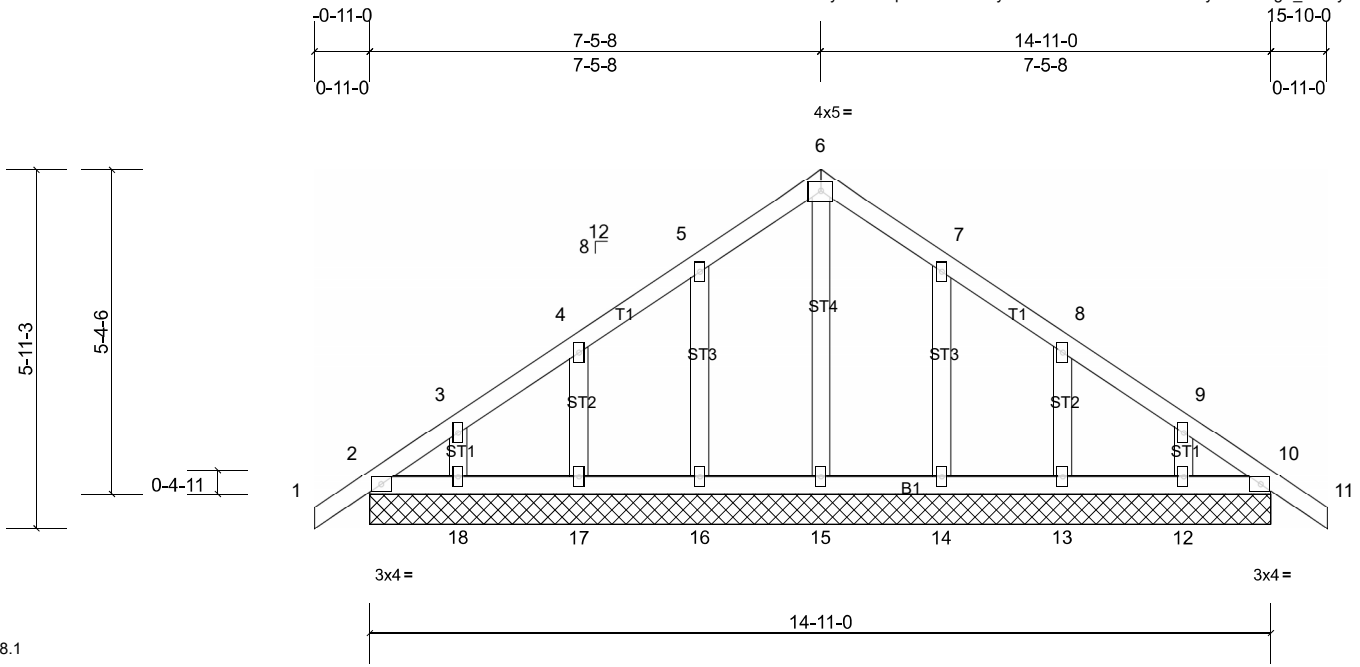
Job Q2301429	Truss D01	Truss Type Common Supported Gable	Qty 1	Ply 1	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:38.1

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	23	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 79 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=-92 (LC 10), 19=-92 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s)  
 2, 10, 12, 13, 14, 16, 17, 18, 19, 23  
 Max Grav All reactions 250 (lb) or less at joint  
 (s) 2, 10, 12, 13, 14, 15, 16, 17, 18,  
 19, 23

**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, 10, 16, 17, 18, 14, 13, 12, 2, 10.

- 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

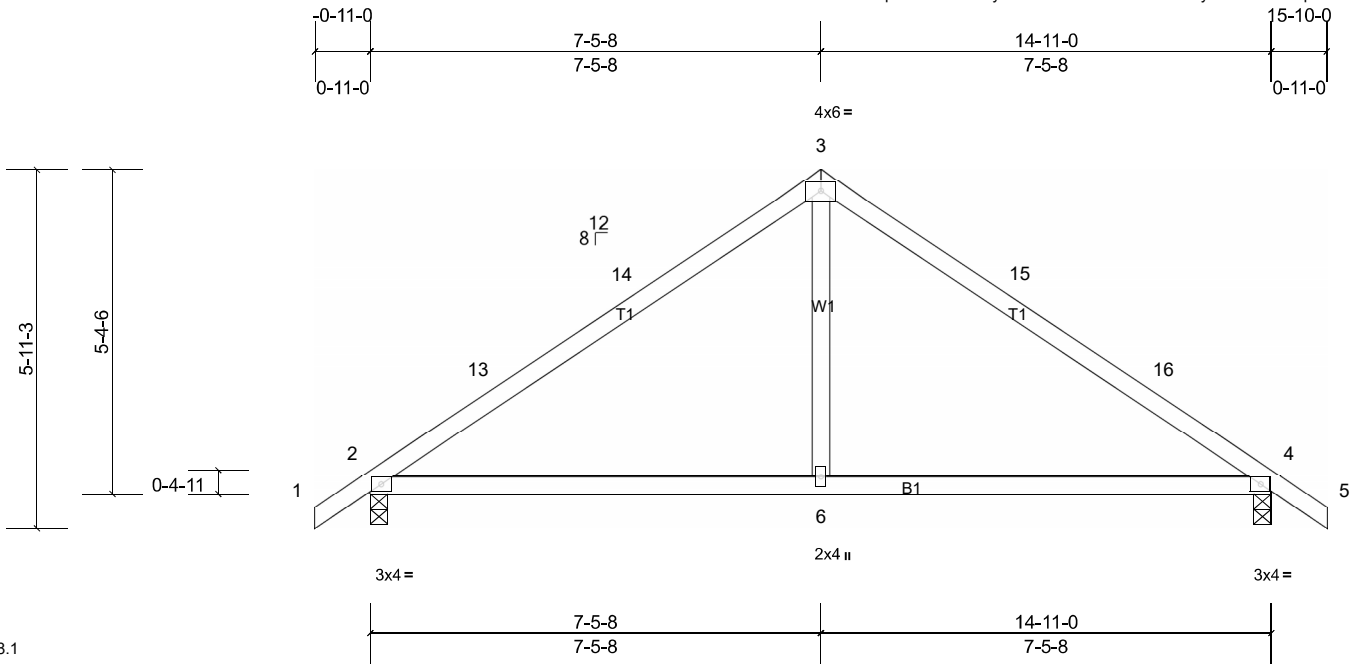
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	D02	Common	1	1	Job Reference (optional)

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	Vert(LL)	-0.08	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.16	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)	0.05	6-9	>999	240	Weight: 60 lb	FT = 20%

**LUMBER** **LOAD CASE(S)** Standard

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=652/0-3-8, (min. 0-1-8),  
 4=652/0-3-8, (min. 0-1-8)  
 Max Horiz 2=95 (LC 10)  
 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=-730/39, 13-14=-624/51, 3-14=-594/75,  
 3-15=-594/75, 15-16=-624/51, 4-16=-730/39  
 BOT CHORD 2-6=-5/519, 4-6=0/519  
 WEBS 3-6=0/344

- 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.
  - 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.



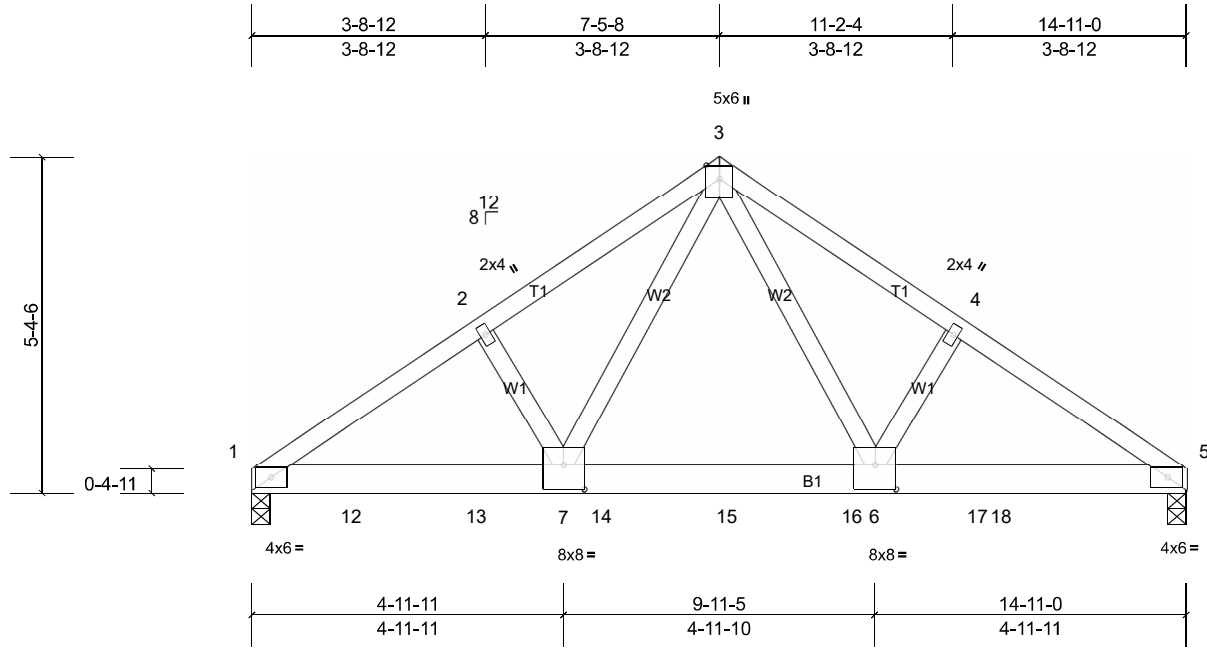
Job Q2301429	Truss D03	Truss Type Common Girder	Qty 1	Ply 3	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:36.8

Plate Offsets (X, Y): [6:0-4-0,0-4-12], [7:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.07	6-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.15	6-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS	Wind(LL)	0.01	6-11	>999	240	Weight: 254 lb	FT = 20%

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

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

**REACTIONS** (lb/size) 1=5700/0-3-8, (min. 0-2-6),  
 5=6784/0-3-8, (min. 0-2-13)  
 Max Horiz 1=85 (LC 7)  
 Max Grav 1=6090 (LC 13), 5=7100 (LC 14)

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

TOP CHORD 1-2=-8952/0, 2-3=-8605/0, 3-4=-9209/0,  
 4-5=-9264/0

BOT CHORD 1-12=0/7289, 12-13=0/7289, 7-13=0/7289,  
 7-14=0/4980, 14-15=0/4980, 15-16=0/4980,  
 6-16=0/4980, 6-17=0/7749, 17-18=0/7749,  
 5-18=0/7749

WEBS 3-6=0/5973, 4-6=-326/55, 3-7=0/4856,  
 2-7=-283/51

**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) 1549 lb down at 1-7-0, 1549 lb down at 3-7-0, 1549 lb down at 5-7-0, 1549 lb down at 7-7-0, 1549 lb down at 9-7-0, 1549 lb down at 11-7-0, and 1549 lb down at 11-11-9, and 1339 lb down and 20 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=-60, 3-5=-60, 1-5=-20  
 Concentrated Loads (lb)  
 Vert: 11=-1339, 12=-1422, 13=-1422, 14=-1422,  
 15=-1422, 16=-1422, 17=-1422, 18=-1422

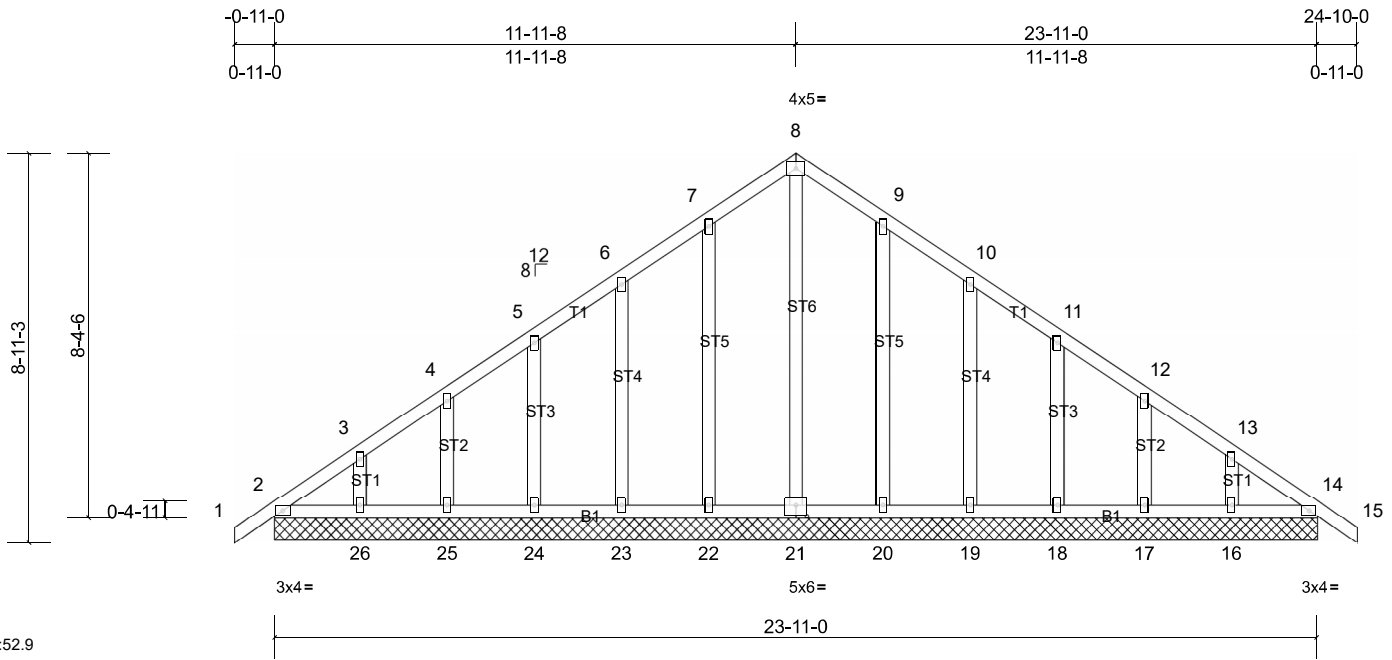
Job Q2301429	Truss E01	Truss Type Common Supported Gable	Qty 1	Ply 1	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:52.9

Plate Offsets (X, Y): [21:0-3-0,0-3-0]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS								
											Weight: 150 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 23-11-0.  
(b) - Max Horiz 2--141 (LC 10), 27--141 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
2, 16, 17, 18, 19, 20, 22, 23, 24,  
25, 26, 27  
Max Grav All reactions 250 (lb) or less at joint  
(s) 2, 14, 16, 17, 18, 19, 20, 21, 22,  
23, 24, 25, 26, 27, 31

**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 1-11-8, Exterior (2) 1-11-8 to 11-11-8, Corner (3) 11-11-8 to 14-11-8, Exterior (2) 14-11-8 to 24-10-0 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, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 2.
  - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 31.
  - 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

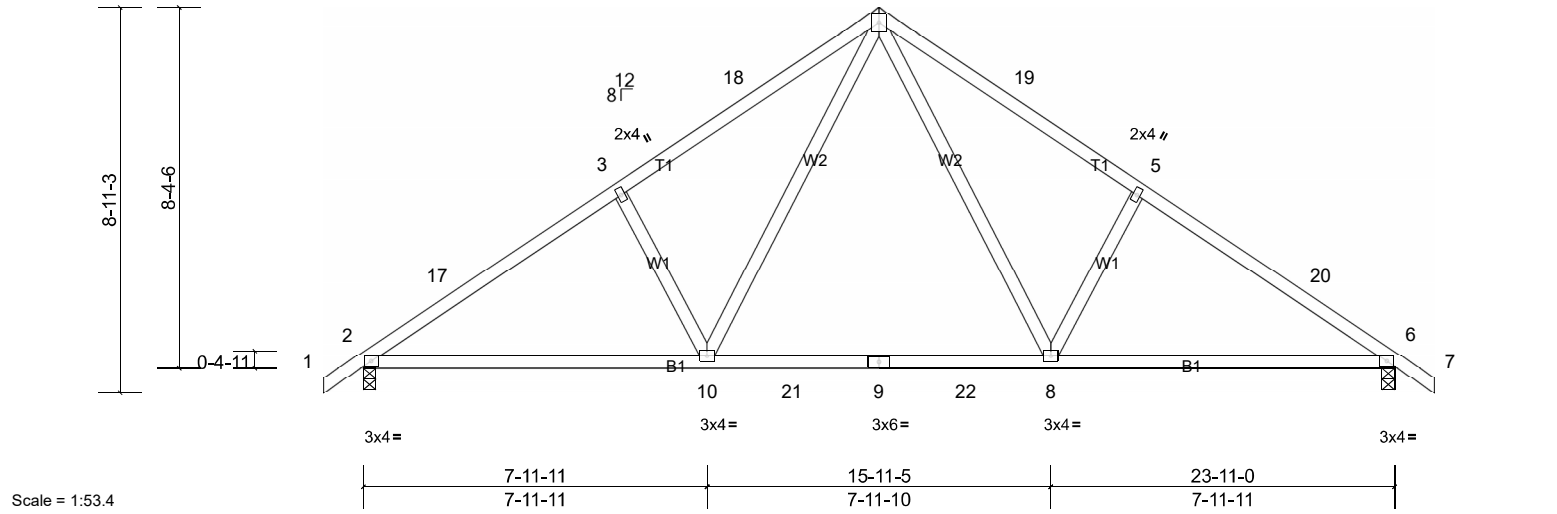
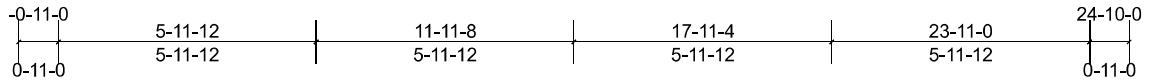
Job Q2301429	Truss E02	Truss Type Common	Qty 11	Ply 1	Value Build Homes - Wendt 05-24-107 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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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	0.39	Vert(LL)	-0.19	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.27	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.04	10-13	>999	240	Weight: 121 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=1012/0-3-8, (min. 0-1-8),  
 6=1012/0-3-8, (min. 0-1-8)  
 Max Horiz 2=-146 (LC 10)  
 Max Uplift 2=-30 (LC 12), 6=-30 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-1376/58, 3-17=-1321/92,  
 3-18=-1247/126, 4-18=-1143/146,  
 4-19=-1143/146, 5-19=-1247/126,  
 5-20=-1321/92, 6-20=-1376/58  
 BOT CHORD 2-10=-1/1168, 10-21=0/754, 9-21=0/754,  
 9-22=0/754, 8-22=0/754, 6-8=0/1099  
 WEBS 4-8=-29/595, 5-8=-343/135, 4-10=-29/595,  
 3-10=-343/135

- 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 11-11-8, Exterior (2) 11-11-8 to 14-11-8, Interior (1) 14-11-8 to 24-10-0 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 30 lb uplift at joint 2 and 30 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.

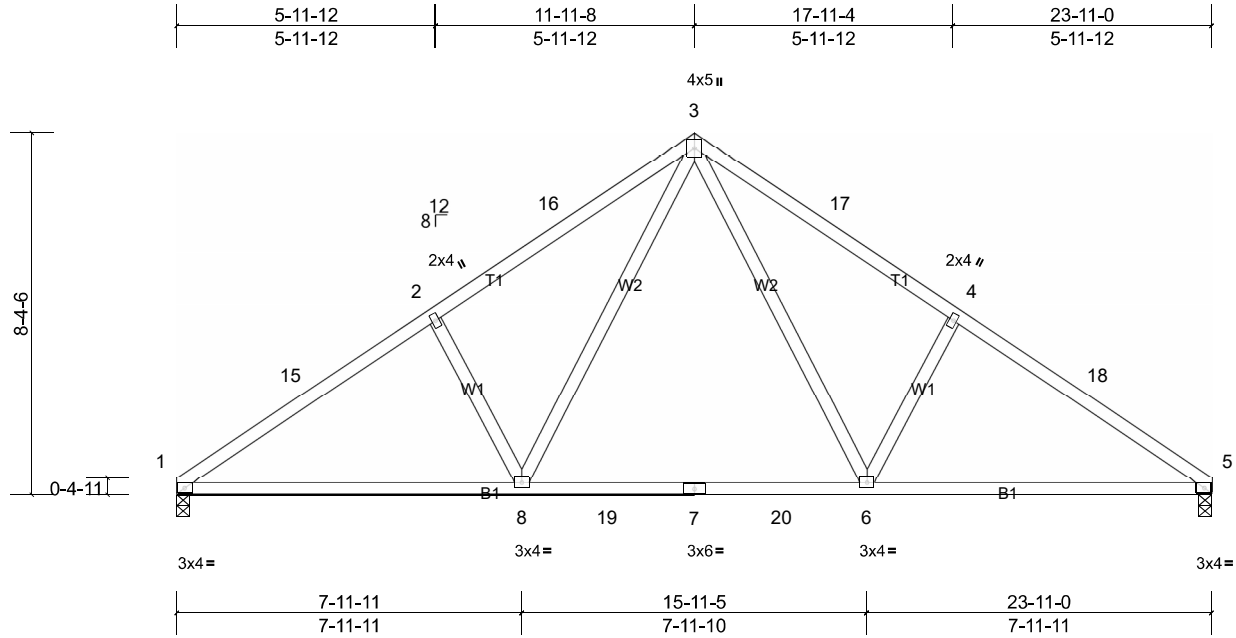
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	E03	Common	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:53.3

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	0.40	Vert(LL)	-0.19	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.27	6-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.04	8-11	>999	240	Weight: 117 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) 1=957/0-3-8, (min. 0-1-8),  
 5=957/0-3-8, (min. 0-1-8)  
 Max Horiz 1=136 (LC 11)  
 Max Uplift 1=-7 (LC 12), 5=-7 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-15=-1382/79, 2-15=-1313/100,  
 2-16=-1254/135, 3-16=-1148/155,  
 3-17=-1148/155, 4-17=-1254/135,  
 4-18=-1313/100, 5-18=-1382/79  
 BOT CHORD 1-8=-32/1168, 8-19=0/750, 7-19=0/750,  
 7-20=0/750, 6-20=0/750, 5-6=-8/1106  
 WEBS 3-6=-31/600, 4-6=-346/137, 3-8=-31/600,  
 2-8=-346/137

- 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 11-11-8, Exterior (2) 11-11-8 to 14-11-8, Interior (1) 14-11-8 to 23-11-0 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
  - 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 7 lb uplift at joint 1 and 7 lb uplift at joint 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.

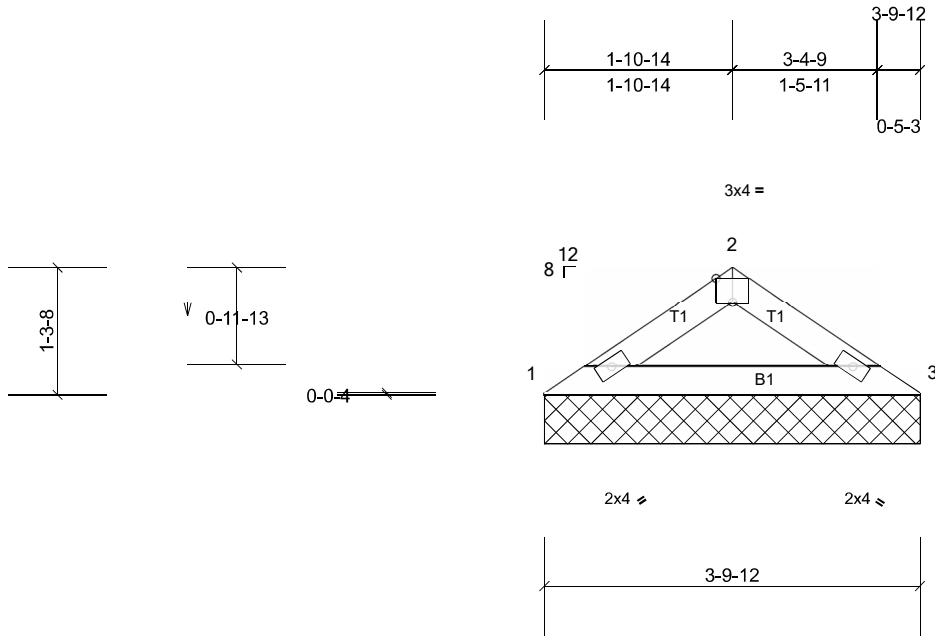
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	V01	Valley	3	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:23.4

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	1.00	TC	0.11	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 11 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 3-9-12 oc purlins.

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

**REACTIONS** (lb/size) 1=153/3-9-12, (min. 0-1-8),

3=153/3-9-12, (min. 0-1-8)

Max Horiz 1=19 (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.

**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) 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

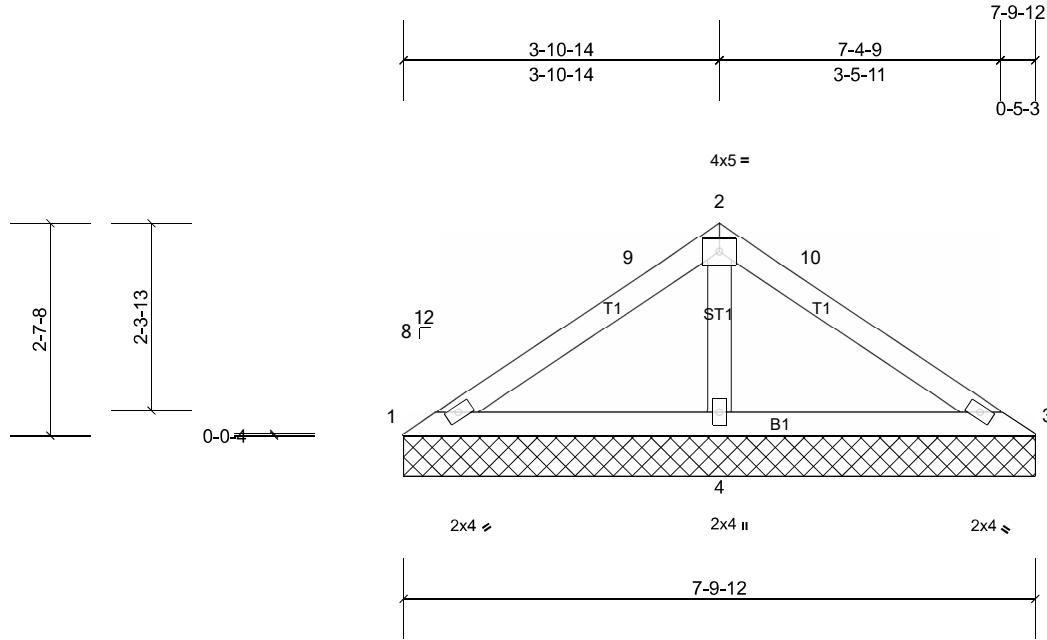
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	V02	Valley	3	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:28.5

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	0.18	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	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 27 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.3  
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** (lb/size) 1=41/7-9-12, (min. 0-1-8),  
3=41/7-9-12, (min. 0-1-8),  
4=543/7-9-12, (min. 0-1-8)  
Max Horiz 1=-42 (LC 10)  
Max Uplift 1=-8 (LC 22), 3=-8 (LC 21), 4=-19 (LC 12)  
Max Grav 1=70 (LC 21), 3=70 (LC 22), 4=543 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-393/96

- 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) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 3-11-4, Exterior (2) 3-11-4 to 6-10-15, Interior (1) 6-10-15 to 7-10-2 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 8 lb uplift at joint 1, 8 lb uplift at joint 3 and 19 lb uplift at joint 4.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

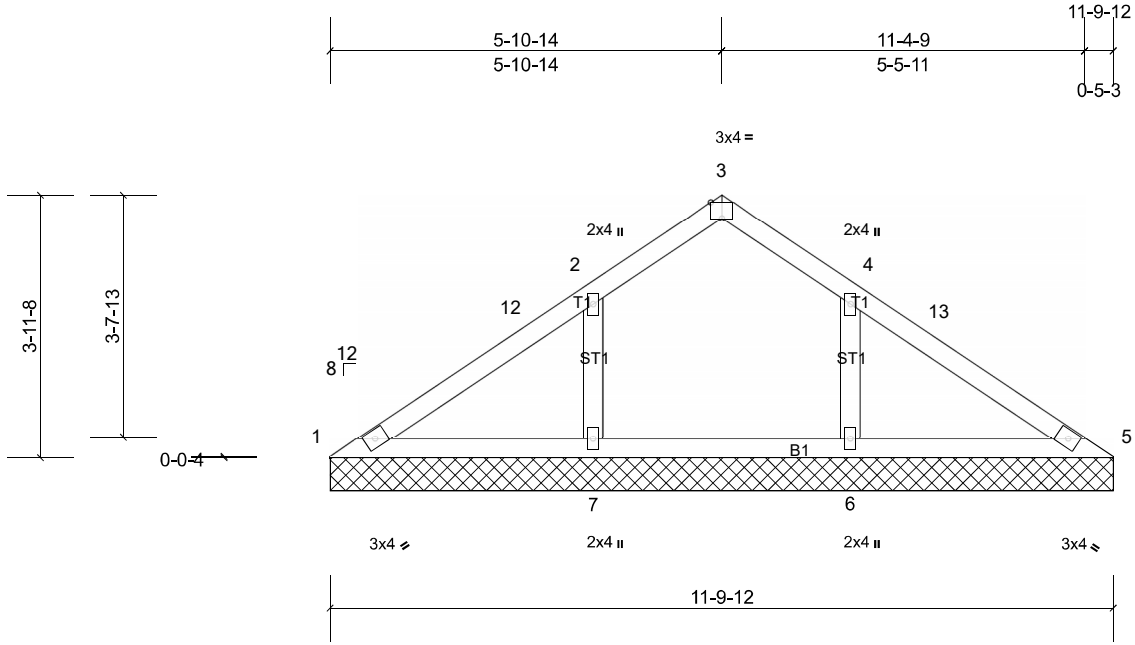
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	V03	Valley	3	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:34.8

Plate Offsets (X, Y): [3:0-2-0,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	0.17	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	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 43 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.3  
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 11-9-12.  
(lb) - Max Horiz 1=64 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s) 6, 7  
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=341 (LC 1), 7=341 (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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 5-11-4, Exterior (2) 5-11-4 to 8-11-4, Interior (1) 8-11-4 to 11-10-2 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) 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.

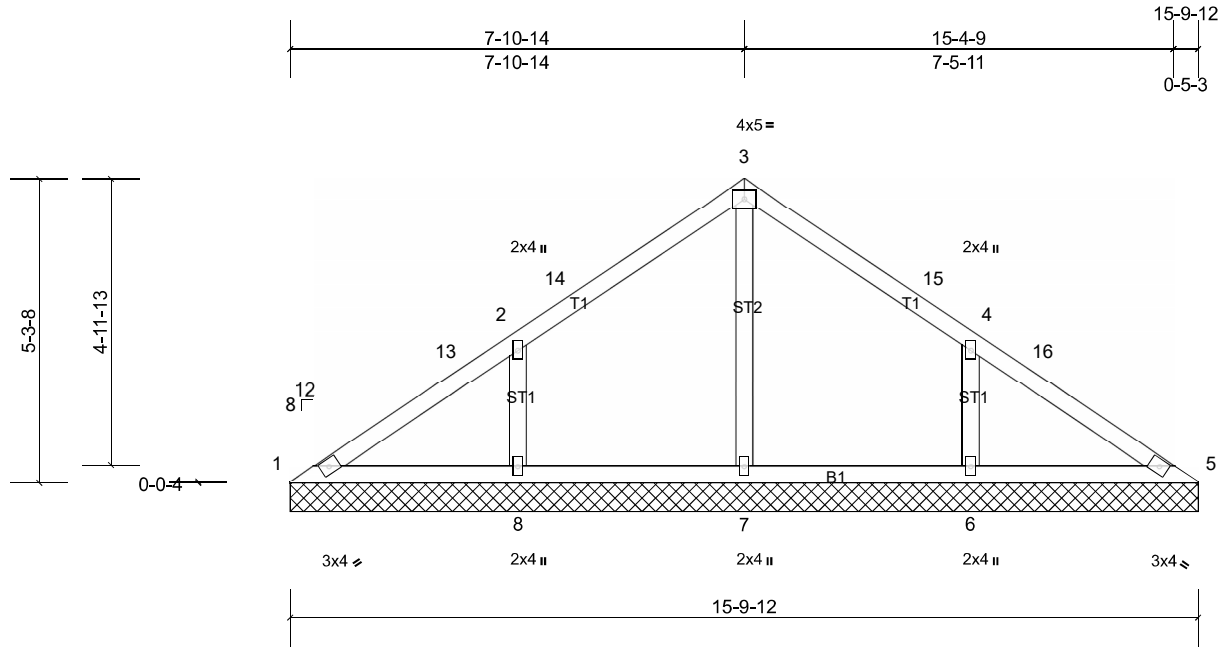
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	V04	Valley	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:40.1

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	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 63 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 15-9-12.  
(lb) - Max Horiz 1=-87 (LC 10)  
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=370 (LC 22), 7=349 (LC 1), 8=370 (LC 21)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
2-8=-265/110, 4-6=-265/110, 3-7=-283/0

- 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) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 7-11-4, Exterior (2) 7-11-4 to 10-11-4, Interior (1) 10-11-4 to 15-10-2 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) 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.



Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wendt 05-24-107
Q2301429	V05	Valley	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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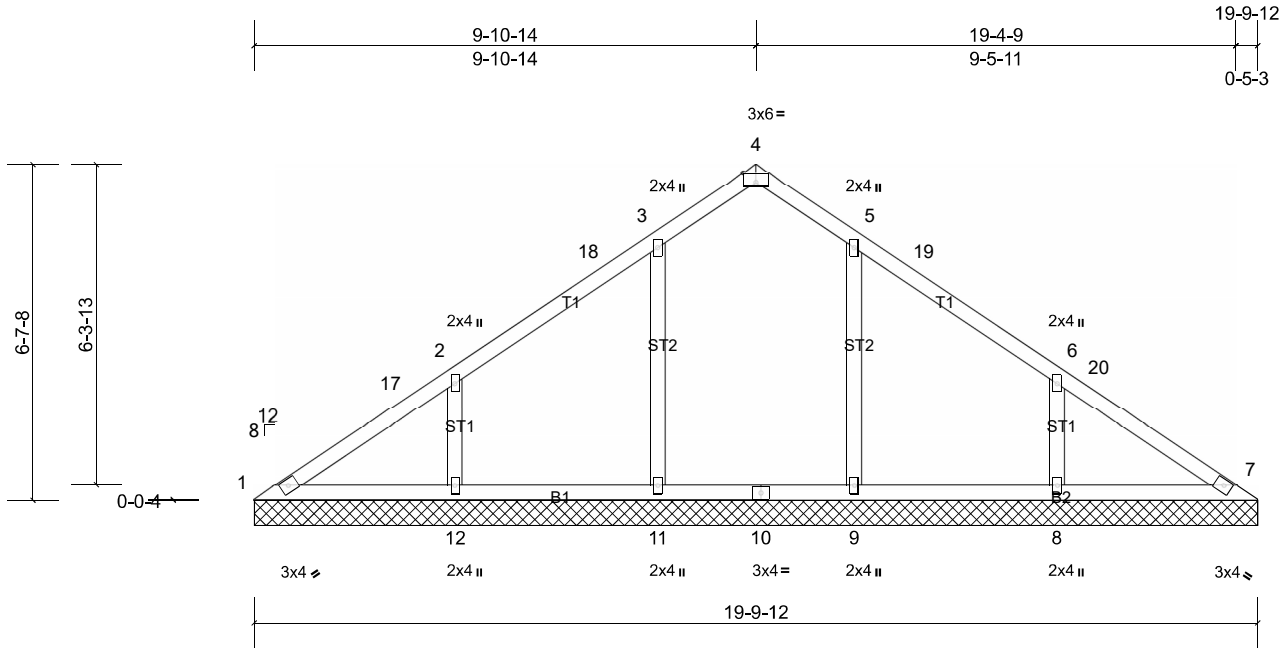


Plate Offsets (X, Y): [4:0-3-0,Edge]

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	0.19	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	0.11	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 84 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 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** All bearings 19-9-12.  
 (lb) - Max Horiz 1--108 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 11, 12  
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 7 except 8=344 (LC 22), 9=349 (LC 18), 11=345 (LC 17), 12=370 (LC 1)

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

**WEBS** 2-12=-259/105

- 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) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 9-11-4, Exterior (2) 9-11-4 to 12-11-4, Interior (1) 12-11-4 to 19-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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) 12, 11, 8, 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.