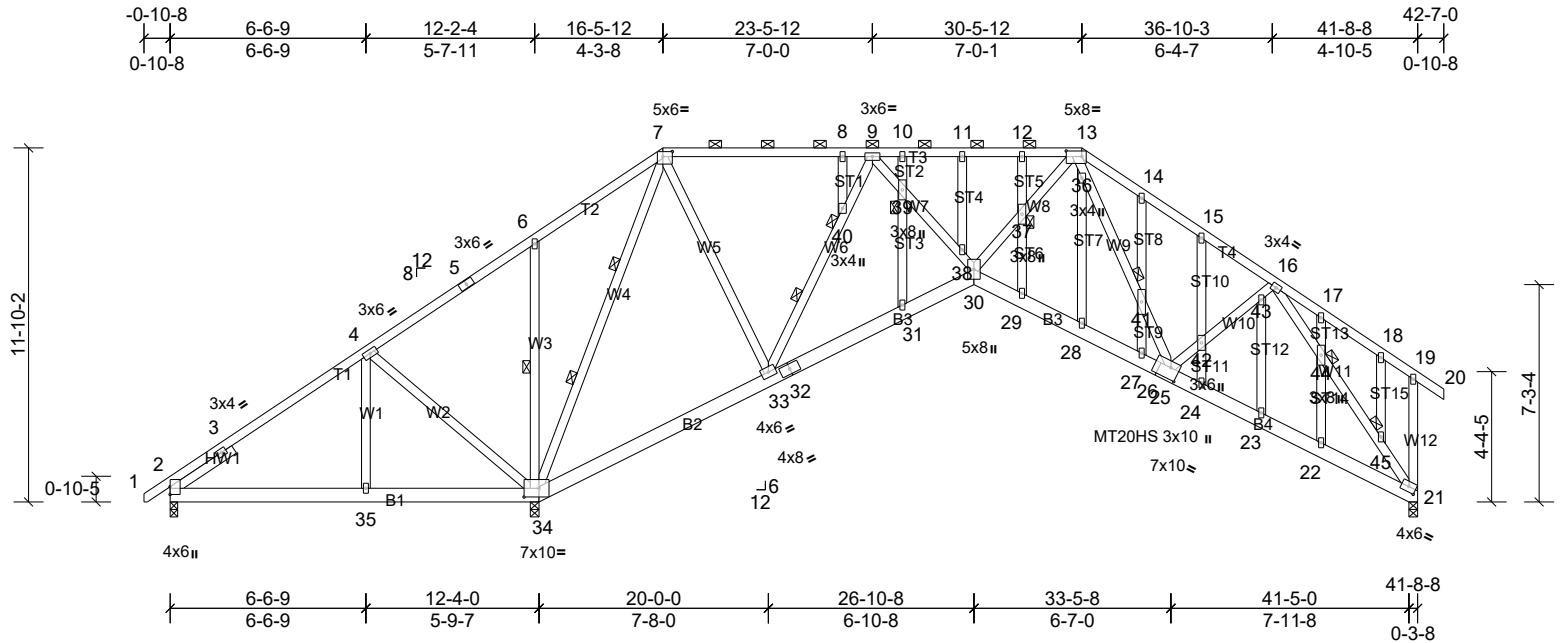


Job 4058931	Truss A01GE	Truss Type Piggyback Base	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:77.4

Plate Offsets (X, Y): [7:0-3-12,0-2-0], [13:0-6-4,0-2-4], [21:0-2-15,0-2-0], [26:0-3-8,0-4-8], [34:0-6-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.08	29-30	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.16	29-30	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.18	21	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
										Weight: 367 lb	FT = 20%	

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* W7:2x4 SP No.2
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-11 max.): 7-13.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-34, 33-40
 WEBS 2 Rows at 1/3 pts 7-34
 JOINTS 1 Brace at Jt(s): 37, 39, 40, 41, 44, 45

REACTIONS (lb/size) 2=-20/0-3-0, (min. 0-1-8), 21=877/0-3-8, (min. 0-1-8), 34=2114/0-3-8, (min. 0-2-12)
 Max Horiz 2=272 (LC 13)
 Max Uplift 2=-212 (LC 31), 21=-62 (LC 15), 34=-63 (LC 11)
 Max Grav 2=131 (LC 30), 21=1026 (LC 2), 34=2353 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-212/480, 3-4=-43/577, 4-5=-74/764, 5-6=-52/886, 6-7=-7/881, 7-8=-306/149, 8-9=-306/149, 9-10=-1313/150, 10-11=-1313/150, 11-12=-1313/150, 12-13=-1313/150, 13-14=-1191/237, 14-15=-1174/191, 15-16=-1207/144
 BOT CHORD 2-35=-441/195, 34-35=-441/149, 32-33=-155/830, 31-32=-151/862, 30-31=-138/871, 29-30=-22/1144, 28-29=-9/1055, 27-28=-10/1130, 26-27=-21/1049, 25-26=-25/1041, 24-25=-73/905, 23-24=-60/812, 22-23=-75/862, 21-22=-63/816
 WEBS 4-35=-137/296, 4-34=-513/281, 6-34=-299/153, 9-39=0/836, 38-39=0/888, 30-38=0/794, 30-37=-137/568, 13-37=-125/521, 16-44=-1339/55, 44-45=-1302/47, 21-45=-1350/60, 25-42=-31/324, 42-43=-37/267, 16-43=0/362, 13-36=-154/307, 7-34=-1677/40, 7-33=0/894, 33-40=-1206/104, 9-40=-1129/75

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Job 4058931	Truss A01GE	Truss Type Piggyback Base	Qty 2	Ply 1	Job Reference (optional)
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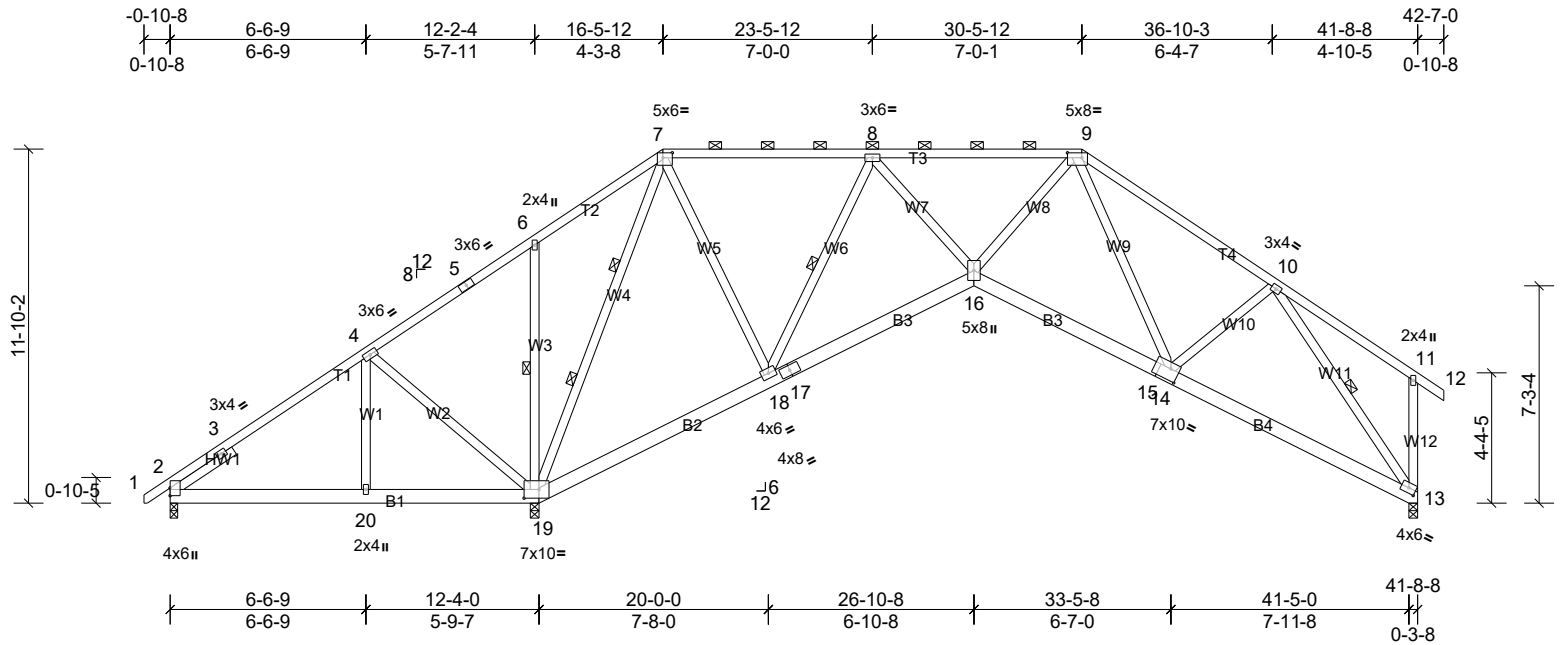
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2, 63 lb uplift at joint 34 and 62 lb uplift at joint 21.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . 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=1.00
Uniform Loads (lb/ft)
Vert: 1-7=-44, 7-13=-60, 13-19=-44, 19-20=-44, 34-46=-20, 30-34=-20, 21-30=-20

Job 4058931	Truss A02	Truss Type Piggyback Base	Qty 14	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
ID:cNEeQxNWVeuQBxtUICis8z9KS6-CWiWBtfeNFR3MqIQAdG8oj3pjlWd7Sn7Kp3BWsz8kJP



Scale = 1:77.4

Plate Offsets (X, Y): [7:0-3-12,0-2-0], [9:0-5-12,0-2-0], [13:0-2-15,0-2-0], [15:0-3-8,0-4-8], [19:0-6-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.07	16	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.15	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.17	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 306 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-9 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-19, 10-13, 8-18
WEBS 2 Rows at 1/3 pts 7-19

REACTIONS (lb/size) 2=1/0-3-0, (min. 0-1-8), 13=886/0-3-8, (min. 0-1-8), 19=2084/0-3-8, (min. 0-2-12)
Max Horiz 2=272 (LC 13)
Max Uplift 2=-193 (LC 31), 13=-60 (LC 15), 19=-55 (LC 11)
Max Grav 2=155 (LC 30), 13=1034 (LC 2), 19=2325 (LC 2)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-216/468, 3-4=-34/546, 4-5=-65/732, 5-6=-42/853, 6-7=0/847, 7-8=-314/142, 8-9=-1320/134, 9-10=-1249/170
BOT CHORD 2-20=-416/196, 19-20=-416/153, 17-18=-177/866, 16-17=-173/915, 15-16=-38/1139, 14-15=-41/1080, 13-14=-102/884
WEBS 4-20=-137/295, 4-19=-511/281, 6-19=-299/151, 8-16=0/822, 9-16=-101/527, 10-13=-1360/106, 10-14=-25/293, 7-19=-1662/33, 7-18=0/899, 8-18=-1208/115

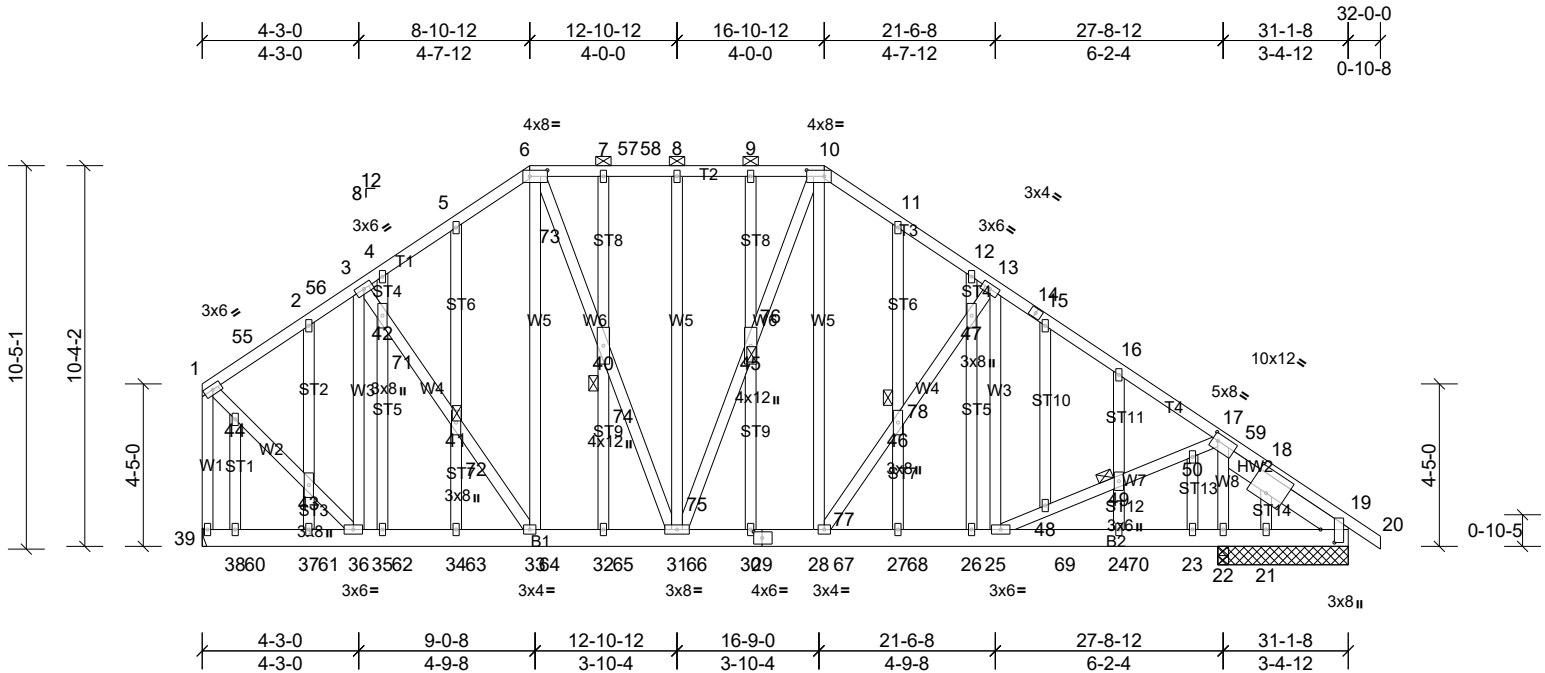
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2, 55 lb uplift at joint 19 and 60 lb uplift at joint 13.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)

Job 4058931	Truss A02	Truss Type Piggyback Base	Qty 14	Ply 1	Job Reference (optional)
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Vert: 1-7=-44, 7-9=-60, 9-11=-44, 11-12=-44, 19-21=-20, 16-19=-20, 13-16=-20

Job 4058931	Truss B01GE	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional)
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Scale = 1:62.8

***** Design Problems *****
REVIEW REQUIRED

Plate Offsets (X, Y): [6:0-5-12,0-2-0], [10:0-5-12,0-2-0], [17:0-1-12,0-2-4], [18:0-6-0,0-7-8], [19:0-4-4,0-4-8], [29:0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.04	24-25	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.06	27-28	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TP12014	Matrix-MS								
BCDL	10.0											
										Weight: 769 lb	FT = 20%	

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Right 2x6 SP No.2 -- 3-11-3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 24-25,23-24,22-23,21-22,19-21.
 JOINTS 1 Brace at Jt(s): 40, 41, 45, 46, 49

REACTIONS All bearings 3-6-8. except 39= Mechanical
 (lb) - Max Horiz 39=-238 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 19, 51 except 21=-511 (LC 35), 22=-462 (LC 13), 39=-316 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 19, 21, 51 except 22=3428 (LC 35), 39=2496 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-55=-1712/259, 2-55=-1608/222, 2-56=-1720/291, 3-56=-1585/257, 3-4=-1901/296, 4-5=-1933/309, 5-6=-1893/336, 6-7=-1775/325, 7-57=-1775/325, 57-58=-1775/325, 8-58=-1775/325, 8-9=-1775/325, 9-10=-1775/325, 10-11=-2037/373, 11-12=-2083/331, 12-13=-2116/317, 13-14=-2038/331, 14-15=-2079/323, 15-16=-2213/323, 16-17=-2241/270, 1-39=-2212/303
 BOT CHORD 35-36=-253/1439, 35-62=-253/1439, 34-62=-253/1439, 34-63=-253/1439, 33-63=-253/1439, 33-64=-236/1610, 32-64=-236/1610, 32-65=-236/1610, 31-65=-236/1610, 31-66=-203/1698, 30-66=-203/1698, 29-30=-203/1698, 28-29=-203/1698, 28-67=-174/1794, 27-67=-174/1794, 27-68=-174/1794, 26-68=-174/1794, 25-26=-174/1794
 WEBS 3-36=-480/89, 3-42=-64/370, 42-71=-146/538, 41-71=-67/422, 41-72=-161/550, 33-72=-82/429, 6-33=-69/337, 6-73=-160/695, 40-73=-95/561, 40-74=-182/781, 31-74=-123/632, 8-31=-322/54, 45-75=-125/387, 10-76=-103/333, 10-28=-155/751, 28-77=-445/158, 46-77=-341/108, 46-78=-441/167, 47-78=-337/115, 13-47=-389/126, 25-48=-203/2007, 48-49=-198/1952, 49-50=-201/1974, 17-50=-199/1973, 17-22=-2158/274, 1-44=-199/1778, 43-44=-224/1918, 36-43=-219/1930, 32-40=-344/118, 34-41=-251/125, 35-42=-325/78, 2-43=-290/156, 37-43=-305/149, 30-45=-294/110, 18-21=-376/70

- 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 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Special connection required to distribute web loads equally between all plies.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4058931	B01GE	Piggyback Base Girder	1	2	

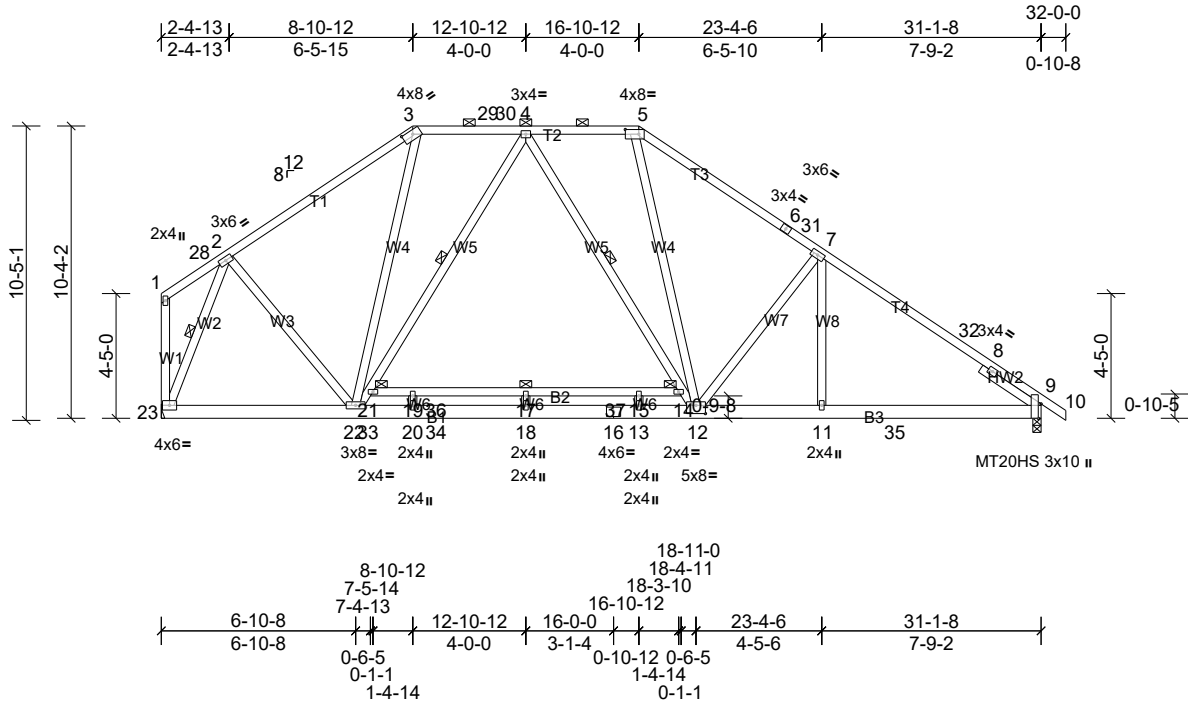
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 6) 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.
- 7) ** TCCL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 8) Roof design snow load has been reduced to account for slope.
- 9) Unbalanced snow loads have been considered for this design.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 11) Provide adequate drainage to prevent water ponding.
- 12) All plates are 2x4 MT20 unless otherwise indicated.
- 13) Gable studs spaced at 2-0-0 oc.
- 14) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 15) * 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.
- 16) Refer to girder(s) for truss to truss connections.
- 17) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 19 except (jt=lb) 39=315, 22=461, 21=510.
- 18) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 19) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 20) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 149 lb down and 103 lb up at 6-9-4 on top chord, and 74 lb down at 6-9-4, 74 lb down at 8-9-4, 74 lb down at 10-9-4, 74 lb down at 12-9-4, 74 lb down at 14-9-4, 74 lb down at 16-9-4, 74 lb down at 18-9-4, 74 lb down at 20-9-4, 74 lb down at 22-9-4, 74 lb down at 24-9-4, 74 lb down at 26-9-4, and 248 lb down and 37 lb up at 28-9-4, and 337 lb down and 70 lb up at 30-9-4 on bottom 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=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-44, 6-10=-60, 10-20=-44, 39-51=-20
Concentrated Loads (lb)
Vert: 29=-47 (F), 25=-173 (F), 55=-82 (F), 56=-126 (F), 60=-47 (F), 61=-47 (F), 62=-47 (F), 63=-47 (F), 64=-47 (F), 65=-47 (F), 66=-47 (F), 67=-47 (F), 68=-47 (F), 69=-248 (F), 70=-337 (F), 71=-126 (F), 72=-126 (F), 73=-126 (F), 74=-126 (F), 75=-126 (F), 76=-126 (F), 77=-126 (F), 78=-126 (F)

Job 4058931	Truss B02	Truss Type Piggyback Base	Qty 4	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
 ID:E8wX6i7JOK3UOKJasj6DCRz9J4f-CWiwBtefNR3MqIQAdG8oj3pnlMb7Zb7Kp3BWsz8kjP



Scale = 1:81.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.35	17-19	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.59	17-19	>633	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 254 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T1:2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-7 max.): 3-5.
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2, B3:2x6 SP 2400F 2.0E or 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 14-21
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-23, 4-21, 4-14
SLIDER Right 2x4 SP No.3 -- 2-6-0	
REACTIONS (lb/size) 9=1178/0-3-8, (min. 0-1-10), 23=1200/ Mechanical, (min. 0-1-8) Max Horiz 23=-238 (LC 14) Max Grav 9=1580 (LC 49), 23=1630 (LC 45)	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1437/93, 3-29=-993/132, 29-30=-993/132, 4-30=-993/132, 4-5=-1374/127, 5-6=-1831/94, 6-31=-1949/56, 7-31=-1979/55, 7-32=-1972/79, 8-32=-2168/46, 8-9=-858/0
BOT CHORD	22-23=-62/766, 22-33=0/1212, 20-33=0/1212, 20-34=0/1212, 18-34=0/1212, 16-18=0/1212, 13-16=0/1212, 12-13=0/1212, 11-12=0/1730, 11-35=0/1730, 9-35=0/1730
WEBS	2-22=0/757, 3-22=0/453, 5-12=0/714, 7-12=-520/225, 2-23=-1819/66, 21-22=-562/83, 4-21=-530/95, 4-14=-35/448, 12-14=-50/433

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

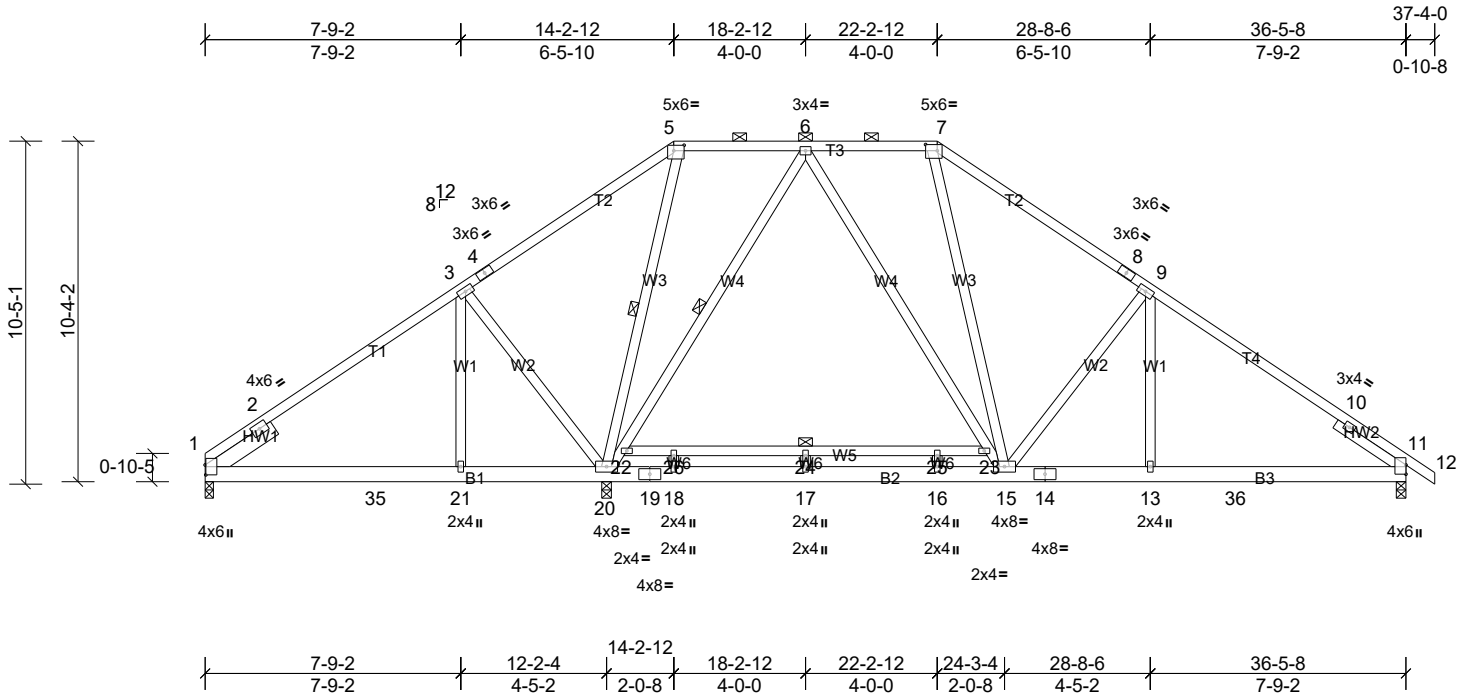
LOAD CASE(S) Standard

Job 4058931	Truss B02	Truss Type Piggyback Base	Qty 4	Ply 1	Job Reference (optional)
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- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-3=-44, 3-5=-60, 5-10=-44, 23-24=-20, 14-21=-20

Job 4058931	Truss B03	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
ID:mFatBu1bFgeF4tTff5de_Vz93kE-CWiWBteftNR3MqlQAdG8oj3stIU67Yv7Kp3BWsz8kjP



Scale = 1:70.3

Plate Offsets (X, Y): [1:0-3-10,0-0-4], [5:0-3-12,0-2-0], [7:0-4-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.11	17	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.22	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.02	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 276 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W5:2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-4-14, Right 2x4 SP No.3 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.); 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-20, 6-20, 22-23

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

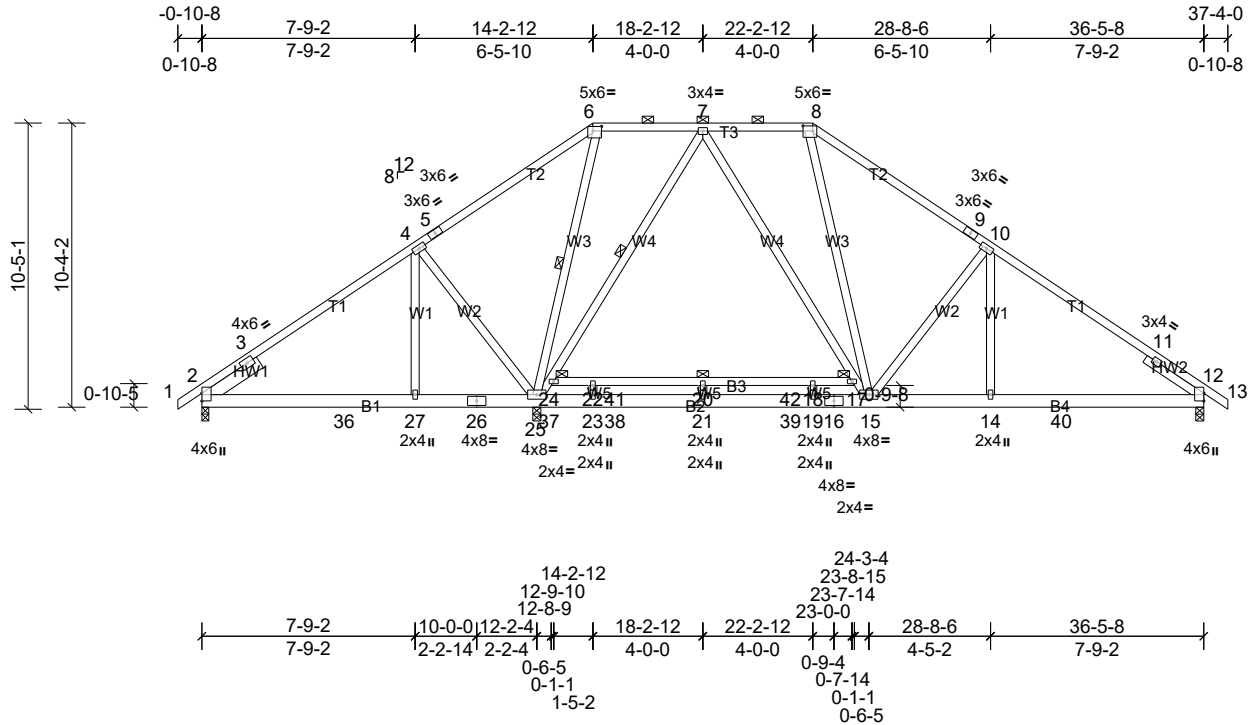
REACTIONS (lb/size) 1=359/0-3-0, (min. 0-1-8), 11=837/0-3-8, (min. 0-1-8),
20=1310/0-3-8, (min. 0-1-12)
Max Horiz 1=-192 (LC 12)
Max Uplift 1=-46 (LC 14), 11=-74 (LC 15)
Max Grav 1=479 (LC 30), 11=1014 (LC 2), 20=1495 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-252/132, 2-3=-368/269, 6-7=-645/210, 7-8=-815/211, 8-9=-935/171, 9-10=-1137/164, 10-11=-480/0
BOT CHORD 1-35=-188/402, 21-35=-162/362, 20-21=-162/362, 19-20=-28/419, 18-19=-28/419, 17-18=-28/419, 16-17=-28/419,
15-16=-28/419, 14-15=-24/946, 13-14=-24/946, 13-36=-24/946, 11-36=-24/946
WEBS 3-20=-517/334, 7-15=-14/255, 9-15=-529/181, 5-20=-323/30, 6-23=-31/504, 15-23=-34/482, 20-22=-752/62, 6-22=-749/67

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1 and 74 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-5=-44, 5-7=-60, 7-12=-44, 27-31=-20

Job 4058931	Truss B04	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:84.2

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

Loading	(psf)	Spacing		2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL		1.00	TC	0.47	Vert(LL)	-0.34	18-20	>851	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL		1.15	BC	0.98	Vert(CT)	-0.57	18-20	>515	180		
TCDL	10.0	Rep Stress Incr		YES	WB	0.64	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014		Matrix-AS								
BCDL	10.0												
												Weight: 278 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 2-4-14, Right 2x4 SP No.3 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 17-24
 WEBS 1 Row at midpt 6-25, 7-24

REACTIONS (lb/size) 2=384/0-3-0, (min. 0-1-8), 12=885/0-3-8, (min. 0-1-8), 25=1499/0-3-8, (min. 0-2-4)
 Max Horiz 2=195 (LC 13)
 Max Uplift 2=-66 (LC 14), 12=-45 (LC 15)
 Max Grav 2=517 (LC 30), 12=1106 (LC 27), 25=1898 (LC 3)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-255/151, 3-4=-332/285, 7-8=-819/163, 8-9=-1053/144, 9-10=-1154/105, 10-11=-1280/120, 11-12=-574/0
 BOT CHORD 2-36=-196/346, 27-36=-175/293, 26-27=-175/293, 25-26=-175/293, 25-37=0/514, 23-37=0/514, 23-38=0/514, 21-38=0/514, 21-39=0/514, 19-39=0/514, 16-19=0/514, 15-16=0/514, 14-15=0/1046, 14-40=0/1046, 12-40=0/1046
 WEBS 6-25=-324/32, 4-25=-452/359, 8-15=0/377, 10-15=-394/210, 24-25=-889/11, 7-24=-873/23, 7-17=0/702, 15-17=0/662

NOTES

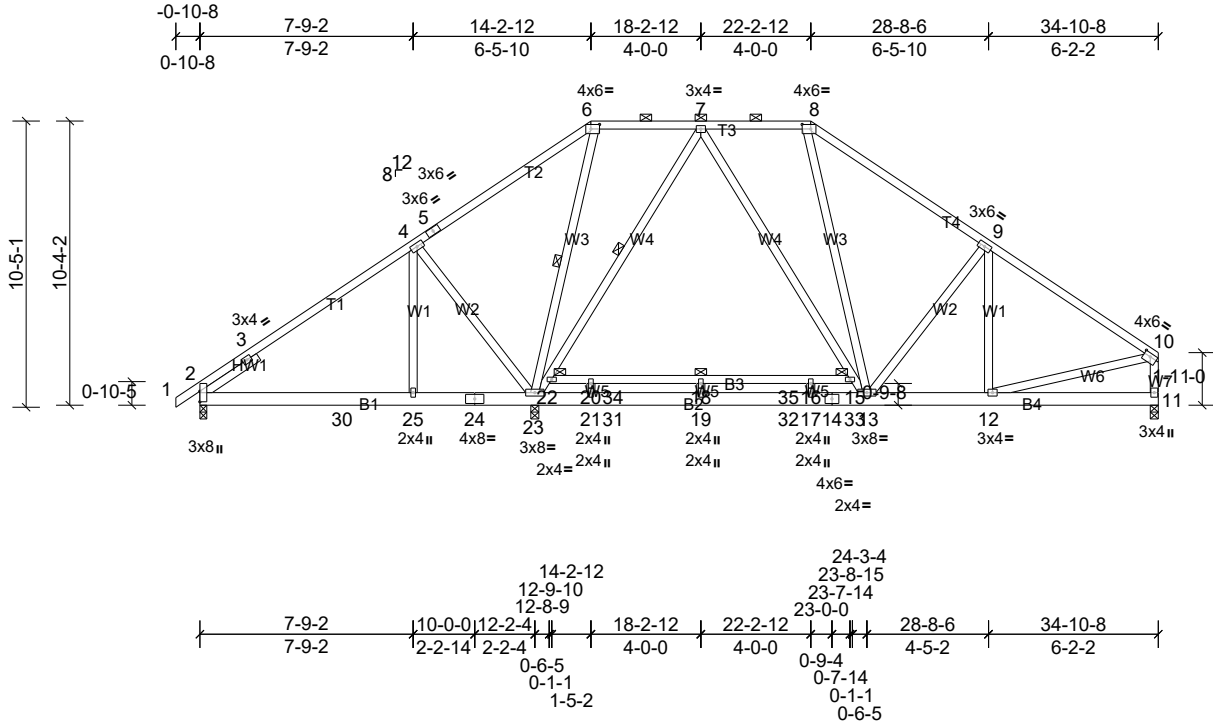
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 45 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-6=-44, 6-8=-60, 8-13=-44, 28-32=-20, 17-24=-20

Job 4058931	Truss B05	Truss Type Piggyback Base	Qty 3	Ply 1	Job Reference (optional)
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 ID: X4HJ5sW12Xe0zNvfaodwiOz9_sS-CWiWBtefNR3MqlQAdG8oj3sjlLN7Zl7Kp3BWsz8kjP Page: 1



Scale = 1:84.2

Plate Offsets (X, Y): [6:0-3-12,0-2-0], [8:0-3-12,0-2-0], [10:0-3-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL) -0.34	18	>801	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT) -0.56	16-18	>485	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT) 0.02	2	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS						
BCDL	10.0									Weight: 275 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 15-22
 WEBS 1 Row at midpt 6-23, 7-22

REACTIONS (lb/size) 2=409/0-3-0, (min. 0-1-8), 11=809/0-3-8, (min. 0-1-8), 23=1402/0-3-8, (min. 0-2-1)
 Max Horiz 2=213 (LC 13)
 Max Uplift 2=-59 (LC 14), 11=-11 (LC 15)
 Max Grav 2=543 (LC 30), 11=955 (LC 2), 23=1756 (LC 3)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-340/252, 3-4=-374/262, 7-8=-726/152, 8-9=-1023/126, 9-10=-1048/94, 10-11=-874/75
 BOT CHORD 2-30=-212/338, 25-30=-197/338, 24-25=-197/338, 23-24=-197/338, 21-23=-31/472, 21-31=-31/472, 19-31=-31/472, 19-32=-31/472, 17-32=-31/472, 14-17=-31/472, 14-33=-31/472, 13-33=-31/472, 12-13=-20/798
 WEBS 4-23=-449/366, 8-13=0/307, 9-12=-313/7, 10-12=0/710, 6-23=-298/37, 22-23=-769/22, 7-22=-751/36, 7-15=-1/584, 13-15=-15/548

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2 and 11 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

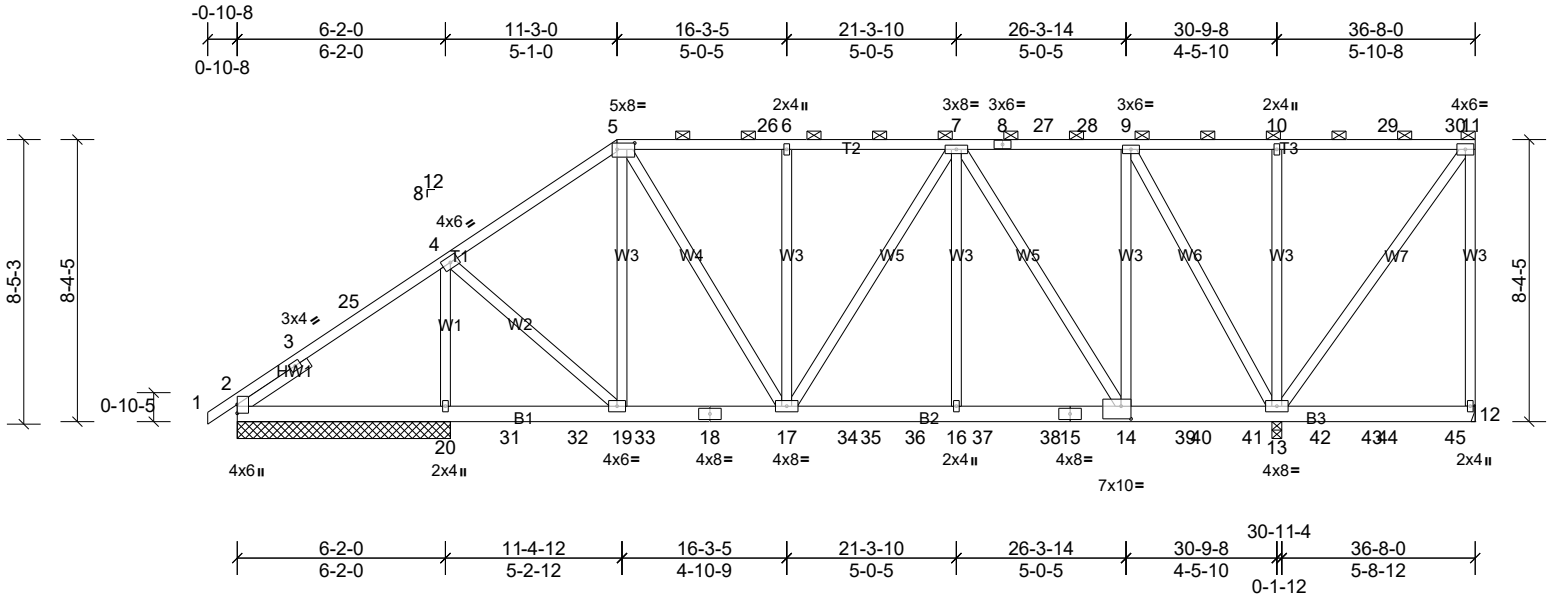
LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)

Job 4058931	Truss B05	Truss Type Piggyback Base	Qty 3	Ply 1	Job Reference (optional)
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Vert: 1-6=-44, 6-8=-60, 8-10=-44, 11-26=-20, 15-22=-20

Job 4058931	Truss C01GE	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional)
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 ID:DuhevJeMLnh4YeXzFym4xnz9_EG-giGuOCfHehZw_KdkKnLwb1XipUswHHYSpl2lz8kjO



Scale = 1:68.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	17-19	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.07	16-17	>999	180		
TCDL	10.0	Rep Stress Incr		WB	0.79	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 599 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-11.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-20,19-20.

REACTIONS All bearings 6-3-12. except 12= Mechanical, 13=0-3-8
 (lb) - Max Horiz 2=243 (LC 12), 21=243 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-104 (LC 47), 12=-113 (LC 15), 13=-994 (LC 9), 20=-522 (LC 12), 21=-104 (LC 47)
 Max Grav All reactions 250 (lb) or less at joint(s) 12 except 2=359 (LC 32), 13=3656 (LC 31), 20=3113 (LC 31), 21=359 (LC 32)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-264/454, 4-5=-1747/376, 5-26=-1944/482, 6-26=-1944/482, 6-7=-1944/482, 7-8=-830/221, 8-27=-830/221, 27-28=-830/221, 9-28=-830/221, 9-10=-76/304, 10-29=-76/304, 29-30=-76/304, 11-30=-76/304
 BOT CHORD 2-20=-267/120, 20-31=-267/120, 31-32=-267/120, 19-32=-267/120, 19-33=-341/1414, 18-33=-341/1414, 17-18=-341/1414, 17-34=-434/1670, 34-35=-434/1670, 35-36=-434/1670, 16-36=-434/1670, 16-37=-434/1670, 37-38=-434/1670, 15-38=-434/1670, 14-15=-434/1670, 14-39=-221/830, 39-40=-221/830, 40-41=-221/830, 13-41=-221/830
 WEBS 4-20=-2528/516, 4-19=-412/2047, 5-17=-351/1033, 6-17=-610/103, 7-17=-91/513, 7-16=-184/705, 7-14=-1578/412, 9-14=-486/1720, 9-13=-2322/605, 10-13=-665/135, 11-13=-543/137

- 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 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.

Job 4058931	Truss C01GE	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional)
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- 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, with BCDL = 10.0psf.
- 13) Refer to girder(s) for truss to truss connections.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 12, 103 lb uplift at joint 2, 522 lb uplift at joint 20, 994 lb uplift at joint 13 and 103 lb uplift at joint 2.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 54 lb up at 34-1-0, and 77 lb down and 54 lb up at 36-1-0 on top chord, and 455 lb down and 52 lb up at 8-1-0, 431 lb down and 41 lb up at 10-1-0, 378 lb down and 64 lb up at 12-1-0, 299 lb down and 82 lb up at 14-1-0, 330 lb down and 134 lb up at 16-1-0, 185 lb down and 94 lb up at 18-1-0, 185 lb down and 94 lb up at 20-1-0, 185 lb down and 94 lb up at 22-1-0, 185 lb down and 94 lb up at 24-1-0, 185 lb down and 94 lb up at 26-1-0, 185 lb down and 94 lb up at 28-1-0, 185 lb down and 94 lb up at 30-1-0, 185 lb down and 94 lb up at 32-1-0, and 185 lb down and 94 lb up at 34-1-0, and 191 lb down and 90 lb up at 36-1-0 on bottom 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=1.00

Uniform Loads (lb/ft)

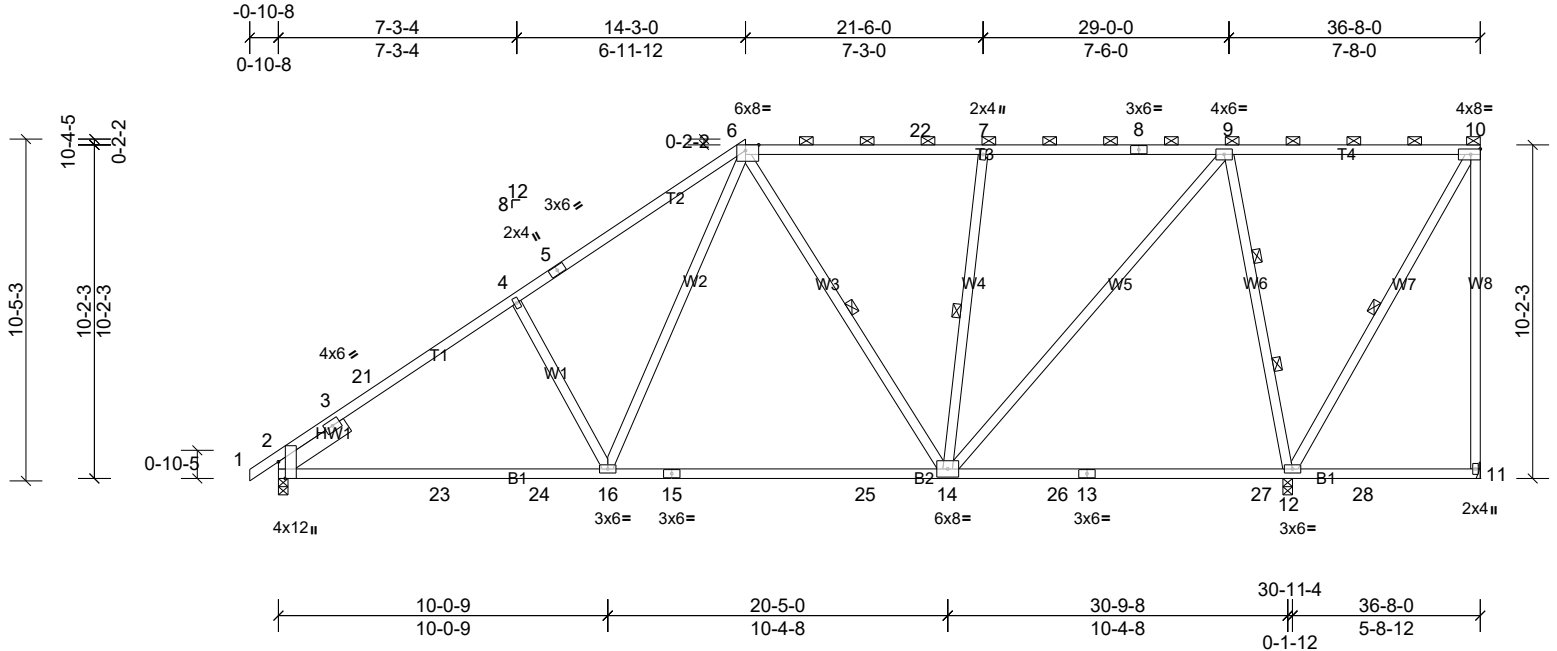
Vert: 1-5=-44, 5-11=-60, 12-21=-20

Concentrated Loads (lb)

Vert: 18=-299 (F), 17=-330 (F), 14=-118 (F), 29=-11 (F), 30=-17 (F), 31=-455 (F), 32=-431 (F), 33=-378 (F), 34=-118 (F), 36=-118 (F), 37=-118 (F), 38=-118 (F), 39=-118 (F), 41=-118 (F), 42=-118 (F), 44=-118 (F), 45=-124 (F)

Job 4058931	Truss C02	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
ID:uYwQAAdCXLDw0XvkQQuNytAz8zyl-CWiWBteftNR3MqIQAdG8oj3nJIMS7TG7Kp3BWsz8kjP



Scale = 1:70.6

Plate Offsets (X, Y): [2:0-6-2,Edge], [6:0-4-13,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.30	14-16	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49	12-14	>760	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.04	11	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS							
BCDL	10.0										Weight: 241 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* T1:2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1
 WEBS 2x4 SP No.3 *Except* W5:2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-13 max.): 6-10.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 10-12, 6-14, 7-14
 WEBS 2 Rows at 1/3 pts 9-12

REACTIONS (lb/size) 2=1039/0-3-8, (min. 0-1-9), 11=-95/ Mechanical, (min. 0-1-8), 12=1791/0-3-8, (min. 0-3-2)
 Max Horiz 2=299 (LC 16)
 Max Uplift 2=-10 (LC 16), 11=-217 (LC 36), 12=-87 (LC 13)
 Max Grav 2=1326 (LC 40), 11=-23 (LC 16), 12=2626 (LC 35)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-793/0, 3-21=-1755/70, 4-21=-1578/98, 4-5=-1590/120, 5-6=-1433/161, 6-22=-973/106, 7-22=-976/105, 7-8=-1068/120, 8-9=-1068/120, 10-11=0/278
 BOT CHORD 2-23=-348/1441, 23-24=-260/1441, 16-24=-260/1441, 15-16=-158/998, 15-25=-158/998, 14-25=-158/998
 WEBS 9-12=-2027/255, 10-12=-530/22, 6-16=-73/852, 4-16=-517/204, 6-14=-405/125, 7-14=-851/146, 9-14=-124/1453

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) ** TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Ps=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 4) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 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 BCCL = 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 217 lb uplift at joint 11, 10 lb uplift at joint 2 and 87 lb uplift at joint 12.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

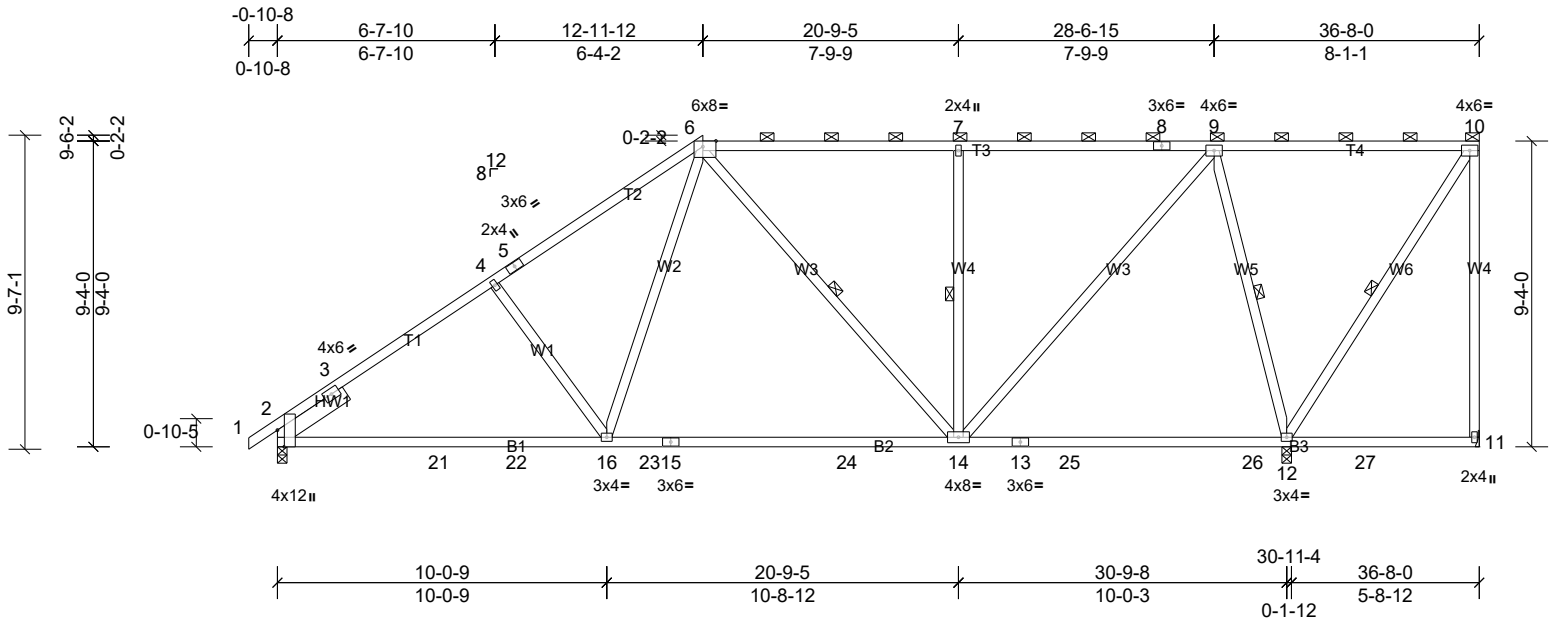
LOAD CASE(S) Standard

Job 4058931	Truss C02	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-44, 6-10=-60, 11-17=-20

Job 4058931	Truss C03	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
ID: OXsmLL5R3e16ieVLwa9?3az8zv0-CWIWBteftNR3MqlQAdG8oj3mJILH7WC7Kp3BWsz8kJP



Scale = 1:70.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.36	14-16	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.57	14-16	>649	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 233 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-6 max.): 6-10.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-12, 10-12, 6-14, 7-14

REACTIONS (lb/size) 2=1034/0-3-8, (min. 0-1-8), 11=-172/ Mechanical, (min. 0-1-8), 12=1893/0-3-8, (min. 0-2-8)
Max Horiz 2=273 (LC 14)
Max Uplift 2=-6 (LC 14), 11=-206 (LC 3), 12=-108 (LC 11)
Max Grav 2=1210 (LC 26), 11=-8 (LC 14), 12=2118 (LC 3)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-779/0, 3-4=-1561/106, 4-5=-1422/105, 5-6=-1339/142, 6-7=-831/104, 7-8=-829/103, 8-9=-829/103, 9-10=-26/281, 10-11=0/292
BOT CHORD 2-21=-321/1272, 21-22=-249/1272, 16-22=-249/1272, 16-23=-155/952, 15-23=-155/952, 15-24=-155/952, 14-24=-155/952
WEBS 9-12=-1396/249, 10-12=-549/55, 6-16=-33/628, 4-16=-291/185, 6-14=-261/110, 7-14=-489/152, 9-14=-105/1199

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 11, 6 lb uplift at joint 2 and 108 lb uplift at joint 12.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

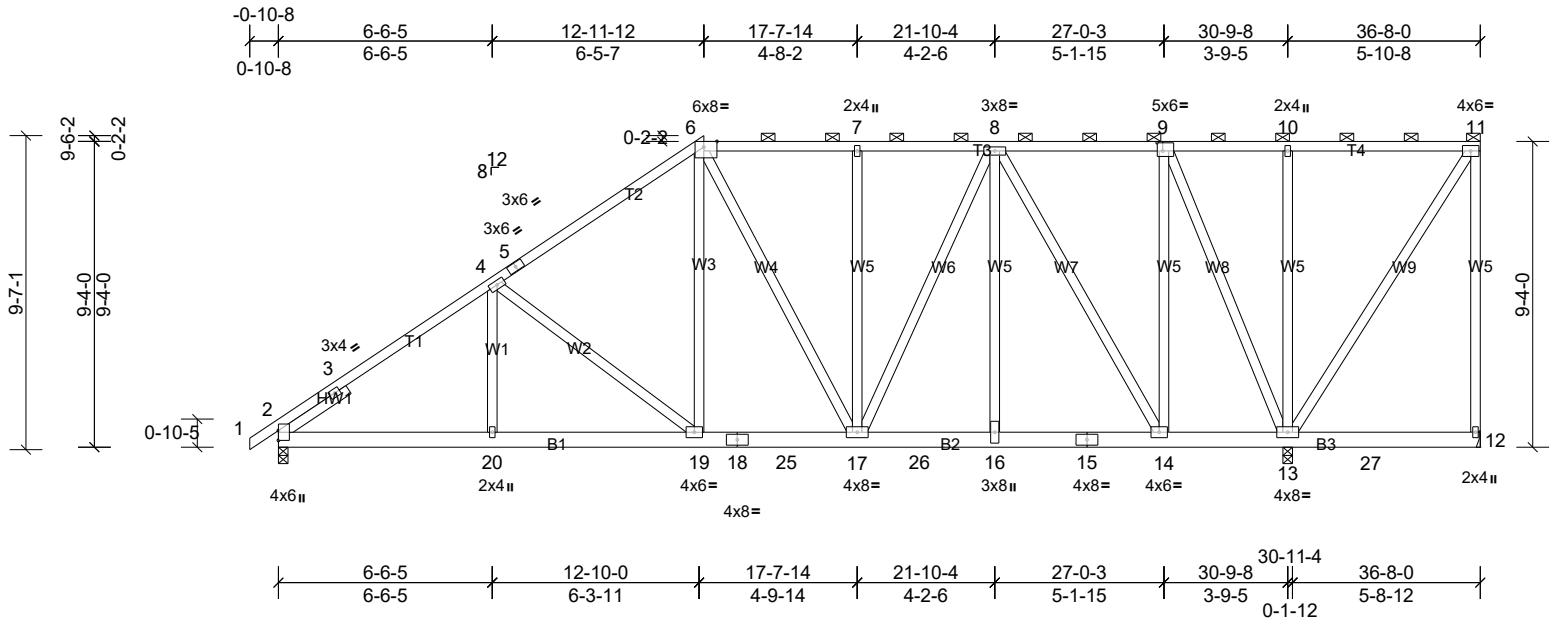
Job 4058931	Truss C03	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Uniform Loads (lb/ft)

Vert: 1-6=-44, 6-10=-60, 11-17=-20

Job 4058931	Truss C04G	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional)
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 ID:imTPnQdTOMvEp?8Zl2QYA8z8zt2-CWiWBteftNR3MqIQAdG8oj3tgiW27Un7Kp3BWsz8kJP



Scale = 1:70.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	16	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	19-20	>999	180	
TCDL	10.0	Rep Stress Incr		WB	0.81	Horz(CT)	0.02	12	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 633 lb FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x6 SP No.2
- WEBS 2x4 SP No.3
- SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING

- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 6-11.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1214/0-3-8, (min. 0-1-8), 12=-159/ Mechanical, (min. 0-1-8), 13=2792/0-3-8, (min. 0-2-0)
 Max Horiz 2=267 (LC 9)
 Max Uplift 2=-4 (LC 10), 12=-159 (LC 1)
 Max Grav 2=1436 (LC 2), 12=91 (LC 10), 13=3386 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-976/0, 3-4=-1819/10, 4-5=-1626/0, 5-6=-1511/32, 6-7=-1345/28, 7-8=-1343/27, 8-9=-503/4, 9-10=-373/15, 10-11=-373/15, 11-12=-1/271
 BOT CHORD 2-20=-202/1546, 19-20=-133/1546, 18-19=-116/1261, 18-25=-116/1261, 17-25=-116/1261, 17-26=-82/1264, 16-26=-82/1264, 15-16=-82/1264, 14-15=-82/1264, 13-14=-44/509
 WEBS 6-19=-18/426, 6-17=-122/325, 7-17=-279/102, 8-16=0/818, 8-14=-1525/76, 9-14=0/1520, 9-13=-2103/0, 10-13=-547/3, 4-19=-380/163, 11-13=-601/0

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 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12 and 4 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job 4058931	Truss C04G	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional)
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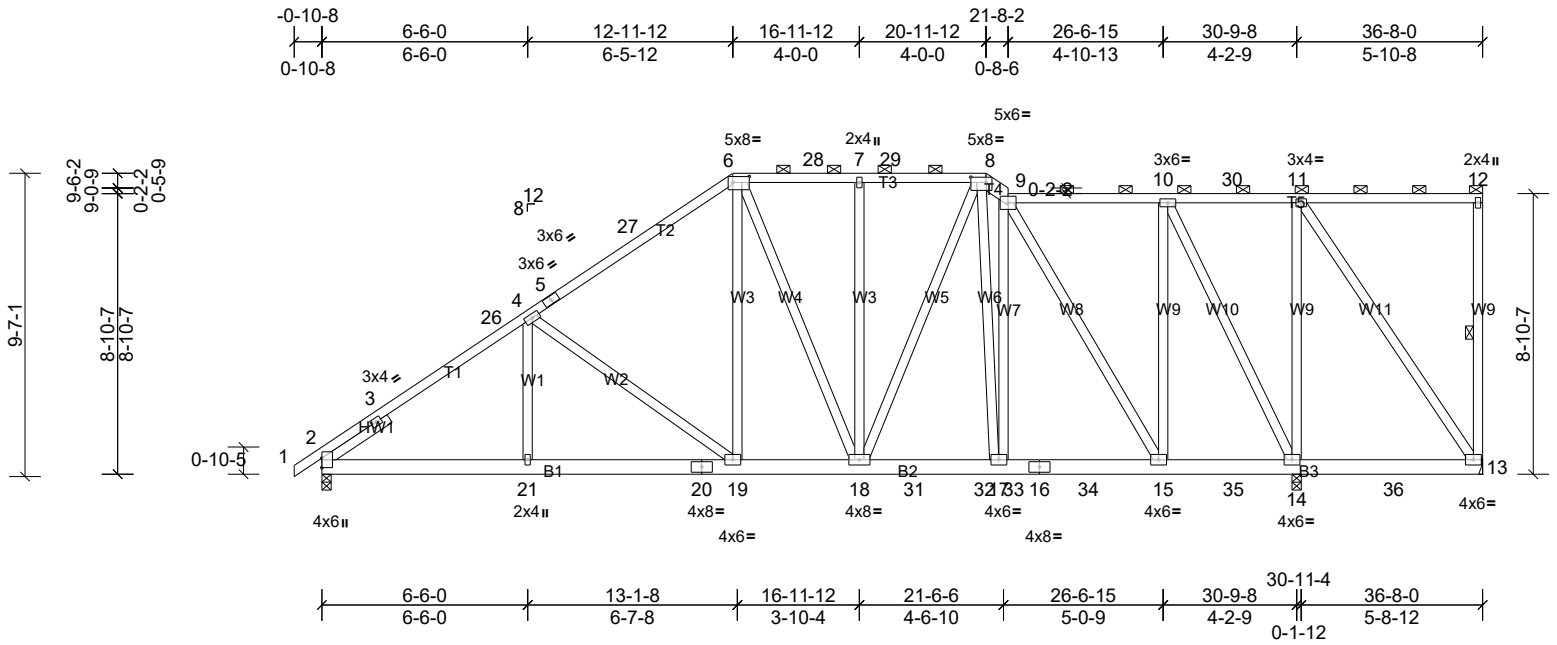
- 14) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 542 lb down and 94 lb up at 21-10-4 on bottom 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=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-44, 6-8=-60, 8-11=-80 (F=-20), 16-21=-20, 12-16=-40 (F=-20)
Concentrated Loads (lb)
Vert: 16=-506 (B)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-60, 6-8=-60, 8-11=-100 (F=-40), 16-21=-20, 12-16=-60 (F=-40)
Concentrated Loads (lb)
Vert: 16=-542 (B)

Job 4058931	Truss C06G	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
ID:b1cb3Wn?BxbR_OcT35mwtGz8zQR-CWiwBtefNR3MqlQAdG8oj3sUIV57TD7Kp3BWsz8kjP



Scale = 1:73.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.04	15-17	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.08	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 654 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T4:2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8, 9-12.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.
WEBS 1 Row at midpt 12-13

REACTIONS (lb/size) 2=1204/0-3-8, (min. 0-1-8), 13=-168/ Mechanical, (min. 0-1-8), 14=2784/0-3-8, (min. 0-2-2)
Max Horiz 2=267 (LC 12)
Max Uplift 13=-260 (LC 38)
Max Grav 2=1500 (LC 38), 13=67 (LC 12), 14=3607 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1016/0, 3-26=-1915/0, 4-26=-1854/0, 4-5=-1624/0, 5-27=-1577/0, 6-27=-1571/7, 6-28=-1459/19, 7-28=-1459/19, 7-29=-1459/19, 8-29=-1459/19, 8-9=-1913/0, 9-10=-683/0, 10-30=0/344, 11-30=0/344, 12-13=-323/0
BOT CHORD 2-21=-232/1642, 20-21=-158/1642, 19-20=-158/1642, 18-19=-36/1313, 18-31=-3/1392, 31-32=-3/1392, 17-32=-3/1392, 17-33=0/1440, 16-33=0/1440, 16-34=0/1440, 15-34=0/1440, 15-35=0/683, 14-35=0/683, 14-36=-344/0, 13-36=-344/0
WEBS 6-19=-11/491, 6-18=-96/401, 7-18=-470/99, 8-17=0/932, 9-15=-1515/45, 10-15=0/1473, 10-14=-2308/0, 4-19=-598/162, 11-14=-1255/0, 11-13=0/634, 9-17=-270/75

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 13.

Job 4058931	Truss C06G	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional)
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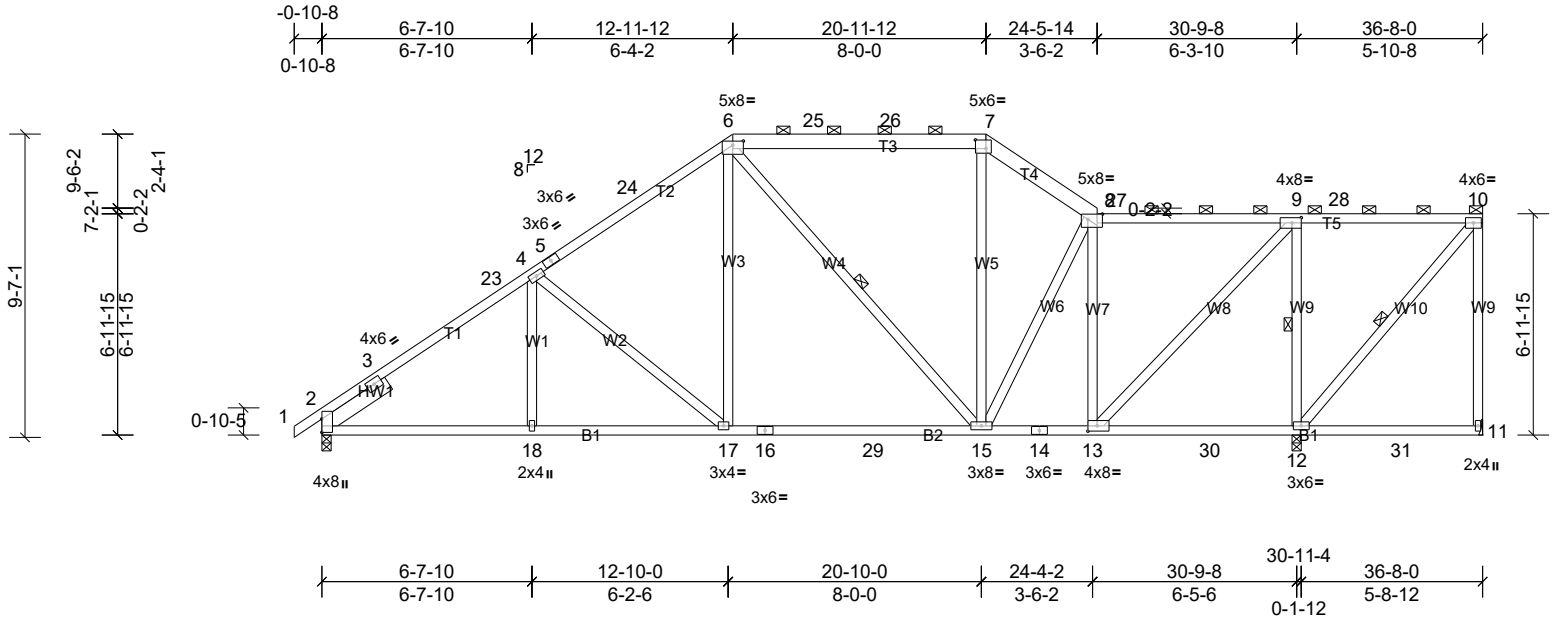
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 520 lb down and 92 lb up at 21-10-4 on bottom 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=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-44, 6-8=-60, 8-9=-44, 9-12=-80 (F=-20), 22-33=-20, 13-33=-40 (F=-20)
Concentrated Loads (lb)
Vert: 33=-486 (F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-60, 6-8=-60, 8-9=-60, 9-12=-100 (F=-40), 22-33=-20, 13-33=-60 (F=-40)
Concentrated Loads (lb)
Vert: 33=-520 (F)

Job 4058931	Truss C07	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
 ID:hwpN3HqB1lqJLoEuBBKB?z8zEl-CWiWBteftNR3MqIQAdG8oj3oEIQD7R27Kp3BWsz8kjP



Scale = 1:73.1

Plate Offsets (X, Y): [2:Edge,0-0-0], [6:0-4-0,0-1-9], [7:0-4-0,0-3-4], [8:0-5-8,0-2-0], [9:0-3-8,0-2-0], [13:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.15 15-17	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.28 15-17	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.04 11	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS						
BCDL	10.0									Weight: 260 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x6 SP No.2, T5:2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-8 max.): 6-7, 8-10.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-15, 9-12, 10-12

REACTIONS (lb/size) 2=1020/0-3-8, (min. 0-1-10), 11=-173/ Mechanical, (min. 0-1-8), 12=1853/0-3-8, (min. 0-3-0)
 Max Horiz 2=247 (LC 15)
 Max Uplift 2=-27 (LC 16), 11=-299 (LC 42), 12=-12 (LC 17)
 Max Grav 2=1368 (LC 42), 11=-9 (LC 16), 12=2544 (LC 41)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-533/0, 3-23=-1830/121, 4-23=-1608/143, 4-5=-1353/142, 5-24=-1322/164, 6-24=-1178/184, 6-25=-882/181, 25-26=-883/181, 7-26=-886/181, 7-8=-1062/185, 8-27=-791/140, 9-27=-791/140, 9-28=-53/357, 10-28=-53/357, 10-11=0/342
 BOT CHORD 2-18=-313/1426, 17-18=-266/1426, 16-17=-172/988, 16-29=-172/988, 15-29=-172/988, 14-15=-129/766, 13-14=-129/766, 13-30=-360/96, 12-30=-360/96
 WEBS 4-17=-566/147, 6-17=0/604, 6-15=-421/58, 7-15=-6/287, 8-15=-29/306, 8-13=-1118/151, 9-13=-144/1655, 9-12=-1964/243, 10-12=-573/27

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 11, 27 lb uplift at joint 2 and 12 lb uplift at joint 12.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

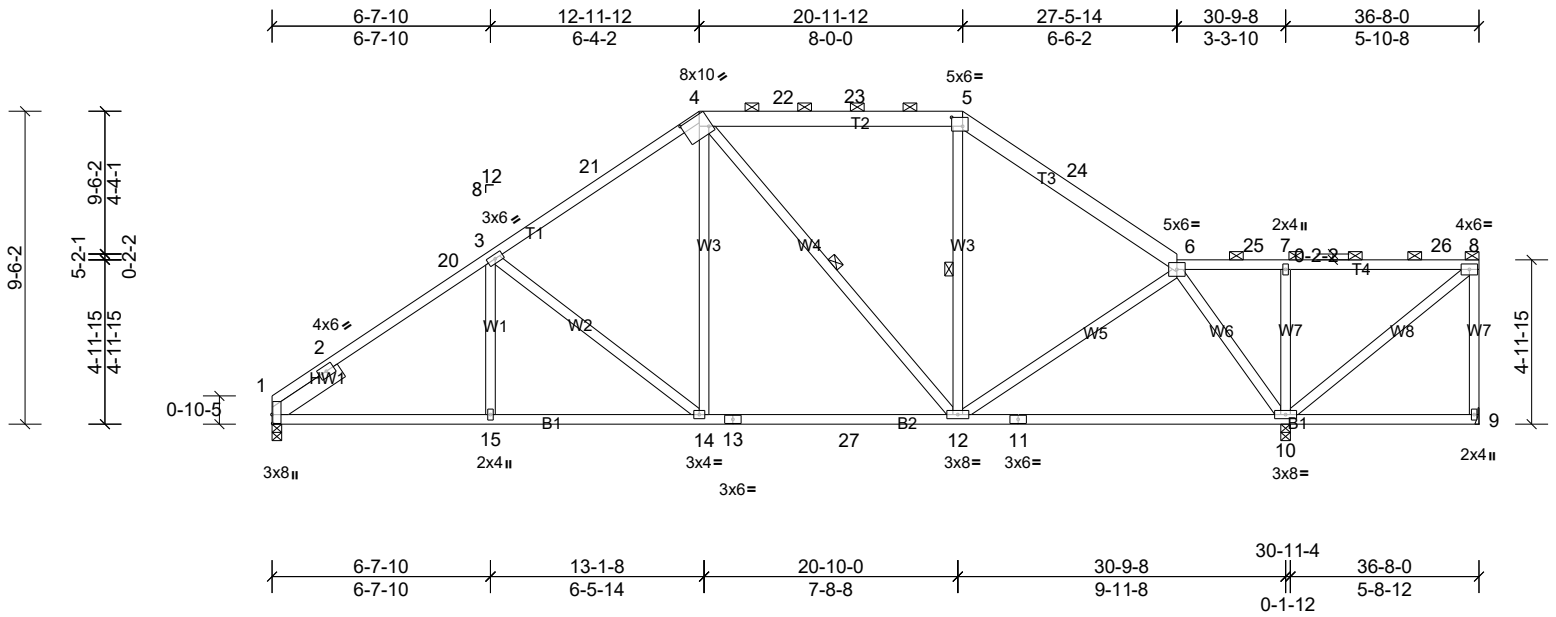
Job 4058931	Truss C07	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-44, 6-7=-60, 7-8=-44, 8-10=-60, 11-19=-20

Job 4058931	Truss C08	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
 ID:Q9x_JCmc5p1?zO5My0ziwrz8z5o-CWiWBteftNR3MqIQAdG8oj3n7IPC7RI7Kp3BWsz8kjP



Scale = 1:70.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.19	10-12	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.38	10-12	>977	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 240 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2 *Except* T1:2x4 SP No.2, T4:2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-5 max.); 4-5, 6-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-12, 5-12

REACTIONS (lb/size) 1=976/0-3-8, (min. 0-1-10), 9=-159/ Mechanical, (min. 0-1-8), 10=1797/0-3-8, (min. 0-2-11)
 Max Horiz 1=185 (LC 16)
 Max Uplift 1=-10 (LC 16), 9=-326 (LC 40)
 Max Grav 1=1353 (LC 40), 9=-7 (LC 16), 10=2272 (LC 39)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-517/0, 2-20=-1876/107, 3-20=-1653/129, 3-21=-1376/152, 4-21=-1200/172, 4-22=-822/162, 22-23=-823/161, 5-23=-826/161, 5-24=-957/136, 6-24=-1138/111, 6-25=-36/529, 7-25=-36/529, 7-26=-36/529, 8-26=-36/529, 8-9=0/359
 BOT CHORD 1-15=-223/1464, 14-15=-145/1464, 13-14=-54/1011, 13-27=-54/1011, 12-27=-54/1011, 11-12=-52/334, 10-11=-52/334
 WEBS 3-14=-580/144, 4-14=-4/585, 4-12=-374/69, 6-12=0/667, 6-10=-1501/153, 7-10=-637/112, 8-10=-695/52

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Ps=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 326 lb uplift at joint 9.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

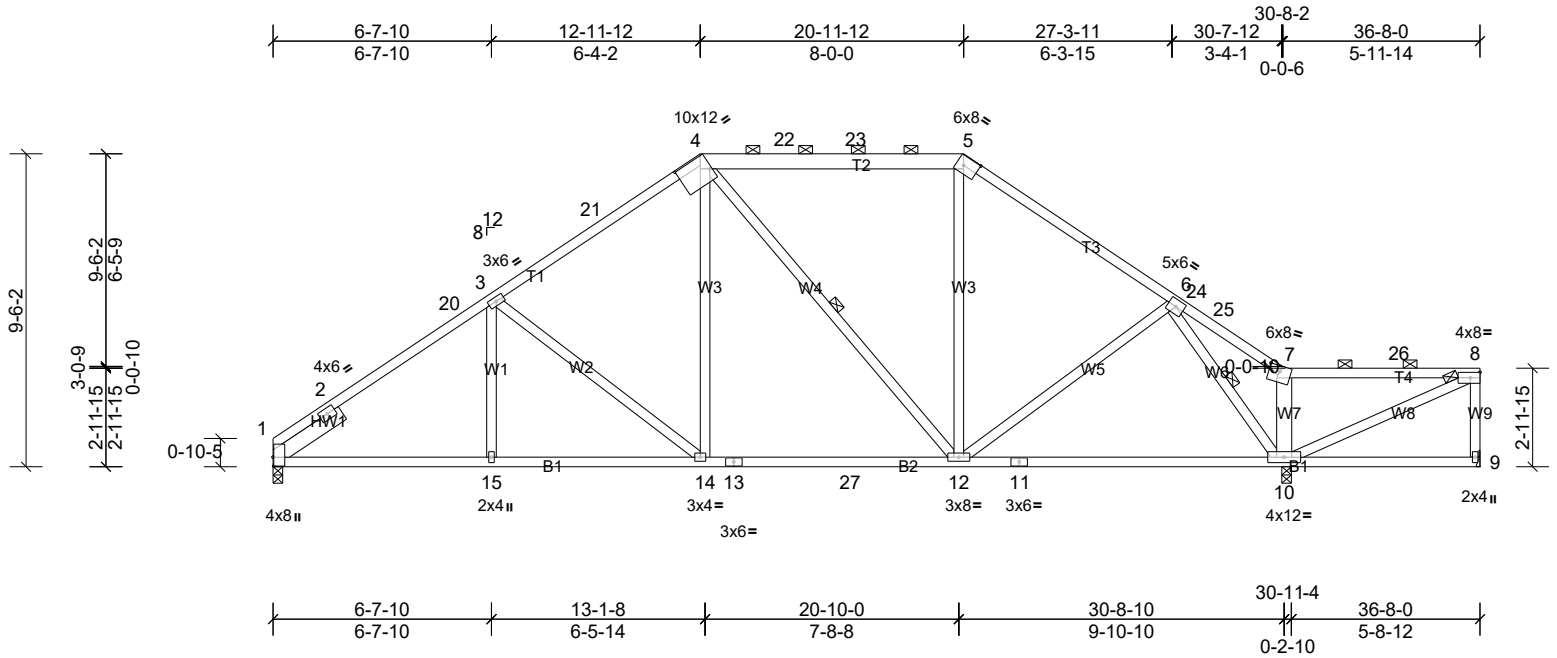
LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)

Job 4058931	Truss C08	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Vert: 1-4=-44, 4-5=-60, 5-6=-44, 6-8=-60, 9-16=-20

Job 4058931	Truss C09	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
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Scale = 1:70.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.18	10-12	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.37	10-12	>993	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 229 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W7:2x6 SP No.2
 SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-6 max.): 4-5, 7-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-12, 6-10

REACTIONS (lb/size) 1=1022/0-3-8, (min. 0-1-11), 9=125/ Mechanical, (min. 0-1-8), 10=1418/0-3-8, (min. 0-2-1)
 Max Horiz 1=161 (LC 13)
 Max Uplift 1=-12 (LC 16), 9=-37 (LC 13)
 Max Grav 1=1426 (LC 40), 9=245 (LC 39), 10=1763 (LC 40)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-533/0, 2-20=-1994/124, 3-20=-1771/147, 3-21=-1501/170, 4-21=-1325/190, 4-22=-971/185, 22-23=-971/185, 5-23=-971/185, 5-6=-1334/170, 6-24=0/323, 24-25=0/307, 7-25=0/264
 BOT CHORD 1-15=-194/1559, 14-15=-102/1559, 13-14=-12/1115, 13-27=-12/1115, 12-27=-12/1115, 11-12=-63/782, 10-11=-63/782
 WEBS 3-14=-569/144, 4-14=-4/581, 4-12=-295/77, 5-12=0/293, 6-12=-28/471, 6-10=-1705/138, 7-10=-340/86, 8-10=-279/33

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 37 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

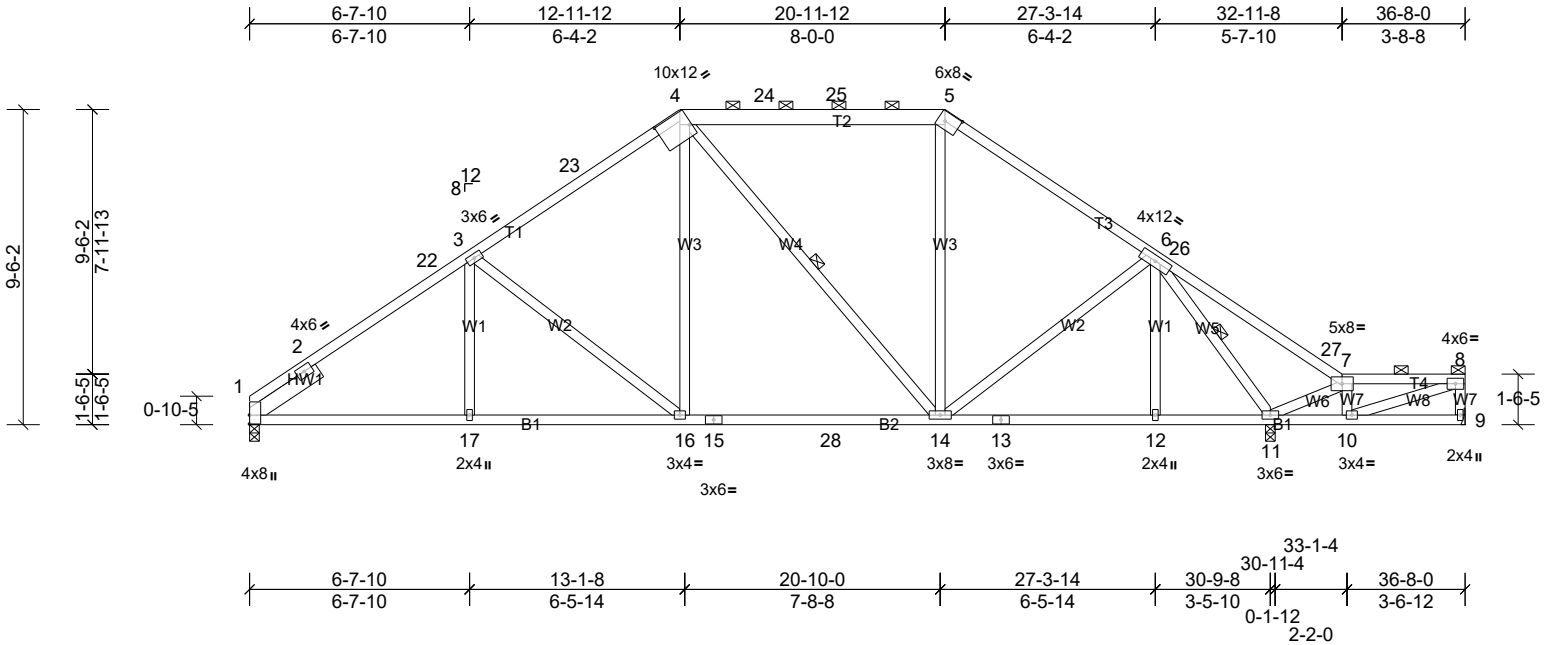
LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)

Job 4058931	Truss C09	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Vert: 1-4=-44, 4-5=-60, 5-7=-44, 7-8=-60, 9-16=-20

Job 4058931	Truss C10	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:69.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.14	14-16	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.24	14-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 230 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-2-2 max.): 4-5, 7-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-14, 6-11

REACTIONS (lb/size) 1=1027/0-3-8, (min. 0-1-11), 9=125/ Mechanical, (min. 0-1-8), 11=1375/0-3-8, (min. 0-2-3)
 Max Horiz 1=186 (LC 15)
 Max Uplift 1=-12 (LC 16), 9=-17 (LC 13), 11=-11 (LC 17)
 Max Grav 1=1431 (LC 40), 9=220 (LC 46), 11=1878 (LC 40)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-543/0, 2-22=-2001/127, 3-22=-1778/149, 3-23=-1511/171, 4-23=-1335/191, 4-24=-974/190, 24-25=-974/190, 24-25=-974/190, 5-25=-974/190, 5-6=-1344/180, 6-26=0/507, 26-27=0/485, 7-27=-30/269
 BOT CHORD 1-17=-158/1564, 16-17=-77/1564, 15-16=-13/1123, 15-28=-13/1123, 14-28=-13/1123, 13-14=-28/857, 12-13=-28/857, 11-12=-28/857
 WEBS 3-16=-565/146, 4-16=0/587, 4-14=-302/73, 5-14=0/314, 6-14=-63/410, 6-11=-1987/122, 7-11=-332/79

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 17 lb uplift at joint 9 and 11 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

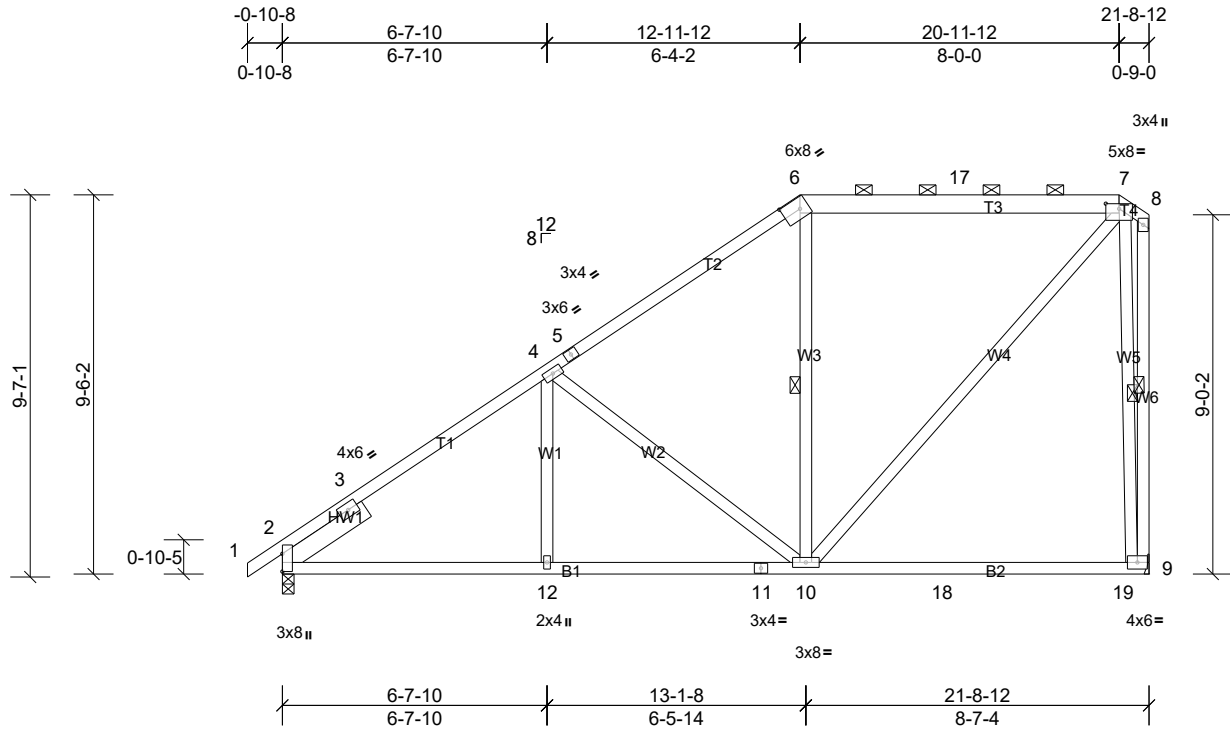
LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Job 4058931	Truss C10	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Uniform Loads (lb/ft)

Vert: 1-4=-44, 4-5=-60, 5-7=-44, 7-8=-60, 9-18=-20

Job 4058931	Truss C11	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:58

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.22	9-10	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.36	9-10	>720	180		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS							
BCDL	10.0										
											Weight: 158 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-10, 8-9, 7-9

REACTIONS (lb/size) 2=759/0-3-8, (min. 0-1-8), 9=792/ Mechanical, (min. 0-1-8)
Max Horiz 2=270 (LC 14)
Max Uplift 2=-17 (LC 14), 9=-70 (LC 14)
Max Grav 2=917 (LC 2), 9=873 (LC 3)

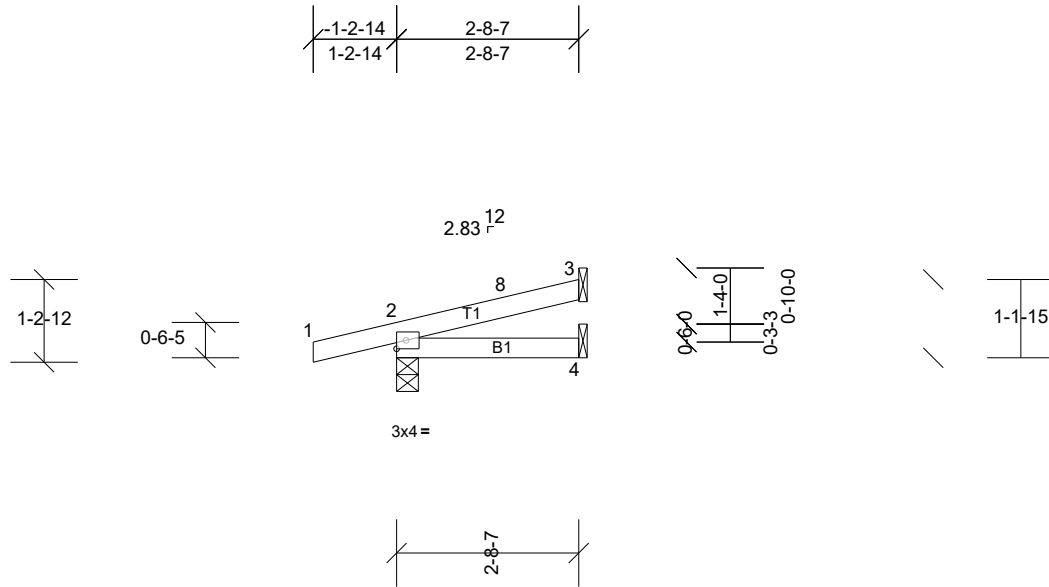
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-450/0, 3-4=-937/31, 4-5=-721/20, 5-6=-701/62, 6-17=-512/90, 7-17=-512/90
BOT CHORD 2-12=-285/840, 11-12=-197/840, 10-11=-197/840
WEBS 4-10=-425/147, 7-9=-896/222, 7-10=-111/681

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 70 lb uplift at joint 9.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-44, 6-7=-60, 7-8=-44, 9-13=-20

Job 4058931	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:34.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Ps/Pf)	18.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-8-7 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=114/0-3-14, (min. 0-1-8), 3=26/ Mechanical, (min. 0-1-8),
4=7/ Mechanical, (min. 0-1-8)
Max Horiz 2=30 (LC 10)
Max Uplift 2=62 (LC 10), 3=28 (LC 10), 4=11 (LC 10)
Max Grav 2=166 (LC 18), 3=29 (LC 19), 4=32 (LC 7)

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

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

NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=18.9 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 62 lb uplift at joint 2 and 11 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

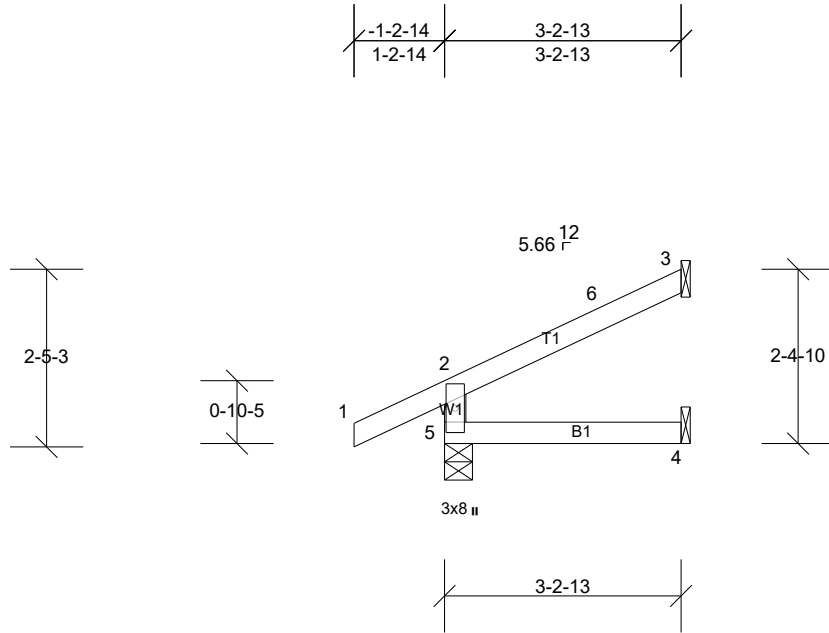
Uniform Loads (lb/ft)

Vert: 1-2=-58

Trapezoidal Loads (lb/ft)

Vert: 2=0 (F=29, B=29)-to-6=-5 (F=27, B=27), 6=-5 (F=27, B=27)-to-8=-26 (F=16, B=16), 8=-26 (F=16, B=16)-to-3=-43 (F=8, B=8), 5=0 (F=10, B=10)-to-7=-2 (F=9, B=9), 7=-2 (F=9, B=9)-to-4=-15 (F=3, B=3)

Job 4058931	Truss CJ02	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:31.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Ps/Pf)	14.9/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0									Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-2-13 oc purlins, except end verticals.

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

REACTIONS (lb/size) 3=30/ Mechanical, (min. 0-1-8), 4=12/ Mechanical, (min. 0-1-8), 5=115/0-4-9, (min. 0-1-8)
Max Horiz 5=57 (LC 16)
Max Uplift 3=42 (LC 16), 5=-31 (LC 16)
Max Grav 3=36 (LC 2), 4=41 (LC 7), 5=187 (LC 18)

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

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

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=14.9 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5 and 42 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

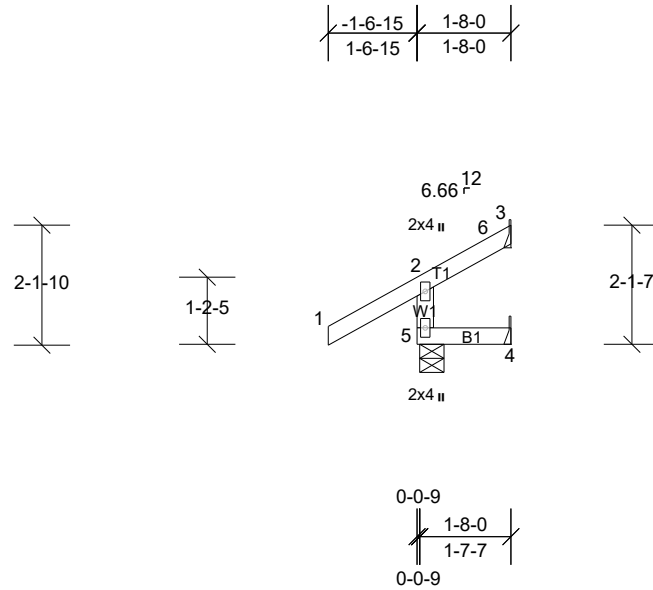
Uniform Loads (lb/ft)

Vert: 1-2=-50

Trapezoidal Loads (lb/ft)

Vert: 2=-2 (F=24, B=24)-to-6=-27 (F=11, B=11), 6=-27 (F=11, B=11)-to-3=-40 (F=5, B=5), 5=0 (F=10, B=10)-to-4=-16 (F=2, B=2)

Job 4058931	Truss CJ03	Truss Type Jack-Open Girder	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	0.00	4-5	>999	240	MT20 244/190
Snow (Ps/Pf)	13.7/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										Weight: 9 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 1-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=-16/ Mechanical, (min. 0-1-8), 4=-5/ Mechanical, (min. 0-1-8), 5=142/0-5-3, (min. 0-1-8)
Max Horiz 5=41 (LC 11)
Max Uplift 3=-64 (LC 18), 4=-20 (LC 18), 5=-24 (LC 12)
Max Grav 3=27 (LC 8), 4=16 (LC 7), 5=279 (LC 18)

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

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

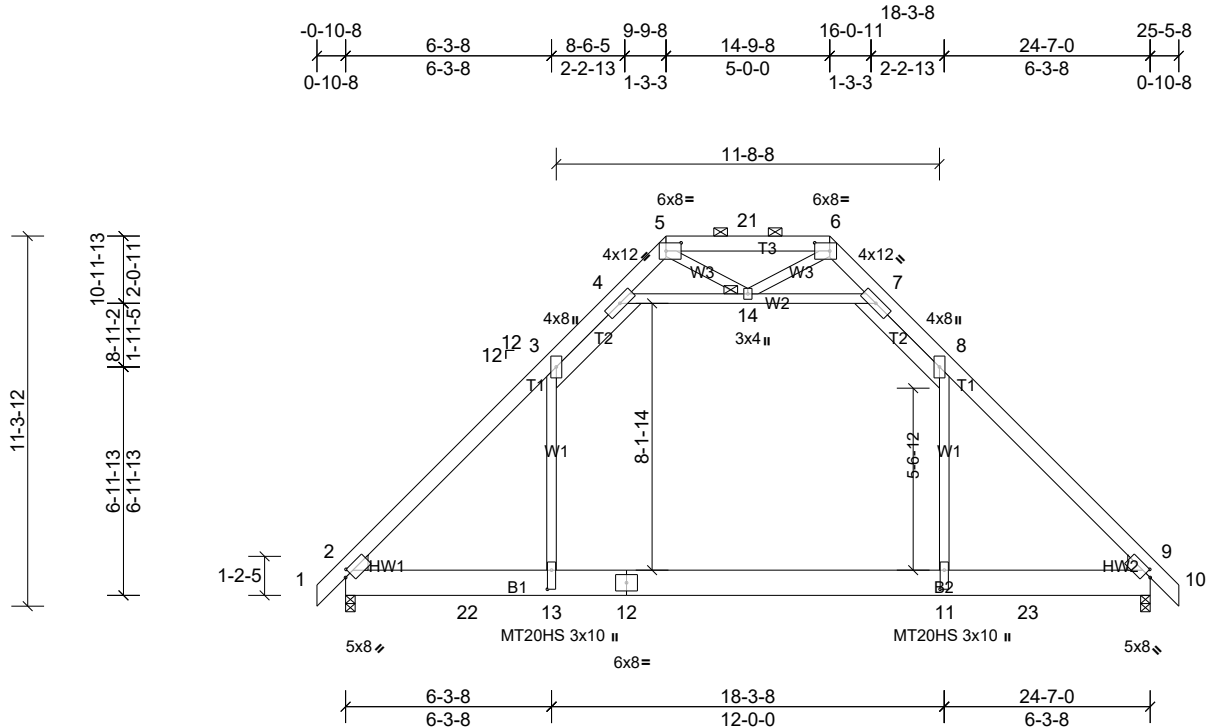
- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.7 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - 3) Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5, 20 lb uplift at joint 4 and 64 lb uplift at joint 3.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-2=-47
Trapezoidal Loads (lb/ft)
Vert: 2=-3 (F=22, B=22)-to-6=-28 (F=10, B=10), 6=-28 (F=10, B=10)-to-3=-35 (F=6, B=6), 5=0 (F=10, B=10)-to-4=-15 (F=3, B=3)

Job 4058931	Truss D01	Truss Type Attic	Qty 14	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
 ID: XoH0ZokIQez3oOc_Uoj4pcz8l4X-CWiWBteftNR3MqlQAdG8oj3sqIVv7b7Kp3BWsz8kJP



Scale = 1:70.7

Plate Offsets (X, Y): [2:0-2-4,0-2-0], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [9:0-2-4,0-2-0], [11:0-7-0,0-1-8], [13:0-7-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.18	11-13	>999	240	MT20	244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.28	11-13	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS		Attic	-0.10	11-13	>999	360		
BCDL	10.0											
											Weight: 239 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP 2400F 2.0E or 2x6 SP DSS
 BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS
 WEBS 2x4 SP No.2 *Except* W3:2x4 SP No.3
 WEDGE Left: 2x6 SP No.2
 Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (10-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied.
 JOINTS 1 Brace at Jt(s): 14

REACTIONS (lb/size) 2=975/0-3-8, (min. 0-1-9), 9=975/0-3-8, (min. 0-1-9)
 Max Horiz 2=-208 (LC 12)
 Max Grav 2=1529 (LC 3), 9=1529 (LC 3)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1881/0, 3-4=-1069/77, 4-5=-157/299, 5-21=0/477, 6-21=0/477, 6-7=-157/299, 7-8=-1069/77, 8-9=-1881/0
 BOT CHORD 2-22=-153/1195, 13-22=0/1195, 12-13=0/1197, 11-12=0/1197, 11-23=0/1195, 9-23=0/1195
 WEBS 3-13=0/981, 8-11=0/981, 4-14=-1634/67, 7-14=-1633/67

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-14, 7-14; Wall dead load (5.0psf) on member(s).3-13, 8-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-13
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

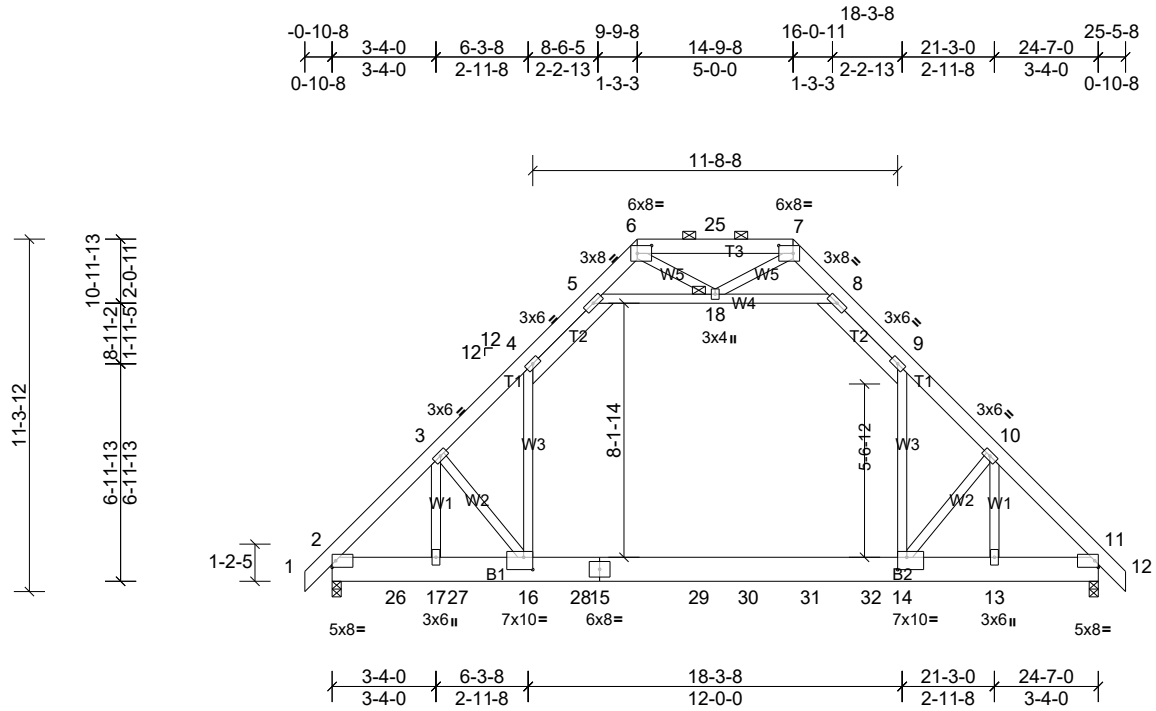
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)

Job 4058931	Truss D01	Truss Type Attic	Qty 14	Ply 1	Job Reference (optional)
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Vert: 1-3=-37, 3-4=-47, 4-5=-37, 5-6=-60, 6-7=-37, 7-8=-47, 8-10=-37, 13-15=-20, 11-13=-30, 11-18=-20, 4-14=-10, 7-14=-10
Drag: 3-13=-10, 8-11=-10

Job 4058931	Truss D02G	Truss Type Attic Girder	Qty 1	Ply 2	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
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Scale = 1:74.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.09	14-16	>999	240	MT20	244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.10	14-16	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.05	14-16	>999	360		
BCDL	10.0											
											Weight: 517 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS	2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS 2x4 SP No.3 *Except* W3,W4:2x4 SP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS (lb/size) 2=1002/0-3-8, (min. 0-1-8), 11=789/0-3-8, (min. 0-1-8)	JOINTS 1 Brace at Jt(s): 18
Max Horiz 2=-208 (LC 8)	
Max Uplift 2=-366 (LC 10), 11=-190 (LC 11)	
Max Grav 2=1362 (LC 23), 11=1424 (LC 24)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-1290/392, 3-4=-1619/436, 4-5=-942/236, 5-6=-413/164, 6-25=-413/246, 7-25=-413/246, 7-8=-441/156, 8-9=-919/244, 9-10=-1673/416, 10-11=-1522/225	
BOT CHORD 2-26=-343/1018, 17-26=-343/1018, 17-27=-343/1018, 16-27=-343/1018, 16-28=-175/1045, 15-28=-175/1045, 15-29=-175/1045, 29-30=-175/1045, 30-31=-175/1045, 31-32=-175/1045, 14-32=-175/1045, 13-14=-96/1046, 11-13=-96/1046	
WEBS 3-17=-695/61, 3-16=-101/346, 4-16=-602/805, 9-14=-393/914, 10-14=-480/162, 10-13=-400/489, 5-18=-1332/484, 8-18=-1275/504	

- NOTES**
- 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.
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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 8-18; Wall dead load (5.0psf) on member(s).4-16, 9-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 366 lb uplift at joint 2 and 190 lb uplift at joint 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job 4058931	Truss D02G	Truss Type Attic Girder	Qty 1	Ply 2	Job Reference (optional)
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- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 206 lb down and 25 lb up at 0-4-12, 225 lb down and 49 lb up at 2-0-8, 346 lb up at 4-0-8, 319 lb up at 6-0-8, 55 lb down and 280 lb up at 7-11-12, 79 lb down and 179 lb up at 11-9-4, 226 lb up at 13-4-4, and 237 lb up at 15-4-4, and 219 lb down and 125 lb up at 17-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

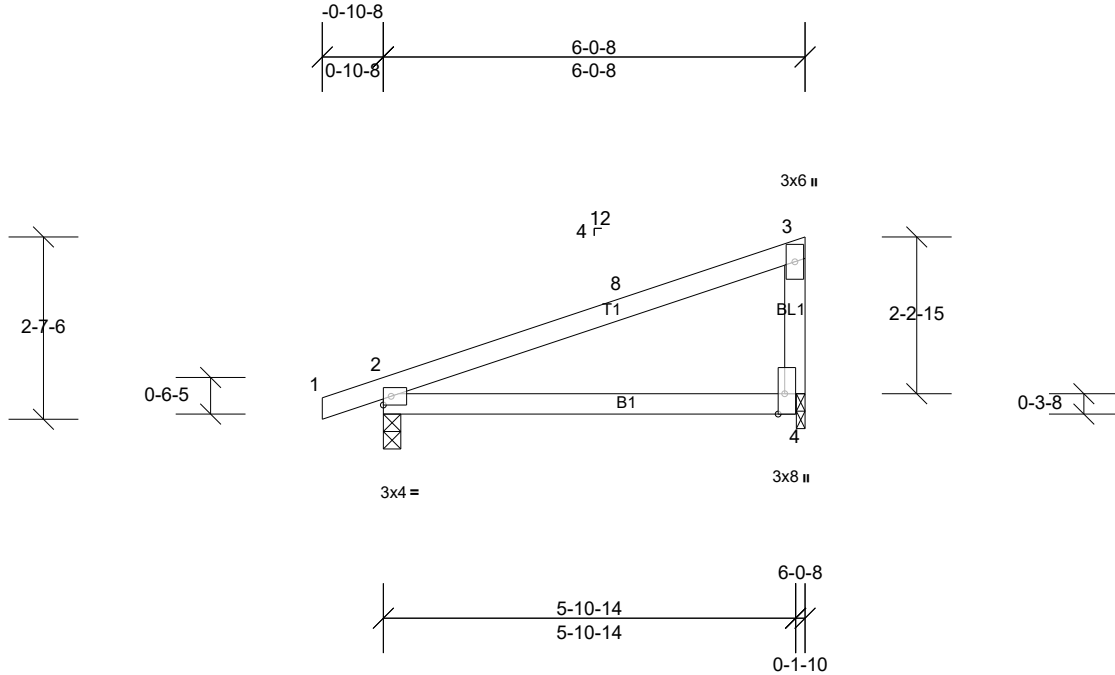
Vert: 1-4=-37, 4-5=-47, 5-6=-37, 6-7=-60, 7-8=-37, 8-9=-47, 9-12=-37, 16-19=-20, 14-16=-30, 14-22=-20, 5-18=-10, 8-18=-10

Drag: 4-16=-10, 9-14=-10

Concentrated Loads (lb)

Vert: 16=131 (F), 21=-206 (F), 26=-225 (F), 27=129 (F), 28=102 (F), 29=78 (F), 30=114 (F), 31=76 (F), 32=-40 (F)

Job 4058931	Truss E01	Truss Type Monopitch	Qty 21	Ply 1	Job Reference (optional)
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Scale = 1:33.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.06	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 23 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

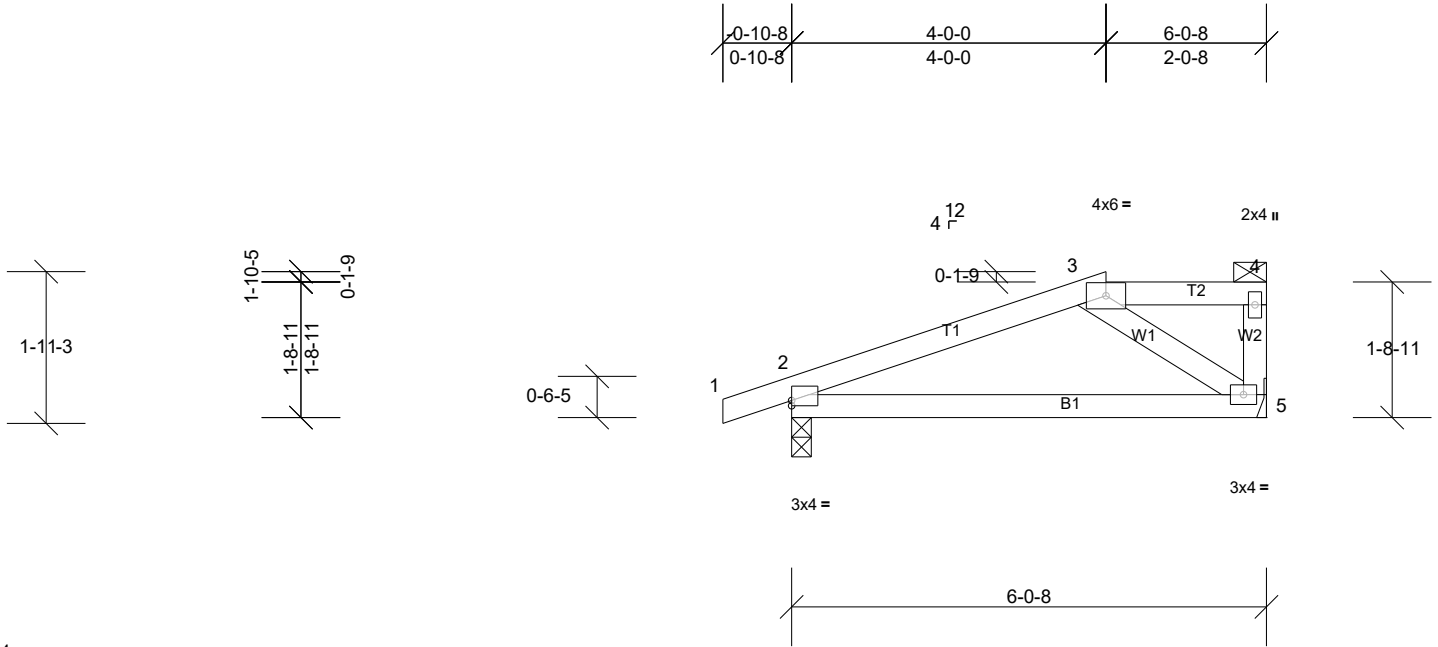
REACTIONS (lb/size) 2=270/0-3-0, (min. 0-1-8), 4=216/0-1-8, (min. 0-1-8)
Max Horiz 2=80 (LC 13)
Max Uplift 2=80 (LC 12), 4=66 (LC 12)
Max Grav 2=292 (LC 2), 4=237 (LC 23)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=17.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - 3) Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 66 lb uplift at joint 4.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 4058931	Truss E02	Truss Type Half Hip	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:29.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	0.07	5-8	>990	240	MT20	244/190
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.09	5-8	>786	180		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS							
BCDL	10.0									Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.
Rigid ceiling directly applied.

REACTIONS (lb/size) 2=272/0-3-0, (min. 0-1-8), 5=225/ Mechanical, (min. 0-1-8)
Max Horiz 2=48 (LC 12)
Max Uplift 2=-82 (LC 12), 5=-64 (LC 12)
Max Grav 2=391 (LC 36), 5=250 (LC 35)

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

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

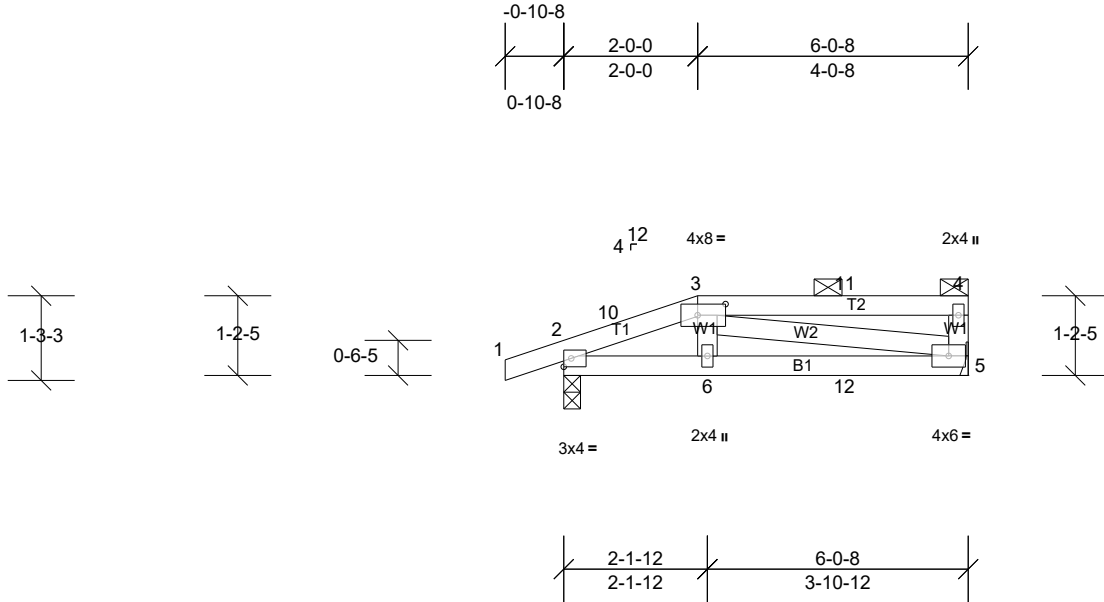
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=17.2 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2 and 64 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-3=-54, 3-4=-60, 5-6=-20

Job 4058931	Truss E03G	Truss Type Half Hip Girder	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:34.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	0.01	5-6	>999	240	MT20 244/190
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.02	5-6	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2015/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
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=278/0-3-0, (min. 0-1-8), 5=232/ Mechanical, (min. 0-1-8)
 Max Horiz 2=32 (LC 8)
 Max Uplift 2=-95 (LC 8), 5=-67 (LC 9)
 Max Grav 2=338 (LC 32), 5=318 (LC 31)

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

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

TOP CHORD 2-10=-432/110, 3-10=-427/115
 BOT CHORD 2-6=-111/394, 6-12=-112/400, 5-12=-112/400
 WEBS 3-5=-410/115

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=17.2 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 5 and 95 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 49 lb up at 2-0-0, and 14 lb down and 13 lb up at 4-2-4 on top chord, and 33 lb down and 39 lb up at 2-0-0, and 7 lb down and 15 lb up at 4-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

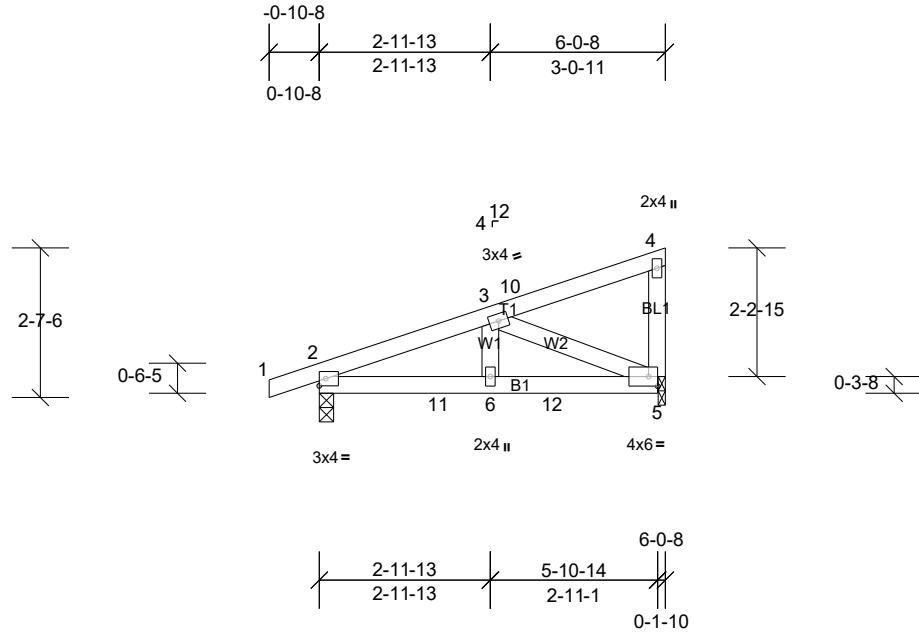
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-3=-54, 3-4=-60, 5-7=-20
 Concentrated Loads (lb)

Job 4058931	Truss E03G	Truss Type Half Hip Girder	Qty 2	Ply 1	Job Reference (optional)
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Vert: 6=0 (F), 12=-2 (F)

Job 4058931	Truss E04G	Truss Type Monopitch Girder	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:40.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 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
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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=536/0-3-0, (min. 0-1-8), 5=479/0-1-8, (min. 0-1-8)
 Max Horiz 2=71 (LC 8)
 Max Uplift 2=-137 (LC 8), 5=-137 (LC 8)
 Max Grav 2=541 (LC 19), 5=500 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-861/188
 BOT CHORD 2-11=-216/791, 6-11=-216/791, 6-12=-216/791, 5-12=-216/791
 WEBS 3-6=-102/443, 3-5=-858/234

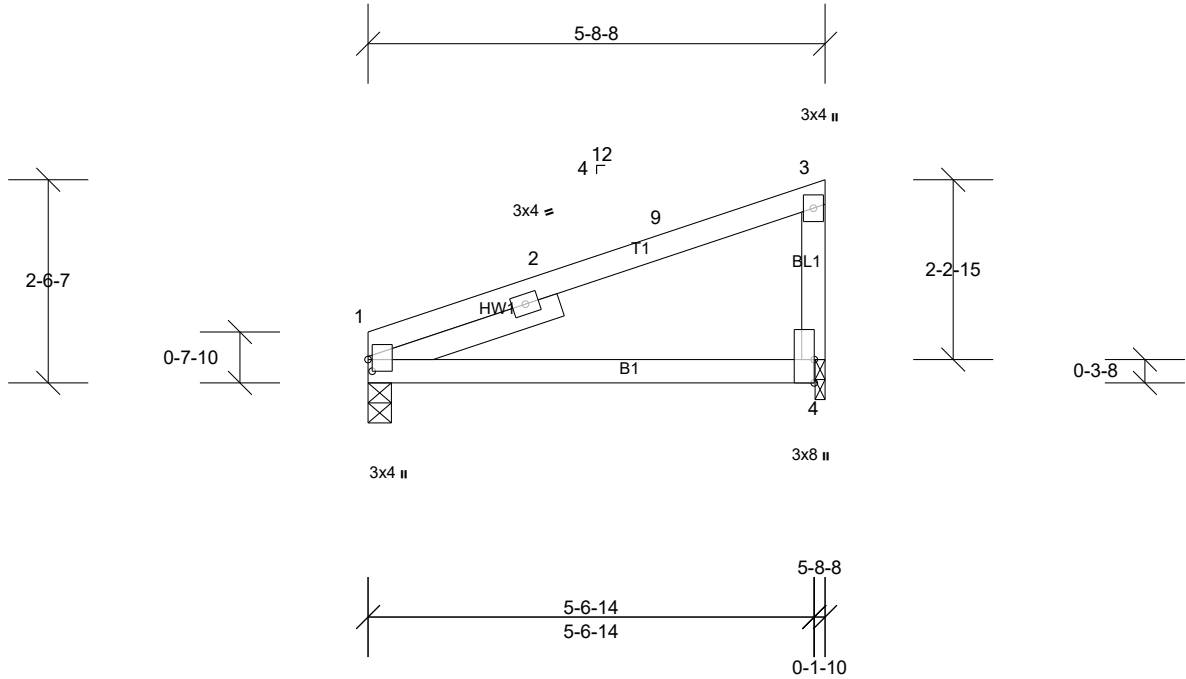
NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=17.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 5 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) 5.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2 and 137 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 298 lb down and 79 lb up at 2-0-12, and 230 lb down and 76 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-4=-54, 5-7=-20
 Concentrated Loads (lb)
 Vert: 11=-298 (F), 12=-230 (F)

Job 4058931	Truss E05	Truss Type Monopitch	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:28.9

Plate Offsets (X, Y): [1:0-1-12,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.04	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 2-6-0

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

REACTIONS (lb/size)	1=207/0-3-8, (min. 0-1-8), 4=207/0-1-8, (min. 0-1-8)
Max Horiz	1=73 (LC 13)
Max Uplift	1=-50 (LC 12), 4=-65 (LC 12)
Max Grav	1=223 (LC 2), 4=223 (LC 2)

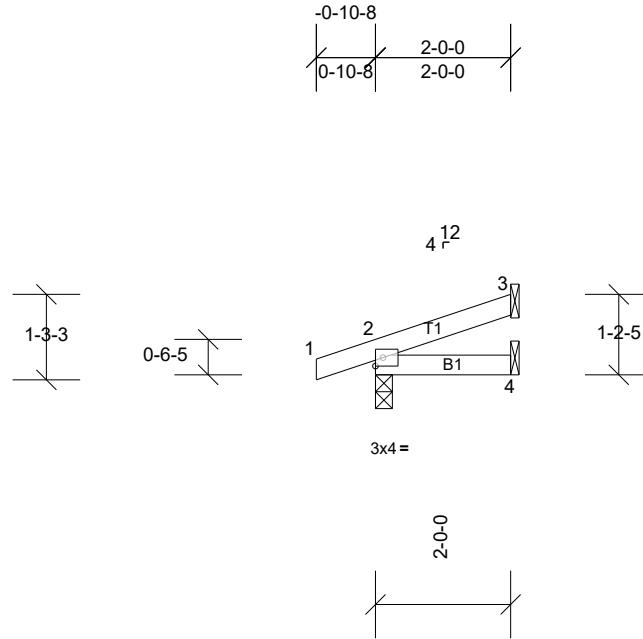
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-260/239

NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=17.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1 and 65 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 4058931	Truss E06	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional)
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Scale = 1:34.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	0.00	4-7	>999	240	MT20 244/190
Snow (Ps/Pf)	17.2/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-7	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							
BCDL	10.0										Weight: 8 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=132/0-3-0, (min. 0-1-8), 3=43/ Mechanical, (min. 0-1-8), 4=20/ Mechanical, (min. 0-1-8)
 Max Horiz 2=32 (LC 12)
 Max Uplift 2=45 (LC 12), 3=-17 (LC 12), 4=-4 (LC 13)
 Max Grav 2=147 (LC 22), 3=47 (LC 2), 4=35 (LC 7)

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

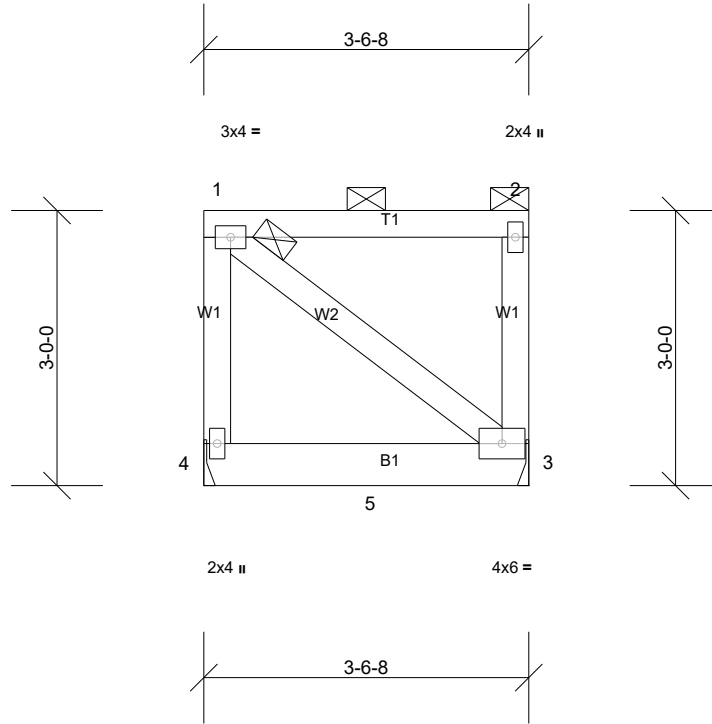
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=17.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 3, 45 lb uplift at joint 2 and 4 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 4058931	Truss FR01G	Truss Type Flat Girder	Qty 1	Ply 2	Job Reference (optional)
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Scale = 1:25.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.01	3-4	>999	240	MT20	244/190
Snow (Ps/Pf)	20.0/20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.02	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 52 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=526/ Mechanical, (min. 0-1-8), 4=506/ Mechanical, (min. 0-1-8)

Max Horiz 4=-74 (LC 6)
Max Uplift 3=-82 (LC 7), 4=-80 (LC 6)
Max Grav 3=562 (LC 2), 4=540 (LC 2)

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

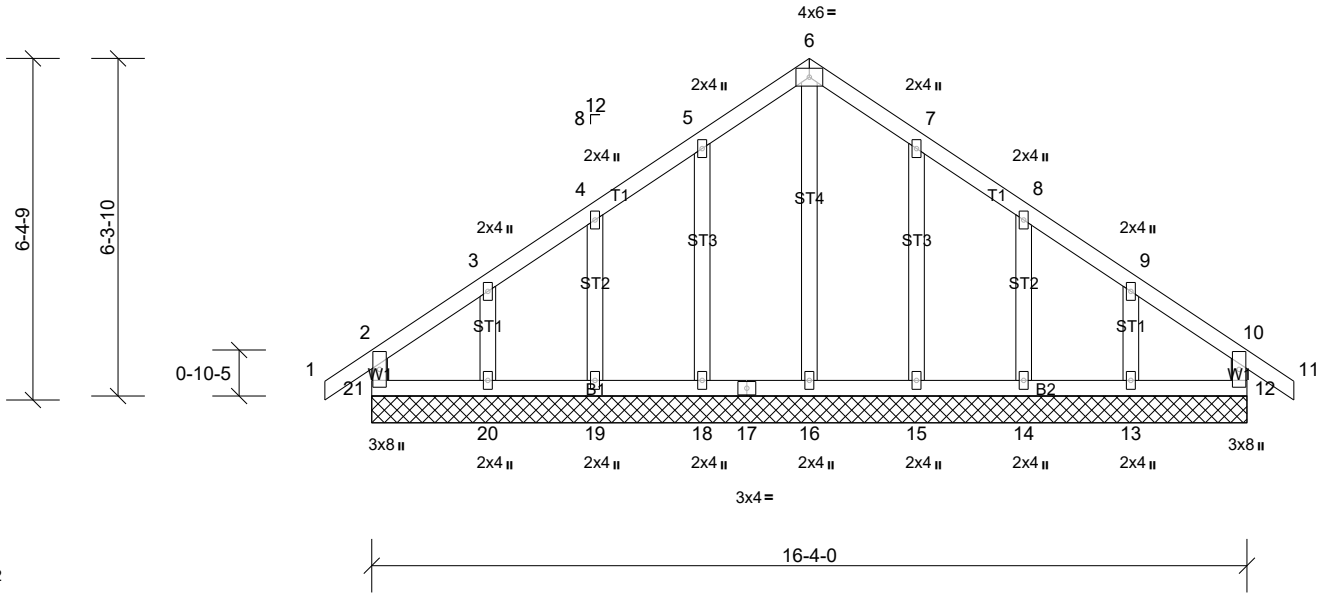
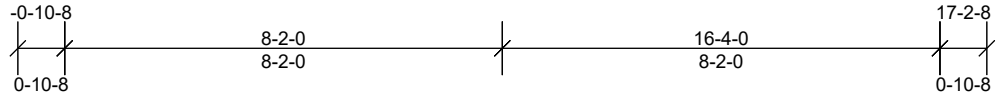
NOTES

- 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 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=20.0 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 4 and 82 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 853 lb down and 82 lb up at 1-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-772 (F)

Job 4058931	Truss G01GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:43.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 94 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
 BOT CHORD

Structural wood sheathing directly applied, except end verticals.
 Rigid ceiling directly applied.

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

REACTIONS All bearings 16-4-0.

(lb) - Max Horiz 21=135 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 18, 19, 20, 21
 Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 18, 19, 20, 21

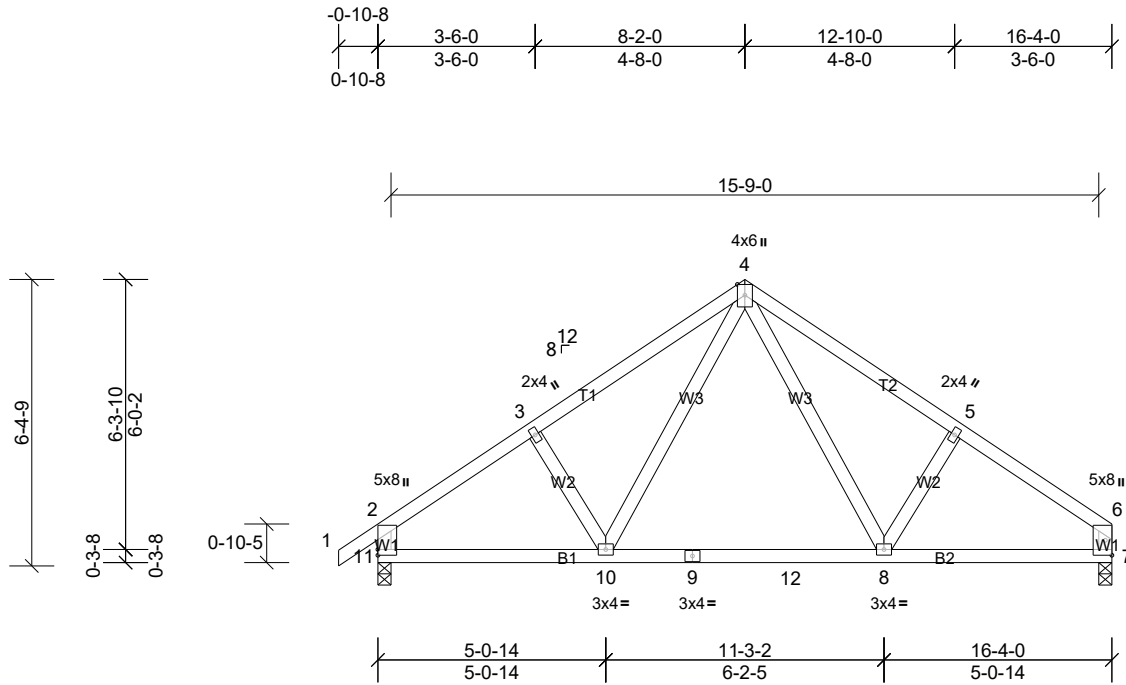
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 12, 18, 19, 20, 15, 14, 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 4058931	Truss G02	Truss Type Common	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:51.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.09	8-10	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.17	8-10	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	7	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS							
BCDL	10.0										Weight: 85 lb FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied, except end verticals.
 Rigid ceiling directly applied.

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

REACTIONS (lb/size) 7=514/0-3-8, (min. 0-1-8), 11=562/0-3-8, (min. 0-1-8)
 Max Horiz 11=130 (LC 11)
 Max Uplift 7=-10 (LC 15), 11=-24 (LC 14)
 Max Grav 7=640 (LC 2), 11=705 (LC 2)

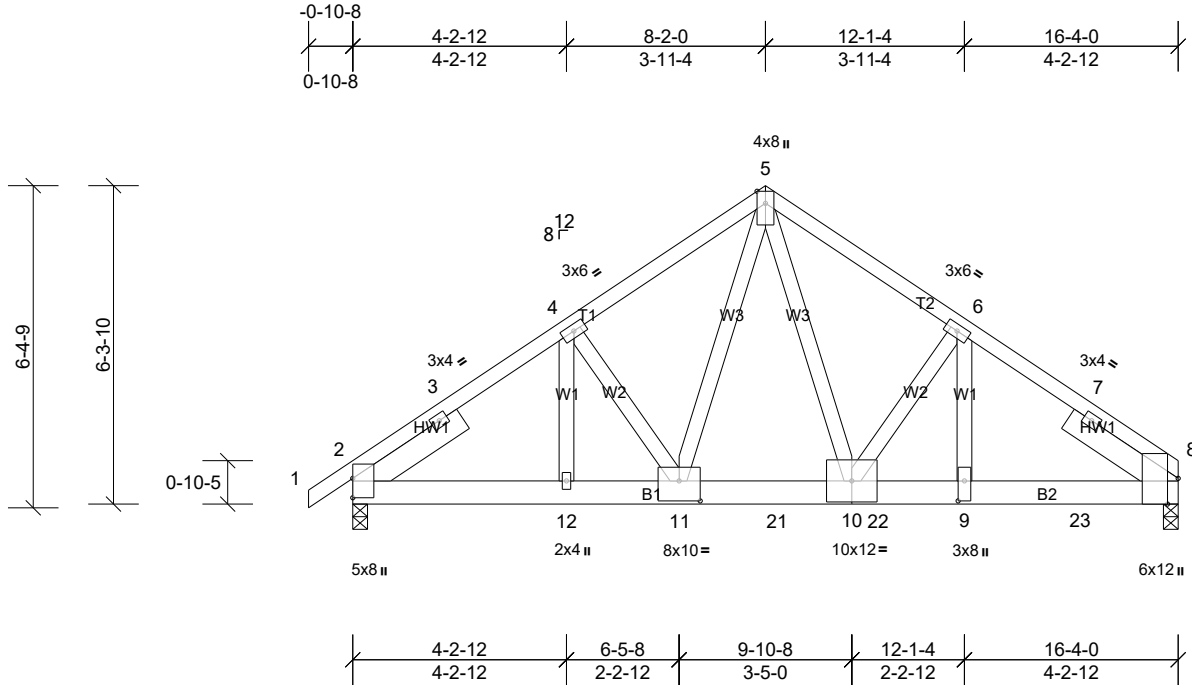
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-808/81, 3-4=-690/118, 4-5=-693/118, 5-6=-811/80, 2-11=-632/95, 6-7=-562/61
 BOT CHORD 10-11=-54/649, 9-10=0/458, 9-12=0/458, 8-12=0/458, 7-8=-38/600
 WEBS 4-10=-37/274, 4-8=-37/276

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 11 and 10 lb uplift at joint 7.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 4058931	Truss G03G	Truss Type Common Girder	Qty 1	Ply 2	Job Reference (optional)
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Scale = 1:45.8

Plate Offsets (X, Y): [2:Edge,0-0-0], [8:0-6-2,Edge], [9:0-4-12,0-1-8], [11:0-5-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.08	10-11	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.15	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
											Weight: 236 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* B2:2x6 SP 2400F 2.0E or 2x6 SP DSS
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=3936/0-3-8, (min. 0-2-5), 8=5849/0-3-8, (min. 0-2-15)
 Max Horiz 2=113 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3507/0, 3-4=-5704/0, 4-5=-6075/0, 5-6=-6446/0, 6-7=-7506/0, 7-8=-4944/0
 BOT CHORD 2-12=0/4619, 11-12=0/4619, 11-21=0/4246, 10-21=0/4246, 10-22=0/6141, 9-23=0/6141, 8-23=0/6141
 WEBS 5-10=0/4055, 6-10=-1431/0, 5-11=-201/2983, 4-11=0/854, 6-9=0/1830, 4-12=-777/0

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 - 3 rows staggered at 0-5-0 oc.
 Web connected as follows: 2x4 - 2 rows staggered at 0-7-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2476 lb down and 327 lb up at 6-5-8, 1610 lb down at 8-4-12, 1610 lb down at 10-4-12, and 1610 lb down at 12-4-12, and 1610 lb down at 14-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

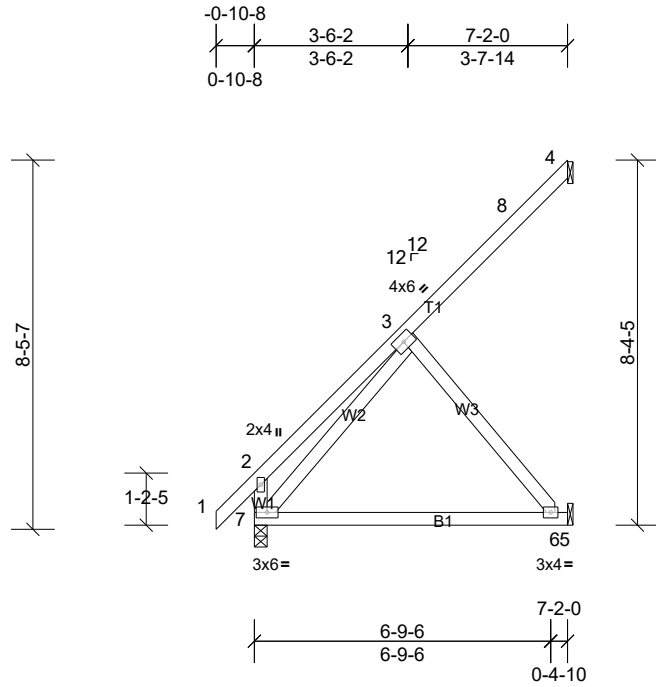
LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-5=-44, 5-8=-44, 13-17=-20
 Concentrated Loads (lb)

Job 4058931	Truss G03G	Truss Type Common Girder	Qty 1	Ply 2	Job Reference (optional)
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Vert: 11=-2363 (F), 9=-1584 (F), 21=-1584 (F), 22=-1584 (F), 23=-1584 (F)

Job 4058931	Truss J01	Truss Type Jack-Partial	Qty 10	Ply 1	Job Reference (optional)
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Scale = 1:53

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.10	6-7	>818	240	MT20 244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.21	6-7	>400	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 44 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

REACTIONS (lb/size) 4=56/ Mechanical, (min. 0-1-8), 5=138/ Mechanical, (min. 0-1-8), 7=237/0-3-8, (min. 0-1-8)
Max Horiz 7=216 (LC 14)
Max Uplift 4=-55 (LC 14), 5=-82 (LC 14)
Max Grav 4=101 (LC 26), 5=205 (LC 26), 7=344 (LC 2)

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

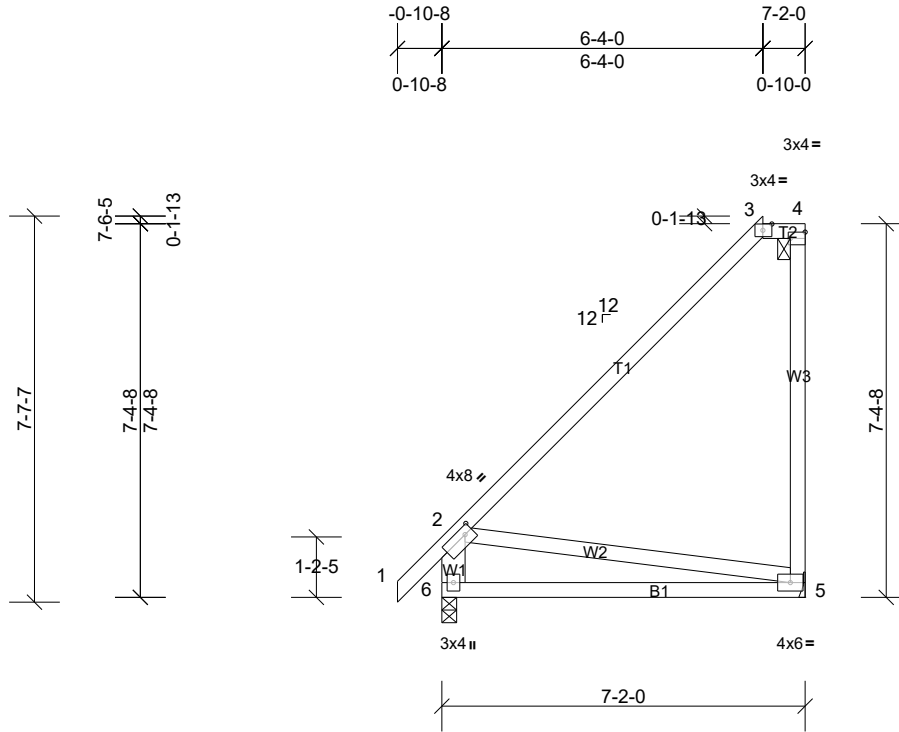
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=8.3 psf (roof snow; Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 82 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 4058931	Truss J02	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:45.6

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [3:0-2-2,0-1-8], [4:Edge,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	1.00	TC	0.85	Vert(LL)	-0.06	5-6	>999	240	MT20 244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.12	5-6	>685	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS							
BCDL	10.0										Weight: 49 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W1:2x6 SP No.2

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 Rigid ceiling directly applied.

REACTIONS (lb/size) 5=204/ Mechanical, (min. 0-1-8), 6=237/0-3-8, (min. 0-1-8)
 Max Horiz 6=200 (LC 16)
 Max Uplift 5=-122 (LC 16)
 Max Grav 5=350 (LC 36), 6=517 (LC 36)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-305/80, 2-6=-452/2
 BOT CHORD 5-6=-370/488
 WEBS 2-5=-469/362

NOTES

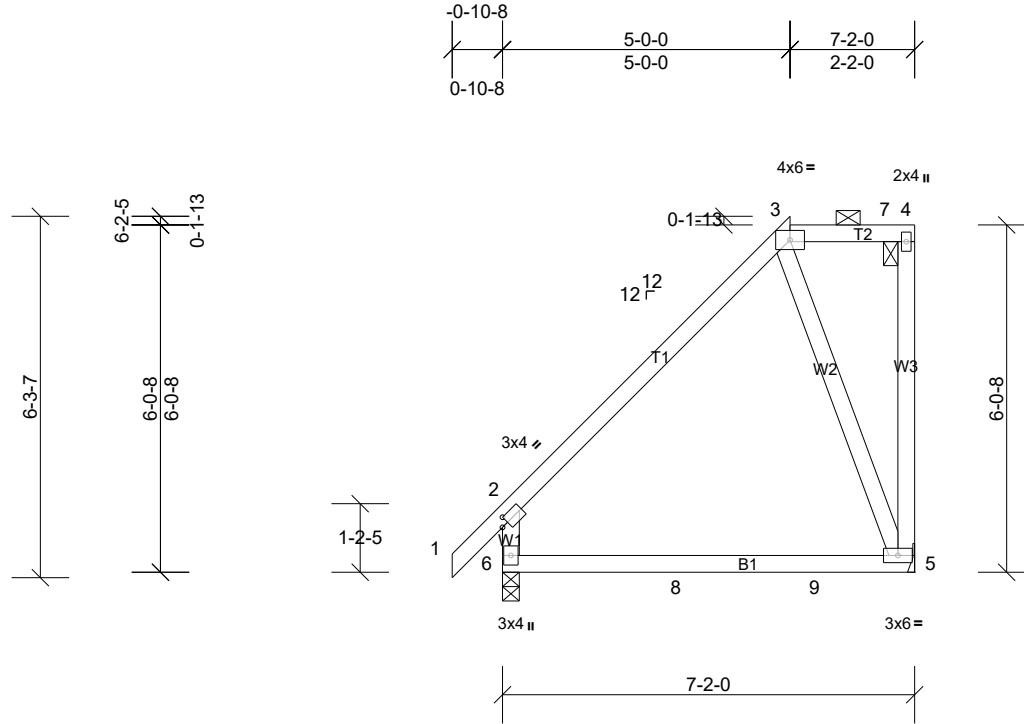
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-37, 2-3=-37, 3-4=-60, 5-6=-20

Job 4058931	Truss J03	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:40.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.09	5-6	>896	240	MT20	244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.18	5-6	>452	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 45 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins (6'-0-0 max.): 3-4. Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS (lb/size) 5=232/ Mechanical, (min. 0-1-8), 6=242/0-3-8, (min. 0-1-8)
 Max Horiz 6=160 (LC 16)
 Max Uplift 5=-70 (LC 16)
 Max Grav 5=323 (LC 39), 6=495 (LC 36)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-294/43, 2-6=-430/47

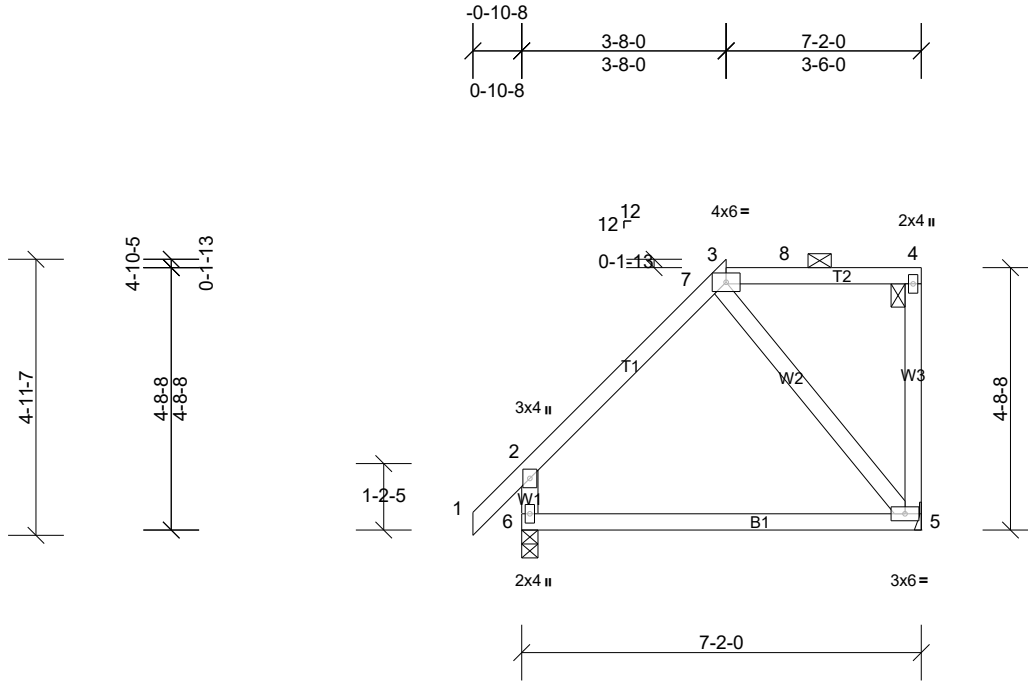
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

- Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-37, 2-3=-37, 3-4=-60, 5-6=-20

Job 4058931	Truss J04	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:41.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.08	5-6	>971	240	MT20 244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	5-6	>495	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 41 lb FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=251/ Mechanical, (min. 0-1-8), 6=254/0-3-8, (min. 0-1-8)
 Max Horiz 6=142 (LC 13)
 Max Uplift 5=-52 (LC 13), 6=-5 (LC 16)
 Max Grav 5=398 (LC 35), 6=460 (LC 36)

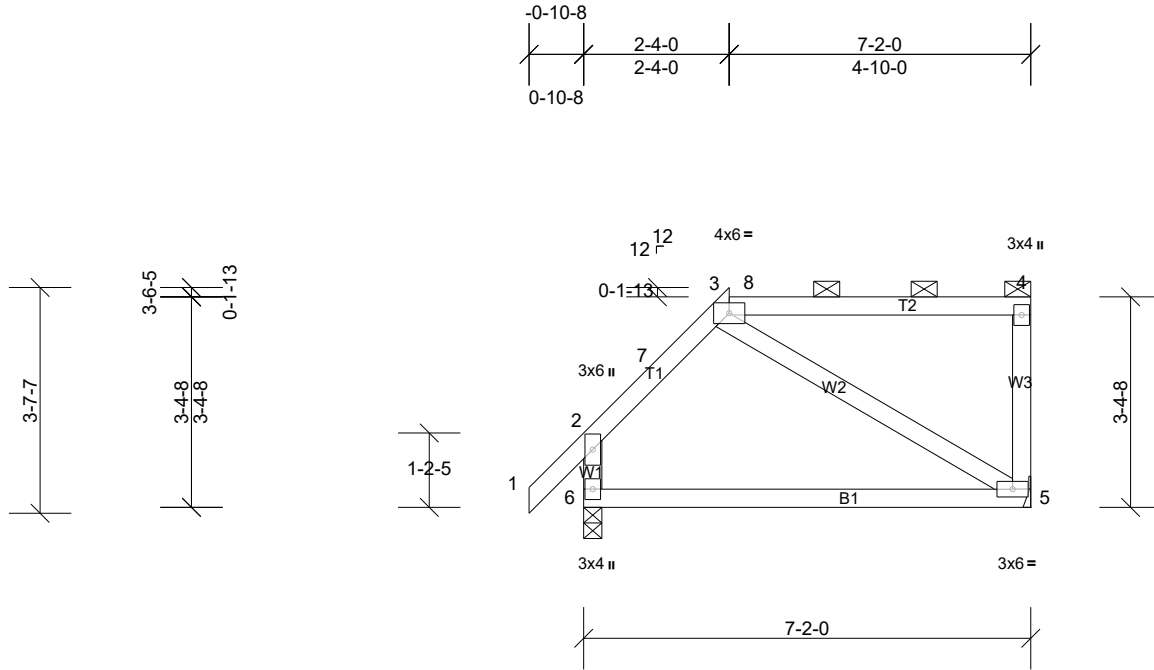
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-274/63, 2-6=-389/116

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 6 and 52 lb uplift at joint 5.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-37, 2-3=-37, 3-4=-60, 5-6=-20

Job 4058931	Truss J05	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:37.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.08	5-6	>999	240	MT20 244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.16	5-6	>532	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 38 lb FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=264/ Mechanical, (min. 0-1-8), 6=272/0-3-8, (min. 0-1-8)
 Max Horiz 6=80 (LC 16)
 Max Uplift 5=-29 (LC 13)
 Max Grav 5=451 (LC 35), 6=409 (LC 36)

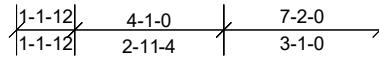
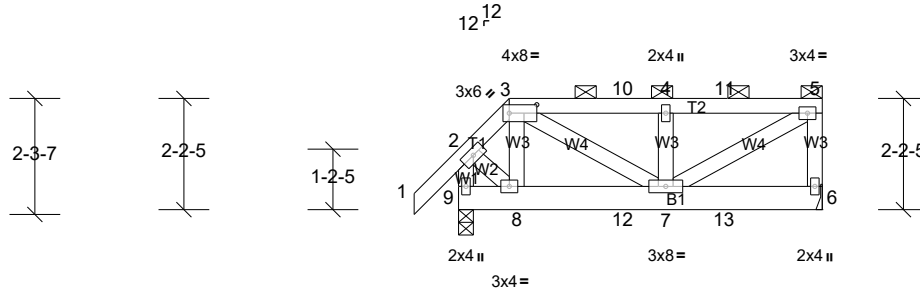
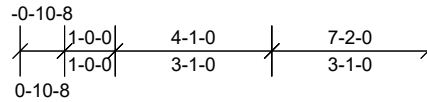
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-302/59, 3-7=-284/75, 4-5=-292/74, 2-6=-336/106

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-37, 2-3=-37, 3-4=-60, 5-6=-20

Job 4058931	Truss J06G	Truss Type Half Hip Girder	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:45.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.01	7	>999	240	MT20 244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	7	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	6	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 48 lb FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 6=266/ Mechanical, (min. 0-1-8), 9=267/0-3-8, (min. 0-1-8)
 Max Horiz 9=45 (LC 12)
 Max Uplift 6=40 (LC 9), 9=56 (LC 12)
 Max Grav 6=475 (LC 31), 9=407 (LC 31)

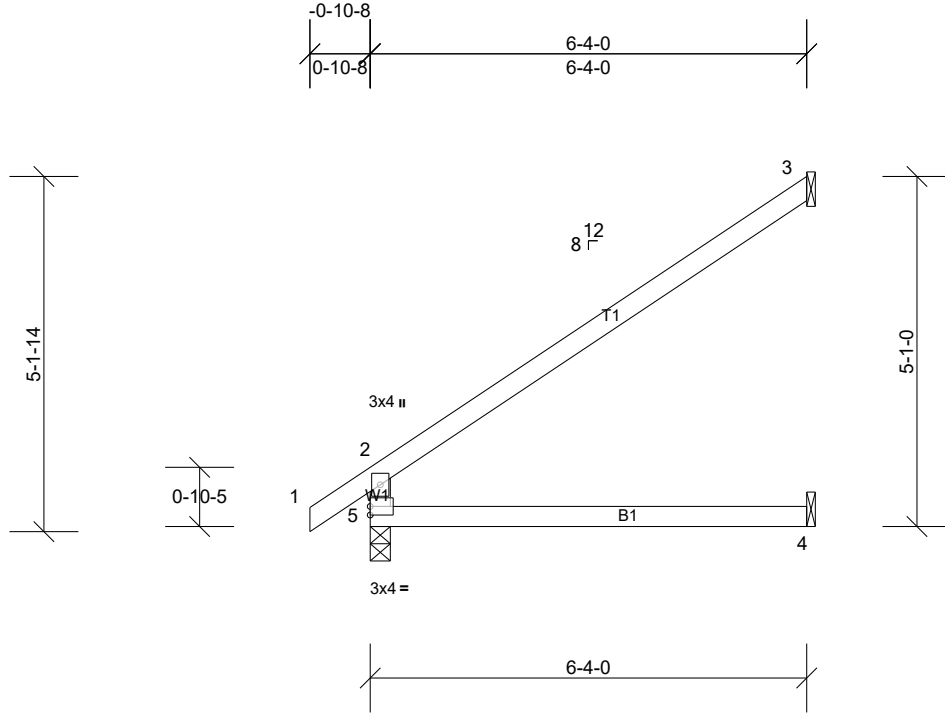
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-291/54, 3-10=-465/47, 4-10=-465/47, 4-11=-465/47, 5-11=-465/47, 5-6=-423/52, 2-9=-418/56
 WEBS 3-7=-15/320, 4-7=-413/76, 5-7=-52/512, 2-8=-42/286

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - 2) ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=8.3 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - 3) Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 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) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 6 and 56 lb uplift at joint 9.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 104 lb up at 1-0-0, and 50 lb down and 24 lb up at 3-2-12, and 50 lb down and 25 lb up at 5-2-12 on top chord, and 25 lb down and 10 lb up at 1-0-0, and 10 lb down and 8 lb up at 3-2-12, and 10 lb down and 8 lb up at 5-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-37, 2-3=-37, 3-5=-60, 6-9=-20
 Concentrated Loads (lb)
 Vert: 3=31 (B), 8=3 (B), 12=1 (B), 13=1 (B)

Job 4058931	Truss J07	Truss Type Jack-Open	Qty 11	Ply 1	Job Reference (optional)
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Scale = 1:33.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	0.06	4-5	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.14	4-5	>518	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 23 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied.

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

REACTIONS (lb/size) 3=126/ Mechanical, (min. 0-1-8), 4=67/ Mechanical, (min. 0-1-8), 5=246/0-3-8, (min. 0-1-8)
Max Horiz 5=134 (LC 14)
Max Uplift 3=-89 (LC 14)
Max Grav 3=176 (LC 26), 4=114 (LC 5), 5=311 (LC 2)

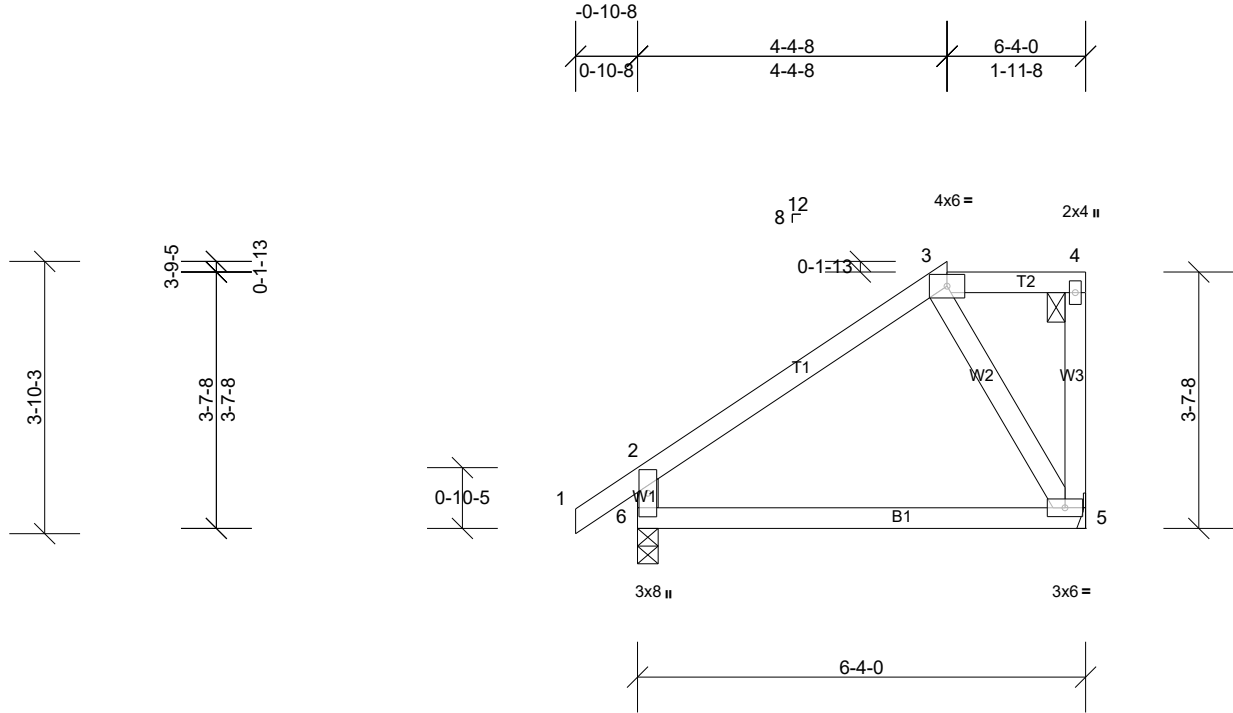
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-260/65

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job 4058931	Truss J08	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:32.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.04	5-6	>999	240	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	5-6	>859	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0											
											Weight: 32 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 Rigid ceiling directly applied.

REACTIONS (lb/size) 5=214/ Mechanical, (min. 0-1-8), 6=247/0-3-8, (min. 0-1-8)
 Max Horiz 6=93 (LC 16)
 Max Uplift 5=-25 (LC 16), 6=-3 (LC 16)
 Max Grav 5=268 (LC 35), 6=434 (LC 36)

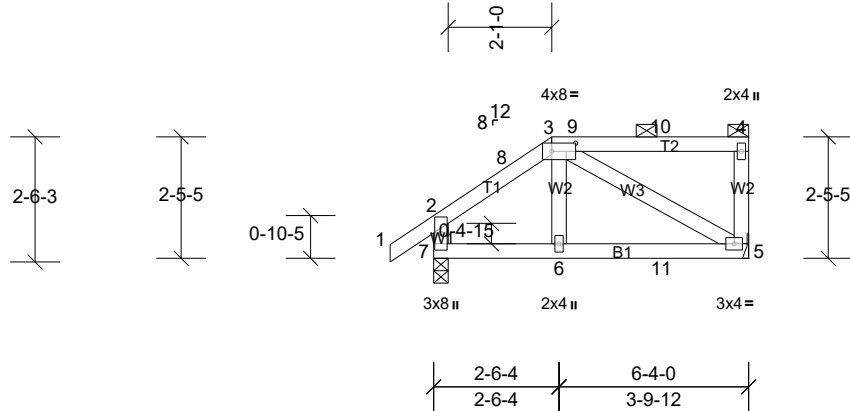
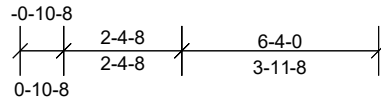
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-252/18, 2-6=-376/81

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 6 and 25 lb uplift at joint 5.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-44, 2-3=-44, 3-4=-60, 5-6=-20

Job 4058931	Truss J09G	Truss Type Half Hip Girder	Qty 1	Ply 1	Job Reference (optional)
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Scale = 1:46.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.01	5-6	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.02	5-6	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 33 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=231/ Mechanical, (min. 0-1-8), 7=261/0-3-8, (min. 0-1-8)
 Max Horiz 7=71 (LC 9)
 Max Uplift 5=-58 (LC 9), 7=-61 (LC 12)
 Max Grav 5=357 (LC 31), 7=377 (LC 32)

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

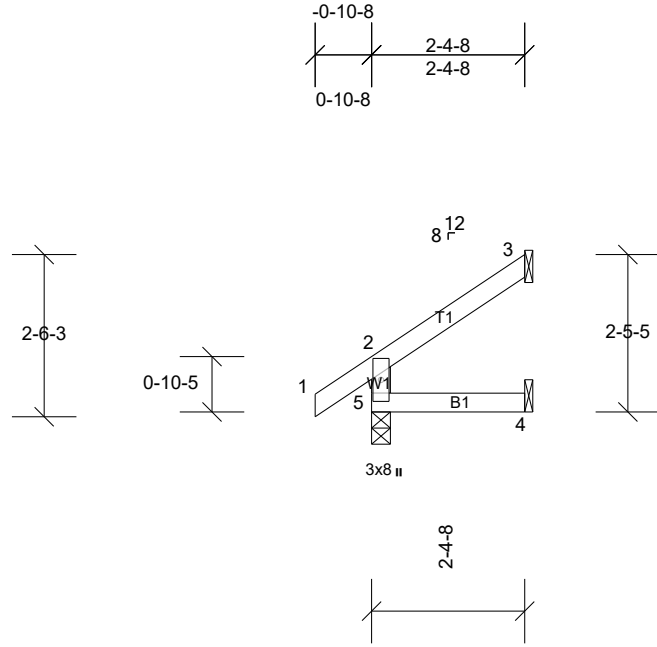
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-285/58, 3-8=-265/66, 2-7=-336/67

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 7 and 58 lb uplift at joint 5.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 87 lb up at 2-4-8, and 56 lb down and 29 lb up at 4-6-12 on top chord, and 22 lb down and 17 lb up at 2-4-8, and 14 lb down and 7 lb up at 4-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 1-2=-44, 2-3=-44, 3-4=-60, 5-7=-20
 Concentrated Loads (lb)
 Vert: 6=1 (F), 11=0 (F)

Job 4058931	Truss J10	Truss Type Jack-Open	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:35.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	4-5	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										Weight: 10 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size)

3=39/ Mechanical, (min. 0-1-8), 4=20/ Mechanical, (min. 0-1-8),
5=125/0-3-8, (min. 0-1-8)
Max Horiz 5=55 (LC 14)
Max Uplift 3=-34 (LC 14)
Max Grav 3=57 (LC 26), 4=40 (LC 5), 5=169 (LC 20)

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

FORCES

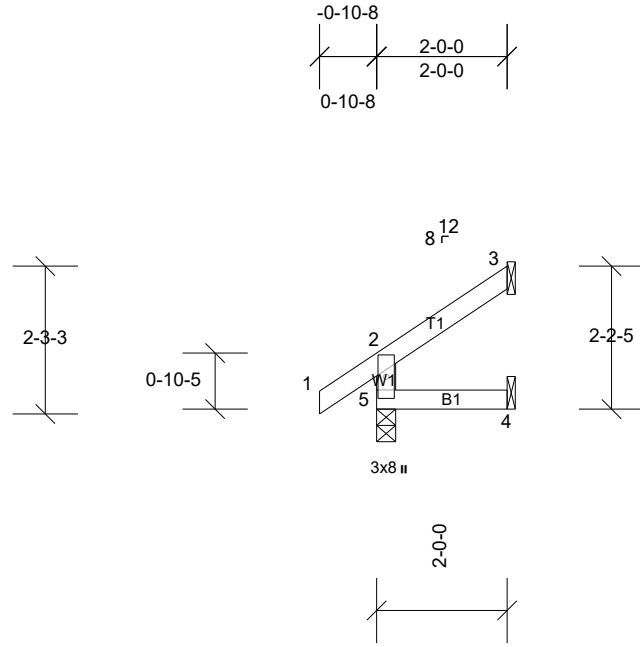
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 4058931	Truss J11	Truss Type Jack-Open	Qty 3	Ply 1	Job Reference (optional)
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Scale = 1:35.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	4-5	>999	240	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							
BCDL	10.0										Weight: 9 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 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=31/ Mechanical, (min. 0-1-8), 4=16/ Mechanical, (min. 0-1-8), 5=117/0-3-8, (min. 0-1-8)
 Max Horiz 5=48 (LC 14)
 Max Uplift 3=-30 (LC 14)
 Max Grav 3=46 (LC 26), 4=34 (LC 5), 5=167 (LC 20)

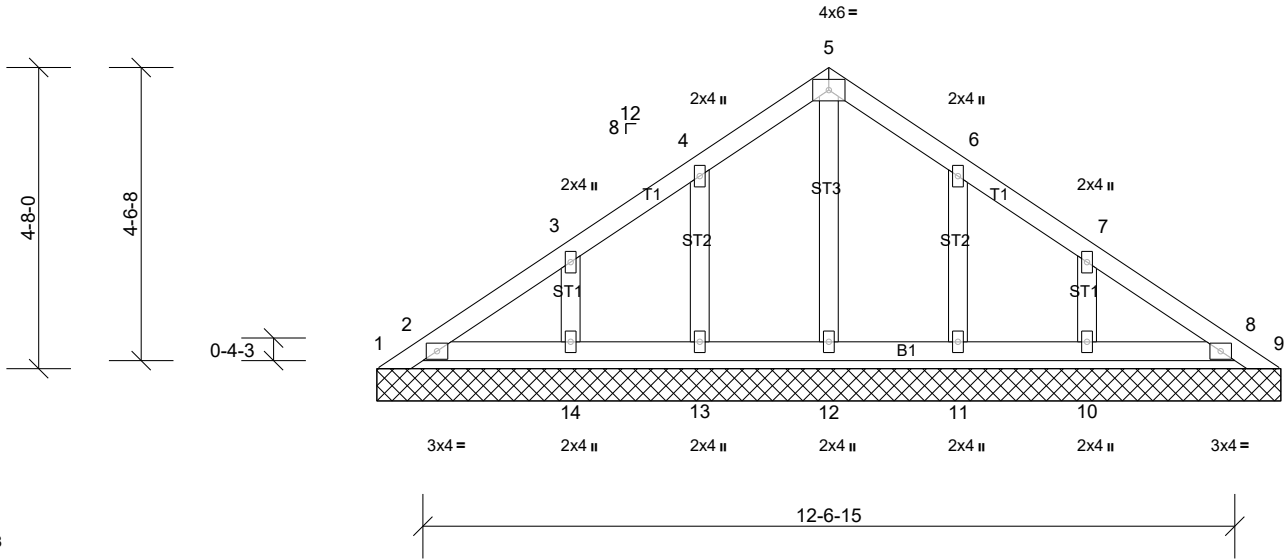
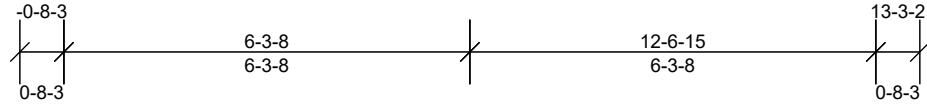
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - 3) Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 4058931	Truss P01GE	Truss Type Piggyback	Qty 2	Ply 1	Job Reference (optional)
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Scale = 1:35.8

Loading	(psf)	Spacing	2-0-0	CSI	0.07	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 61 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

REACTIONS All bearings 14-0-1.
(lb) - Max Horiz 1=87 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 2, 9, 10, 11, 13, 14, 15
Max Grav All reactions 250 (lb) or less at joint(s) 1, 2, 8, 9, 10, 11, 12, 13, 14, 15, 18

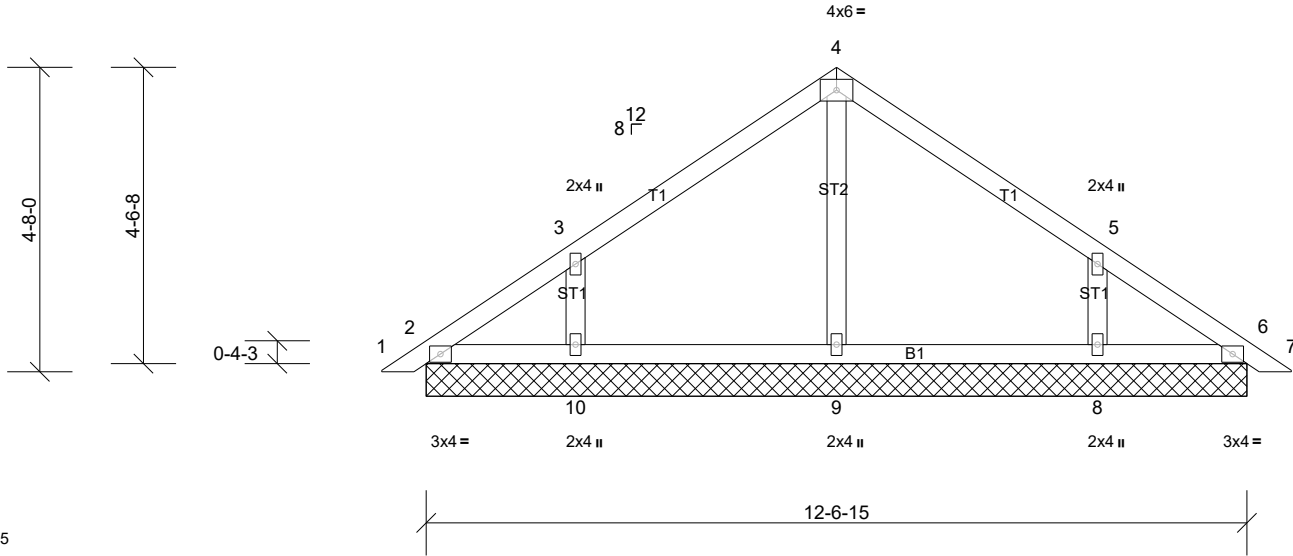
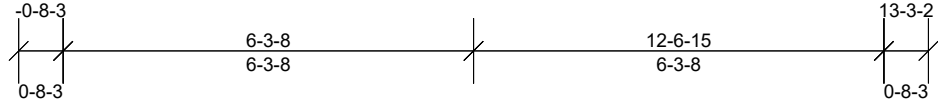
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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, 9, 2, 13, 14, 11, 10, 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 4058931	Truss P02	Truss Type Piggyback	Qty 14	Ply 1	Job Reference (optional)
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Scale = 1:35.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 53 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied.
 Rigid ceiling directly applied.

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

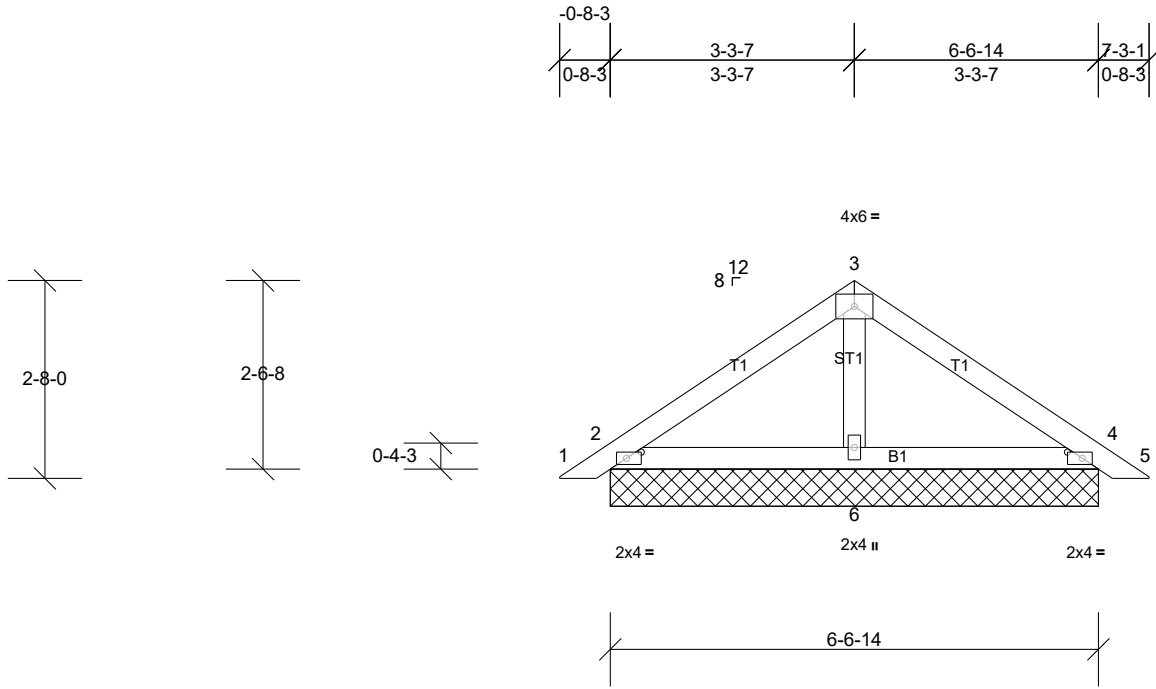
REACTIONS All bearings 12-6-15.
 (lb) - Max Horiz 2=-87 (LC 12), 11=-87 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 11, 15 except
 8=298 (LC 27), 9=273 (LC 2), 10=299 (LC 26)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 8, 2.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 4058931	Truss P03	Truss Type Piggyback	Qty 16	Ply 1	Job Reference (optional)
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Scale = 1:31.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 27 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 6-6-14.
(lb) - Max Horiz 2--48 (LC 12), 7--48 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

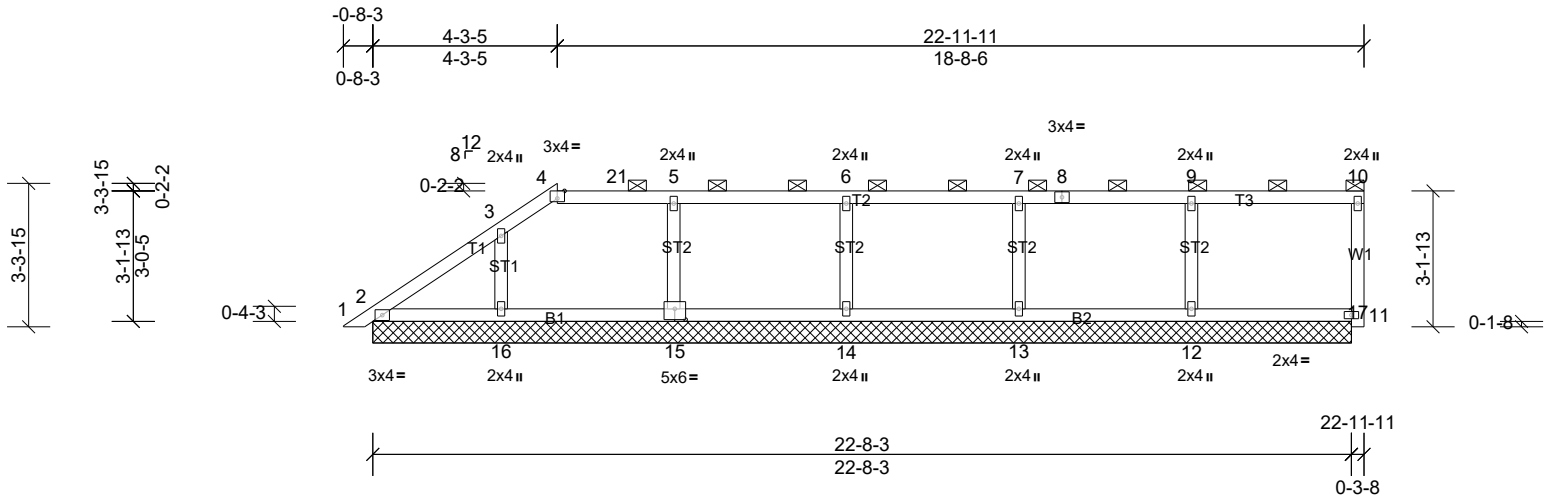
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=12.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 4058931	Truss P04	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
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Scale = 1:53.6

Plate Offsets (X, Y): [4:0-2-0,Edge], [15:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20 244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	17	n/a	n/a	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS							
BCDL	10.0										Weight: 92 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-10.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 22-8-3.
 (lb) - Max Horiz 2=89 (LC 15), 18=89 (LC 15)
 Max Uplift All uplift 100 (lb) or less at joint(s) 11, 12, 13, 14, 15, 16
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 11, 18 except 12=540 (LC 35), 13=517 (LC 35), 14=522 (LC 35), 15=519 (LC 35), 16=379 (LC 36)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 9-12=-463/81, 7-13=-436/75, 6-14=-443/77, 5-15=-437/81, 3-16=-281/103

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - ** TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 14, 15, 16, 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

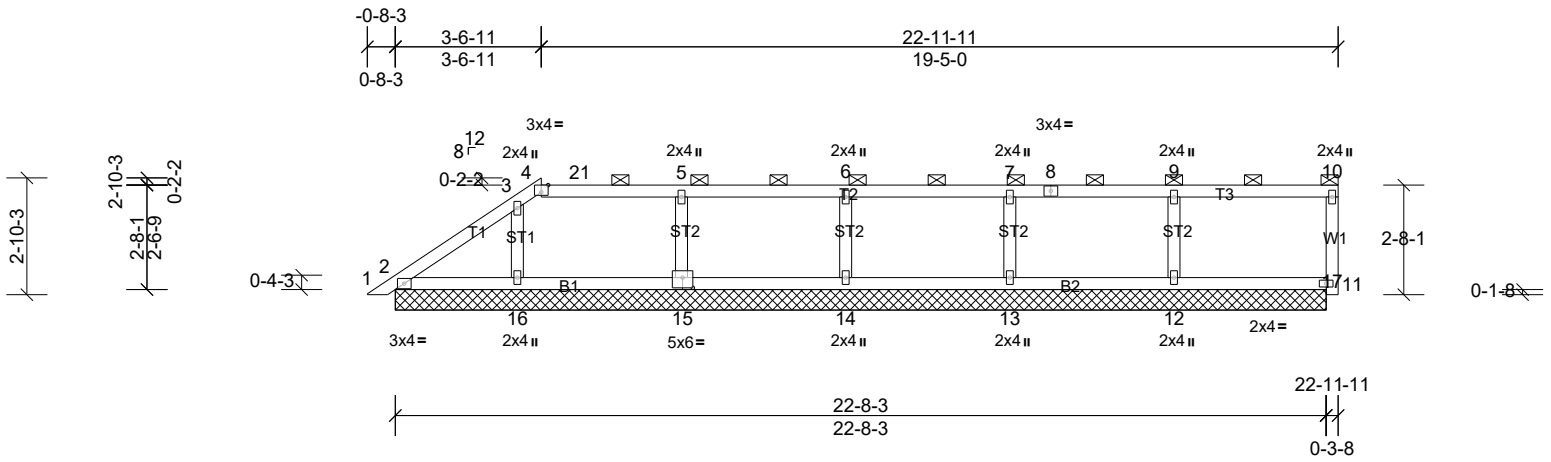
LOAD CASE(S) Standard

Job 4058931	Truss P04	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional)
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- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-4=-44, 4-10=-60, 11-18=-20

Job 4058931	Truss P05	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional)
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Run: 8.63 S May 25 2023 Print: 8.630 S May 25 2023 MiTek Industries, Inc. Fri Jun 07 08:42:13 Page: 1
ID:OXsmLL5R3e16ieVLwa9?3az8zv0-CWlWBtfeINR3MqlQAdG8oj3ujlYO7ft7Kp3BWsz8kJP



Scale = 1:56.4

Plate Offsets (X, Y): [4:0-2-0,Edge], [15:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	12.1/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 88 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 22-8-3.
(lb) - Max Horiz 2=75 (LC 15), 18=75 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 11, 12, 13, 14, 15, 16
Max Grav All reactions 250 (lb) or less at joint(s) 2, 11, 18 except 12=541 (LC 35), 13=518 (LC 35), 14=518 (LC 35), 15=540 (LC 35), 16=334 (LC 36)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 9-12=-462/81, 7-13=-437/75, 6-14=-439/76, 5-15=-457/78

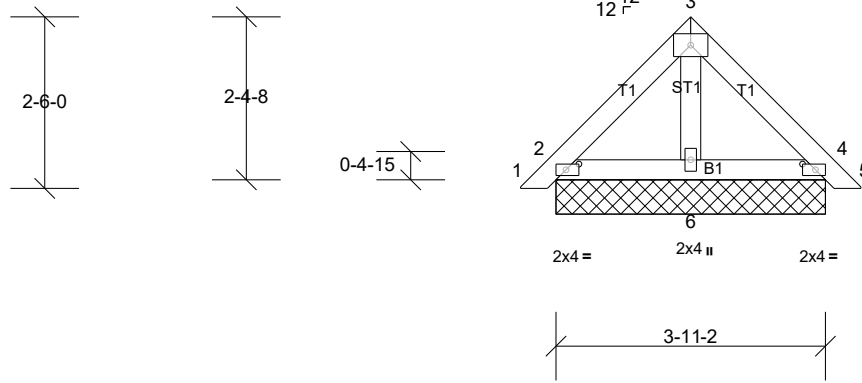
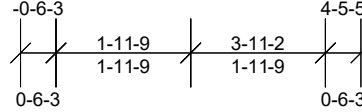
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=12.1 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - 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 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 14, 15, 16, 11.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 4058931	Truss P05	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional)
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- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-4=-44, 4-10=-60, 11-18=-20

Job 4058931	Truss P06	Truss Type Piggyback	Qty 15	Ply 1	Job Reference (optional)
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Scale = 1:33.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	8.3/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins.
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 3-11-2.
(lb) - Max Horiz 2=-44 (LC 12), 7=-44 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=8.3 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
 - Roof design snow load has been reduced to account for slope.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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, 4, 2, 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard