

Job Q015240-R	Truss R1	Truss Type Common	Qty 7	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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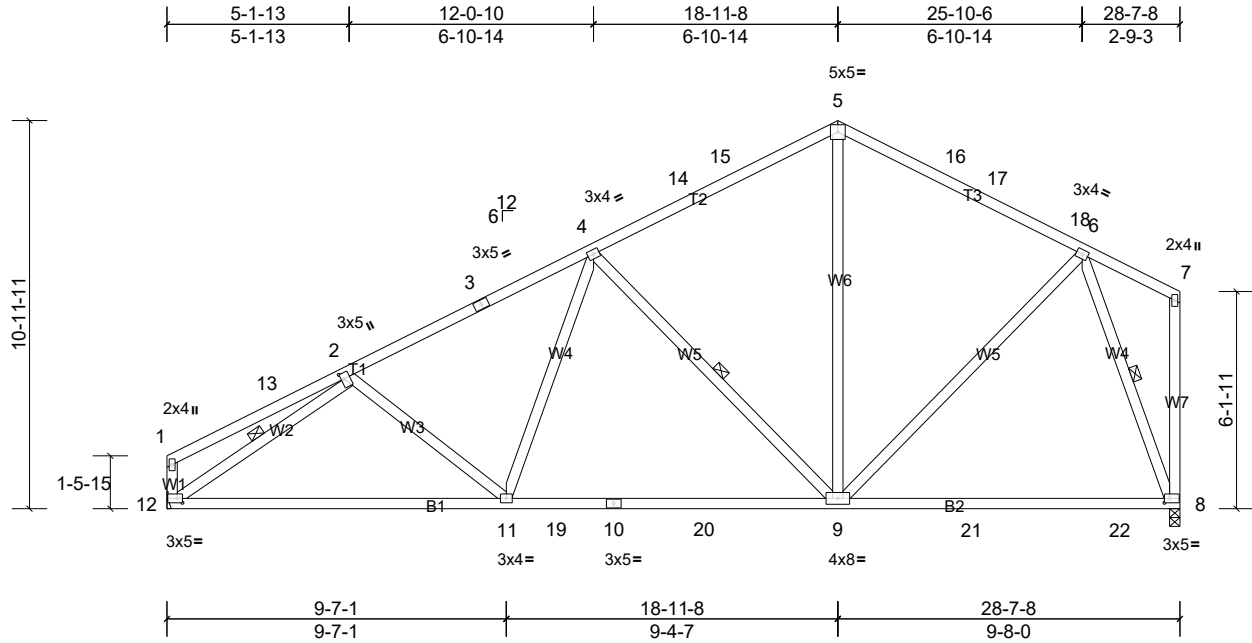


Plate Offsets (X, Y): [2:0-2-0,0-1-0], [8:0-1-12,0-1-8], [12:0-1-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.29	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.48	8-9	>711	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 184 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP 1650F 1.7E
WEBS 2x4 SP No.3 *Except* W5,W6:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 6-8, 2-12, 4-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=861/0-3-8, (min. 0-1-8), 12=861/
Mechanical, (min. 0-1-8)
Max Horiz 12=330 (LC 13)
Max Uplift 8=-227 (LC 16), 12=-271 (LC 16)
Max Grav 8=1288 (LC 3), 12=1246 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1606/364, 3-4=-1465/377, 4-14=-979/329, 14-15=-894/341, 5-15=-892/353, 5-16=-888/334, 16-17=-894/323, 17-18=-967/318, 6-18=-975/308
BOT CHORD 11-12=-574/1412, 11-19=-450/1278, 10-19=-450/1278, 10-20=-450/1278, 9-20=-450/1278, 9-21=-225/421, 21-22=-225/421, 8-22=-225/421
WEBS 6-8=-1165/436, 2-12=-1525/393, 4-11=-14/404, 4-9=-657/347, 5-9=-90/490, 6-9=-67/590

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

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-1-12 to 5-1-12, Interior (1) 5-1-12 to 20-11-8, Exterior(2R) 20-11-8 to 23-11-8, Interior (1) 23-11-8 to 30-5-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 12.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R1A	Truss Type Common	Qty 3	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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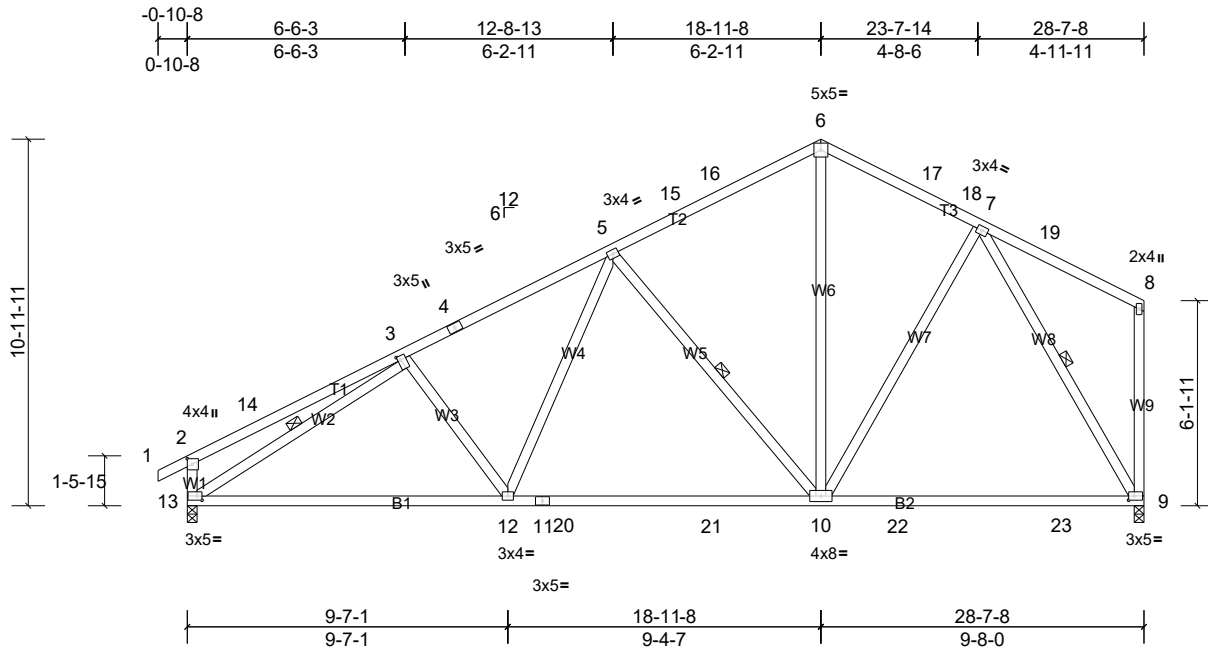


Plate Offsets (X, Y): [3:0-1-8,0-1-0], [9:0-2-0,0-1-8], [13:0-1-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.31	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.50	9-10	>680	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 189 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP 1650F 1.7E
 WEBS 2x4 SP No.3 *Except* W8,W5,W6,W7:2x4 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 3-13, 7-9, 5-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=860/0-3-8, (min. 0-1-8), 13=904/0-3-8, (min. 0-1-9)
 Max Horiz 13=340 (LC 15)
 Max Uplift 9=-228 (LC 16), 13=-301 (LC 16)
 Max Grav 9=1296 (LC 3), 13=1304 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-329/137, 3-14=-257/153, 3-4=-1605/374, 4-5=-1477/396, 5-15=-979/333, 15-16=-907/343, 6-16=-902/355, 6-17=-902/348, 17-18=-945/337, 7-18=-958/332, 2-13=-346/207
 BOT CHORD 12-13=-552/1453, 11-12=-433/1233, 11-20=-433/1233, 20-21=-433/1233, 10-21=-433/1233, 10-22=-263/608, 22-23=-263/608, 9-23=-263/608
 WEBS 3-13=-1454/281, 7-9=-1157/362, 5-12=-74/468, 5-10=-627/342, 6-10=-141/557, 7-10=-27/458

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 18-11-8, Exterior(2R) 18-11-8 to 21-11-8, Interior (1) 21-11-8 to 28-5-12 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 20 degree rotation about its center.
- 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R1G	Truss Type Common Structural Gable	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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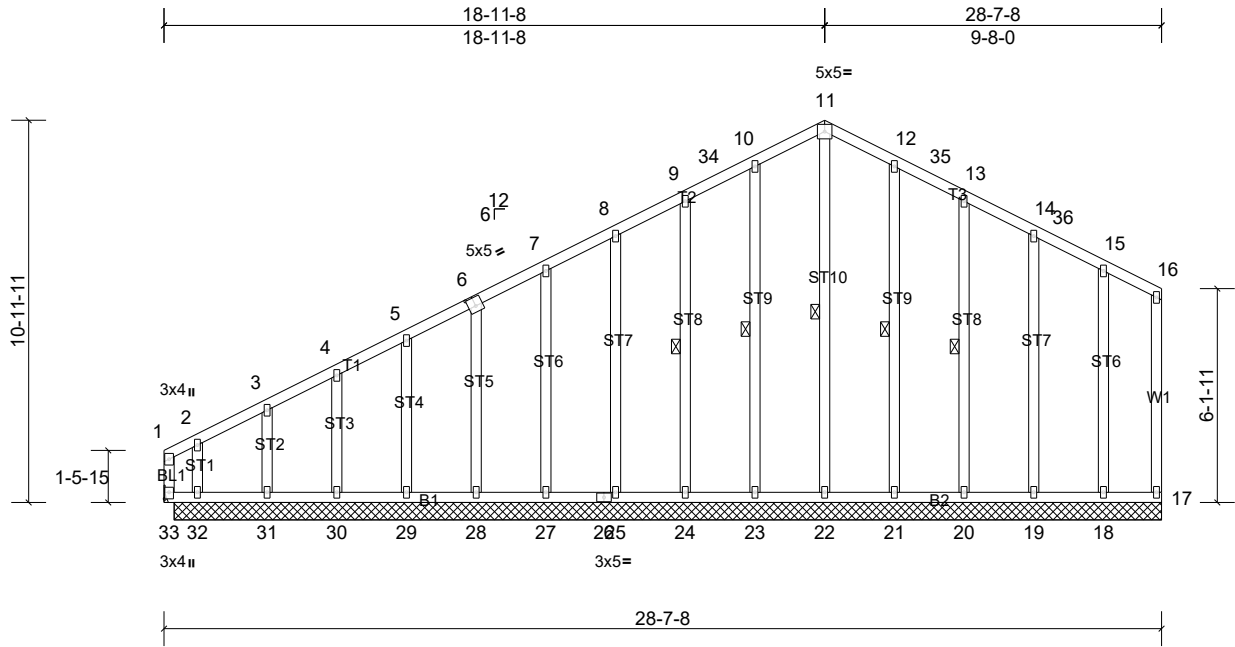


Plate Offsets (X, Y): [6:0-2-8,0-3-0], [33:0-2-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.00	17-18	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	0.00	17-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
										Weight: 236 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 *Except*
 BL1,ST10,ST9,ST8:2x4 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-22, 10-23, 9-24, 12-21, 13-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 28-4-0. except 33= Mechanical (lb) - Max Horiz 33=330 (LC 13)
 Max Uplift All uplift 100 (lb) or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31 except 32=-497 (LC 13), 33=-241 (LC 14)
 Max Grav All reactions 250 (lb) or less at joint (s) 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31 except 32=276 (LC 14), 33=569 (LC 13)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-386/265, 8-9=-187/263, 9-34=-208/302, 10-34=-198/306, 10-11=-224/340, 11-12=-224/333, 12-35=-198/285, 13-35=-208/281, 1-33=-352/236
 WEBS 2-32=-231/297

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-1-12 to 4-11-8, Interior (1) 4-11-8 to 20-11-8, Exterior(2R) 20-11-8 to 23-11-8, Interior (1) 23-11-8 to 30-5-12 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
- 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Plates checked for a plus or minus 20 degree rotation about its center.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) except (jt=lb) 33=241.
- 13) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 21, 20, 19, and 18. This connection is for uplift only and does not consider lateral forces.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R2	Truss Type Roof Special	Qty 6	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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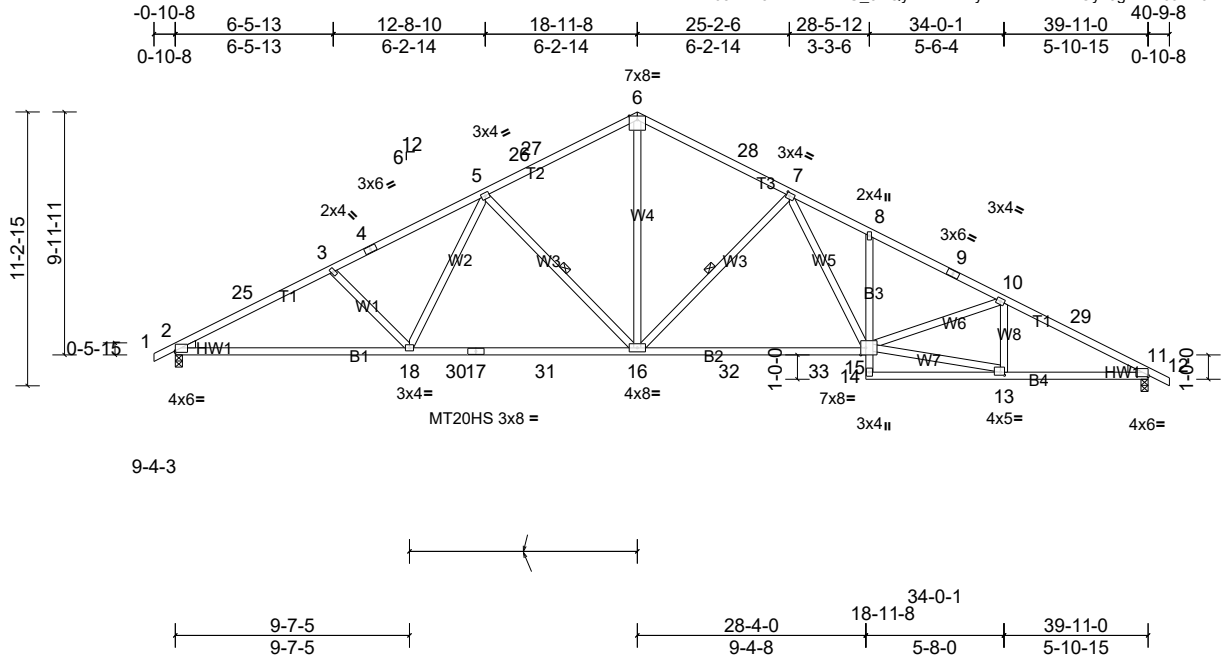


Plate Offsets (X, Y): [2:Edge,0-0-12], [7:0-1-8,0-1-8], [11:Edge,0-0-12], [13:0-2-0,0-1-8], [15:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.41	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.76	15-16	>631	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.16	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 227 lb	FT = 20%	

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.7E *Except* B3:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* W3,W4,W7:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-3 oc bracing.
WEBS 1 Row at midpt 5-16, 7-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1249/0-3-8, (min. 0-2-2), 11=1249/0-3-8, (min. 0-2-2)
Max Horiz 2=-235 (LC 17)
Max Uplift 2=-377 (LC 16), 11=-398 (LC 17)
Max Grav 2=1798 (LC 3), 11=1793 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-3211/632, 3-25=-3137/653, 3-4=-2993/596, 4-5=-2926/617, 5-26=-2173/526, 26-27=-2123/532, 6-27=-2097/547, 6-28=-2097/541, 7-28=-2170/525, 7-8=-3355/753, 8-9=-3313/676, 9-10=-3375/658, 10-29=-3178/675, 11-29=-3253/664
BOT CHORD 2-18=-648/2806, 18-30=-426/2360, 17-30=-426/2360, 17-31=-426/2360, 16-31=-426/2360, 16-32=-337/2505, 32-33=-337/2505, 15-33=-337/2505, 11-13=-510/2843
WEBS 3-18=-336/266, 5-18=-87/610, 5-16=-713/357, 6-16=-278/1583, 7-16=-911/403, 7-15=-244/1053, 13-15=-476/2827, 10-13=-393/162

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 18-11-8, Exterior(2R) 18-11-8 to 22-11-6, Interior (1) 22-11-6 to 40-9-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Plates checked for a plus or minus 20 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R3	Truss Type Roof Special	Qty 3	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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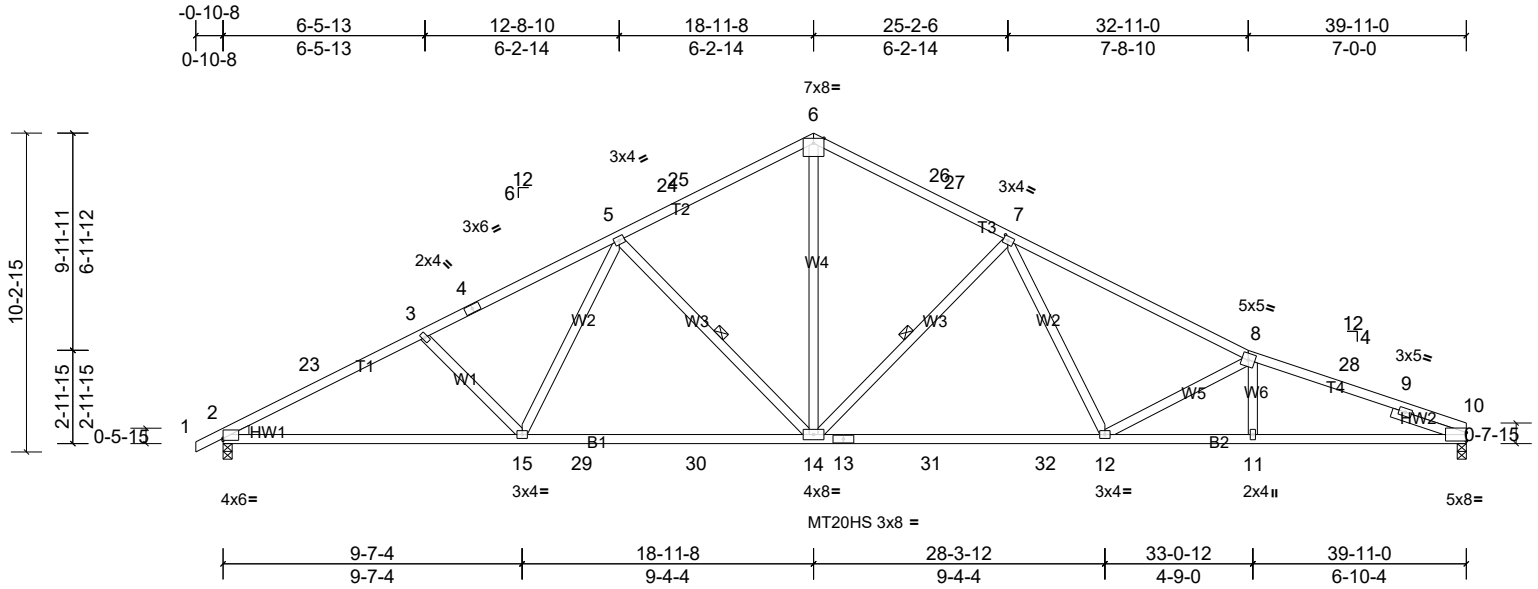


Plate Offsets (X, Y): [2:Edge,0-0-12], [7:0-1-12,0-1-8], [10:Edge,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.35	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.65	12-14	>741	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.15	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 210 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x4 SP 1650F 1.7E
BOT CHORD 2x4 SP 1650F 1.7E *Except* B2:2x4 SP 2700F 2.2E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except* W4,W3:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 7-11-4 oc bracing.
WEBS 1 Row at midpt 5-14, 7-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1249/0-3-8, (min. 0-2-2), 10=1213/0-3-8, (min. 0-1-8)
Max Horiz 2=203 (LC 16)
Max Uplift 2=-378 (LC 16), 10=-371 (LC 17)
Max Grav 2=1799 (LC 3), 10=1748 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-3214/872, 3-23=-3140/893, 3-4=-2997/823, 4-5=-2930/844, 5-24=-2168/701, 24-25=-2118/707, 6-25=-2091/722, 6-26=-2091/727, 26-27=-2118/713, 7-27=-2175/706, 7-8=-3329/917, 8-28=-3967/1086, 9-28=-3996/1074, 9-10=-1637/275
BOT CHORD 2-15=-722/2808, 15-29=-532/2360, 29-30=-532/2360, 14-30=-532/2360, 13-14=-578/2540, 13-31=-578/2540, 31-32=-578/2540, 12-32=-578/2540, 11-12=-959/3737, 10-11=-955/3739
WEBS 6-14=-426/1607, 5-15=-86/618, 3-15=-335/266, 5-14=-719/358, 7-14=-971/431, 7-12=-119/906, 8-12=-936/382

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 18-11-8, Exterior(2R) 18-11-8 to 22-11-6, Interior (1) 22-11-6 to 39-11-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Plates checked for a plus or minus 20 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R4	Truss Type Roof Special	Qty 5	Ply 1	Capers, Carlton DU-Roof
Load Star®, Lavonia, GA 30553, BAC					Job Reference (optional)

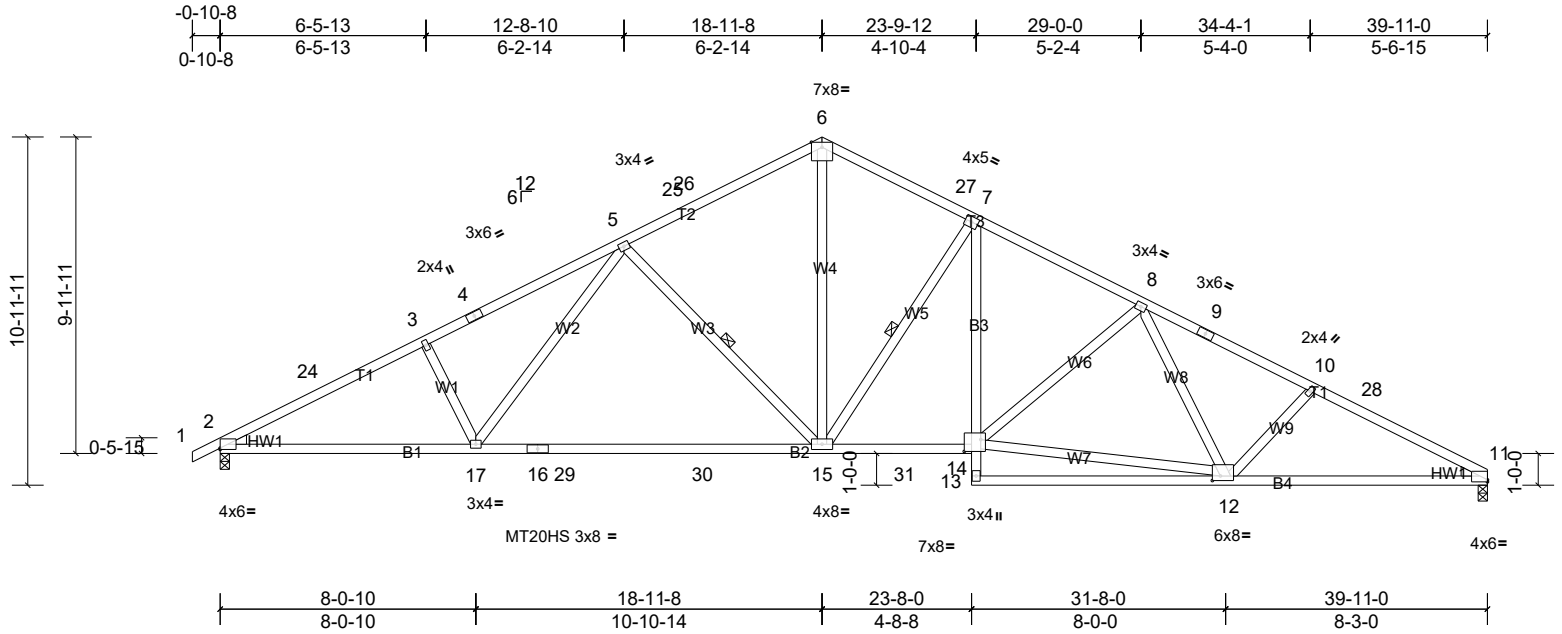


Plate Offsets (X, Y): [2:Edge,0-0-8], [11:Edge,0-0-12], [12:0-3-1,0-1-12], [14:0-6-4,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.52	15-17	>923	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.92	15-17	>520	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.16	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 233 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 1650F 1.7E *Except* B3:2x4 SP No.3
 WEBS 2x4 SP No.3 *Except* W3,W4,W5:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 5-15, 7-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1249/0-3-8, (min. 0-2-2), 11=1213/0-3-8, (min. 0-2-1)
 Max Horiz 2=-218 (LC 17)
 Max Uplift 2=-378 (LC 16), 11=-371 (LC 17)
 Max Grav 2=1799 (LC 3), 11=1736 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-24=-3275/618, 3-24=-3193/631, 3-4=-3140/637, 4-5=-3077/658, 5-25=-2168/527, 25-26=-2117/533, 6-26=-2090/548, 6-27=-2090/554, 7-27=-2146/538, 7-8=-2729/624, 8-9=-2968/660, 9-10=-3045/650, 10-28=-3136/702, 11-28=-3220/684
 BOT CHORD 2-17=-637/2856, 16-17=-442/2336, 16-29=-442/2336, 29-30=-442/2336, 15-30=-442/2336, 15-31=-306/2389, 14-31=-305/2395, 7-14=-177/792, 11-12=-554/2817
 WEBS 3-17=-310/261, 5-17=-141/732, 5-15=-686/369, 6-15=-311/1614, 7-15=-942/384, 12-14=-428/2422, 8-14=-375/246, 10-12=-272/229

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 18-11-8, Exterior(2R) 18-11-8 to 22-11-6, Interior (1) 22-11-6 to 39-11-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Plates checked for a plus or minus 20 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R5	Truss Type Common	Qty 2	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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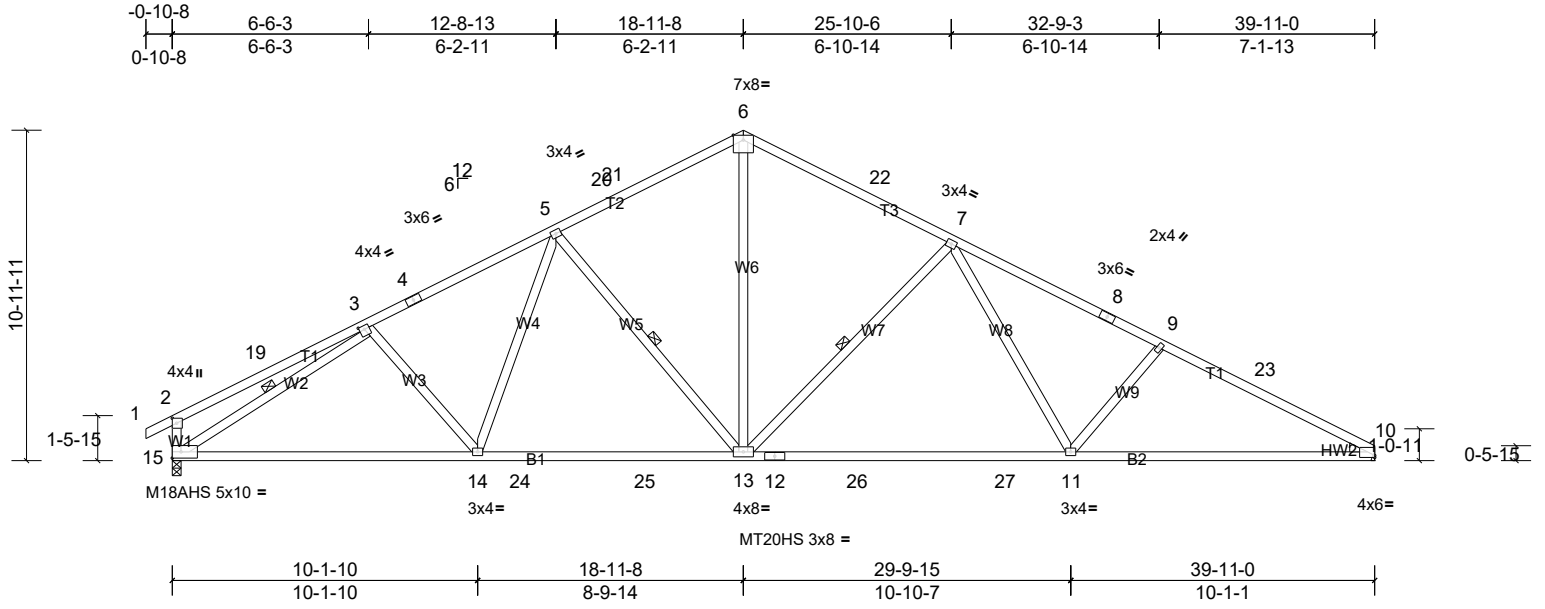


Plate Offsets (X, Y): [2:0-2-0,0-1-12], [3:0-2-0,0-1-8], [10:Edge,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.46	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.80	11-13	>598	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	10	n/a	n/a	M18AHS	186/179
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 223 lb	FT = 20%	

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.7E
WEBS 2x4 SP No.3 *Except* W5,W6,W7:2x4 SP No.2
WEDGE Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 11-13.
WEBS 1 Row at midpt 5-13, 7-13, 3-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=1208/ Mechanical, (min. 0-1-8), 15=1251/0-3-8, (min. 0-2-2)
Max Horiz 15=-194 (LC 21)
Max Uplift 10=-365 (LC 17), 15=-376 (LC 16)
Max Grav 10=1757 (LC 3), 15=1810 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-373/139, 3-19=-300/152, 3-4=-2484/522, 4-5=-2416/543, 5-20=-1980/508, 20-21=-1930/514, 6-21=-1905/529, 6-22=-1905/527, 7-22=-1991/512, 7-8=-2920/634, 8-9=-2995/610, 9-23=-3130/672, 10-23=-3214/660, 2-15=-364/213
BOT CHORD 14-15=-536/2121, 14-24=-382/2051, 24-25=-382/2051, 13-25=-382/2051, 12-13=-324/2253, 12-26=-324/2253, 26-27=-324/2253, 11-27=-324/2253, 10-11=-510/2804
WEBS 5-14=-46/372, 5-13=-579/323, 6-13=-258/1406, 7-13=-803/400, 7-11=-114/754, 9-11=-372/295, 3-15=-2271/432

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-1-6, Interior (1) 3-1-6 to 18-11-8, Exterior(2R) 18-11-8 to 22-11-6, Interior (1) 22-11-6 to 39-11-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Plates checked for a plus or minus 20 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 10.
- 12) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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

Job Q015240-R	Truss R6	Truss Type Common	Qty 5	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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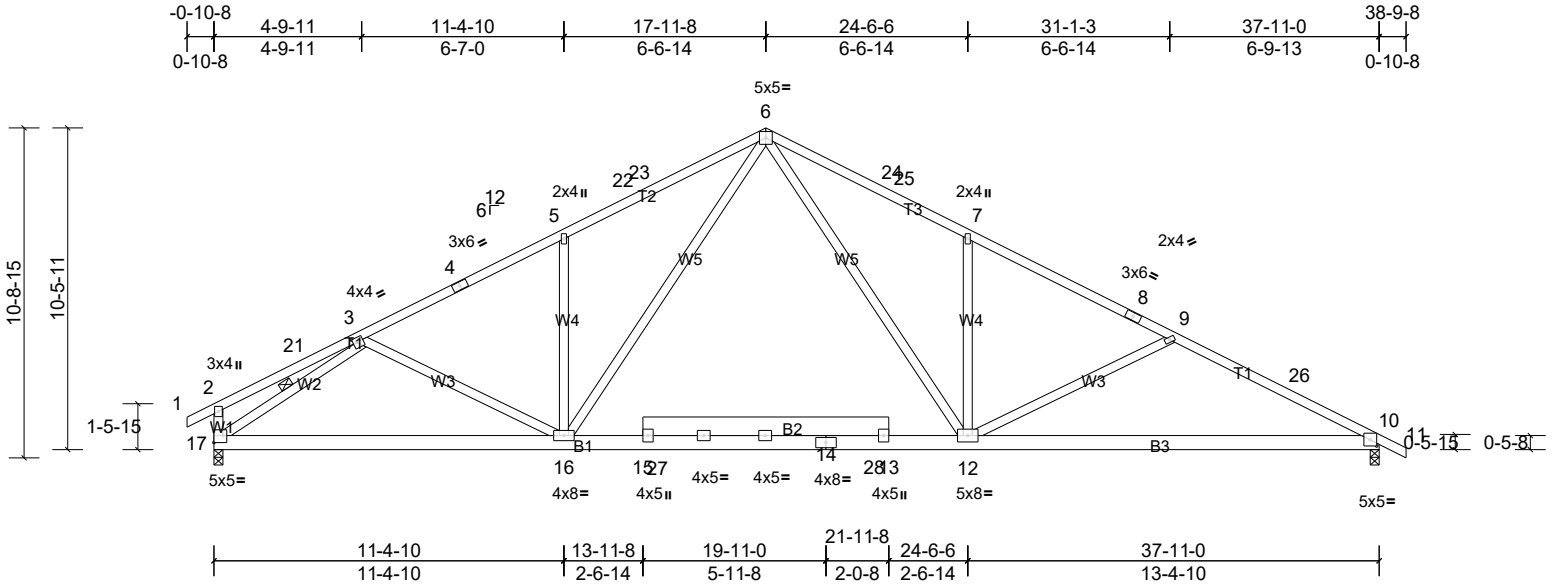


Plate Offsets (X, Y): [3:0-1-8,0-1-12], [10:0-2-8,0-2-5], [17:Edge,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.22	12-20	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.50	12-20	>914	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 264 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* B2:2x8 SP No.2
 WEBS 2x4 SP No.3 *Except* W5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 3-17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=1184/0-3-8, (min. 0-2-0),
 17=1190/0-3-8, (min. 0-2-0)
 Max Horiz 17=-201 (LC 21)
 Max Uplift 10=-374 (LC 17), 17=-358 (LC 16)
 Max Grav 10=1699 (LC 3), 17=1712 (LC 3)

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

TOP CHORD 2-21=-296/72, 3-4=-2354/477,
 4-5=-2280/490, 5-22=-2365/608,
 22-23=-2303/616, 6-23=-2285/631,
 6-24=-2508/687, 24-25=-2525/673,
 7-25=-2587/665, 7-8=-2508/526,
 8-9=-2585/503, 9-26=-2905/678,
 10-26=-2944/657, 2-17=-273/151
 BOT CHORD 16-17=-526/1905, 15-16=-177/1543,
 15-27=-178/1536, 14-27=-177/1544,
 14-28=-179/1521, 13-28=-181/1513,
 12-13=-177/1543, 10-12=-498/2599
 WEBS 3-17=-2100/488, 5-16=-440/344,
 6-16=-331/957, 3-16=0/259, 6-12=-394/1292,
 7-12=-427/342, 9-12=-455/325

NOTES

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-1-8 to 4-11-0, Interior (1) 4-11-0 to 19-11-8, Exterior(2R) 19-11-8 to 23-9-0, Interior (1) 23-9-0 to 40-9-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 20 degree rotation about its center.
- 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 10. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

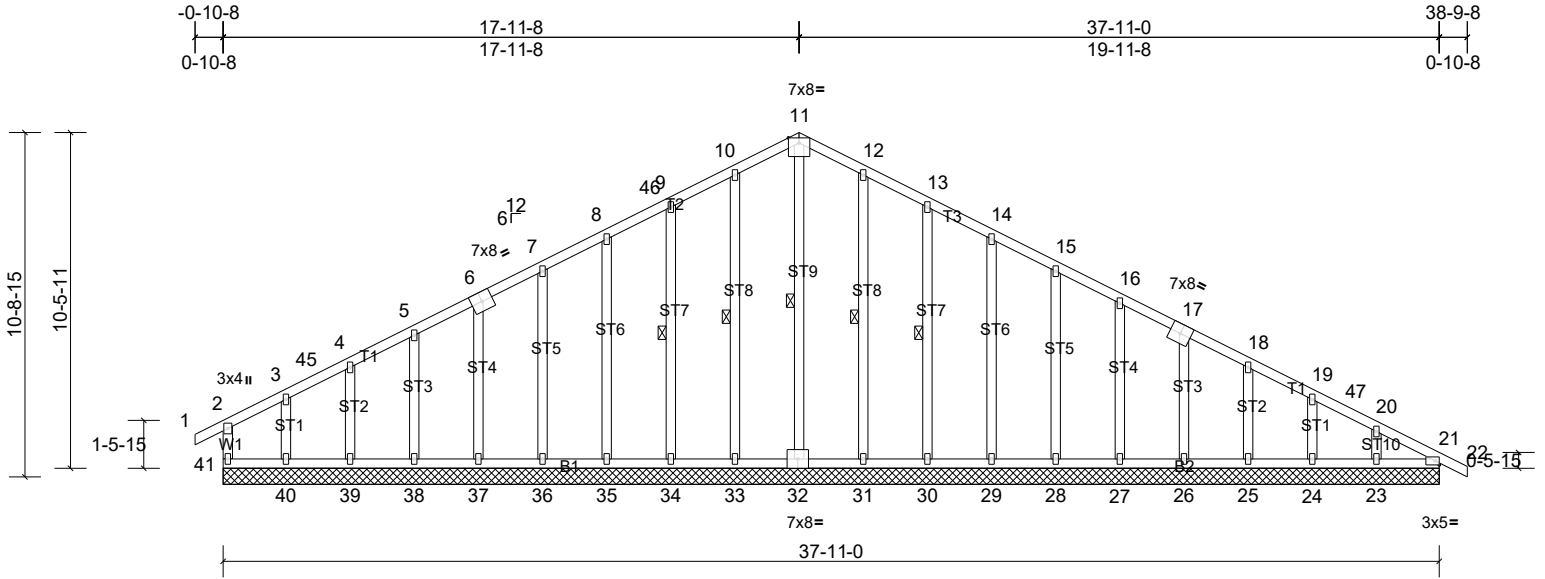
Job Q015240-R	Truss R6G	Truss Type Common Supported Gable	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20 244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	21	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 269 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 *Except* ST9,ST8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-32, 10-33, 9-34, 12-31, 13-30

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 37-11-0.
(lb) - Max Horiz 41=201 (LC 21)
Max Uplift All uplift 100 (lb) or less at joint(s) 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 39, 41 except 23=105 (LC 16), 24=121 (LC 17), 40=188 (LC 16)
Max Grav All reactions 250 (lb) or less at joint (s) 24, 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41 except 23=361 (LC 37), 32=266 (LC 33)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=70/264, 8-46=89/314, 9-46=78/318, 9-10=108/376, 10-11=127/424, 11-12=127/423, 12-13=108/375, 13-14=89/317, 14-15=70/262
WEBS 11-32=281/53

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-11-0, Exterior(2N) 2-11-0 to 17-11-8, Corner(3R) 17-11-8 to 21-11-8, Exterior(2N) 21-11-8 to 38-9-8 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) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Plates checked for a plus or minus 20 degree rotation about its center.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 41, 33, 34, 35, 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25 except (jt=lb) 40=188, 24=120, 23=105.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R7	Truss Type Common	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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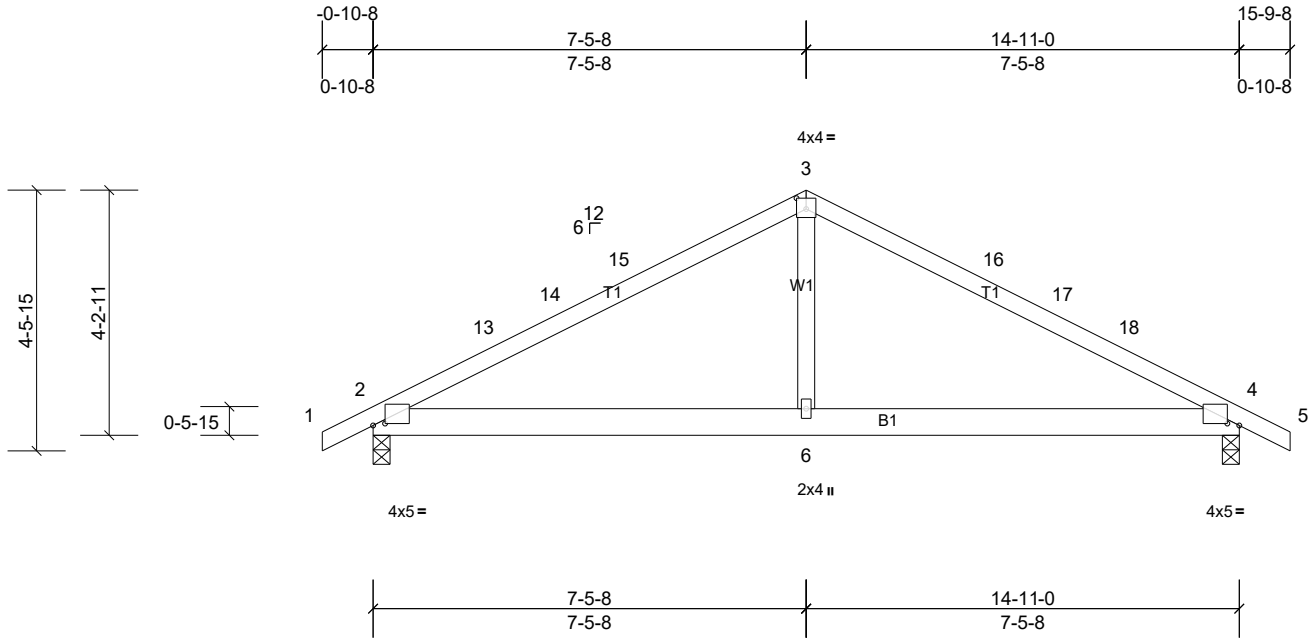


Plate Offsets (X, Y): [2:0-2-8,0-0-6], [3:0-2-0,0-2-4], [4:0-2-8,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.05	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=489/0-3-8, (min. 0-1-8), 4=489/0-3-8, (min. 0-1-8)
 Max Horiz 2=-80 (LC 17)
 Max Uplift 2=-160 (LC 16), 4=-160 (LC 17)
 Max Grav 2=649 (LC 2), 4=649 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-852/320, 13-14=-780/328, 14-15=-755/331, 3-15=-748/343, 3-16=-748/343, 16-17=-755/331, 17-18=-780/328, 4-18=-852/320
 BOT CHORD 2-6=-157/675, 4-6=-157/675
 WEBS 3-6=-7/379

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-5-8, Exterior(2R) 7-5-8 to 10-5-8, Interior (1) 10-5-8 to 15-9-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

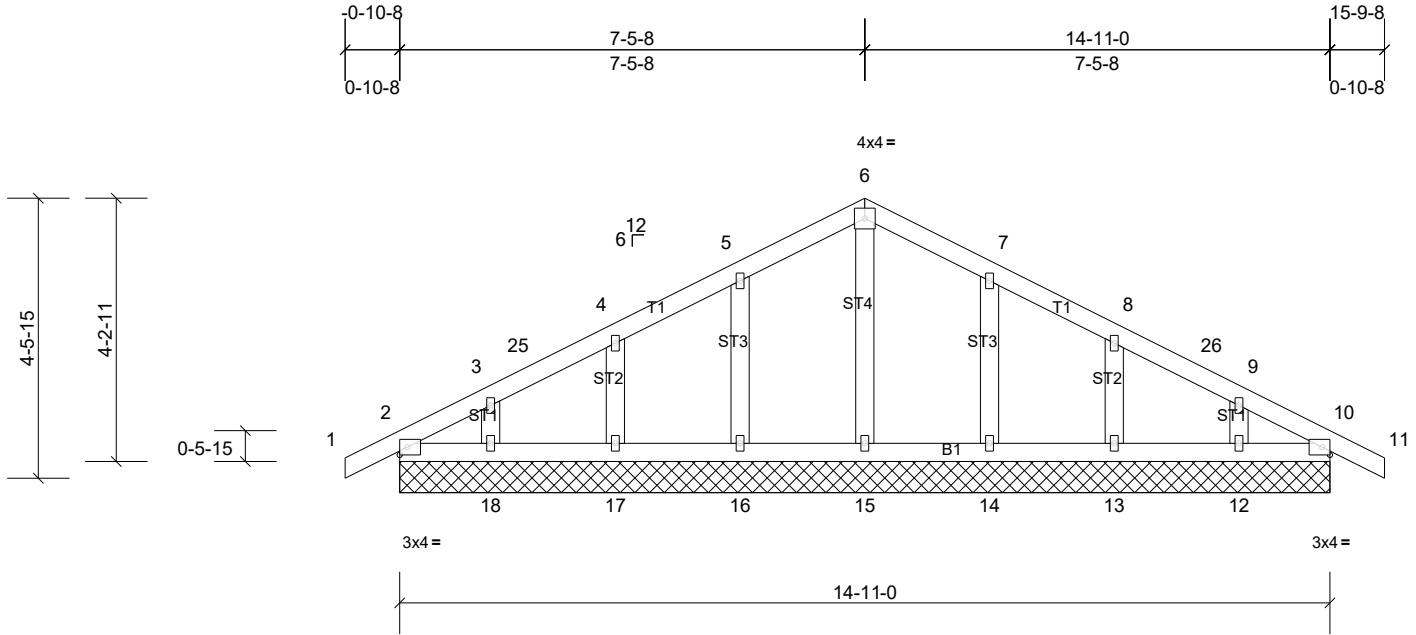
Job Q015240-R	Truss R7G	Truss Type Common Supported Gable	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 71 lb	FT = 20%	

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 14-11-0.
 (lb) - Max Horiz 2=-80 (LC 17), 19=-80 (LC 17)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 2, 12, 13, 14, 16, 17, 18, 19
 Max Grav All reactions 250 (lb) or less at joint
 (s) 2, 12, 13, 14, 15, 16, 17, 18, 19

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-5-8, Corner(3R) 7-5-8 to 10-5-8, Exterior(2N) 10-5-8 to 15-9-8 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
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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, 16, 17, 18, 14, 13, 12, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

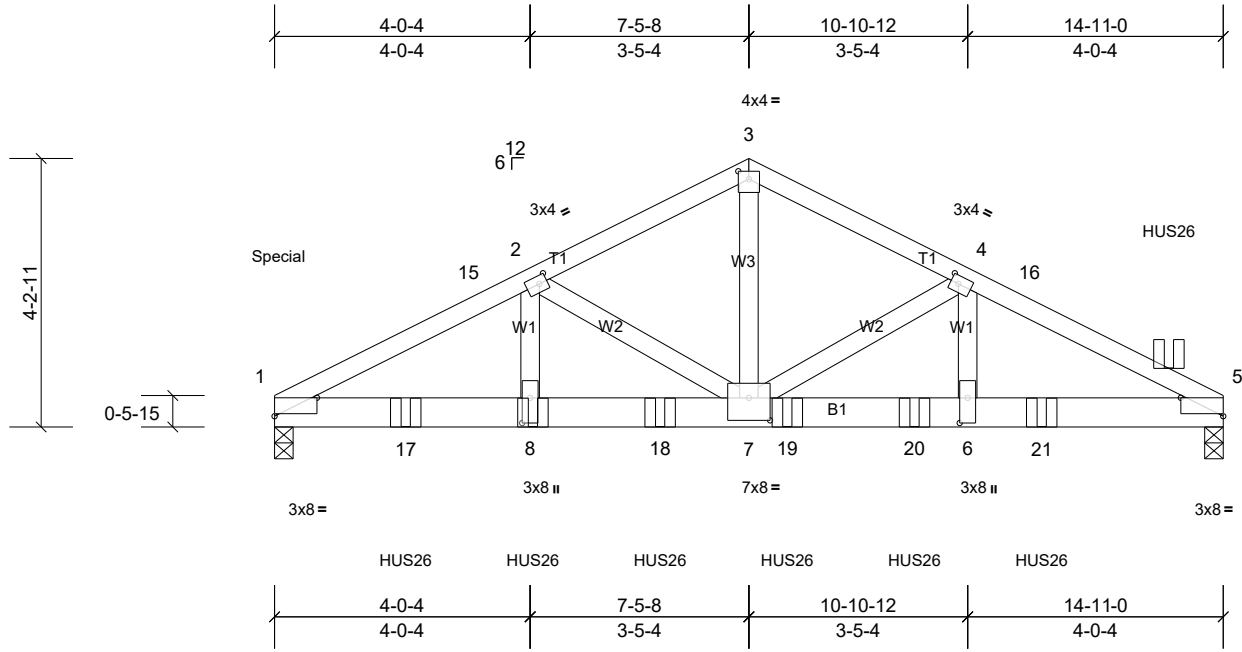
LOAD CASE(S) Standard

Job Q015240-R	Truss R7X	Truss Type Common Girder	Qty 1	Ply 2	Capers, Carlton DU-Roof
Load Star®, Lavonia, GA 30553, BAC					Job Reference (optional)

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*** Design Problems *** REVIEW REQUIRED

Hanger Design Failed/Reset Load Case(s) to design hangers.

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.16	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.04	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 163 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 4-2-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 1=15162/0-3-8, (req. 1-2-13),
 5=3707/0-3-8, (min. 0-3-1)
 Max Horiz 1=72 (LC 37)
 Max Uplift 5=-1164 (LC 13)
 Max Grav 1=25113 (LC 37), 5=5156 (LC 3)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 1-15=-7924/1836, 2-15=-7871/1843,
 2-3=-5698/1344, 3-4=-5700/1346,
 4-16=-7862/1833, 5-16=-7914/1826
- BOT CHORD 1-17=-1666/7055, 8-17=-1666/7055,
 8-18=-1666/7055, 7-18=-1666/7055,
 7-19=-1585/7053, 19-20=-1585/7053,
 6-20=-1585/7053, 6-21=-1585/7053,
 5-21=-1585/7053
- WEBS 3-7=-1098/4853, 2-8=-427/2074,
 2-7=-2329/631, 4-6=-419/2051,
 4-7=-2326/622
- NOTES**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-8 2x4 - 1 row at 0-3-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) Plates checked for a plus or minus 20 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 11) One HTS20 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-0-12 to connect truss(es) R1 (1 ply 2x4 SP) to front face of bottom chord.
- 14) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 14-0-12 from the left end to connect truss(es) R1 (1 ply 2x4 SP) to front face of top chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) WARNING: The following hangers are manually applied but fail due to geometric considerations: HUS26 on front face at 14-0-12 from the left end.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 23645 lb down at 0-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-3=-41, 3-5=-41, 9-12=-20
 Concentrated Loads (lb)
 Vert: 1=-11953, 8=-861, 13=-843, 17=-861, 18=-861, 19=-861, 20=-861, 21=-861

Job Q015240-R	Truss R8	Truss Type Common	Qty 1	Ply 1	Capers, Carlton DU-Roof
					Job Reference (optional)

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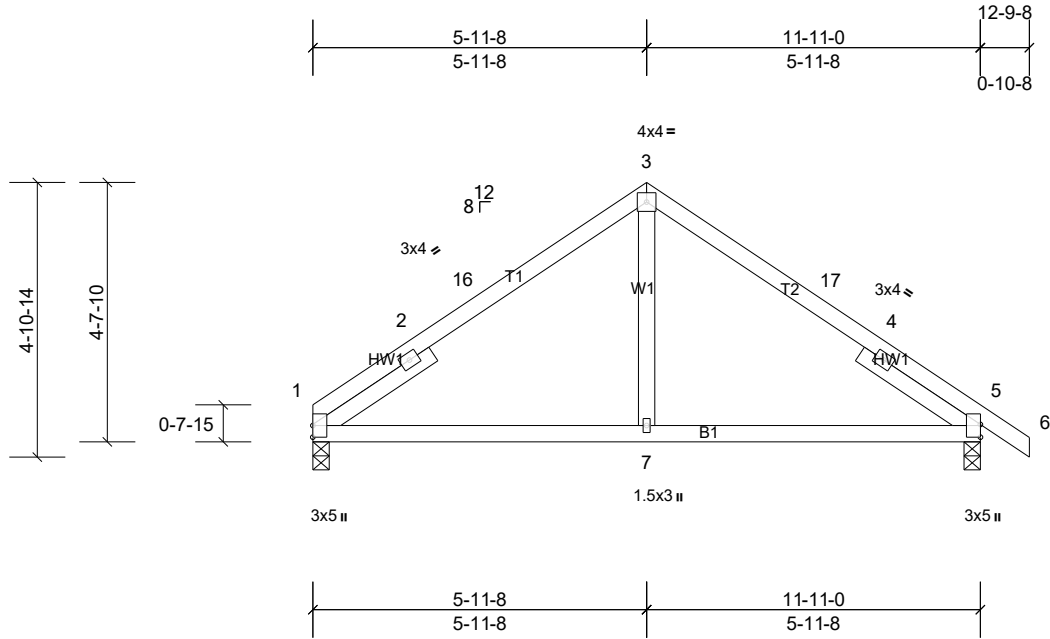


Plate Offsets (X, Y): [5:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.05	7-10	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.07	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 20 degree rotation about its center.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REACTIONS (lb/size) 1=361/0-3-8, (min. 0-1-8), 5=399/0-3-8, (min. 0-1-8)
 Max Horiz 1=-124 (LC 10)
 Max Uplift 1=-99 (LC 14), 5=-126 (LC 15)
 Max Grav 1=475 (LC 2), 5=531 (LC 2)

LOAD CASE(S) Standard

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-325/0, 2-16=-465/191, 3-16=-455/205, 3-17=-455/204, 4-17=-466/190, 4-5=-312/0
 BOT CHORD 1-7=-241/387, 5-7=-43/387
 WEBS 3-7=-1/264

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-8, Exterior(2R) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 12-9-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

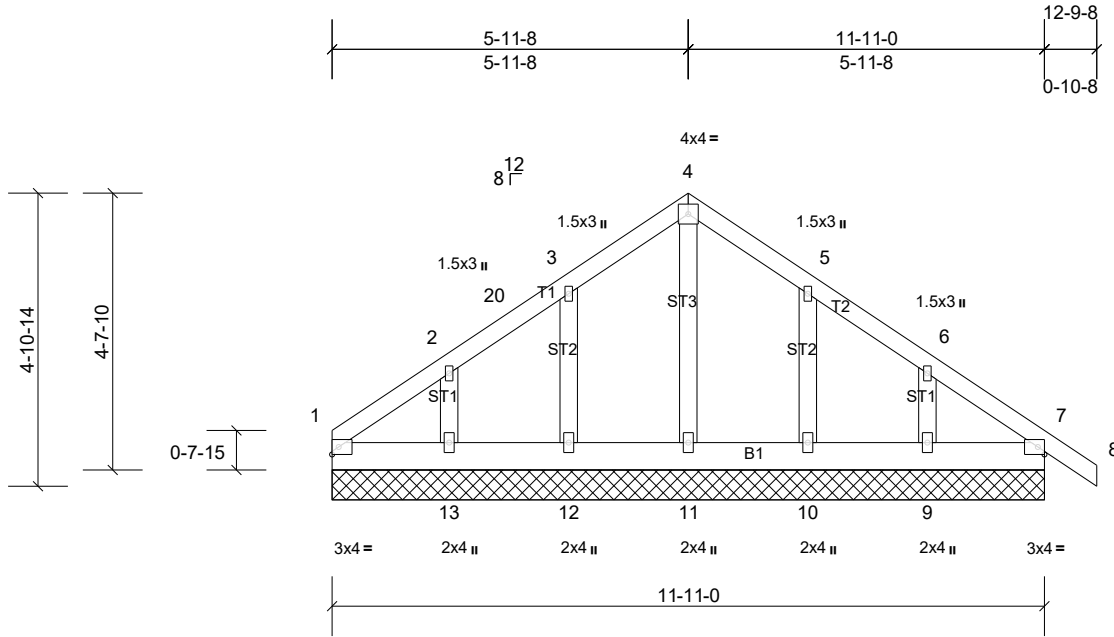
Job Q015240-R	Truss R8G	Truss Type Common Supported Gable	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 68 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 11-11-0.
 (lb) - Max Horiz 1=-124 (LC 10), 14=-124 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 1, 10, 12, 14 except 9=-106 (LC 15), 13=-119 (LC 14)
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 10, 12, 13, 14 except 9=273 (LC 27), 11=307 (LC 2)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 5-11-8, Corner(3R) 5-11-8 to 8-11-8, Exterior(2N) 8-11-8 to 12-9-8 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) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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) 1, 12, 10, 1 except (jt=lb) 13=118, 9=105.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R8X	Truss Type Common Girder	Qty 1	Ply 2	Capers, Carlton DU-Roof Job Reference (optional)
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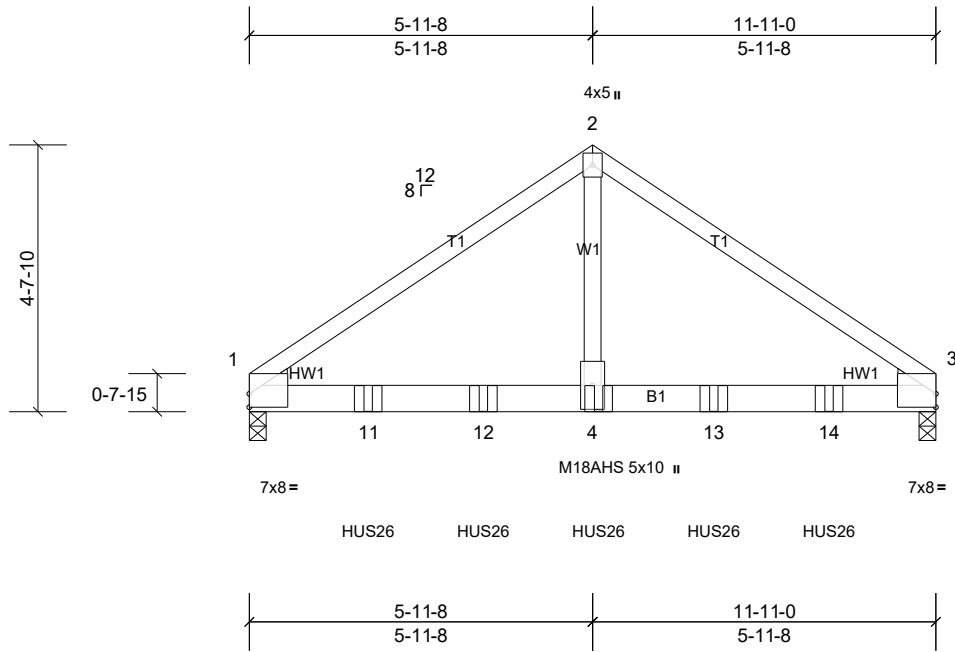


Plate Offsets (X, Y): [1:Edge,0-2-13], [3:Edge,0-2-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.08	4-10	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.14	4-10	>999	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 113 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=3302/0-3-8, (min. 0-1-15),
 3=3382/0-3-8, (min. 0-2-0)
 Max Horiz 1=-113 (LC 6)
 Max Uplift 1=-1043 (LC 10), 3=-1066 (LC 11)
 Max Grav 1=4651 (LC 3), 3=4786 (LC 3)

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

TOP CHORD 1-2=-5524/1264, 2-3=-5523/1263
 BOT CHORD 1-11=-991/4554, 11-12=-991/4554,
 4-12=-991/4554, 4-13=-991/4554,
 13-14=-991/4554, 3-14=-991/4554
 WEBS 2-4=-1219/5739

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-5-0 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 7-16; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) R4 (1 ply 2x4 SP), R5 (1 ply 2x4 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-41, 2-3=-41, 5-8=-20
 Concentrated Loads (lb)
 Vert: 4=-1193, 11=-1193, 12=-1193, 13=-1193,
 14=-1188

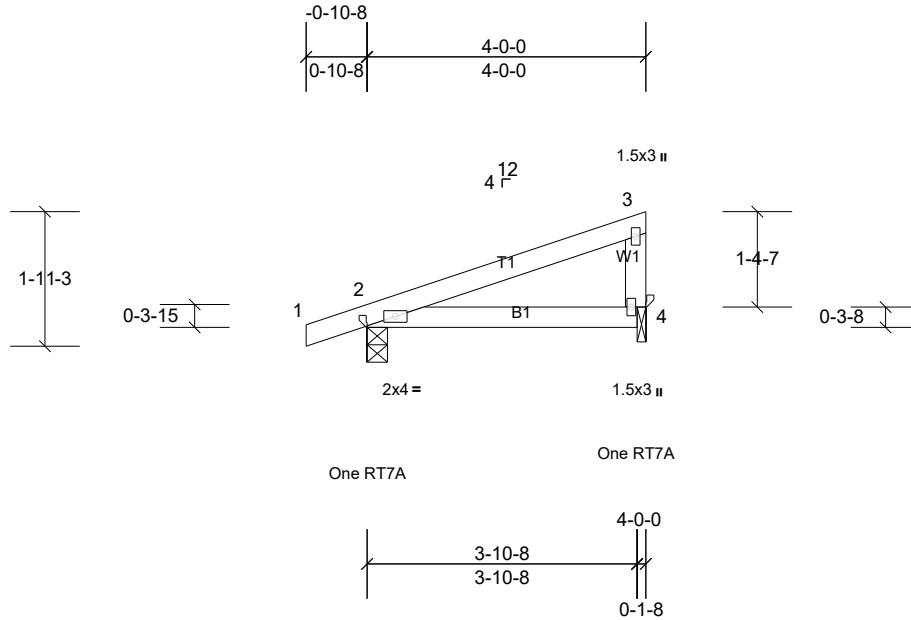
Job Q015240-R	Truss R9	Truss Type Monopitch	Qty 3	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 15 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 or 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=157/0-3-8, (min. 0-1-8), 4=113/0-1-8, (min. 0-1-8)
 Max Horiz 2=70 (LC 15)
 Max Uplift 2=-92 (LC 12), 4=-48 (LC 16)
 Max Grav 2=213 (LC 23), 4=149 (LC 23)

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

- NOTES**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - 5) Plates checked for a plus or minus 20 degree rotation about its center.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R9G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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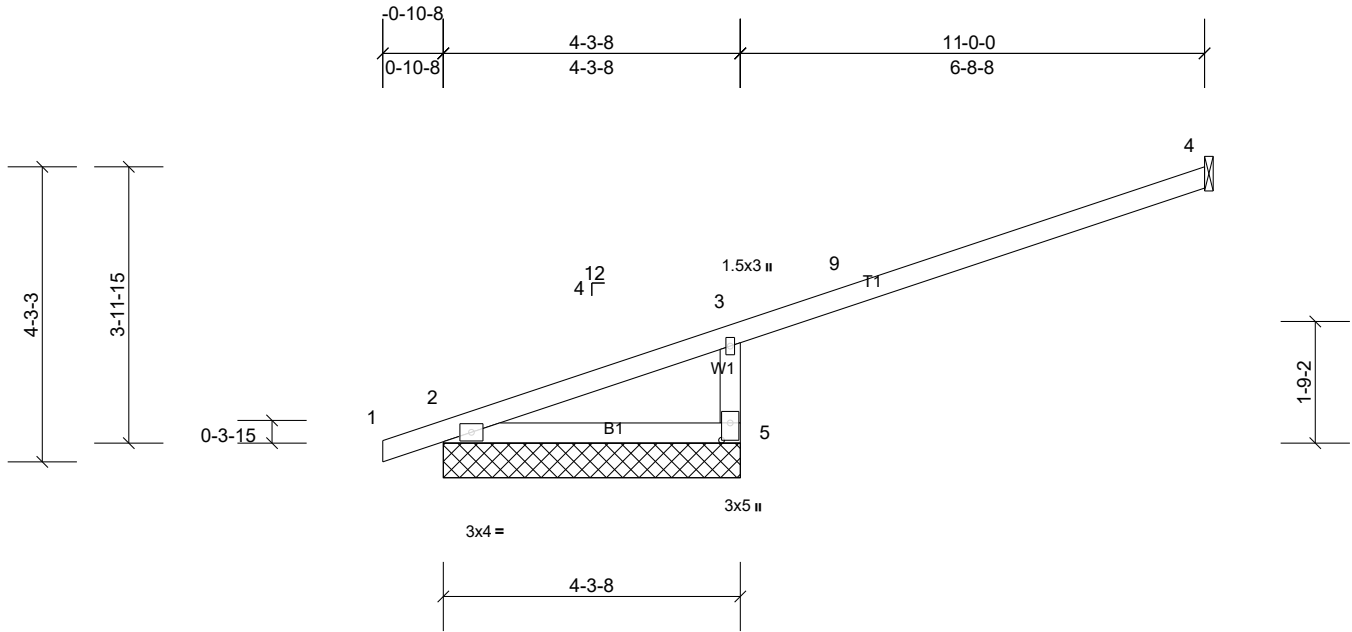


Plate Offsets (X, Y): [5:0-3-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.01	5-8	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.02	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 27 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 or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 4-3-8. except 4= Mechanical
 (lb) - Max Horiz 2=146 (LC 12), 6=146 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 2, 6 except 4=-114 (LC 12), 5=-261 (LC 16)
 Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6 except 5=469 (LC 2)

FORCES

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

TOP CHORD 2-3=-414/165, 3-5=-440/842

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 10-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 20 degree rotation about its center.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) except (jt=lb) 4=113.
- 12) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q015240-R	Truss R10	Truss Type Attic	Qty 6	Ply 1	Capers, Carlton DU-Roof
Load Star®, Lavonia, GA 30553, BAC					Job Reference (optional)

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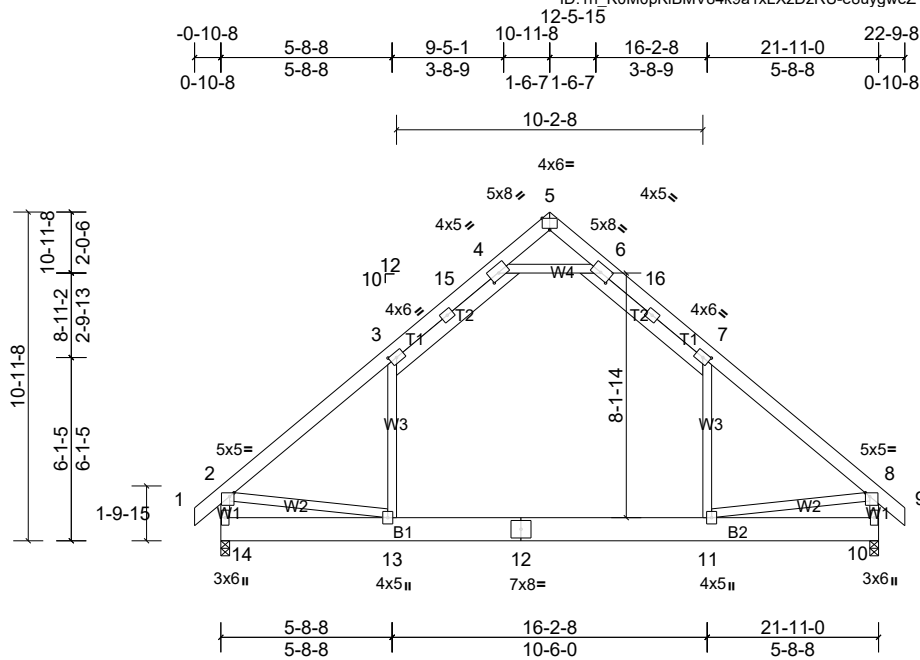


Plate Offsets (X, Y): [2:0-3-4,0-3-8], [3:0-2-12,0-2-0], [4:0-3-14,0-1-14], [5:0-3-0,Edge], [6:0-4-3,0-2-0], [7:0-2-12,0-2-0], [8:0-3-4,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.17	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.30	11-13	>865	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.09	11-13	>999	360		
BCDL	10.0											

Weight: 224 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* W4:2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 10=856/0-3-8, (min. 0-1-9), 14=856/0-3-8, (min. 0-1-9)
Max Horiz 14=333 (LC 13)
Max Uplift 10=-99 (LC 15), 14=-99 (LC 14)
Max Grav 10=1307 (LC 28), 14=1307 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1475/107, 3-15=-949/189, 4-15=-832/199, 4-5=-103/722, 5-6=-103/722, 6-16=-832/199, 7-16=-949/189, 7-8=-1474/107, 2-14=-1316/127, 8-10=-1317/127
BOT CHORD 13-14=-319/482, 12-13=0/1034, 11-12=0/1034
WEBS 7-11=0/617, 3-13=0/617, 4-6=-1823/333, 2-13=-14/858, 8-11=-20/863

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-11-8, Exterior(2R) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 22-9-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 20 degree rotation about its center.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-6
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job Q015240-R	Truss R10G	Truss Type Attic Supported Gable	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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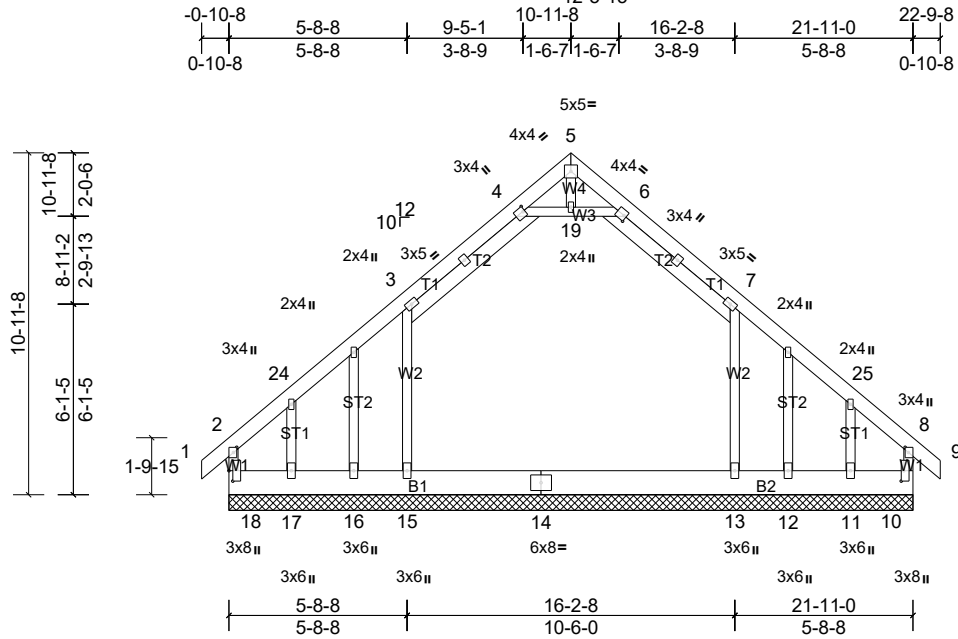


Plate Offsets (X, Y): [2:0-2-0,0-1-4], [4:0-0-12,0-2-0], [6:0-0-15,0-2-0], [8:0-2-0,0-1-4], [10:0-4-0,0-1-0], [18:0-4-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 228 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.2
 OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 21-11-0.
 (lb) - Max Horiz 18=333 (LC 13)
 Max Uplift All uplift 100 (lb) or less at joint(s) 10, 18 except 11=-111 (LC 15), 12=-357 (LC 21), 13=-180 (LC 15), 15=-182 (LC 14), 16=-357 (LC 21), 17=-112 (LC 14)
 Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 16, 17 except 10=508 (LC 27), 13=1106 (LC 28), 15=1109 (LC 27), 18=513 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-391/138, 2-24=-410/94, 3-24=-259/133, 3-4=-374/211, 6-7=-374/211, 7-25=-253/127, 8-25=-406/89, 8-10=-391/137
 BOT CHORD 17-18=-99/269, 16-17=-99/269, 15-16=-99/269, 14-15=-99/269, 13-14=-99/269, 12-13=-99/269, 11-12=-99/269, 10-11=-99/269
 WEBS 7-13=-512/316, 3-15=-516/318, 4-19=-196/391, 6-19=-196/391

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 10-11-8, Corner(3R) 10-11-8 to 13-11-8, Exterior(2N) 13-11-8 to 22-9-8 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) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 20 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Ceiling dead load (5.0 psf) on member(s). 2-3, 3-4, 6-7, 7-8, 4-19, 6-19
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 18, 10 except (jt=lb) 13=179, 15=181, 17=112, 16=356, 11=111, 12=356.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job Q015240-R	Truss R10X	Truss Type Attic Girder	Qty 1	Ply 2	Capers, Carlton DU-Roof Job Reference (optional)
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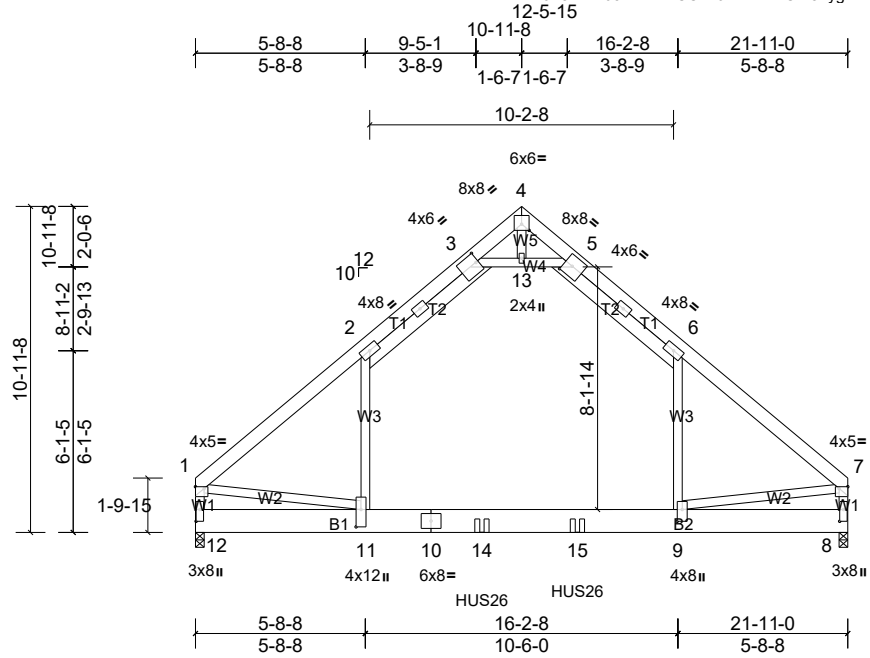


Plate Offsets (X, Y): [1:Edge,0-0-12], [3:0-1-0,0-4-0], [5:0-3-5,0-4-0], [7:Edge,0-0-12], [8:0-4-12,0-1-8], [9:0-4-12,0-2-0], [11:0-7-0,0-2-0], [12:0-4-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.32	9-11	>819	240	MT20 244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.44	9-11	>587	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	8	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.13	9-11	>944	360	
BCDL	10.0										Weight: 440 lb FT = 20%

LUMBER
 TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.3 *Except* W4:2x4 SP No.2

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

REACTIONS (lb/size) 8=1641/0-3-8, (min. 0-1-10), 12=1619/0-3-8, (min. 0-1-10)
 Max Horiz 12=309 (LC 7)
 Max Uplift 8=-926 (LC 11), 12=-928 (LC 10)
 Max Grav 8=2785 (LC 23), 12=2736 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3589/1309, 2-3=-2079/835, 3-4=-859/1956, 4-5=-858/1967, 5-6=-2069/836, 6-7=-3601/1308, 1-12=-3117/1143, 7-8=-3131/1142
 BOT CHORD 11-12=-436/632, 10-11=-815/2487, 10-14=-815/2487, 14-15=-815/2487, 9-15=-815/2487, 8-9=-207/423
 WEBS 6-9=-852/2115, 2-11=-855/2081, 3-13=-5068/2197, 5-13=-5068/2197, 4-13=-146/391, 1-11=-734/2171, 7-9=-740/2155

NOTES
 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 3) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Plates checked for a plus or minus 20 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-13, 5-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 3-2-8 oc max. starting at 9-7-8 from the left end to 12-10-0 to connect truss(es) R12X (1 ply 2x10 SP), R11X (1 ply 2x10 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-41, 2-3=-51, 3-4=-41, 4-5=-41, 5-6=-51, 6-7=-41, 11-12=-20, 9-11=-40, 8-9=-20, 3-13=-10, 5-13=-10

Concentrated Loads (lb)
 Vert: 14=-879, 15=-751

Job Q015240-R	Truss R11	Truss Type Roof Special	Qty 6	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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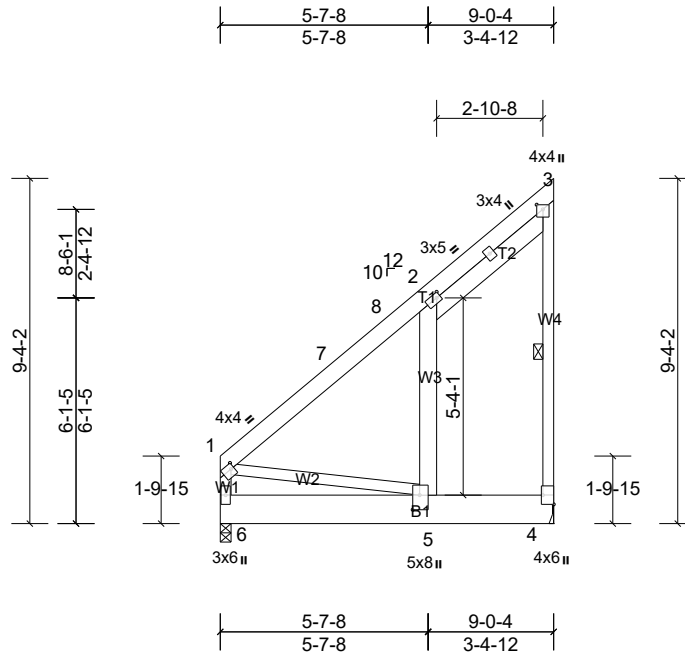


Plate Offsets (X, Y): [1:0-1-0,0-1-12], [2:0-1-4,0-1-8], [3:0-1-8,0-2-0], [4:Edge,0-3-8], [5:0-4-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	0.05	5-6	>999	240	MT20 244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.06	5-6	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 106 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 1 Row at midpt 3-4

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=265/ Mechanical, (min. 0-1-8), 6=265/0-3-8, (min. 0-1-8)
Max Horiz 6=368 (LC 11)
Max Uplift 4=-202 (LC 11), 6=-15 (LC 14)
Max Grav 4=548 (LC 26), 6=475 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-524/312, 7-8=-508/313, 2-8=-500/338, 1-6=-356/165
BOT CHORD 5-6=-724/545
WEBS 2-5=-287/414, 1-5=-421/620

- NOTES**
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-10-8 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf, Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10
 - Plates checked for a plus or minus 20 degree rotation about its center.
 - 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'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 4.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job Q015240-R	Truss R11X	Truss Type Flat Girder	Qty 1	Ply 1	Capers, Carlton DU-Roof
Load Star®, Lavonia, GA 30553, BAC					Job Reference (optional)

Load Star®, Lavonia, GA 30553, BAC

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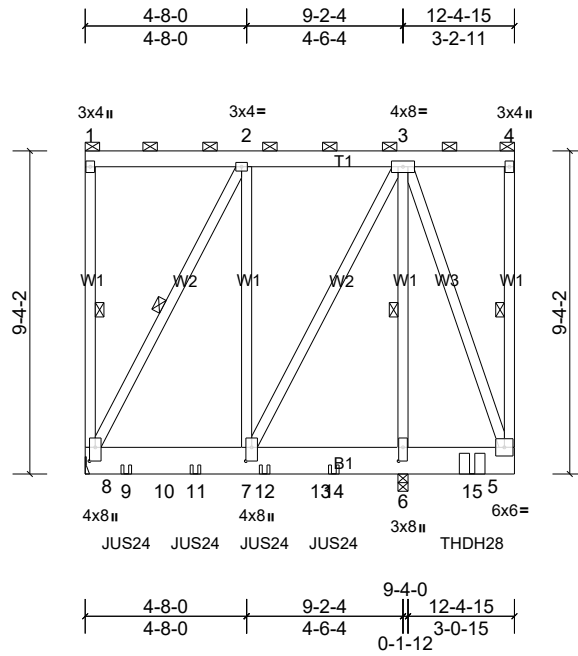


Plate Offsets (X, Y): [6:0-4-12,0-1-8], [7:0-4-12,0-2-0], [8:0-4-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.02	7-8	>999	240	MT20 244/190
Snow (Pf/Pg)	15.4/15.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.02	7-8	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.00	6	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 166 lb FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.2

BRACING
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 1-8, 4-5, 3-6, 2-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=1313/0-3-8, (min. 0-2-10), 8=771/ Mechanical, (min. 0-1-8)
 Max Horiz 8=-363 (LC 8)
 Max Uplift 6=-1065 (LC 9), 8=-697 (LC 8)
 Max Grav 6=2202 (LC 25), 8=1416 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-362/147
 BOT CHORD 8-9=-295/425, 9-10=-295/425, 10-11=-295/425, 7-11=-295/425
 WEBS 3-6=-1084/675, 3-7=-494/929, 2-7=-235/629, 2-8=-854/482

NOTES
 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 3) Unbalanced snow loads have been considered for this design.
 4) Provide adequate drainage to prevent water ponding.

- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 697 lb uplift at joint 8.
- Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-4 from the left end to 7-2-4 to connect truss(es) R11 (1 ply 2x10 SP) to front face of bottom chord.
- Use MiTek THDH28 (With 36-16d nails into Girder & 12-16d nails into Truss) or equivalent at 11-2-4 from the left end to connect truss(es) R11 (1 ply 2x10 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-4=-51, 5-8=-20
 Concentrated Loads (lb)
 Vert: 9=-245, 11=-245, 12=-245, 14=-245, 15=-245

Job Q015240-R	Truss R12	Truss Type Roof Special	Qty 5	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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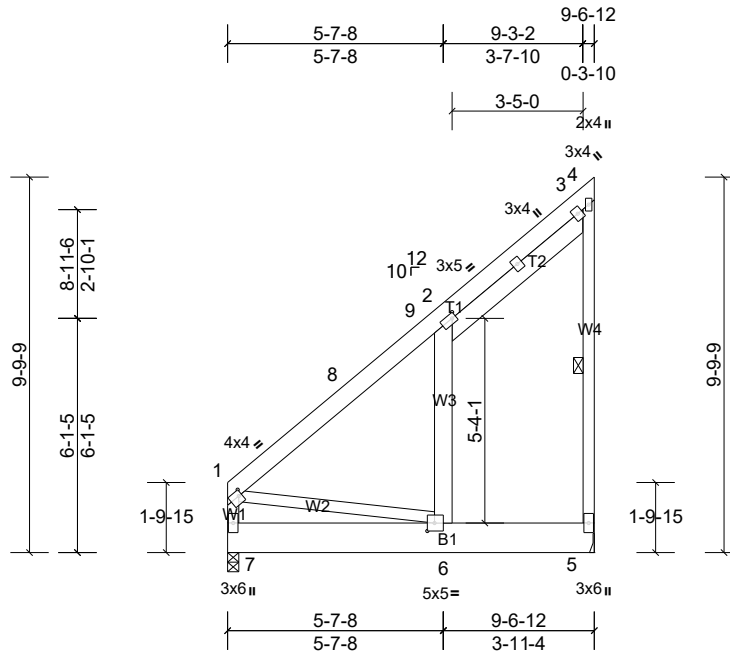


Plate Offsets (X, Y): [1:0-1-0,0-1-12], [2:0-1-4,0-1-8], [6:0-2-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.07	6-7	>999	240	MT20 244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.07	6-7	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 113 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3 *Except* W4:2x4 SP No.2,
W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.
WEBS 1 Row at midpt 4-5

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

REACTIONS (lb/size) 5=282/ Mechanical, (min. 0-1-8),
7=282/0-3-8, (min. 0-1-8)
Max Horiz 7=343 (LC 14)
Max Uplift 5=-301 (LC 14)
Max Grav 5=546 (LC 26), 7=410 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 1-8=-392/151, 8-9=-376/176, 2-9=-365/177
BOT CHORD 6-7=-491/283
WEBS 2-6=-277/371, 1-6=-285/498

- NOTES**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Plates checked for a plus or minus 20 degree rotation about its center.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job Q015240-R	Truss R12X	Truss Type Flat Girder	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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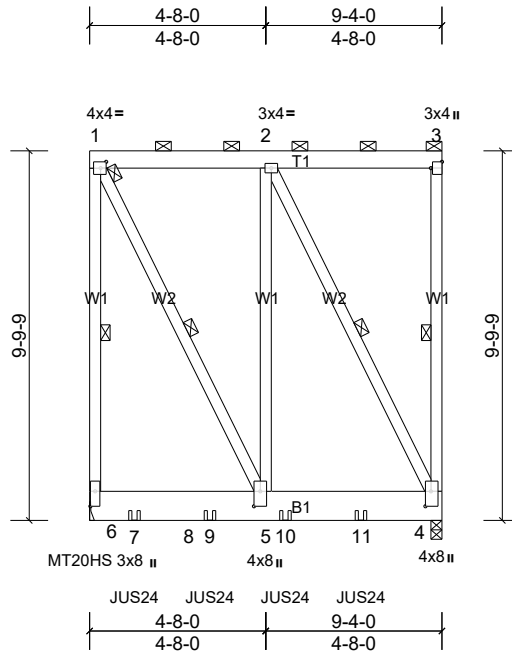


Plate Offsets (X, Y): [1:0-1-12,0-2-0], [3:Edge,0-3-8], [4:0-4-12,0-1-12], [5:0-4-12,0-2-0], [6:0-4-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.02	5-6	>999	240	MT20HS 187/143
Snow (Pf/Pg)	15.4/15.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.03	5-6	>999	180	MT20 244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 125 lb FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.2

BRACING
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 1-6, 3-4, 2-4, 1-5

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=788/0-3-8, (min. 0-1-10), 6=899/Mechanical, (min. 0-1-8)
 Max Horiz 6=-382 (LC 8)
 Max Uplift 4=-863 (LC 9), 6=-995 (LC 8)
 Max Grav 4=1351 (LC 25), 6=1577 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-995/694, 1-2=-432/238
 BOT CHORD 6-7=-331/298, 7-8=-331/298, 8-9=-331/298, 5-9=-331/298, 5-10=-402/505, 10-11=-402/505, 4-11=-402/505
 WEBS 2-4=-1053/715, 2-5=-457/835, 1-5=-715/1052

NOTES
 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 3) Unbalanced snow loads have been considered for this design.
 4) Provide adequate drainage to prevent water ponding.
 5) All plates are MT20 plates unless otherwise indicated.

- 6) Plates checked for a plus or minus 20 degree rotation about its center.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 995 lb uplift at joint 6.
- 11) Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-4 from the left end to 7-2-4 to connect truss(es) R12 (1 ply 2x10 SP) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-3=-51, 4-6=-20
 Concentrated Loads (lb)
 Vert: 7=-262, 9=-262, 10=-262, 11=-262

Job Q015240-R	Truss V1	Truss Type Valley	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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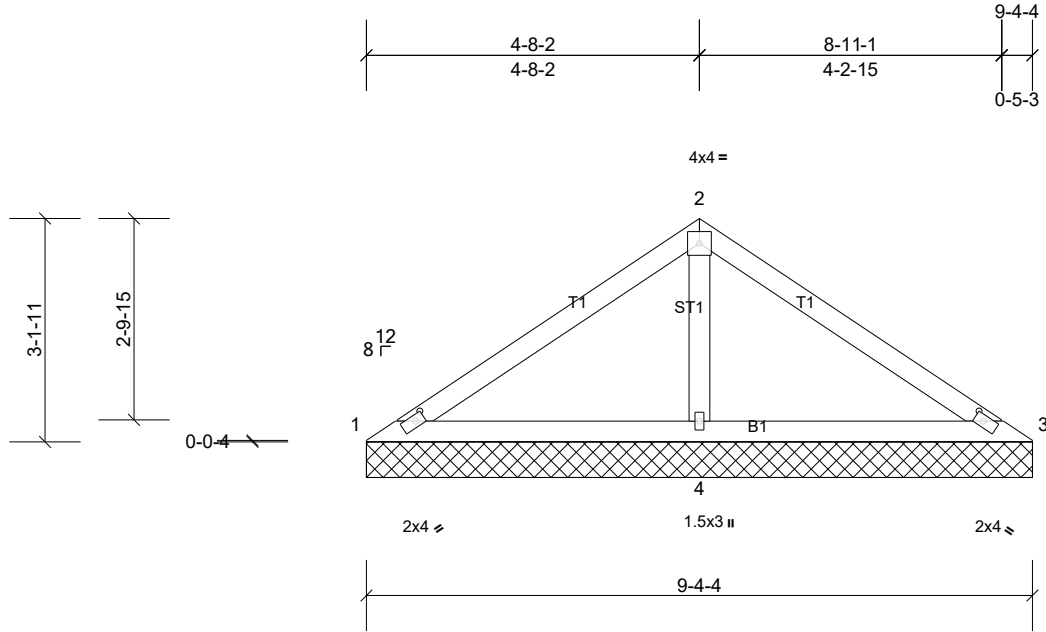


Plate Offsets (X, Y): [1:0-1-9,Edge], [3:0-1-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 33 lb	FT = 20%	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 9-4-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1, 22 lb uplift at joint 3 and 163 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=28/9-4-4, (min. 0-1-8),
 3=28/9-4-4, (min. 0-1-8),
 4=512/9-4-4, (min. 0-1-8)
 Max Horiz 1=-84 (LC 10)
 Max Uplift 1=-19 (LC 32), 3=-22 (LC 10),
 4=-163 (LC 14)
 Max Grav 1=75 (LC 31), 3=75 (LC 32), 4=673 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-130/304, 2-3=-130/304
 WEBS 2-4=-510/310

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-8-8, Exterior(2R) 4-8-8 to 7-8-8, Interior (1) 7-8-8 to 9-4-10 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10
 - 4) Plates checked for a plus or minus 20 degree rotation about its center.

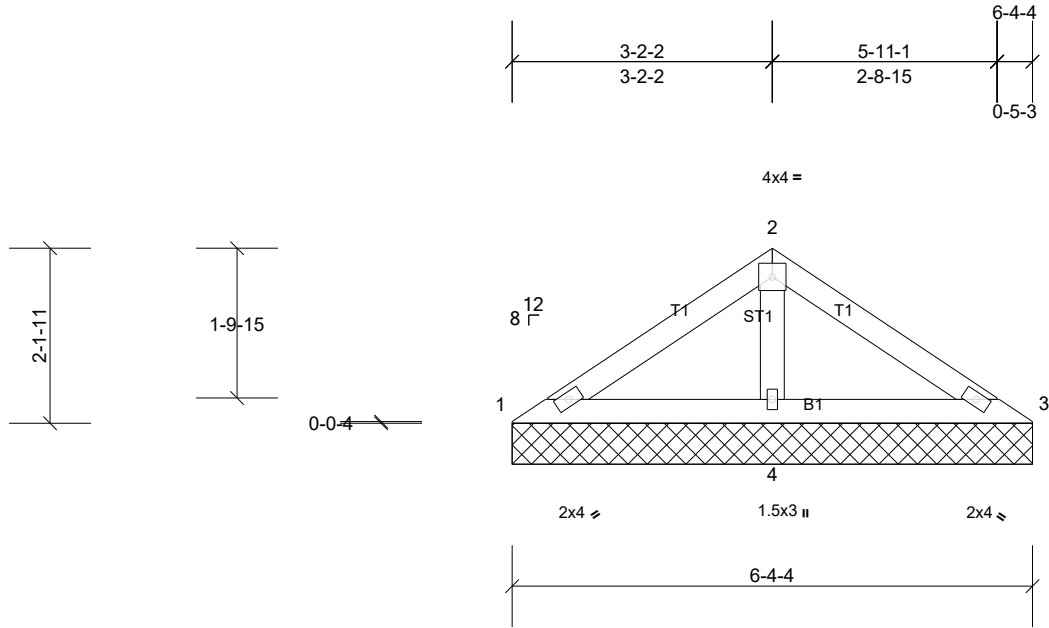
Job Q015240-R	Truss V2	Truss Type Valley	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 21 lb	FT = 20%	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-4-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * 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 8 lb uplift at joint 1, 18 lb uplift at joint 3 and 94 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=38/6-4-4, (min. 0-1-8), 3=38/6-4-4, (min. 0-1-8), 4=311/6-4-4, (min. 0-1-8)
 Max Horiz 1=56 (LC 11)
 Max Uplift 1=-8 (LC 14), 3=-18 (LC 15), 4=-94 (LC 14)
 Max Grav 1=69 (LC 31), 3=69 (LC 32), 4=409 (LC 2)

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

WEBS 2-4=-275/200

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.

Job Q015240-R	Truss V3	Truss Type Valley	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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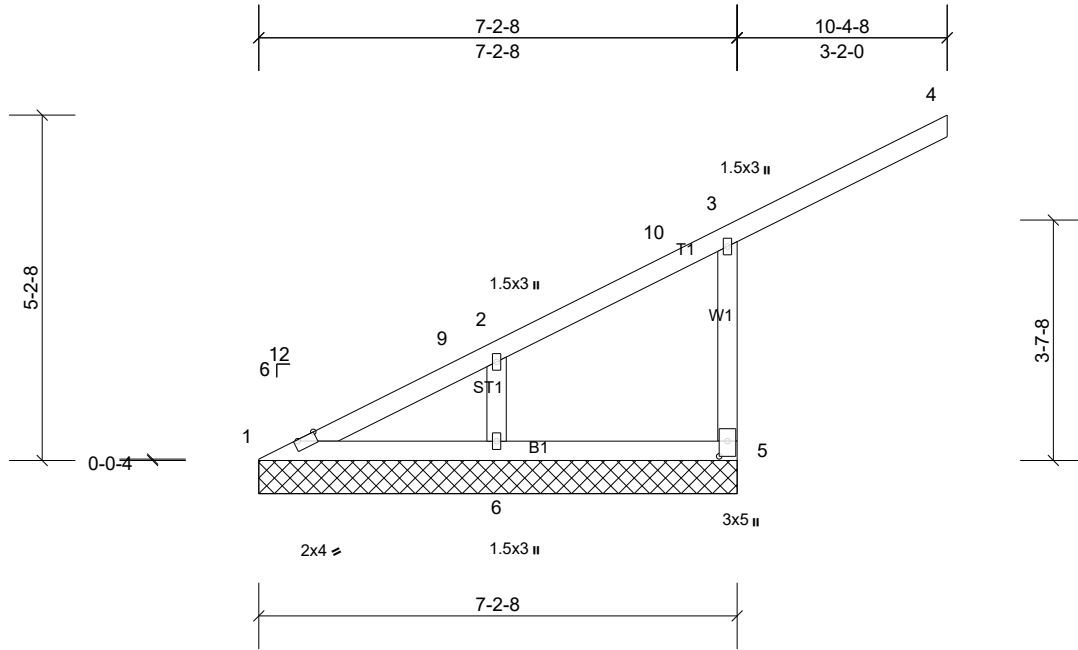


Plate Offsets (X, Y): [1:0-3-4,Edge], [5:0-2-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 33 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP 1650F 1.7E
 BOT CHORD 2x4 SP 1650F 1.7E
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- Plates checked for a plus or minus 20 degree rotation about its center.
- 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 266 lb uplift at joint 5 and 50 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REACTIONS (lb/size) 1=98/7-2-8, (min. 0-1-8),
 5=294/7-2-8, (min. 0-1-8),
 6=172/7-2-8, (min. 0-1-8)
 Max Horiz 1=220 (LC 13)
 Max Uplift 5=-266 (LC 13), 6=-50 (LC 16)
 Max Grav 1=136 (LC 31), 5=445 (LC 23),
 6=217 (LC 7)

LOAD CASE(S) Standard

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=-310/106, 2-9=-303/124, 2-10=-294/67,
 3-10=-282/92, 3-5=-424/505

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 10-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.

Job Q015240-R	Truss V4	Truss Type Valley	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Load Star®, Lavonia, GA 30553, BAC

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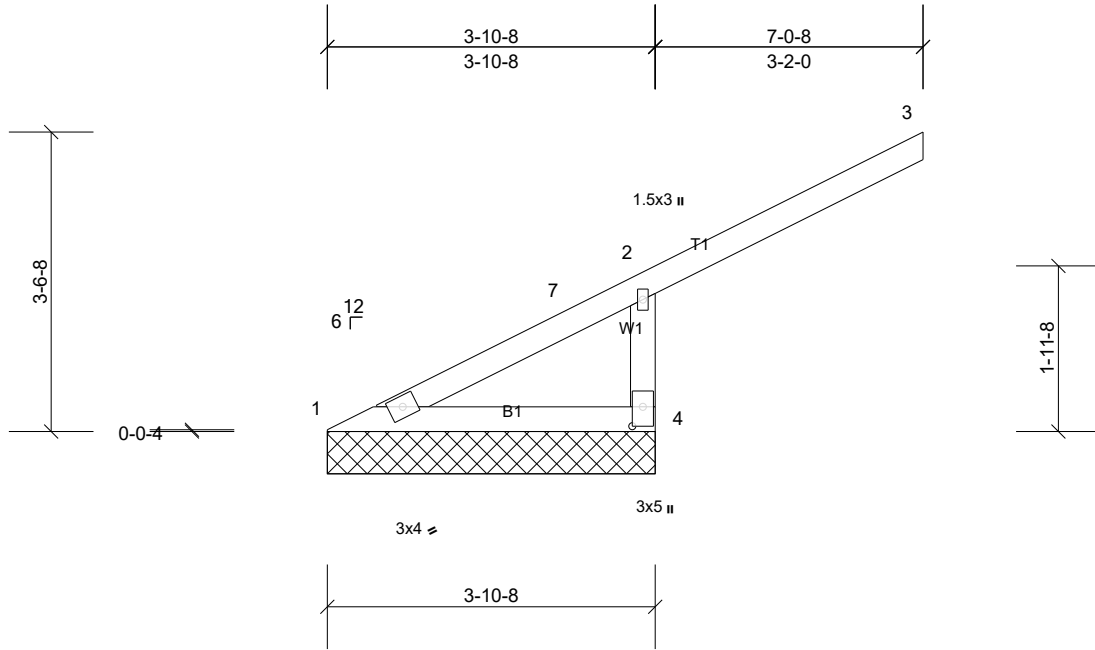


Plate Offsets (X, Y): [4:0-2-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 18 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 or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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 16 lb uplift at joint 1 and 239 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=53/3-10-8, (min. 0-1-8),
 4=308/3-10-8, (min. 0-1-8)

Max Horiz 1=145 (LC 13)
 Max Uplift 1=-16 (LC 22), 4=-239 (LC 16)
 Max Grav 1=102 (LC 13), 4=447 (LC 23)

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

TOP CHORD 1-7=-327/94, 2-7=-285/106, 2-4=-455/562
 BOT CHORD 1-4=-62/262

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 7-1-0 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 20 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.

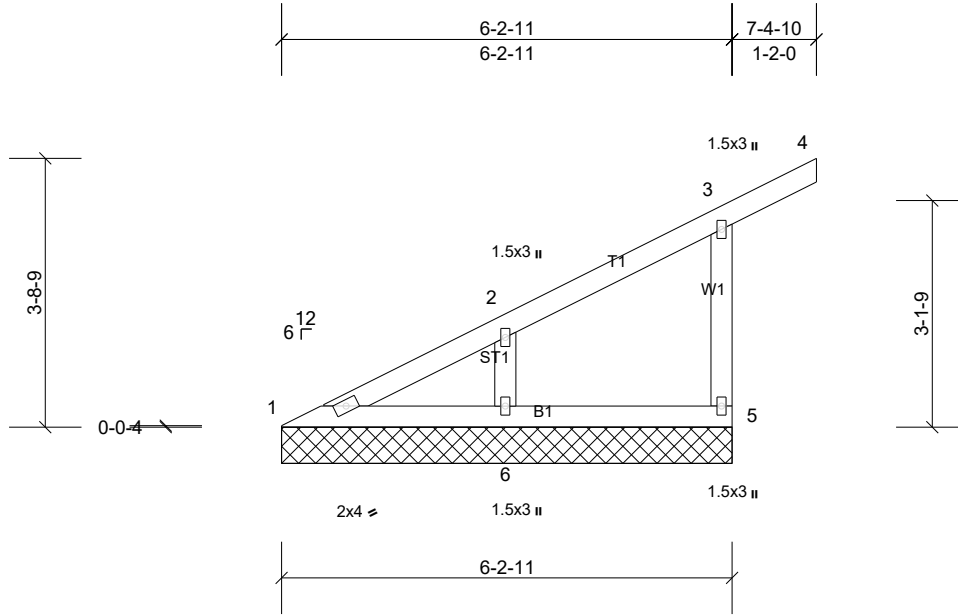
Job Q015240-R	Truss V5	Truss Type Valley	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 26 lb	FT = 20%	

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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 102 lb uplift at joint 5 and 105 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=75/6-2-11, (min. 0-1-8),
5=136/6-2-11, (min. 0-1-8),
6=212/6-2-11, (min. 0-1-8)
Max Horiz 1=156 (LC 13)
Max Uplift 5=-102 (LC 13), 6=-105 (LC 16)
Max Grav 1=104 (LC 31), 5=211 (LC 23),
6=276 (LC 2)

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

TOP CHORD 1-2=-263/126, 3-5=-189/252

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-1-9, Interior (1) 3-1-9 to 7-5-2 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.

Job Q015240-R	Truss V6	Truss Type Valley	Qty 1	Ply 1	Capers, Carlton DU-Roof Job Reference (optional)
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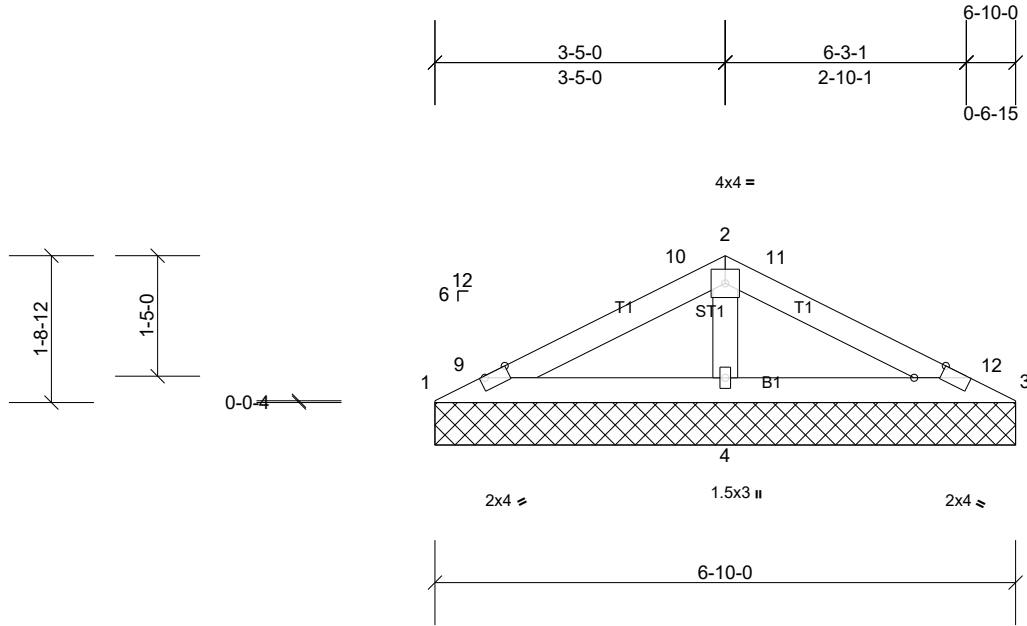


Plate Offsets (X, Y): [1:0-3-4,Edge], [3:0-3-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 21 lb	FT = 20%	

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=44/6-10-0, (min. 0-1-8),
 3=44/6-10-0, (min. 0-1-8),
 4=328/6-10-0, (min. 0-1-8)
 Max Horiz 1=30 (LC 20)
 Max Uplift 1=-19 (LC 16), 3=-25 (LC 17),
 4=-87 (LC 16)
 Max Grav 1=78 (LC 35), 3=78 (LC 36), 4=431 (LC 2)

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

WEBS 2-4=-285/253

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 3-5-8, Exterior(2R) 3-5-8 to 6-5-8, Interior (1) 6-5-8 to 6-10-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=15.0 psf; Pf=10.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- Plates checked for a plus or minus 20 degree rotation about its center.
- 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 19 lb uplift at joint 1, 25 lb uplift at joint 3 and 87 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard