

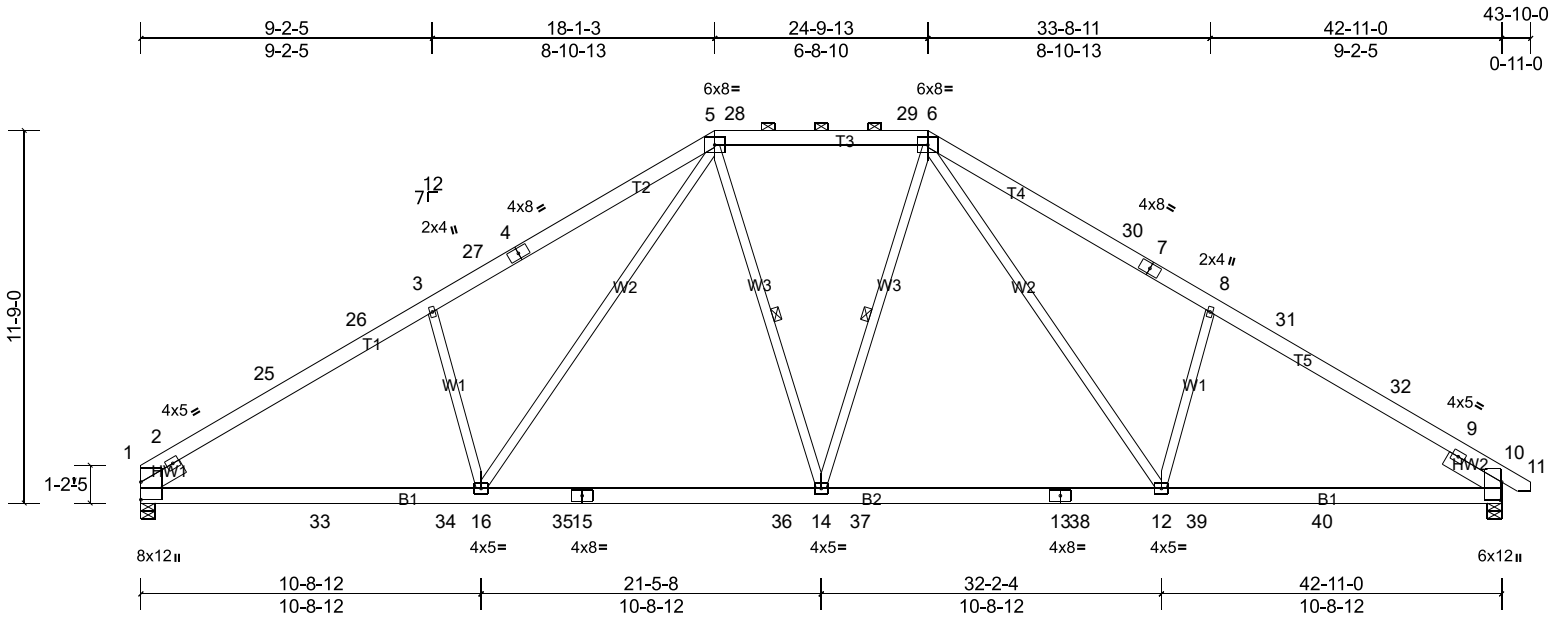
Job 20080073	Truss A1	Truss Type Piggyback Base	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:72.7

Plate Offsets (X, Y): [10:0-6-15,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.26	14-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.41	14-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 315 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T2,T4:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 2-0-0
REACTIONS (lb/size) 1=1486/0-5-8, (min. 0-1-12), 10=1521/0-5-8, (min. 0-1-12)
 Max Horiz 1=-204 (LC 13)
 Max Grav 1=2107 (LC 51), 10=2140 (LC 53)

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
 2-0-0 oc purlins (4-11-2 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-14, 6-14

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=-1784/0, 2-25=-3168/73, 25-26=-3098/89, 3-26=-3000/104, 3-27=-3118/151, 4-27=-3020/162, 4-5=-2955/200,
 5-28=-2071/182, 28-29=-2071/182, 6-29=-2071/182, 6-30=-2953/199, 7-30=-3014/162, 7-8=-3116/150, 8-31=-3000/100,
 31-32=-3113/88, 9-32=-3159/67, 9-10=-1039/0
 BOT CHORD 1-33=-76/2774, 33-34=-27/2774, 16-34=-27/2774, 16-35=0/2044, 15-35=0/2044, 15-36=0/2044, 14-36=0/2044,
 14-37=0/1996, 13-37=0/1996, 13-38=0/1996, 12-38=0/1996, 12-39=-5/2615, 39-40=-5/2615, 10-40=-5/2615
 WEBS 3-16=-581/200, 5-16=-91/1073, 5-14=-43/412, 6-14=-43/412, 6-12=-91/1071, 8-12=-571/200

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-3-8, Interior (1) 4-3-8 to 18-1-3, Exterior(2R) 18-1-3 to 24-2-0, Interior (1) 24-2-0 to 24-9-13, Exterior(2R) 24-9-13 to 30-10-10, Interior (1) 30-10-10 to 43-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

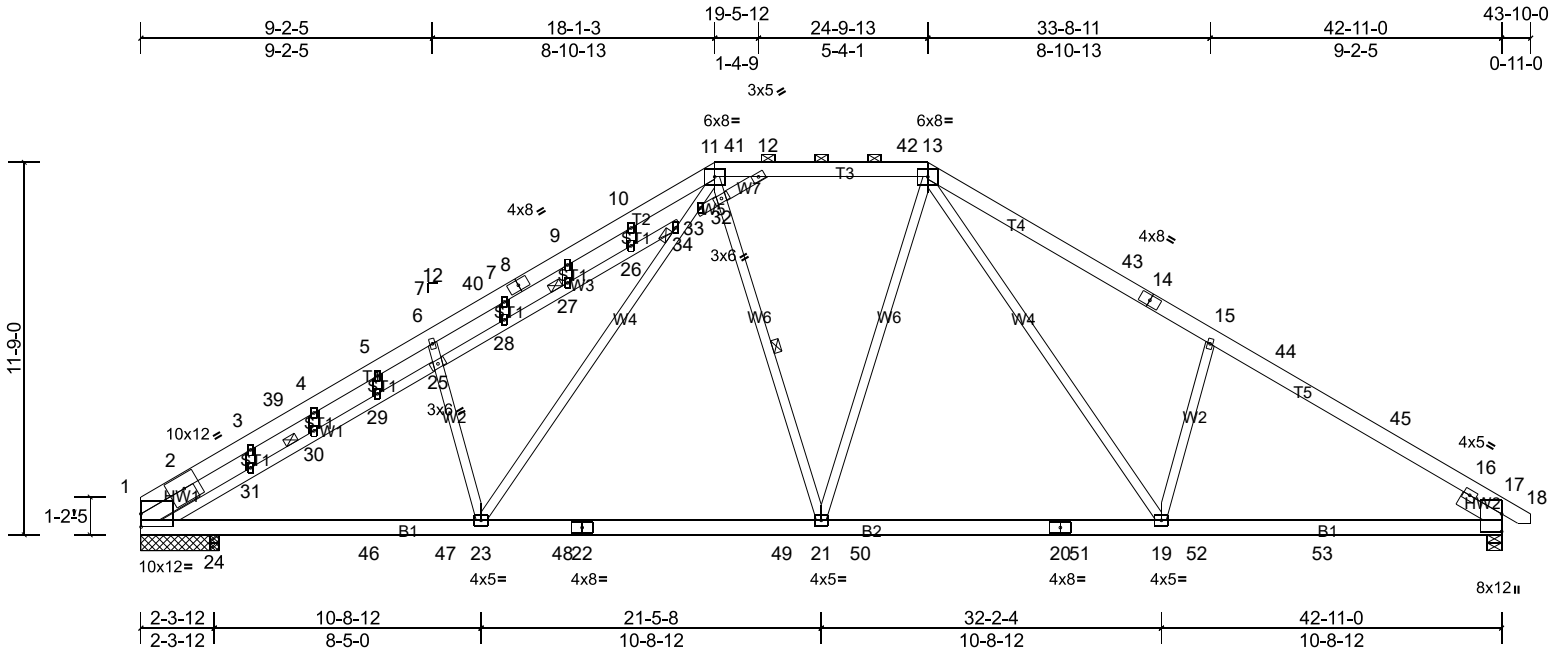
Job 20080073	Truss A2	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:72.7

Plate Offsets (X, Y): [1:0-0-1,0-4-15]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.25	19-21	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.40	19-21	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.11	17	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 353 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T2,T4:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W7,W5:2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 2-0-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except
2-0-0 oc purlins (4-6-10 max.): 11-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-21, 1-25, 25-34
JOINTS 1 Brace at Jt(s): 34

REACTIONS (lb/size) 1=1431/2-5-8, (min. 0-1-11), 17=1509/0-5-8, (min. 0-1-12),
24=49/0-3-8, (min. 0-1-8)
Max Horiz 1=-212 (LC 13)
Max Uplift 24=-78 (LC 43)
Max Grav 1=2059 (LC 51), 17=2125 (LC 53), 24=115 (LC 50)

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=-2333/69, 2-3=-2403/68, 3-39=-2310/72, 4-39=-2287/79, 4-5=-2292/99, 5-6=-2245/102, 6-40=-2432/126,
7-40=-2358/138, 7-8=-2369/140, 8-9=-2312/149, 9-10=-2293/159, 10-11=-2284/194, 11-41=-1565/157, 12-41=-1565/157,
12-42=-2055/187, 13-42=-2055/187, 13-43=-2927/199, 14-43=-2990/162, 14-15=-3093/150, 15-44=-2973/103,
44-45=-3086/88, 16-45=-3141/70, 16-17=-1259/0
BOT CHORD 1-24=-39/2776, 24-46=-39/2776, 46-47=-39/2776, 23-47=-39/2776, 23-48=0/2041, 22-48=0/2041, 22-49=0/2041,
21-49=0/2041, 21-50=0/1960, 20-50=0/1960, 20-51=0/1960, 19-51=0/1960, 19-52=-5/2595, 52-53=-5/2595,
17-53=-5/2595
WEBS 6-25=-534/191, 23-25=-544/190, 23-34=-74/1043, 33-34=-140/545, 11-33=-88/1012, 11-32=-38/459, 21-32=-104/353,
13-21=-41/473, 13-19=-90/1082, 15-19=-583/199, 12-32=-749/46, 1-31=-820/24, 30-31=-868/24, 29-30=-850/17,
25-29=-844/27, 32-33=-724/54, 25-28=-751/36, 27-28=-736/36, 26-27=-736/37, 26-34=-710/21

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-6 to 4-6-14, Interior (1) 4-6-14 to 18-1-3, Exterior(2R) 18-1-3 to 24-2-0, Interior (1) 24-2-0 to 24-9-13, Exterior(2R) 24-9-13 to 30-10-10, Interior (1) 30-10-10 to 43-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.

Job	Truss	Truss Type	Qty	Ply	ON SITE / MO-224
20080073	A2	Piggyback Base Structural Gable	1	1	Job Reference (optional)

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- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

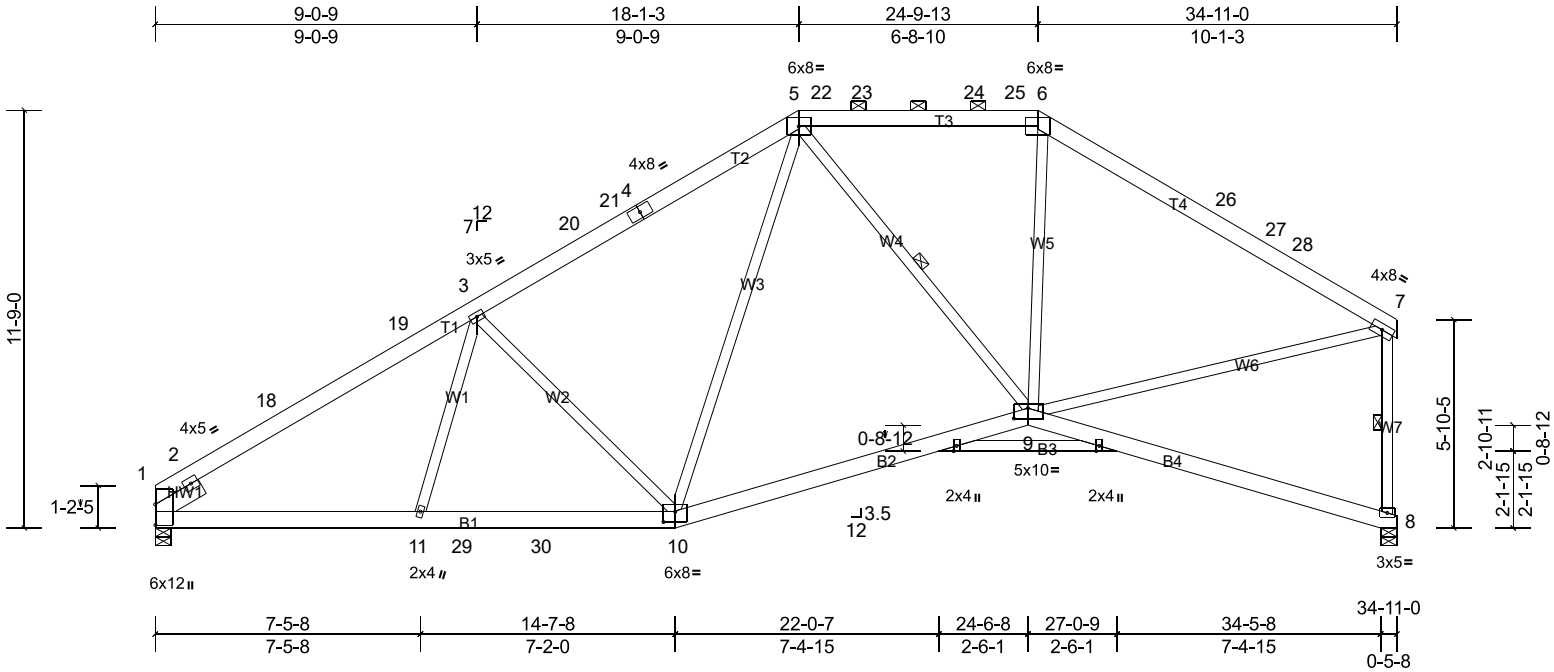
Job 20080073	Truss A3	Truss Type Piggyback Base	Qty 10	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:64.8

Plate Offsets (X, Y): [1:0-6-15,0-0-2], [9:0-4-12,0-3-8], [10:0-4-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.13	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.26	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 275 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T4:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-9 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9, 7-8

REACTIONS (lb/size) 1=1199/0-5-8, (min. 0-1-14), 8=1215/0-5-8, (min. 0-1-13)
Max Horiz 1=195 (LC 12)
Max Grav 1=1601 (LC 50), 8=1630 (LC 48)

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=-1271/0, 2-18=-2325/11, 18-19=-2220/24, 3-19=-2160/44, 3-20=-1855/82, 20-21=-1709/101, 4-21=-1692/104,
4-5=-1686/132, 5-22=-1372/150, 22-23=-1372/150, 23-24=-1372/150, 24-25=-1372/150, 6-25=-1372/150,
6-26=-1573/126, 26-27=-1578/91, 27-28=-1623/88, 7-28=-1712/83, 7-8=-1498/112
BOT CHORD 1-11=-160/2032, 11-29=-102/1987, 29-30=-102/1987, 10-30=-102/1987, 9-10=-63/1472
WEBS 7-9=-12/1369, 6-9=0/422, 5-10=-15/473, 3-10=-708/155, 3-11=0/259

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-1-3, Exterior(2R) 18-1-3 to 23-0-7, Interior (1) 23-0-7 to 24-9-13, Exterior(2R) 24-9-13 to 29-9-1, Interior (1) 29-9-1 to 34-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

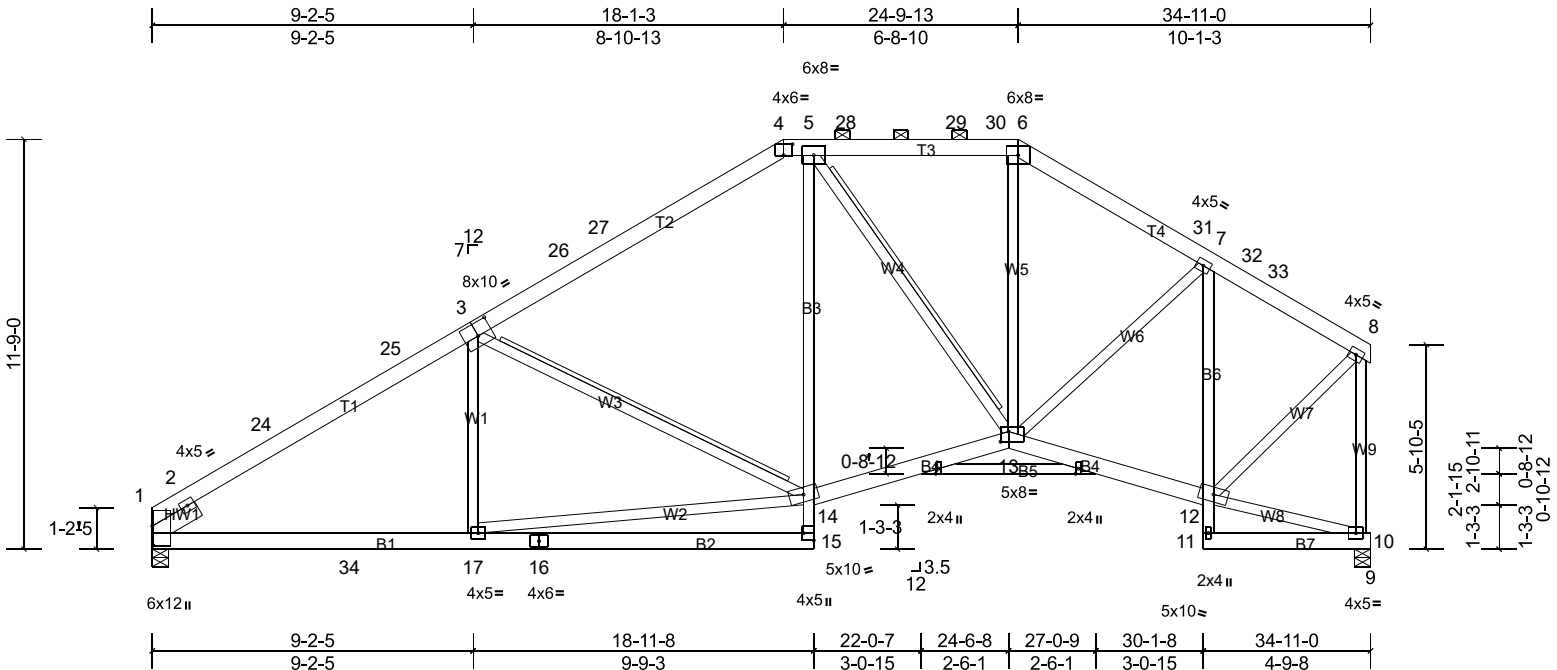
Job 20080073	Truss A4	Truss Type Piggyback Base	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:66

Plate Offsets (X, Y): [1:0-6-11,0-0-6], [3:0-5-0,0-4-8], [4:0-3-0,0-3-12], [13:0-2-12,0-3-8], [15:Edge,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	1.15	TC	0.91	Vert(LL)	-0.14	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.27	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 312 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* B3,B5,B6:2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* W8:2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 1-6-0

REACTIONS (lb/size) 1=1199/0-5-8, (min. 0-1-15), 10=1220/0-5-8, (min. 0-1-15)
 Max Horiz 1=195 (LC 12)
 Max Grav 1=1619 (LC 50), 10=1642 (LC 48)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
 WEBS T-Brace: 2x4 SPF No.2 - 3-14, 5-13
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

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=-1227/0, 2-24=-2339/12, 24-25=-2247/14, 3-25=-2168/46, 3-26=-1688/90, 26-27=-1548/108, 4-27=-1531/138,
 4-5=-1333/172, 5-28=-1339/149, 28-29=-1339/149, 29-30=-1339/149, 6-30=-1339/149, 6-31=-1623/149, 7-31=-1641/115,
 7-32=-987/76, 32-33=-1029/66, 8-33=-1111/60, 8-10=-1556/81
 BOT CHORD 1-34=-161/2037, 17-34=-82/2037, 5-14=0/409, 13-14=-49/1463, 12-13=-34/993, 7-12=-1038/92
 WEBS 3-17=-85/283, 3-14=-754/113, 8-12=-34/1280, 6-13=0/559, 7-13=-15/593, 14-17=-98/1827

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-1-3, Exterior(2R) 18-1-3 to 23-0-7, Interior (1) 23-0-7 to 24-9-13, Exterior(2R) 24-9-13 to 29-9-1, Interior (1) 29-9-1 to 34-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

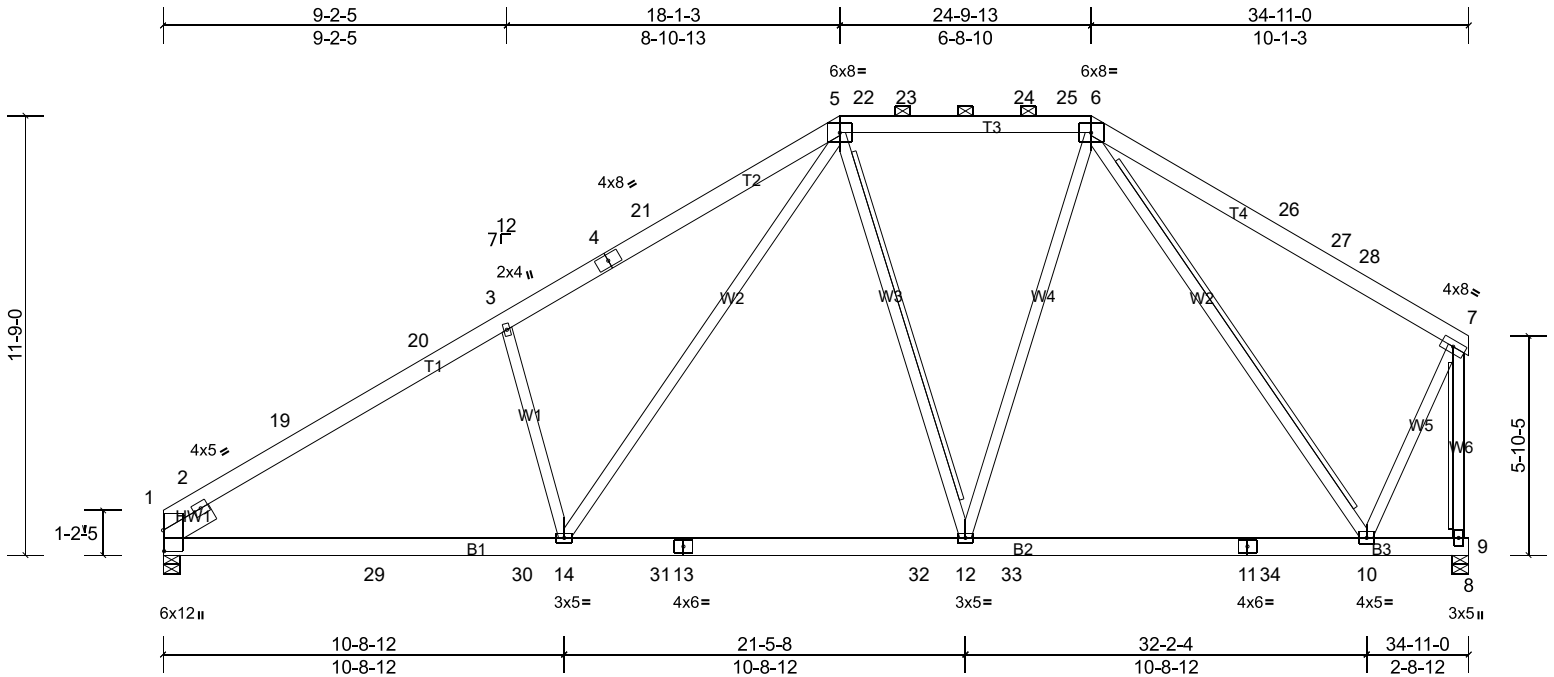
Job 20080073	Truss A5	Truss Type Piggyback Base	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:61.6

Plate Offsets (X, Y): [1:0-6-11,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.19	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.30	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 275 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T4:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 1-14.
 WEBS T-Brace: 2x4 SPF No.2 - 7-9, 5-12, 6-10
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS

(lb/size) 1=1199/0-5-8, (min. 0-2-0), 9=1220/0-5-8, (min. 0-2-1)
 Max Horiz 1=195 (LC 12)
 Max Grav 1=1703 (LC 50), 9=1772 (LC 48)

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=-1349/0, 2-19=-2467/24, 19-20=-2366/43, 3-20=-2299/58, 3-4=-2426/113, 4-21=-2283/121, 5-21=-2258/151, 5-22=-1279/142, 22-23=-1279/142, 23-24=-1279/142, 24-25=-1279/142, 6-25=-1279/142, 6-26=-634/89, 26-27=-639/54, 27-28=-684/50, 7-28=-773/46, 7-9=-1828/30
 BOT CHORD 1-29=-170/2150, 29-30=-94/2150, 14-30=-94/2150, 14-31=-37/1365, 13-31=-37/1365, 13-32=-37/1365, 12-32=-37/1365, 12-33=-18/1081, 11-33=-18/1081, 11-34=-18/1081, 10-34=-18/1081
 WEBS 7-10=0/1288, 6-12=0/778, 5-12=-292/125, 3-14=-610/202, 5-14=-92/1159, 6-10=-968/69

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-5-14, Interior (1) 3-5-14 to 18-1-3, Exterior(2R) 18-1-3 to 23-0-7, Interior (1) 23-0-7 to 24-9-13, Exterior(2R) 24-9-13 to 29-9-1, Interior (1) 29-9-1 to 34-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job 20080073	Truss A5	Truss Type Piggyback Base	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Job 20080073	Truss A6	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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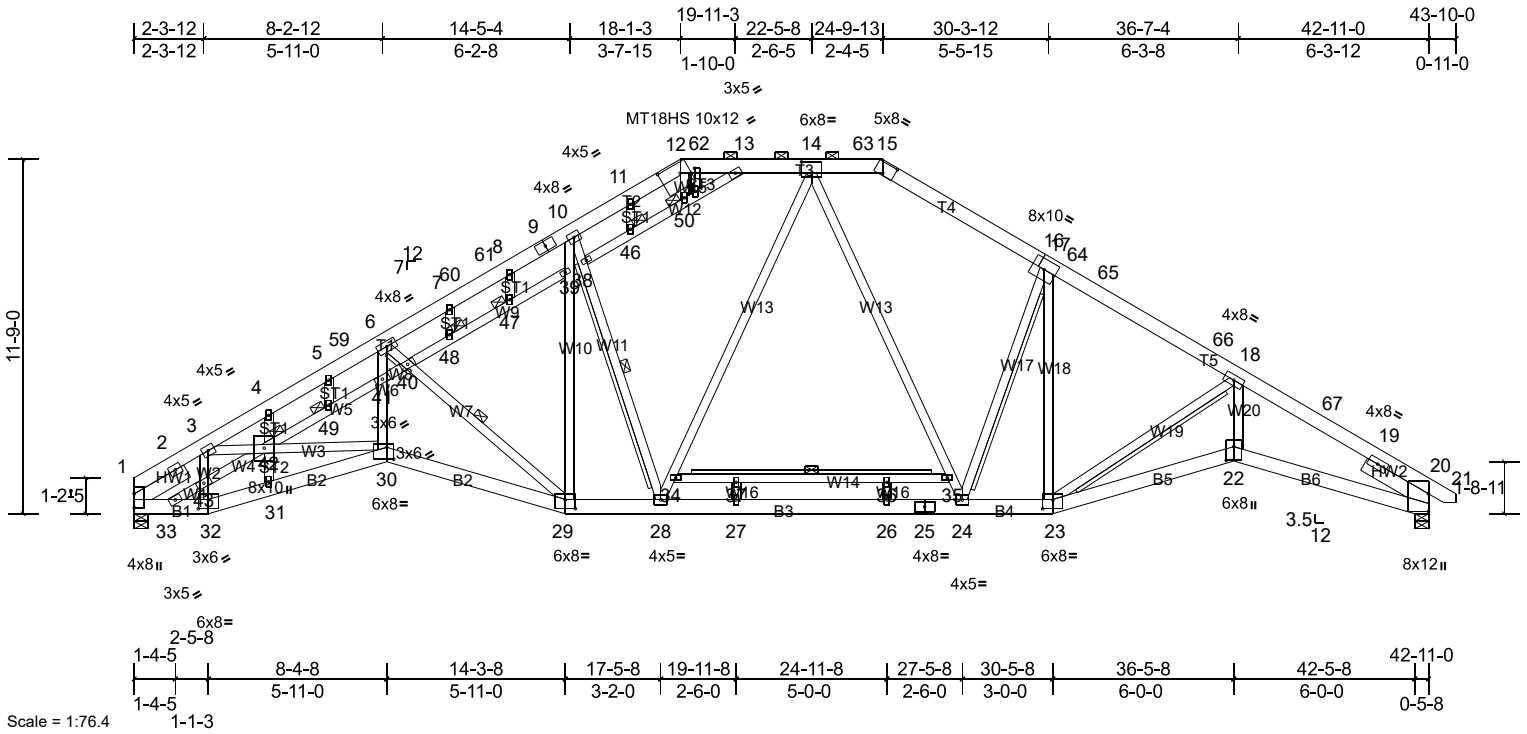


Plate Offsets (X, Y): [12:0-8-0,0-4-0], [14:0-4-0,0-4-8], [15:0-4-6,0-4-2], [22:0-5-8,0-3-0], [23:0-4-0,0-3-8], [29:0-4-0,0-3-8], [30:0-2-12,0-4-12], [32:0-4-0,0-3-8], [45:0-2-0,0-1-7]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.26	26	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.63	26-27	>819	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.29	20	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 416 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2,T4:2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B6:2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W20,W6,W16,W2,W8,W5,W4,W1,W15:2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 2-0-0, Right 2x6 SP No.2 -- 2-6-0
REACTIONS (lb/size) 1=1535/0-5-8, (min. 0-2-3), 20=1578/0-5-8, (min. 0-1-8)
Max Horiz 1=-198 (LC 11)
Max Grav 1=1858 (LC 43), 20=1900 (LC 43)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except
2-0-0 oc purlins (5-7-3 max.): 12-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 22-23.
WEBS 1 Row at midpt 6-29, 34-35, 10-28
WEBS T-Brace: 2x4 SPF No.2 - 17-24, 18-23
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 42, 46, 47, 48, 49, 50

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-860/0, 2-3=-2235/0, 3-4=-4026/0, 4-5=-4028/0, 5-59=-3987/0, 6-59=-3933/0, 6-7=-2518/0, 7-60=-2447/0, 60-61=-2389/0, 8-61=-2380/0, 8-9=-2380/0, 9-10=-2337/0, 10-11=-2091/0, 11-12=-1978/11, 12-62=-1863/18, 13-62=-1863/18, 13-14=-1969/25, 14-63=-2050/27, 15-63=-2050/27, 15-16=-2453/0, 16-17=-2461/0, 17-64=-2408/0, 64-65=-2476/0, 65-66=-2587/0, 18-66=-2644/0, 18-67=-4424/0, 19-67=-4468/0, 19-20=-908/0
BOT CHORD 1-33=-8/1752, 32-33=0/2279, 31-32=0/2247, 30-31=0/2253, 29-30=0/3717, 28-29=0/2059, 27-28=0/1761, 26-27=0/1761, 25-26=0/1761, 24-25=0/1761, 23-24=0/2233, 22-23=0/3946, 20-22=0/3781
WEBS 18-22=0/2018, 17-24=-546/195, 6-40=-1956/0, 29-40=-2013/0, 30-41=0/1656, 6-41=0/1685, 29-39=-68/353, 10-39=-67/383, 14-35=0/865, 24-35=0/823, 28-34=0/643, 14-34=0/686, 10-38=-391/195, 28-38=-347/206, 3-42=0/1710, 30-42=0/1324, 18-23=-1906/0, 32-43=-591/0, 3-43=-682/0, 42-43=-465/0, 33-43=-624/0

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-5-8, Interior (1) 4-5-8 to 18-1-3, Exterior(2R) 18-1-3 to 24-2-0, Interior (1) 24-2-0 to 24-9-13, Exterior(2R) 24-9-13 to 30-10-10, Interior (1) 30-10-10 to 43-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 13.9 psf on overhangs non-concurrent with other live loads.
 - 200.0lb AC unit load placed on the bottom chord, 22-5-8 from left end, supported at two points, 5-0-0 apart.

Job	Truss	Truss Type	Qty	Ply	ON SITE / MO-224
20080073	A6	Piggyback Base Structural Gable	1	1	Job Reference (optional)

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- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 2x4 MT20 unless otherwise indicated.
- 11) The Fabrication Tolerance at joint 12 = 12%
- 12) Gable studs spaced at 2-0-0 oc.
- 13) * 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.
- 14) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

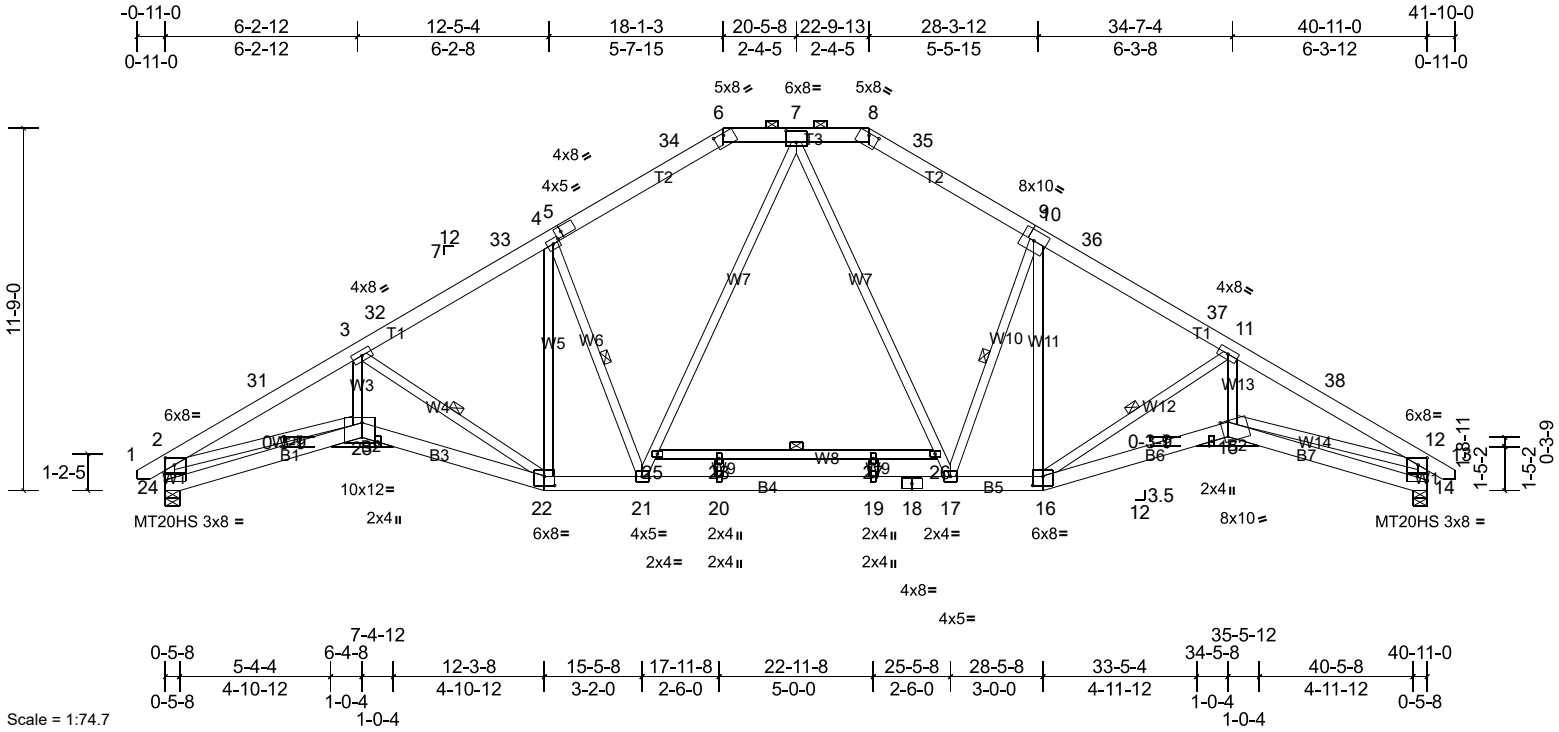
Job 20080073	Truss B1	Truss Type Piggyback Base	Qty 6	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:74.7

Plate Offsets (X, Y): [2:0-3-8,0-2-12], [5:0-2-7,0-2-0], [6:0-4-0,0-0-14], [7:0-4-0,0-4-8], [8:0-4-0,0-0-14], [12:0-3-8,0-2-12], [14:Edge,0-0-8], [15:0-3-0,0-0-8], [16:0-4-0,0-3-8], [22:0-4-0,0-3-8], [23:0-5-0,0-8-0], [24:Edge,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.25	19-20	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.59	19-20	>828	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.30	14	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 365 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* W3,W9,W13:2x4 SP No.3

REACTIONS (lb/size) 14=1540/0-5-8, (min. 0-2-2), 24=1540/0-5-8, (min. 0-2-2)
 Max Horiz 24=-207 (LC 13)
 Max Grav 14=1902 (LC 43), 24=1902 (LC 43)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-1 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-16, 10-17, 3-22, 25-26, 4-21

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 2-31=-4493/0, 3-31=-4399/0, 3-32=-2629/0, 32-33=-2538/0, 4-33=-2442/0, 4-5=-2414/0, 5-34=-2398/0, 6-34=-2189/0, 6-7=-1992/21, 7-8=-1994/0, 8-35=-2192/0, 9-35=-2402/0, 9-10=-2411/0, 10-36=-2437/0, 36-37=-2525/0, 11-37=-2622/0, 11-38=-4418/0, 12-38=-4511/0, 2-24=-1940/0, 12-14=-1941/0
 BOT CHORD 23-24=-144/655, 22-23=0/4075, 21-22=0/2190, 20-21=0/1703, 19-20=0/1703, 18-19=0/1703, 17-18=0/1703, 16-17=0/2179, 15-16=0/4091, 14-15=0/534
 WEBS 11-16=-2134/0, 2-23=0/3331, 12-15=0/3344, 10-17=-553/198, 3-22=-2104/0, 3-23=0/1849, 7-26=0/899, 17-26=0/853, 21-25=0/850, 7-25=0/895, 4-21=-556/196, 11-15=0/1865

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-9 to 3-4-9, Interior (1) 3-4-9 to 18-1-3, Exterior(2E) 18-1-3 to 22-9-13, Exterior(2R) 22-9-13 to 28-3-12, Interior (1) 28-3-12 to 41-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 20-5-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- * 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) 24, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	ON SITE / MO-224
20080073	B1	Piggyback Base	6	1	Job Reference (optional)

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13) 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

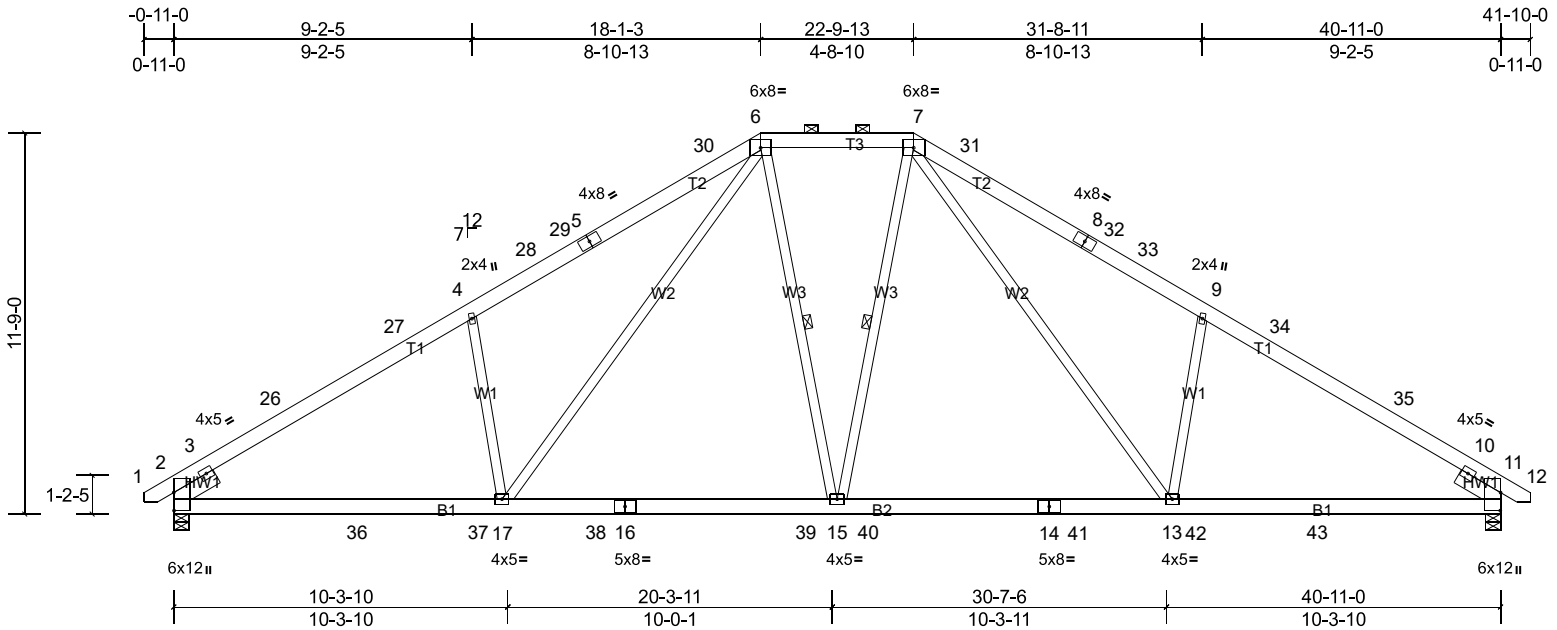
Job 20080073	Truss B2	Truss Type Piggyback Base	Qty 4	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:71.1

Plate Offsets (X, Y): [2:0-6-11,0-0-2], [11:0-6-11,0-0-2], [11:0-0-0,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.24	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.10	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 307 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T2:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-11 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-15, 7-15

REACTIONS (lb/size) 2=1443/0-5-8, (min. 0-1-12), 11=1443/0-5-8, (min. 0-1-12)
 Max Horiz 2=207 (LC 14)
 Max Grav 2=2076 (LC 51), 11=2076 (LC 53)

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=-1706/0, 3-26=-3058/42, 26-27=-3007/65, 4-27=-2890/77, 4-28=-3068/145, 28-29=-2955/158, 5-29=-2937/161, 5-30=-2906/170, 6-30=-2798/194, 6-7=-1947/171, 7-31=-2798/188, 8-31=-2907/164, 8-32=-2938/156, 32-33=-2956/152, 9-33=-3068/139, 9-34=-2890/84, 34-35=-3007/54, 10-35=-3058/49, 10-11=-1246/0
 BOT CHORD 2-36=-79/2681, 36-37=-5/2681, 17-37=-5/2681, 17-38=0/1957, 16-38=0/1957, 16-39=0/1957, 15-39=0/1957, 15-40=0/1920, 14-40=0/1920, 14-41=0/1920, 13-41=0/1920, 13-42=0/2526, 42-43=0/2526, 11-43=0/2526
 WEBS 4-17=-606/207, 6-17=-116/1094, 6-15=-59/412, 7-15=-59/412, 7-13=-116/1094, 9-13=-606/207

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-9 to 3-4-9, Interior (1) 3-4-9 to 18-1-3, Exterior(2E) 18-1-3 to 22-9-13, Exterior(2R) 22-9-13 to 28-7-4, Interior (1) 28-7-4 to 41-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

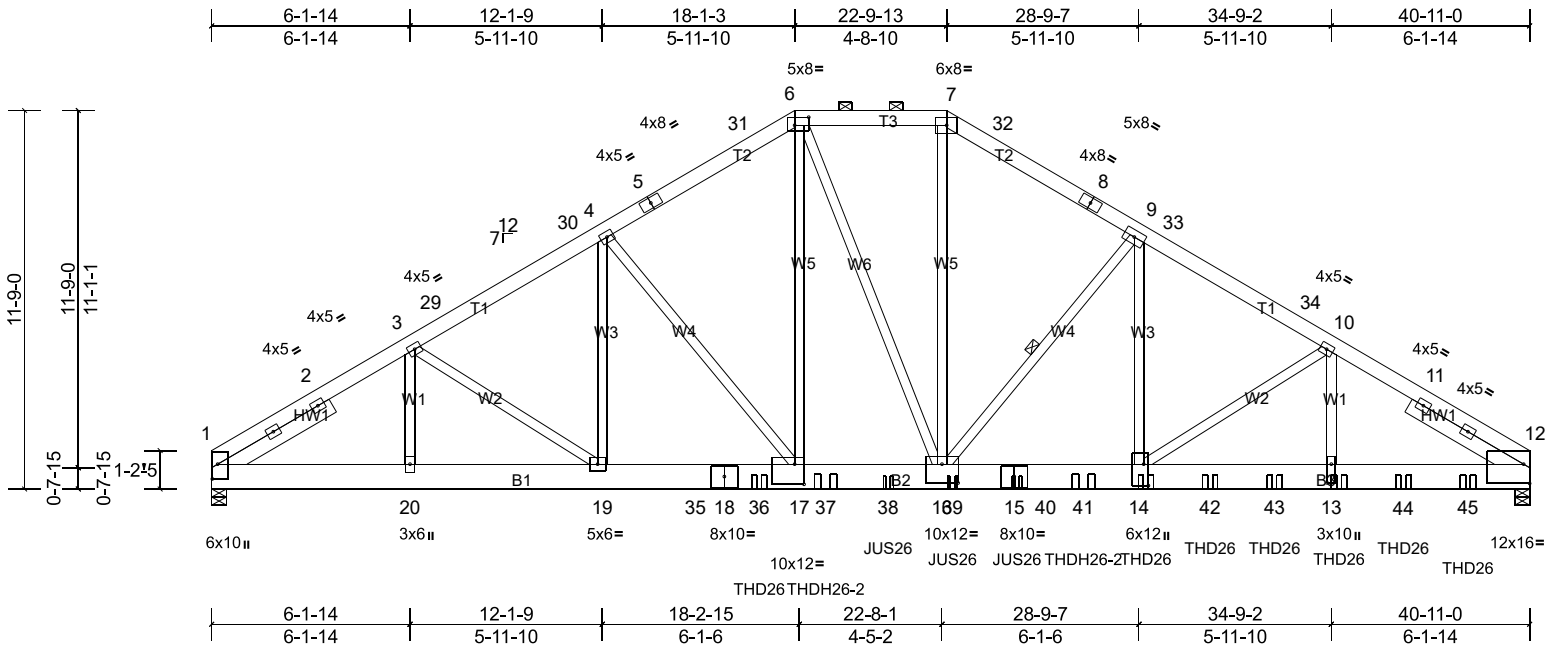
Job 20080073	Truss B3	Truss Type Piggyback Base Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:71.5

Plate Offsets (X, Y): [1:0-5-8,0-2-0], [6:0-5-4,0-3-0], [12:Edge,0-7-3], [13:0-7-0,0-1-8], [14:0-8-0,0-1-12], [16:0-6-0,0-7-0], [17:0-3-8,0-7-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.39	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.11	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 833 lb	FT = 20%	

LUMBER	BRACING
TOP CHORD	2x6 SP No.2 *Except* T1:2x6 SP 2400F 2.0E
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* W1:2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 4-0-0, Right 2x6 SP No.2 -- 4-0-0
REACTIONS	(lb/size) 1=5072/0-5-8, (min. 0-2-11), 12=9112/0-5-8, (min. 0-4-12) Max Horiz 1=-196 (LC 55) Max Grav 1=6463 (LC 25), 12=11463 (LC 26)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-5414/0, 2-3=-9937/0, 3-29=-10804/0, 29-30=-10793/0, 4-30=-10684/0, 4-5=-10453/0, 5-31=-10369/0, 6-31=-10337/0, 6-7=-9504/0, 7-32=-10884/0, 8-32=-10944/0, 8-9=-11020/0, 9-33=-14633/0, 33-34=-14742/0, 10-34=-14768/0, 10-11=-16332/0, 11-12=-9272/0
BOT CHORD	1-20=0/8492, 19-20=0/8492, 19-35=0/9438, 18-35=0/9438, 18-36=0/9438, 17-36=0/9438, 17-37=0/9047, 37-38=0/9047, 16-38=0/9047, 16-39=0/12746, 15-39=0/12746, 15-40=0/12746, 40-41=0/12746, 14-41=0/12746, 14-42=0/13756, 42-43=0/13756, 13-43=0/13756, 13-44=0/13756, 44-45=0/13756, 12-45=0/13756
WEBS	3-20=-928/0, 3-19=0/1268, 4-19=-83/290, 4-17=-825/138, 6-17=0/3872, 6-16=0/1541, 7-16=0/5316, 9-16=-5407/0, 9-14=0/5553, 10-14=-1278/0, 10-13=0/1986

- 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 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-7-0 oc, Except member 9-14 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Solid blocking is required on both sides of the truss at joint(s), 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job 20080073	Truss B3	Truss Type Piggyback Base Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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- 12) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 12-0-0 oc max. starting at 17-0-0 from the left end to 39-0-0 to connect truss(es) D3 (1 ply 2x10 SP), E4 (1 ply 2x6 SP), E3 (1 ply 2x6 SP) to front face of bottom chord.
- 13) Use USP THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent spaced at 8-0-0 oc max. starting at 19-0-12 from the left end to 27-0-12 to connect truss(es) D6 (2 ply 2x10 SP), E5 (2 ply 2x6 SP) to front face of bottom chord.
- 14) Use USP JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 21-0-0 from the left end to 25-0-0 to connect truss(es) J05A (1 ply 2x6 SP) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-6=-48, 6-7=-58, 7-12=-48, 21-25=-20

Concentrated Loads (lb)

Vert: 15=-160 (F), 14=-885 (F), 13=-881 (F), 36=-967 (F), 37=-2268 (F), 38=-160 (F), 39=-160 (F), 41=-2383 (F), 42=-885 (F), 43=-885 (F), 44=-881 (F), 45=-881 (F)

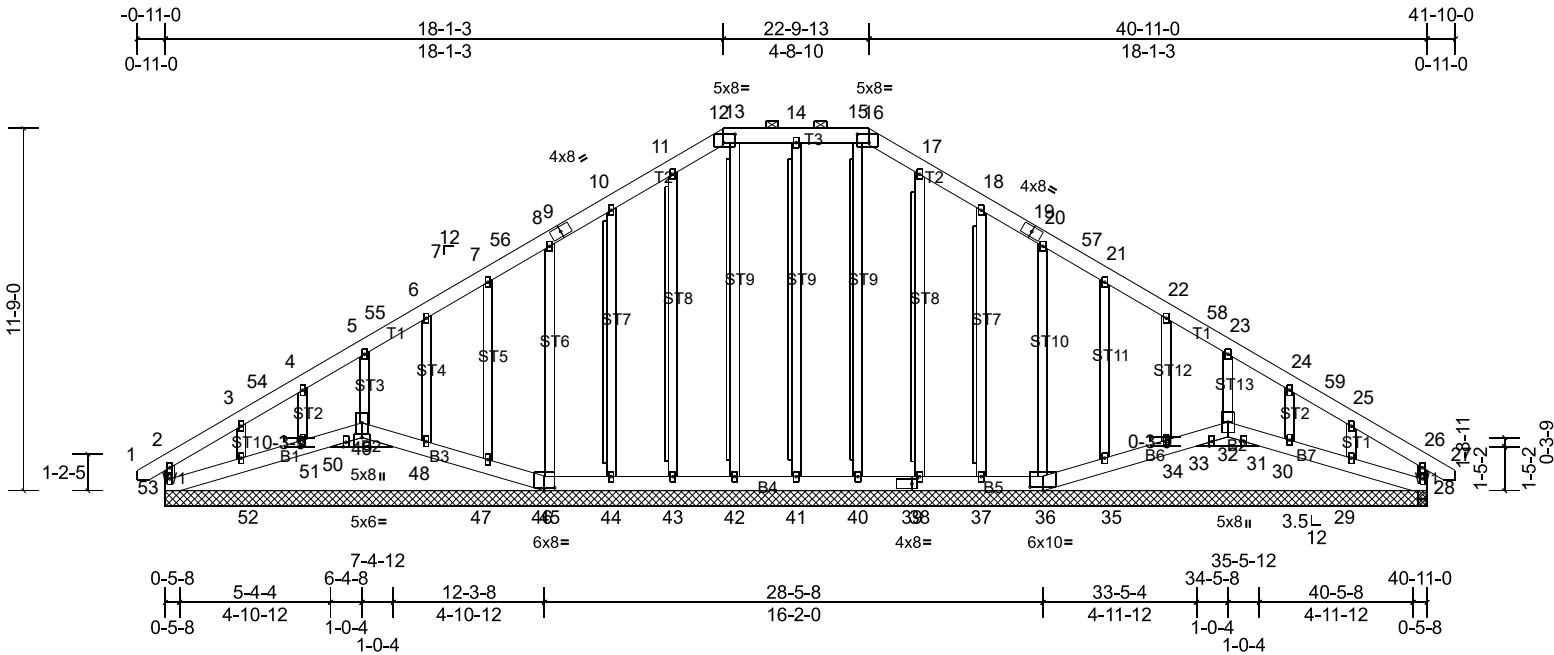
Job 20080073	Truss B4	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:74.7

Plate Offsets (X, Y): [12:0-4-8,0-3-4], [16:0-4-8,0-3-4], [36:0-5-0,0-1-7], [39:0-2-0,0-2-0], [46:0-4-0,0-1-3], [49:0-3-0,Edge]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00 52-53	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00 52-53	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00 28	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										Weight: 393 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.2 *Except* ST12,ST13,ST2,ST1,ST4,ST3:2x4 SP No.3

REACTIONS All bearings 40-11-0.
(lb) - Max Horiz 53=200 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 28, 29, 30, 34, 35, 36, 37, 44, 45, 46, 47, 48, 49, 50, 51, 52 except 53=111 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53

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.): 12-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 51-52,50-51,32-33,31-32.
WEBS T-Brace: 2x4 SPF No.2 - 14-41, 15-40, 17-38, 18-37, 13-42, 11-43, 10-44
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-9 to 3-4-9, Interior (1) 3-4-9 to 18-1-3, Exterior(2E) 18-1-3 to 22-9-13, Exterior(2R) 22-9-13 to 28-5-8, Interior (1) 28-5-8 to 41-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 53, 46, 28, 37, 36, 35, 34, 30, 29, 44, 45, 47, 48, 49, 51, 52, and 50. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

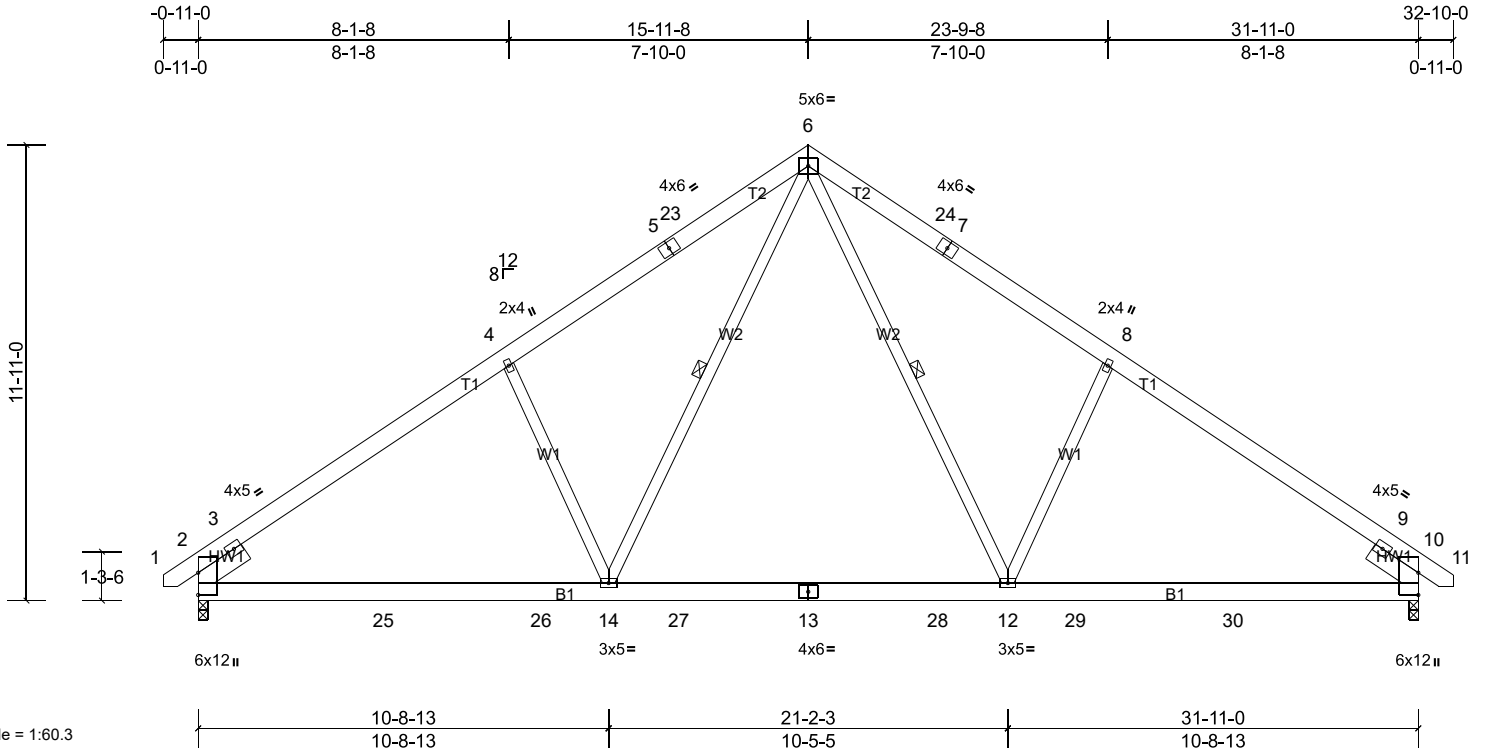
Job 20080073	Truss C1	Truss Type Common	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:60.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.16	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.27	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 232 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-1-12 oc bracing.
 WEBS 1 Row at midpt 6-12, 6-14

REACTIONS (lb/size) 2=1115/0-3-0, (min. 0-1-12), 10=1115/0-3-0, (min. 0-1-12)
 Max Horiz 2=-209 (LC 11)
 Max Uplift 2=-69 (LC 10), 10=-69 (LC 9)
 Max Grav 2=1505 (LC 3), 10=1505 (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=-845/592, 3-4=-1897/1068, 4-5=-1747/1128, 5-23=-1628/1130, 6-23=-1616/1154, 6-24=-1616/1154, 7-24=-1628/1130, 7-8=-1747/1128, 8-9=-1897/1068, 9-10=-656/485
 BOT CHORD 2-25=-771/1481, 25-26=-771/1481, 14-26=-771/1481, 14-27=-434/1039, 13-27=-434/1039, 13-28=-434/1039, 12-28=-434/1039, 12-29=-769/1481, 29-30=-769/1481, 10-30=-769/1481
 WEBS 6-12=-616/805, 8-12=-393/198, 6-14=-616/805, 4-14=-393/198

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-11 to 2-5-10, Interior (1) 2-5-10 to 15-11-8, Exterior(2R) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 32-7-11 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

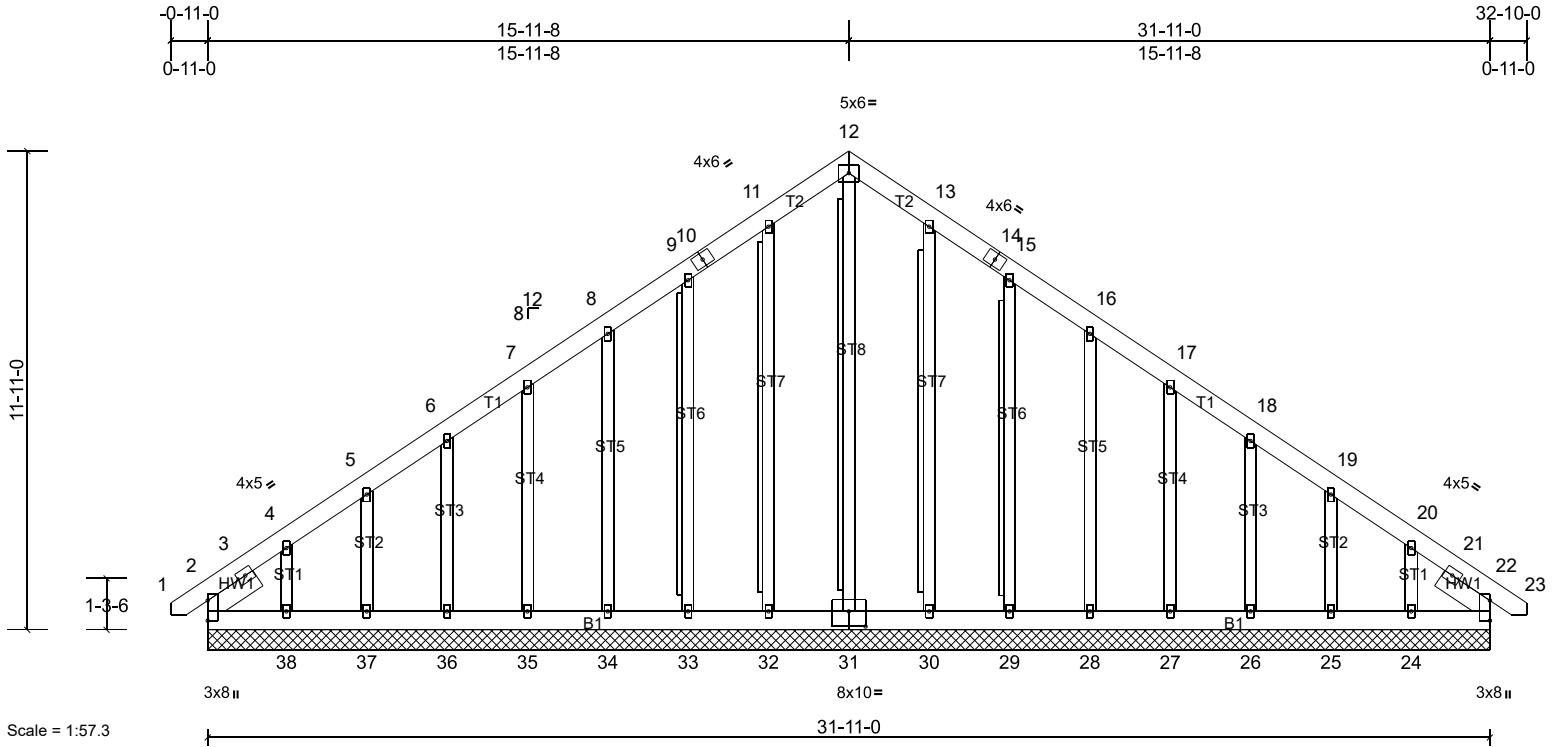
Job 20080073	Truss C2	Truss Type Common Supported Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:57.3

Plate Offsets (X, Y): [31:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	0.06	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 311 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.2 *Except* ST3,ST2,ST1:2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 12-31, 11-32, 9-33, 13-30, 15-29
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS All bearings 31-11-0.
(lb) - Max Horiz 2=-209 (LC 11), 43=-209 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 22, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 39, 43 except 38=-114 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 43

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-162/252, 12-13=-162/252

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-11 to 2-5-10, Exterior(2N) 2-5-10 to 15-11-8, Corner(3R) 15-11-8 to 19-1-13, Exterior(2N) 19-1-13 to 32-7-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22, 32, 33, 34, 35, 36, 37, 38, 29, 28, 27, 26, 25, 24, and 2. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

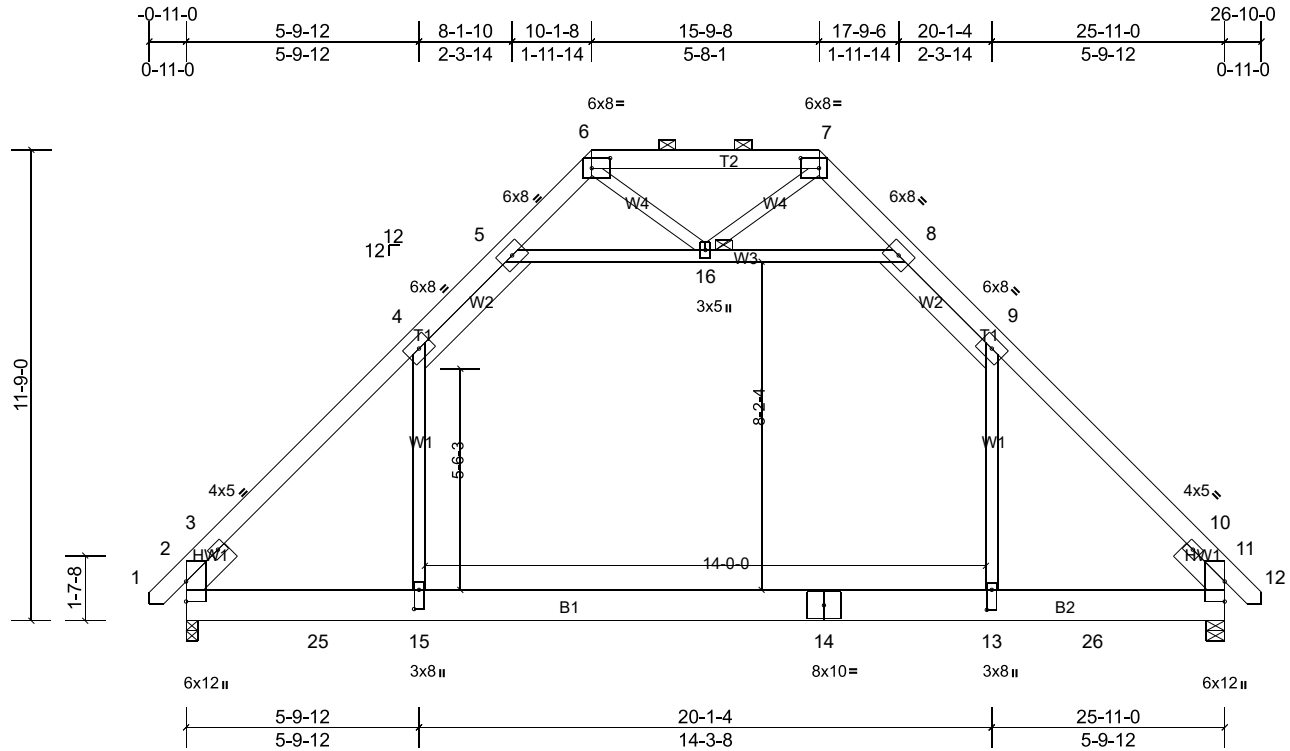
Job 20080073	Truss D1	Truss Type Attic	Qty 2	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:57.5

Plate Offsets (X, Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [13:0-6-0,0-1-8], [15:0-5-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.29	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	13-15	>735	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	13-15	>879	360		
BCDL	10.0											
											Weight: 257 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E *Except* B2:2x10 SP No.2
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0
REACTIONS (lb/size) 2=1156/0-3-8, (min. 0-1-8), 11=1156/0-5-8, (min. 0-2-0)
Max Horiz 2=-206 (LC 11)
Max Grav 2=1712 (LC 3), 11=1712 (LC 3)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16

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=-742/8, 3-4=-2079/0, 4-5=-1232/87, 5-6=-383/77, 7-8=-379/78, 8-9=-1234/87, 9-10=-2067/0, 10-11=-696/0
BOT CHORD 2-25=0/1293, 15-25=0/1293, 14-15=0/1295, 13-14=0/1295, 13-26=0/1293, 11-26=0/1293
WEBS 4-15=0/1092, 9-13=0/1086, 5-16=-1413/130, 8-16=-1405/129

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-1-7, Interior (1) 20-1-7 to 26-7-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 (10.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

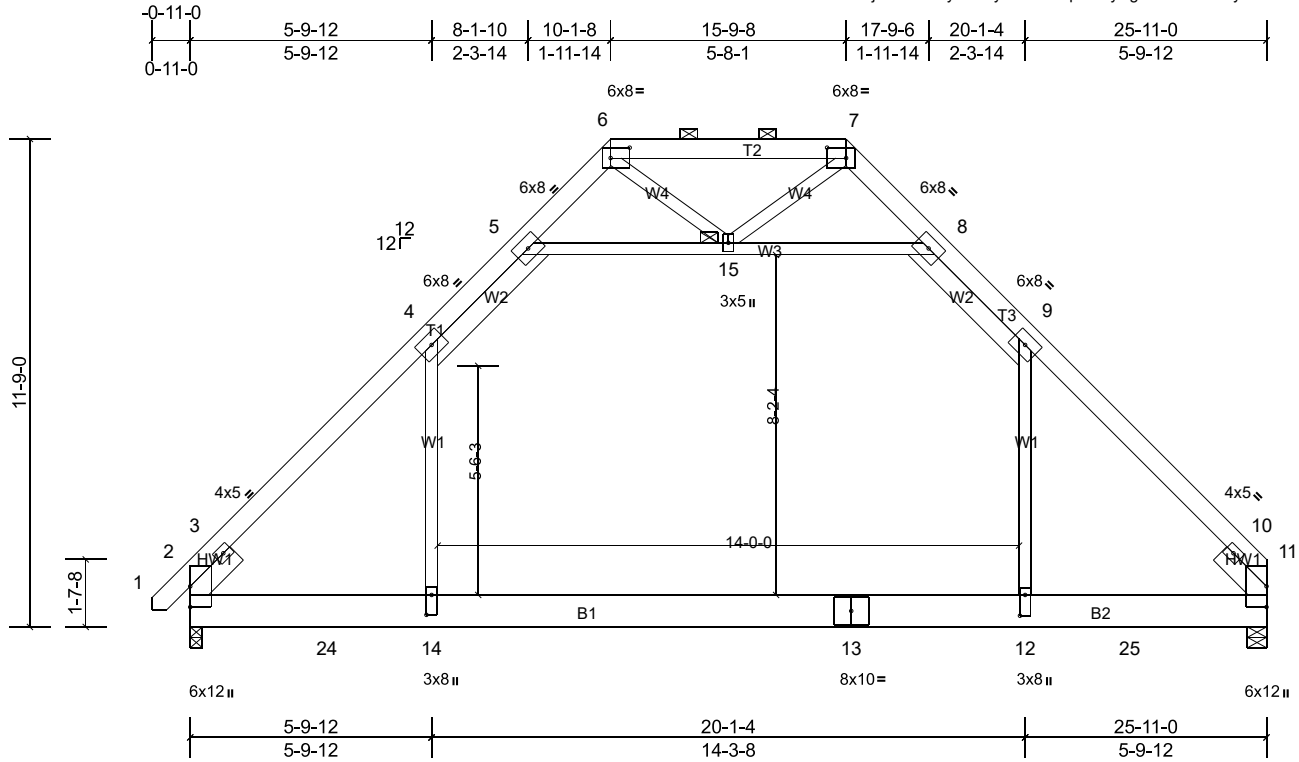
Job 20080073	Truss D2	Truss Type Attic	Qty 2	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:55.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.29	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	12-14	>735	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	12-14	>879	360		
BCDL	10.0											
											Weight: 255 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP No.2 *Except* B1:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0
REACTIONS (lb/size) 2=1156/0-3-8, (min. 0-1-8), 11=1120/0-5-8, (min. 0-2-0)
Max Horiz 2=201 (LC 12)
Max Grav 2=1713 (LC 3), 11=1675 (LC 3)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 15
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=-743/8, 3-4=-2080/0, 4-5=-1233/87, 5-6=-383/77, 7-8=-379/78, 8-9=-1235/86, 9-10=-2069/0, 10-11=-714/0
BOT CHORD 2-24=0/1287, 14-24=0/1287, 13-14=0/1289, 12-13=0/1289, 12-25=0/1287, 11-25=0/1287
WEBS 5-15=-1415/129, 8-15=-1406/128, 4-14=0/1093, 9-12=0/1086

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-1-7, Interior (1) 20-1-7 to 25-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 (10.0 psf) on member(s). 4-5, 8-9, 5-15, 8-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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

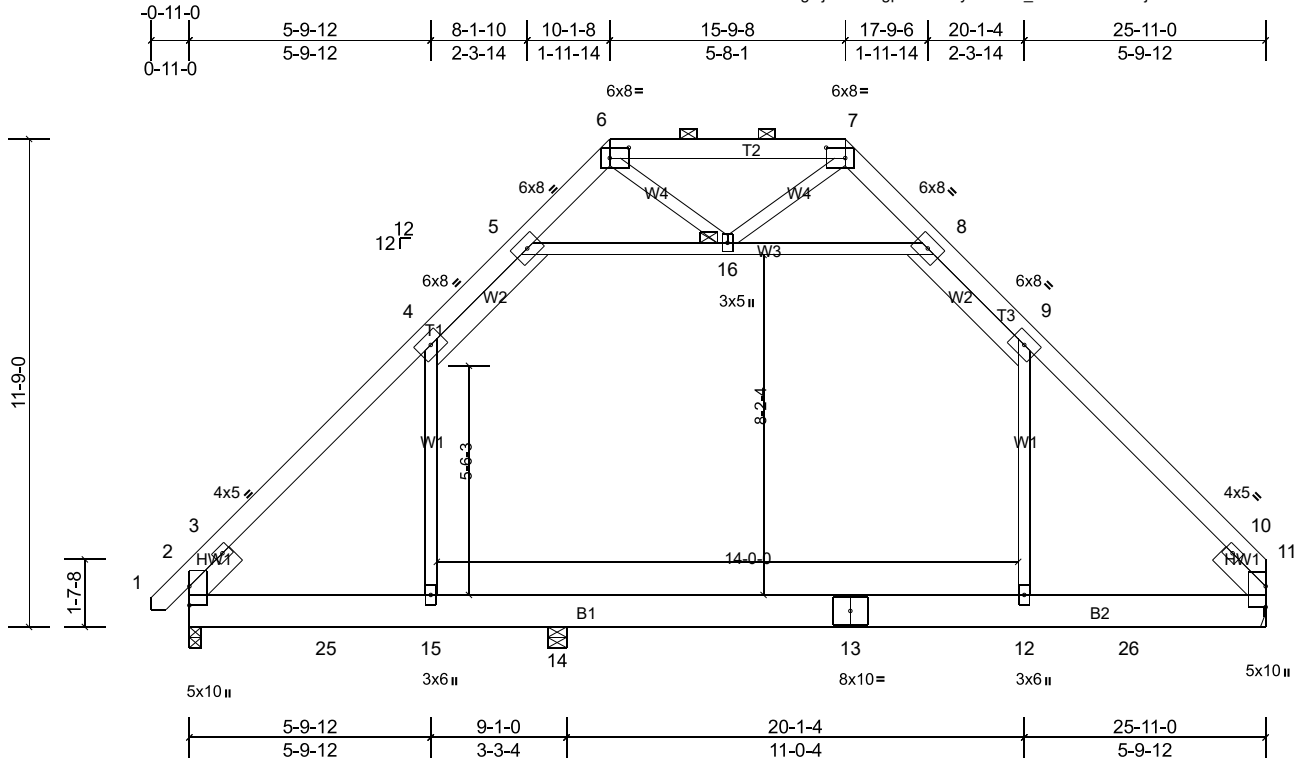
Job 20080073	Truss D3	Truss Type Attic	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:55.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.23	12-14	>877	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.32	12-14	>634	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.18	12-15	>964	360		
BCDL	10.0											
											Weight: 255 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP No.2 *Except* B1:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-7-7 oc bracing: 12-14.
JOINTS 1 Brace at Jt(s): 16

REACTIONS (lb/size) 2=901/0-3-8, (min. 0-1-8), 11=987/ Mechanical, (min. 0-1-8),
14=388/0-5-8, (min. 0-1-8)
Max Horiz 2=201 (LC 12)
Max Grav 2=1181 (LC 31), 11=1465 (LC 31), 14=1106 (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.
TOP CHORD 2-3=-699/6, 3-4=-1515/38, 4-5=-1030/107, 5-6=-445/51, 6-7=-330/30, 7-8=-426/36, 8-9=-943/110, 9-10=-1482/0, 10-11=-520/0
BOT CHORD 2-25=0/875, 15-25=0/875, 14-15=0/876, 13-14=0/876, 12-13=0/876, 12-26=0/875, 11-26=0/875
WEBS 5-16=-1016/169, 8-16=-843/176, 4-15=-188/449, 9-12=0/696

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-1-7, Interior (1) 20-1-7 to 25-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 (10.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15, 12-14
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

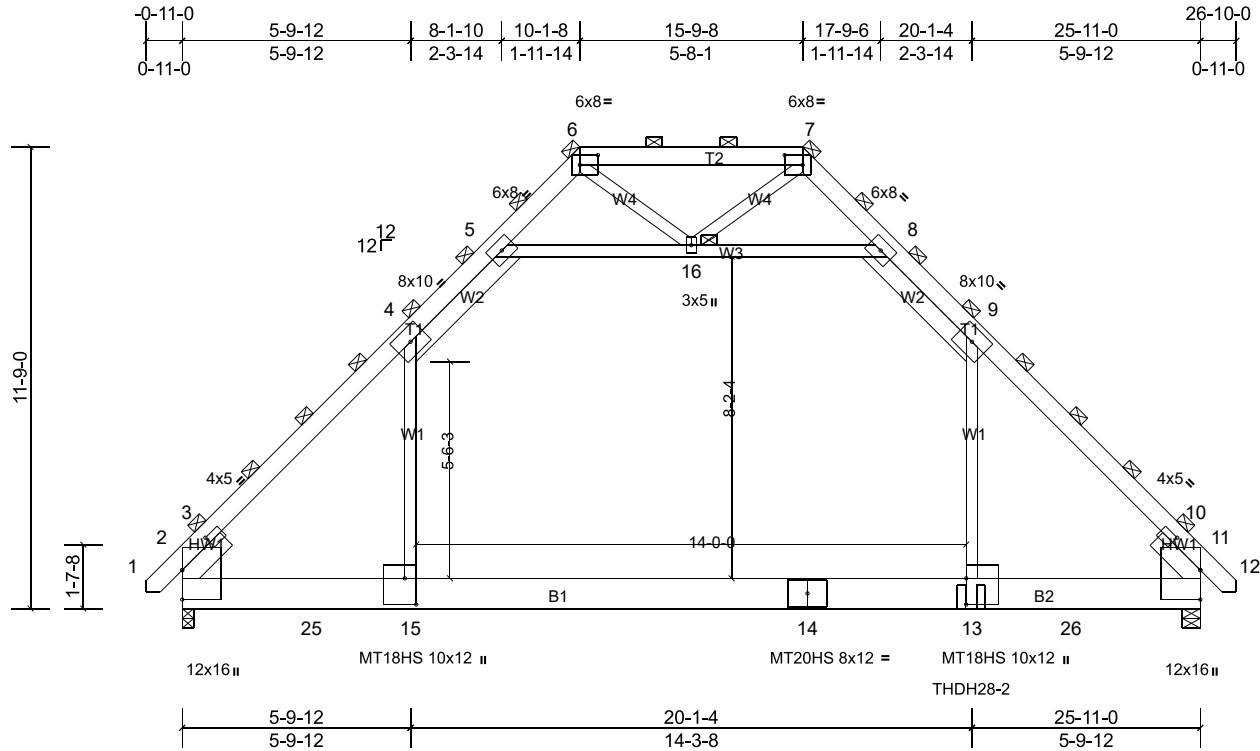
Job 20080073	Truss D4	Truss Type Attic Girder	Qty 1	Ply 3	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:58.6

Plate Offsets (X, Y): [2:1-0-0,0-2-0], [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [11:1-0-0,0-2-0], [13:0-8-0,Edge], [15:0-8-0,0-3-8]

Loading	(psf)	Spacing	7-1-2	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.36	13-15	>857	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.56	13-15	>555	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	-0.04	2	n/a	n/a	MT18HS	244/190
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.23	13-15	>762	360		
BCDL	10.0											Weight: 771 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 7, 16

REACTIONS (lb/size) 2=6286/0-3-8, (min. 0-2-10), 11=6157/0-5-8, (min. 0-2-5)
Max Horiz 2=-730 (LC 7)
Max Grav 2=9540 (LC 22), 11=8274 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5126/0, 3-4=-9694/0, 4-5=-5398/0, 5-6=-961/588, 6-7=-276/1044, 7-8=-989/595, 8-9=-5366/0, 9-10=-9766/0, 10-11=-4894/0
BOT CHORD 2-25=-23/6080, 15-25=0/6080, 14-15=0/6091, 13-14=0/6091, 13-26=0/6078, 11-26=0/6078
WEBS 5-16=-7184/303, 8-16=-7120/256, 4-15=0/5172, 9-13=0/5321, 7-16=-103/532, 6-16=-81/692

- NOTES**
- 3-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 0-8-0 oc.
Web connected as follows: 2x4 - 2 rows staggered 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 15 = 16%, joint 13 = 16%
 - * 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 (10.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
 - Solid blocking is required on both sides of the truss at joint(s), 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job 20080073	Truss D4	Truss Type Attic Girder	Qty 1	Ply 3	ON SITE / MO-224 Job Reference (optional)
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- 15) Use USP THDH28-2 (With 36-16d nails into Girder & 4-16d nails into Truss) or equivalent at 20-1-0 from the left end to connect truss(es) GR1 (2 ply 2x6 SP) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-169, 4-5=-240, 5-6=-169, 6-7=-205, 7-8=-169, 8-9=-240, 9-12=-169, 15-21=-391 (F=-320), 13-15=-106, 13-17=-71, 5-16=-71, 8-16=-71

Concentrated Loads (lb)

Vert: 13=-2384 (F)

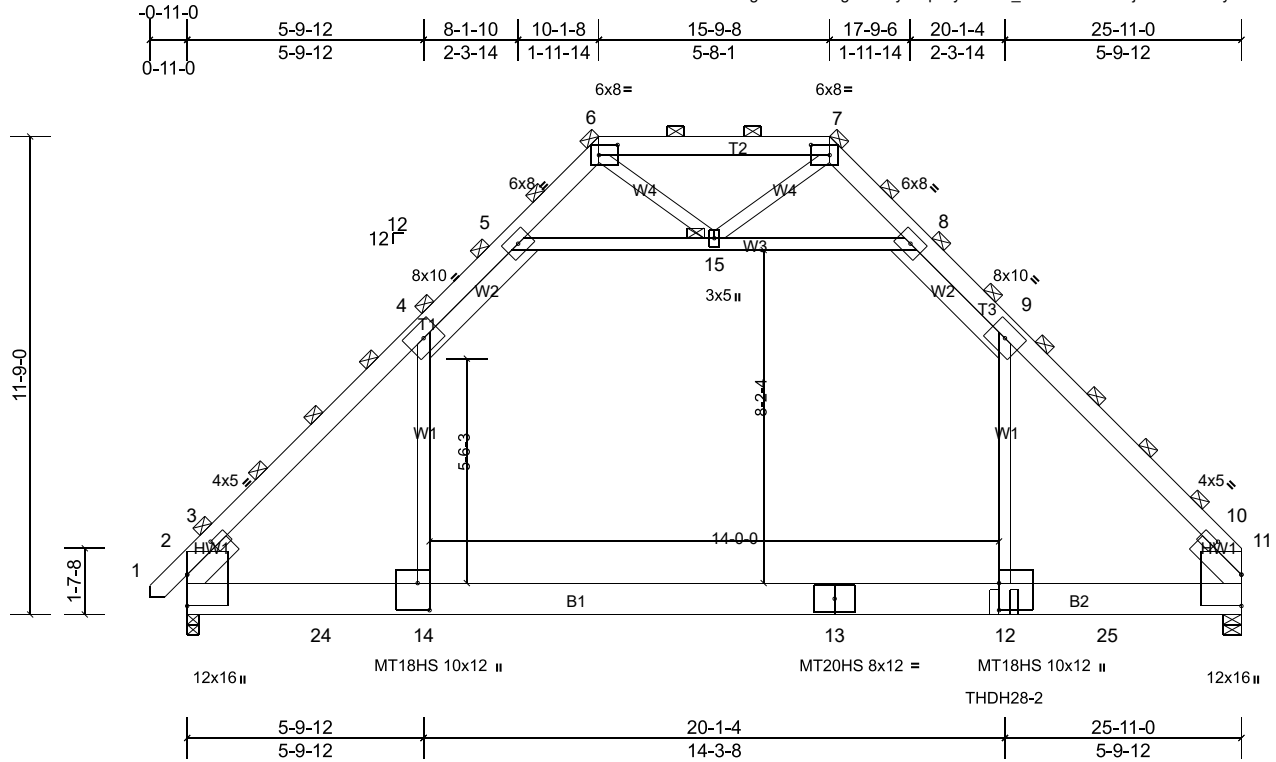
Job 20080073	Truss D5	Truss Type Attic Girder	Qty 1	Ply 3	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:56.6

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

Loading	(psf)	Spacing	7-1-2	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.36	12-14	>858	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.56	12-14	>556	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.04	2	n/a	n/a	MT18HS	244/190
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.23	12-14	>762	360		
BCDL	10.0											Weight: 764 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 7, 15

REACTIONS (lb/size) 2=6284/0-3-8, (min. 0-2-10), 11=6019/0-5-8, (min. 0-2-4)
Max Horiz 2=714 (LC 8)
Max Grav 2=9533 (LC 22), 11=8100 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5129/0, 3-4=-9679/0, 4-5=-5389/0, 5-6=-962/585, 6-7=-277/1040, 7-8=-987/593, 8-9=-5360/0, 9-10=-9744/0,
10-11=-4619/0
BOT CHORD 2-24=-49/6045, 14-24=0/6045, 13-14=0/6056, 12-13=0/6056, 12-25=0/6044, 11-25=0/6044
WEBS 5-15=-7169/294, 8-15=-7110/249, 4-14=0/5163, 9-12=0/5297, 7-15=-102/535, 6-15=-80/690

- NOTES**
- 3-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 0-8-0 oc.
Web connected as follows: 2x4 - 2 rows staggered 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 14 = 16%, joint 12 = 16%
 - * This truss has been designed for a live load of 20.0psf on the bottom truss 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 (10.0 psf) on member(s). 4-5, 8-9, 5-15, 8-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - Solid blocking is required on both sides of the truss at joint(s), 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job 20080073	Truss D5	Truss Type Attic Girder	Qty 1	Ply 3	ON SITE / MO-224 Job Reference (optional)
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- 15) Use USP THDH28-2 (With 36-16d nails into Girder & 4-16d nails into Truss) or equivalent at 20-1-0 from the left end to connect truss(es) GR1 (2 ply 2x6 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-169, 4-5=-240, 5-6=-169, 6-7=-205, 7-8=-169, 8-9=-240, 9-11=-169, 14-20=-391 (F=-320), 12-14=-106, 12-16=-71, 5-15=-71, 8-15=-71

Concentrated Loads (lb)

Vert: 12=-2368 (B)

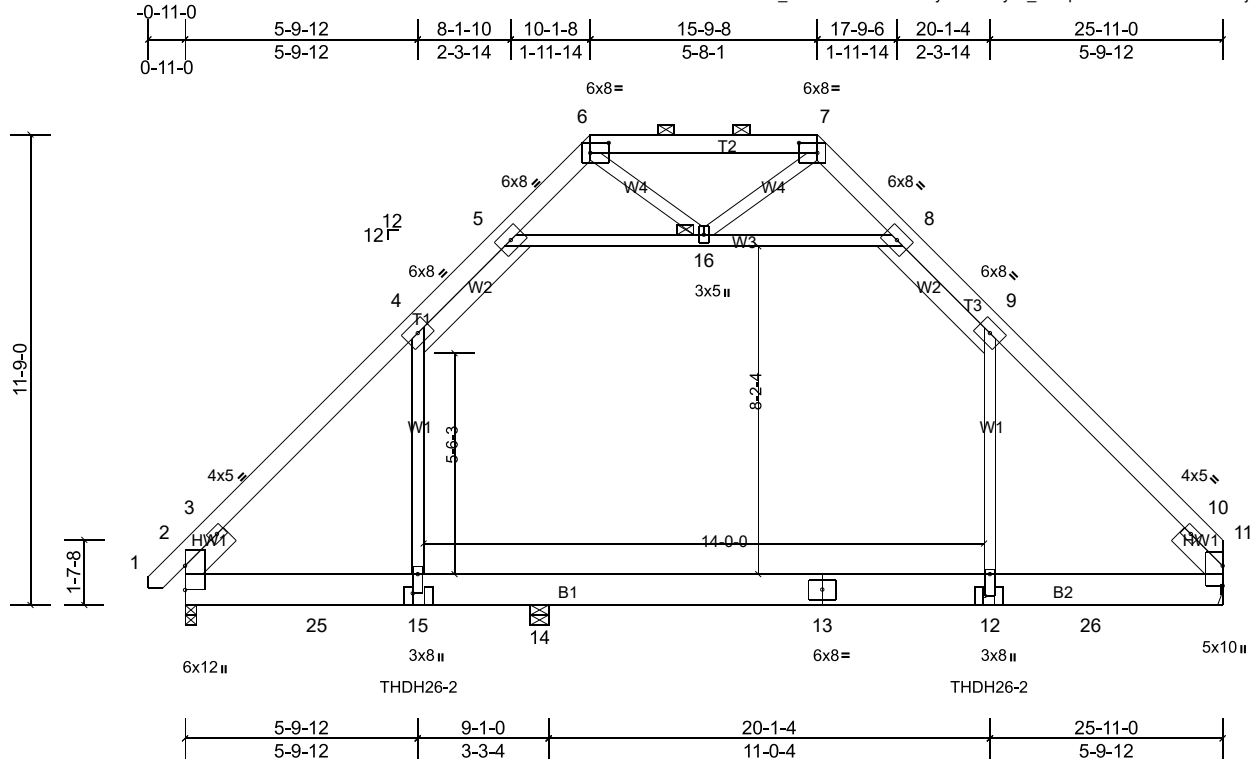
Job 20080073	Truss D6	Truss Type Attic Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:57.5

Plate Offsets (X, Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [12:0-6-8,0-1-8], [15:0-5-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.17	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.28	12-14	>736	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	-0.03	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.11	12-15	>999	360		
BCDL	10.0											
											Weight: 509 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x10 SP No.2 *Except* B1:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0
REACTIONS (lb/size) 2=1847/0-3-8, (min. 0-1-8), 11=2288/ Mechanical, (min. 0-1-8),
14=854/0-5-8, (min. 0-1-8)
Max Horiz 2=201 (LC 8)
Max Uplift 2=-52 (LC 10), 11=-74 (LC 10), 14=-22 (LC 6)
Max Grav 2=2075 (LC 23), 11=2764 (LC 23), 14=1455 (LC 22)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1447/90, 3-4=-2697/210, 4-5=-1602/93, 6-7=-132/265, 8-9=-1450/71, 9-10=-2746/61, 10-11=-1190/4
BOT CHORD 2-25=-64/1633, 15-25=0/1633, 14-15=0/1635, 13-14=0/1635, 12-13=0/1635, 12-26=0/1631, 11-26=0/1631
WEBS 5-16=-2195/305, 8-16=-1900/265, 4-15=-261/1300, 9-12=-72/1602, 6-16=-2/318

- 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 (10.0 psf) on member(s). 4-5, 8-9, 5-16, 8-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15, 12-14
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 11.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.

Job 20080073	Truss D6	Truss Type Attic Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use USP THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent spaced at 14-3-0 oc max. starting at 5-10-0 from the left end to 20-1-0 to connect truss(es) GR3 (2 ply 2x6 SP), GR2 (2 ply 2x6 SP) to front face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-48, 4-5=-68, 5-6=-48, 6-7=-58, 7-8=-48, 8-9=-68, 9-11=-48, 15-21=-20, 12-15=-30, 12-17=-20, 5-16=-20, 8-16=-20

Concentrated Loads (lb)

Vert: 15=-1169 (F), 12=-1544 (F)

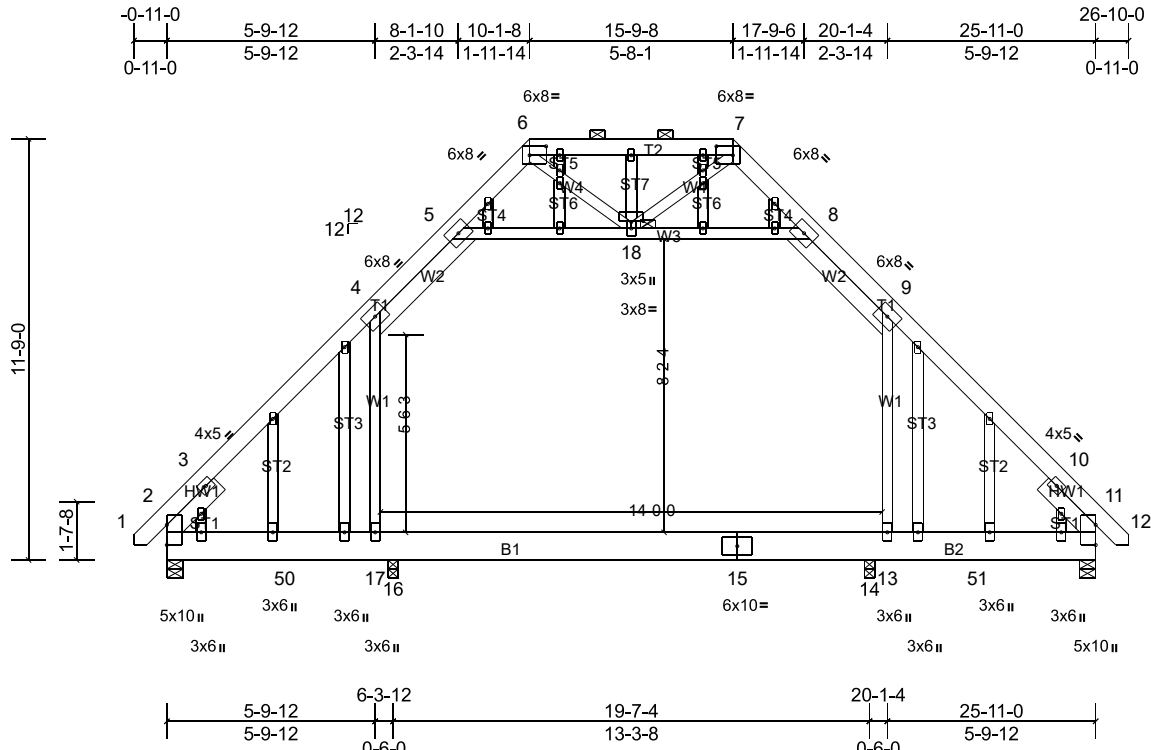
Job 20080073	Truss D7	Truss Type Attic Structural Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:64.3

Plate Offsets (X, Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [18:0-4-0,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.20	14-16	>804	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.27	14-16	>593	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	14-16	>798	360		
BCDL	10.0											
										Weight: 298 lb	FT = 20%	

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3, W2:2x6 SP No.2
 OTHERS 2x4 SP No.3 *Except* ST3:2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 2-0-0, Right 2x6 SP No.2 -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 18

REACTIONS

All bearings 0-5-8, except 16=0-3-8, 14=0-3-8
 (lb) - Max Horiz 2=-206 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11
 Max Grav All reactions 250 (lb) or less at joint(s) except 2=531 (LC 2), 11=531 (LC 2), 14=2331 (LC 31), 16=2329 (LC 30)

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=-303/232, 3-4=-584/48, 4-5=-649/87, 5-6=-531/35, 6-7=-455/8, 7-8=-531/35, 8-9=-649/87, 9-10=-584/40
 BOT CHORD 2-50=-83/346, 17-50=-2/346, 16-17=-1/345, 15-16=-1/345, 14-15=-1/345, 13-14=-1/345, 13-51=-1/346, 11-51=-1/346
 WEBS 4-17=-513/154, 9-13=-508/154

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-1-7, Interior (1) 20-1-7 to 26-7-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- * 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 (10.0 psf) on member(s) 4-5, 8-9, 5-18, 8-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 14-16, 13-14
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job 20080073	Truss D7	Truss Type Attic Structural Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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15) Attic room checked for L/360 deflection.

16) 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=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-48, 4-5=-68, 5-6=-48, 6-7=-58, 7-8=-48, 8-9=-68, 9-12=-48, 17-46=-20, 16-17=-30, 14-16=-80 (F=-50), 13-14=-30, 13-42=-20, 5-18=-20, 8-18=-20

Job 20080073	Truss E1	Truss Type Piggyback Base	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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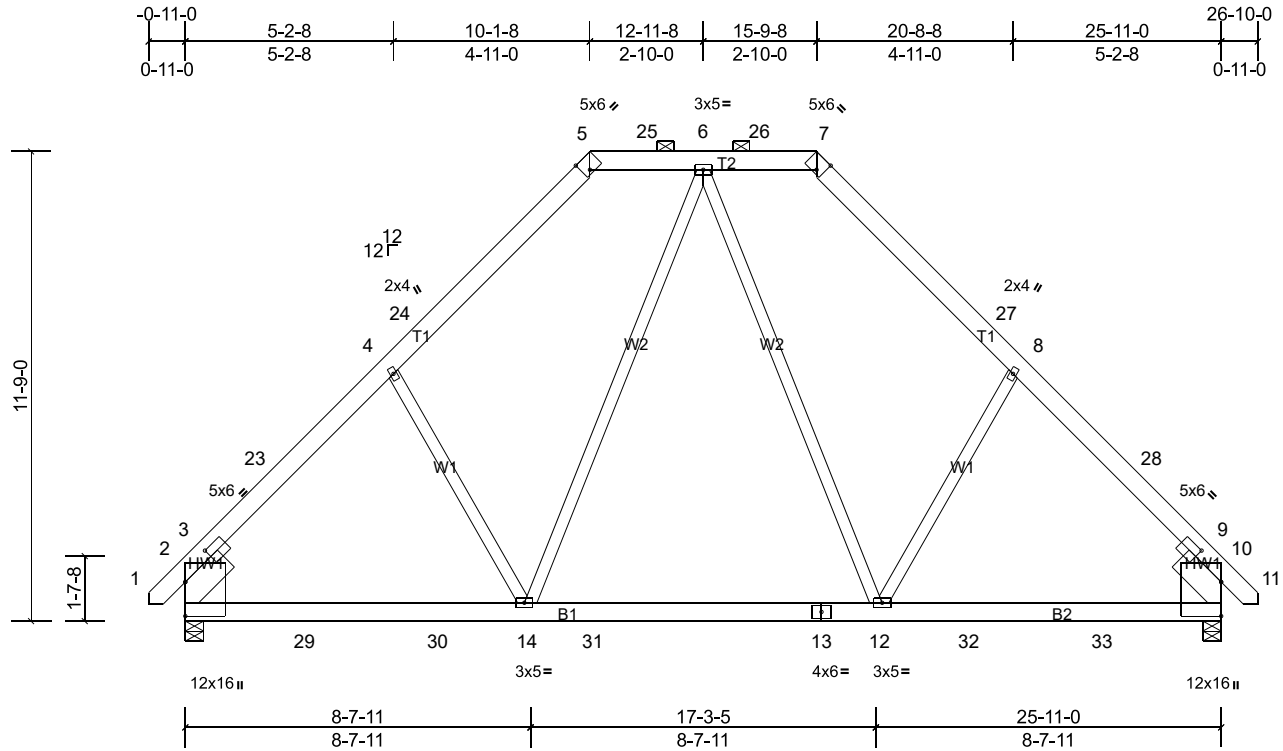


Plate Offsets (X, Y): [2:0-10-13,0-2-8], [5:0-2-2,Edge], [7:0-2-2,Edge], [10:0-10-13,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	0.95	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.15 12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.26 12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02 10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 212 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8 SP 2400F 2.0E -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (2-2-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=941/0-5-8, (min. 0-1-8), 10=941/0-5-8, (min. 0-1-8)
Max Horiz 2=-206 (LC 11)
Max Grav 2=1231 (LC 3), 10=1232 (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=-392/0, 3-23=-1226/117, 4-23=-1080/141, 4-24=-1057/185, 5-24=-910/224, 5-25=-755/224, 6-25=-755/224, 6-26=-755/224, 7-26=-755/224, 7-27=-910/224, 8-27=-1058/185, 8-28=-1081/141, 9-28=-1227/117, 9-10=-331/0
BOT CHORD 2-29=-137/873, 29-30=-66/873, 14-30=-66/873, 14-31=0/638, 13-31=0/638, 12-13=0/638, 12-32=0/758, 32-33=0/758, 10-33=0/758
WEBS 6-14=-60/494, 6-12=-60/496

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-0-7, Interior (1) 20-0-7 to 26-7-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

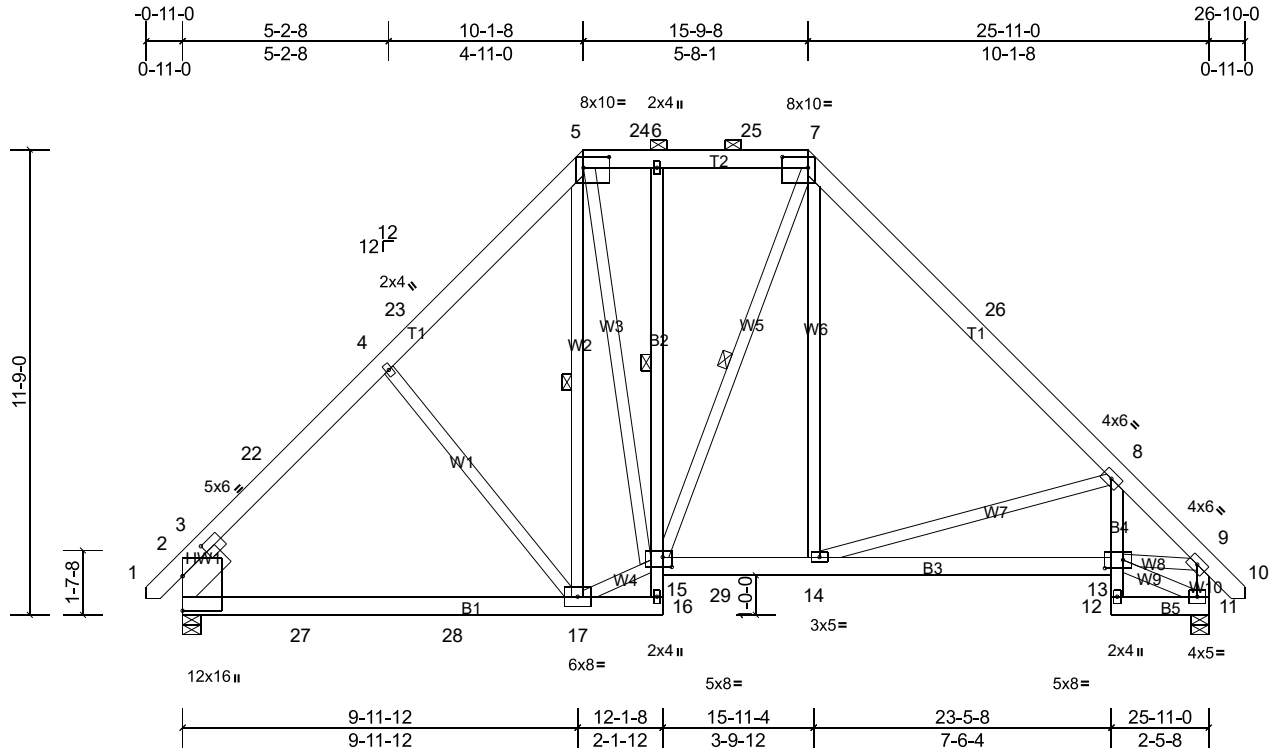
Job 20080073	Truss E2	Truss Type Piggyback Base	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:58.2

Plate Offsets (X, Y): [2:0-10-5,0-2-8], [5:0-7-12,0-3-4], [7:0-7-12,0-3-4], [13:0-5-8,0-2-8], [15:0-2-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	0.36	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.07 17-20	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12 17-20	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04 11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 266 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2, B4:2x4 SP No.3
WEBS 2x4 SP No.2 *Except* W4,W10,W9,W8:2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0
REACTIONS (lb/size) 2=936/0-5-8, (min. 0-1-8), 11=944/0-5-8, (min. 0-1-8)
Max Horiz 2=207 (LC 11)
Max Grav 2=1194 (LC 3), 11=1171 (LC 3)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 1 Row at midpt 6-15
1 Row at midpt 5-17, 7-15
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=-635/0, 3-22=-1164/117, 4-22=-1101/153, 4-23=-1019/175, 5-23=-935/214, 5-24=-708/200, 6-24=-708/200, 6-25=-709/199, 7-25=-709/199, 7-26=-1013/173, 8-26=-1161/136, 8-9=-1432/123, 9-11=-1126/95
BOT CHORD 2-27=-142/862, 27-28=-63/862, 17-28=-63/862, 15-29=0/743, 14-29=0/743, 13-14=-99/1087
WEBS 15-17=0/785, 5-15=-18/366, 7-14=0/423, 8-14=-489/220, 9-13=-105/1043

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-0-7, Interior (1) 20-0-7 to 26-7-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 20080073	Truss E3	Truss Type Piggyback Base	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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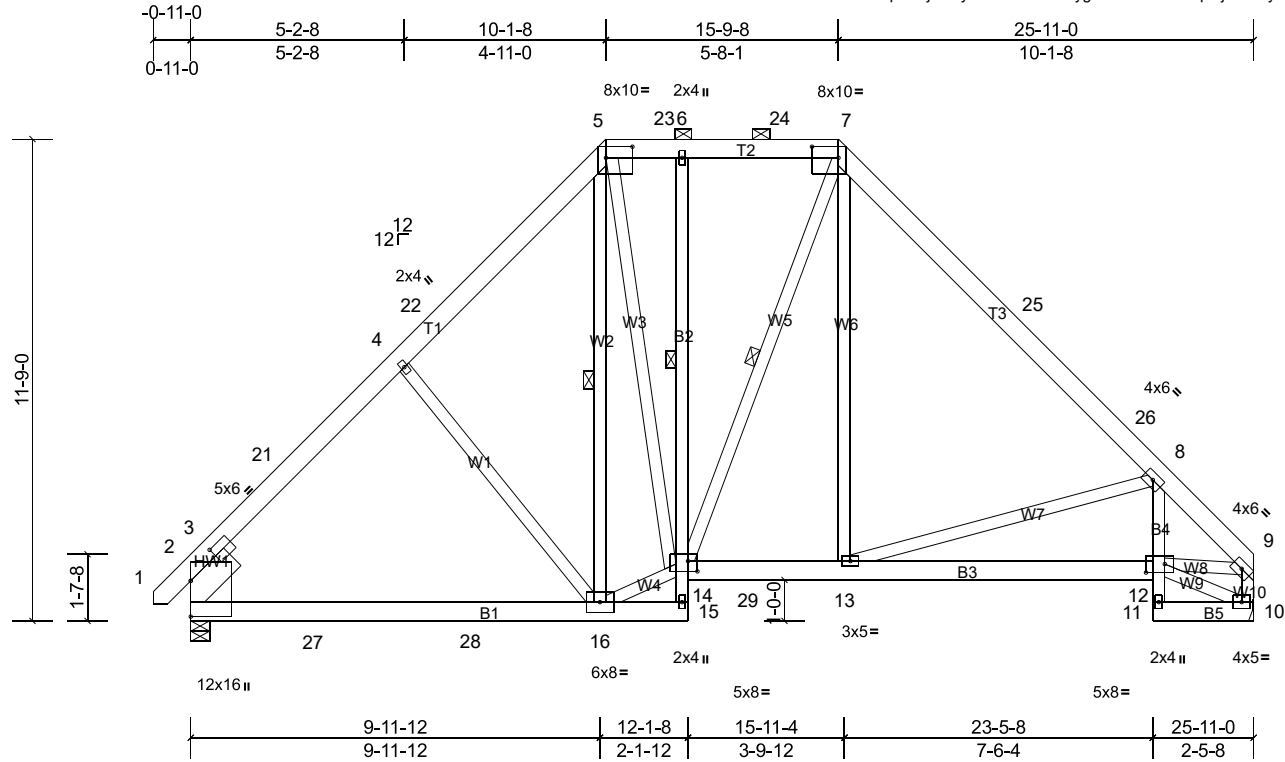


Plate Offsets (X, Y): [2:0-10-5,0-2-8], [5:0-7-12,0-3-4], [7:0-7-12,0-3-4], [12:0-5-8,0-2-8], [14:0-2-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.07	16-19	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12	16-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 264 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2, B4:2x4 SP No.3
WEBS 2x4 SP No.2 *Except* W10,W4,W9,W8:2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0

REACTIONS (lb/size) 2=937/0-5-8, (min. 0-1-8), 10=901/ Mechanical, (min. 0-1-8)
Max Horiz 2=201 (LC 10)
Max Grav 2=1194 (LC 3), 10=1126 (LC 3)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 1 Row at midpt 6-14
1 Row at midpt 5-16, 7-14

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=-635/0, 3-21=-1165/117, 4-21=-1102/153, 4-22=-1020/175, 5-22=-936/214, 5-23=-709/203, 6-23=-709/203, 6-24=-710/203, 7-24=-710/203, 7-25=-1014/178, 25-26=-1035/142, 8-26=-1162/118, 8-9=-1447/135, 9-10=-1084/70
BOT CHORD 2-27=-152/854, 27-28=-73/854, 16-28=-73/854, 14-29=0/735, 13-29=0/735, 12-13=-121/1100
WEBS 14-16=0/777, 5-14=-22/367, 7-13=0/426, 8-13=-497/223, 9-12=-120/1049

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-0-7, Interior (1) 20-0-7 to 25-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

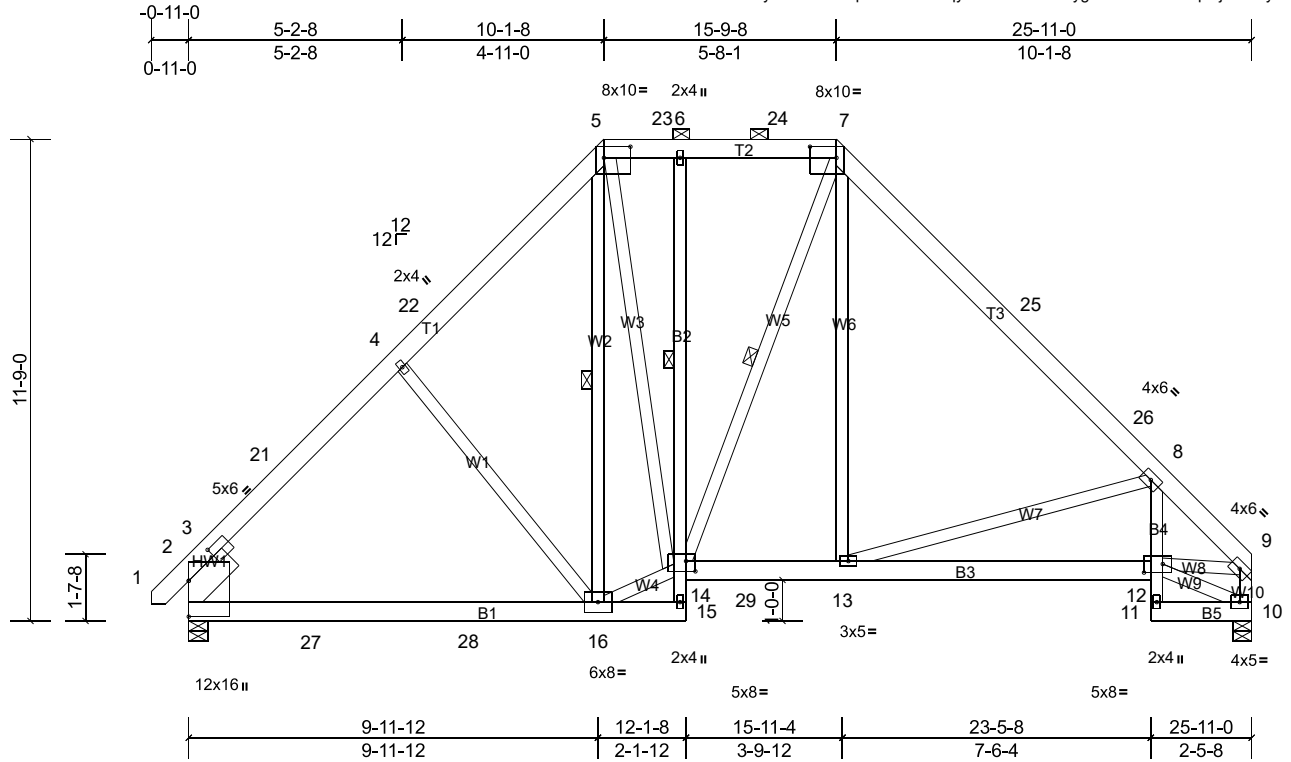
Job 20080073	Truss E3A	Truss Type Piggyback Base	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:56.2

Plate Offsets (X, Y): [2:0-10-5,0-2-8], [5:0-7-12,0-3-4], [7:0-7-12,0-3-4], [12:0-5-8,0-2-8], [14:0-2-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.07	16-19	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12	16-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 264 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2, B4:2x4 SP No.3
WEBS 2x4 SP No.2 *Except* W10,W4,W9,W8:2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0

REACTIONS (lb/size) 2=937/0-5-8, (min. 0-1-8), 10=901/0-5-8, (min. 0-1-8)
Max Horiz 2=201 (LC 10)
Max Grav 2=1194 (LC 3), 10=1126 (LC 3)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 1 Row at midpt 6-14
1 Row at midpt 5-16, 7-14

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=-635/0, 3-21=-1165/117, 4-21=-1102/153, 4-22=-1020/175, 5-22=-936/214, 5-23=-709/203, 6-23=-709/203, 6-24=-710/203, 7-24=-710/203, 7-25=-1014/178, 25-26=-1035/142, 8-26=-1162/118, 8-9=-1447/135, 9-10=-1084/70
BOT CHORD 2-27=-152/854, 27-28=-73/854, 16-28=-73/854, 14-29=0/735, 13-29=0/735, 12-13=-121/1100
WEBS 14-16=0/777, 5-14=-22/367, 7-13=0/426, 8-13=-497/223, 9-12=-120/1049

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-0-7, Interior (1) 20-0-7 to 25-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

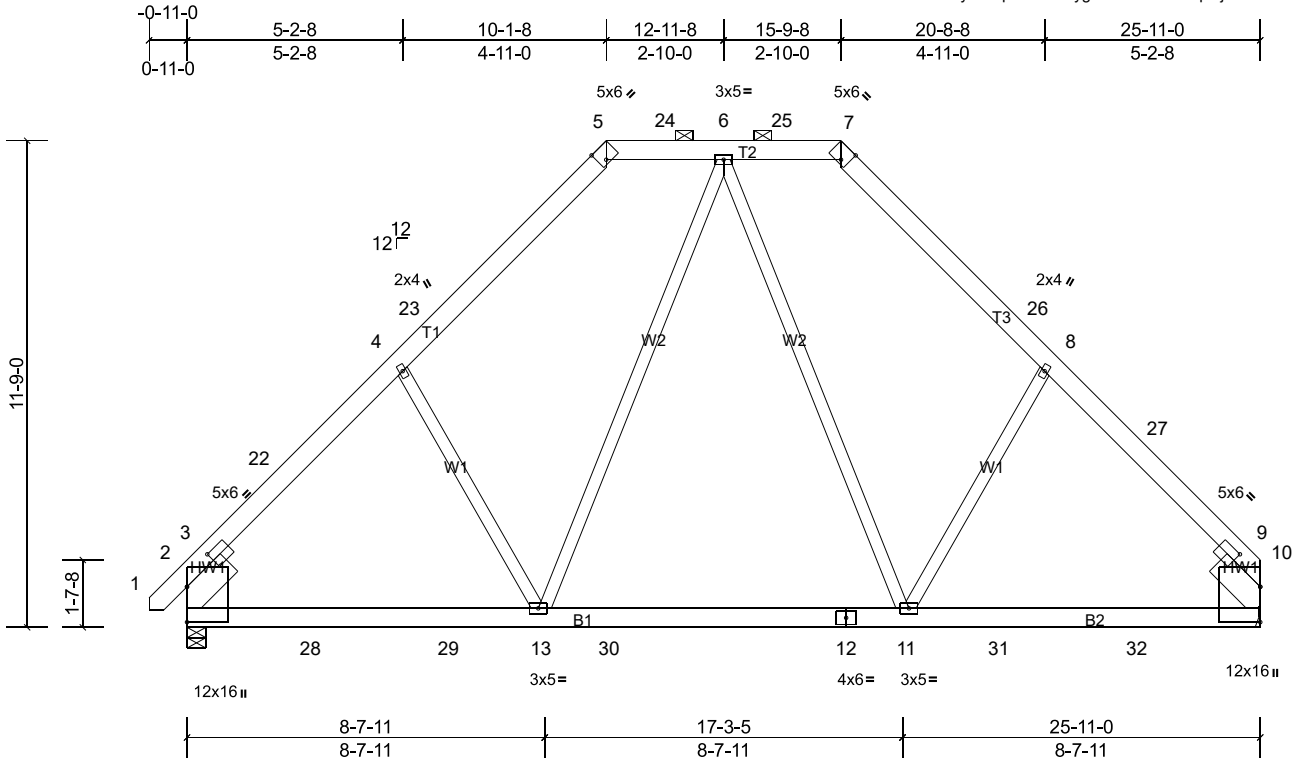
Job 20080073	Truss E4	Truss Type Piggyback Base	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:55.6

Plate Offsets (X, Y): [2:0-10-13,0-2-8], [5:0-2-2,Edge], [7:0-2-2,Edge], [10:0-10-13,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.15	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.26	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 209 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8 SP 2400F 2.0E -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (2-2-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=942/0-5-8, (min. 0-1-8), 10=905/ Mechanical, (min. 0-1-8)
Max Horiz 2=201 (LC 12)
Max Grav 2=1232 (LC 3), 10=1194 (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=-392/0, 3-22=-1227/116, 4-22=-1081/140, 4-23=-1058/184, 5-23=-911/223, 5-24=-755/224, 6-24=-755/224, 6-25=-757/223, 7-25=-757/223, 7-26=-912/223, 8-26=-1060/184, 8-27=-1082/140, 9-27=-1229/119, 9-10=-323/0
BOT CHORD 2-28=-145/867, 28-29=-74/867, 13-29=-74/867, 13-30=-5/632, 12-30=-5/632, 11-12=-5/632, 11-31=-10/757, 31-32=-10/757, 10-32=-10/757
WEBS 6-13=-61/494, 6-11=-59/498

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 10-1-8, Exterior(2R) 10-1-8 to 14-4-6, Interior (1) 14-4-6 to 15-9-8, Exterior(2R) 15-9-8 to 20-0-7, Interior (1) 20-0-7 to 25-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

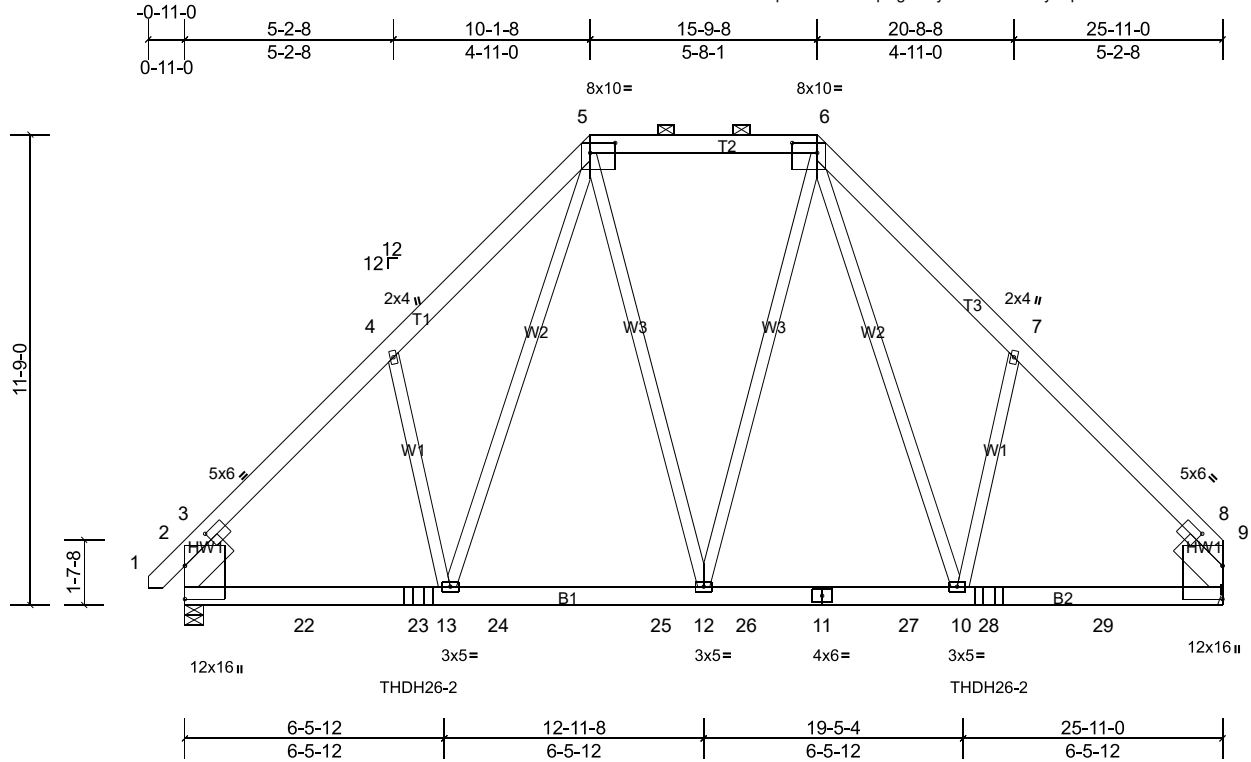
Job 20080073	Truss E5	Truss Type Piggyback Base Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:57.5

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

Loading	(psf)	Spacing	2-0-0	CSI	0.52	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.05 10-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.09 10-16	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.05 9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 478 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-0, Right 2x8 SP 2400F 2.0E -- 1-6-0

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

REACTIONS (lb/size) 2=2347/0-5-8, (min. 0-1-8), 9=2403/ Mechanical, (min. 0-1-8)
Max Horiz 2=201 (LC 8)
Max Uplift 2=-112 (LC 9), 9=-149 (LC 10)
Max Grav 2=2559 (LC 21), 9=2649 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1093/25, 3-4=-2742/169, 4-5=-2604/309, 5-6=-1411/167, 6-7=-2739/351, 7-8=-2881/213, 8-9=-986/35
BOT CHORD 2-22=-197/1900, 22-23=-182/1900, 13-23=-182/1900, 13-24=-103/1436, 24-25=-103/1436, 12-25=-103/1436,
12-26=-68/1432, 11-26=-68/1432, 11-27=-68/1432, 10-27=-68/1432, 10-28=-90/1883, 28-29=-90/1883, 9-29=-90/1883
WEBS 4-13=-96/275, 5-13=-248/1468, 5-12=-61/263, 6-10=-317/1688, 7-10=-91/281

- 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: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - * 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 149 lb uplift at joint 9.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	ON SITE / MO-224
20080073	E5	Piggyback Base Girder	1	2	Job Reference (optional)

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- 14) Use USP THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent spaced at 14-3-0 oc max. starting at 5-10-0 from the left end to 20-1-0 to connect truss(es) GR3 (2 ply 2x6 SP), GR2 (2 ply 2x6 SP) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-5=-48, 5-6=-58, 6-9=-48, 14-18=-20
 - Concentrated Loads (lb)
 - Vert: 23=-1368 (B), 28=-1535 (B)

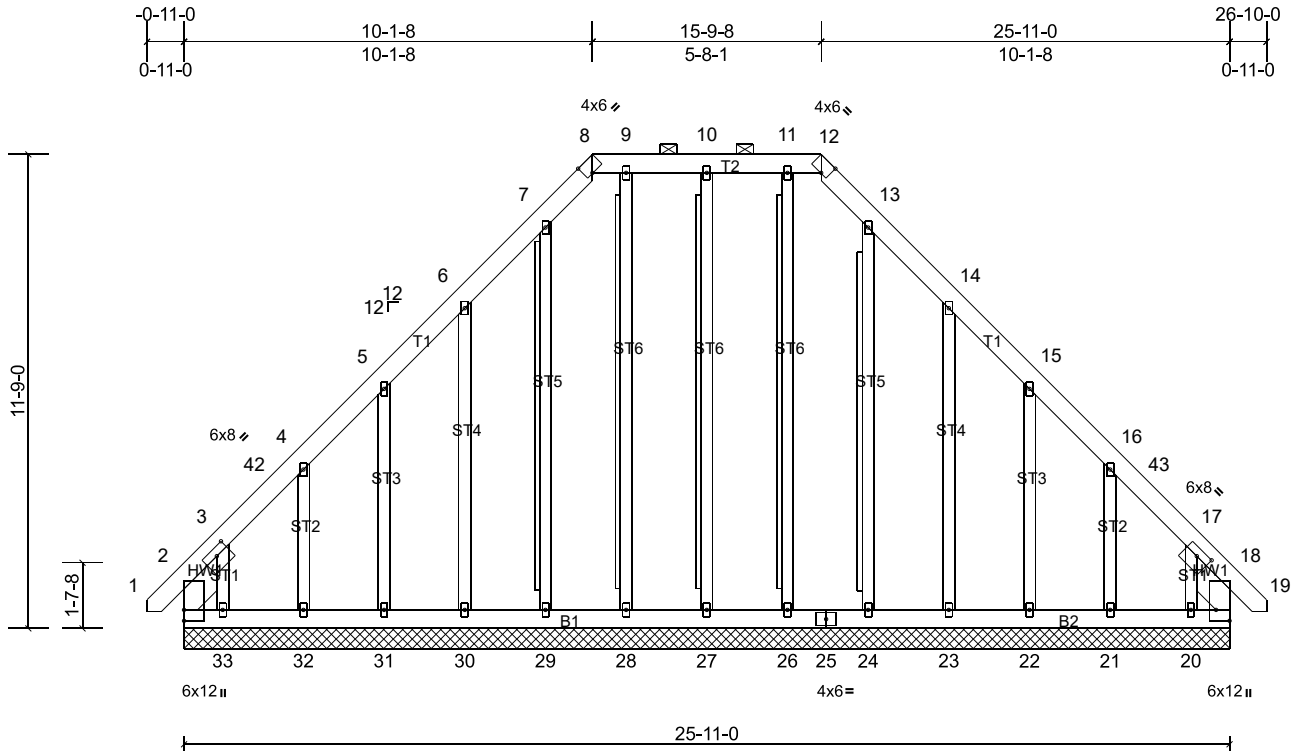
Job 20080073	Truss E6	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:57.1

Plate Offsets (X, Y): [3:0-4-0,0-2-4], [8:0-2-2,Edge], [12:0-2-2,Edge], [17:0-4-0,0-2-4], [18:Edge,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 289 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.2 *Except* ST2,ST1:2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -- 1-6-3, Right 2x8 SP 2400F 2.0E -- 1-6-3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except
2'-0" oc purlins (6'-0" max.): 8-12.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 10-27, 9-28, 7-29, 11-26, 13-24
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS All bearings 25-11-0.
(lb) - Max Horiz 2=206 (LC 12), 34=206 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 21, 22, 23, 27, 29, 30, 31, 32 except 2=-207 (LC 11), 18=-135 (LC 12), 20=-203 (LC 14), 33=-222 (LC 13), 34=-207 (LC 11), 38=-135 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33 except 2=320 (LC 13), 18=284 (LC 14), 34=320 (LC 13), 38=284 (LC 14)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-14 to 2-3-2, Exterior(2N) 2-3-2 to 10-1-8, Corner(3R) 10-1-8 to 12-11-8, Exterior(2N) 12-11-8 to 15-9-8, Corner(3R) 15-9-8 to 18-11-11, Exterior(2N) 18-11-11 to 26-7-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0" oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 27, 29, 30, 31, 32, 33, 23, 22, 21, 20, and 18. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

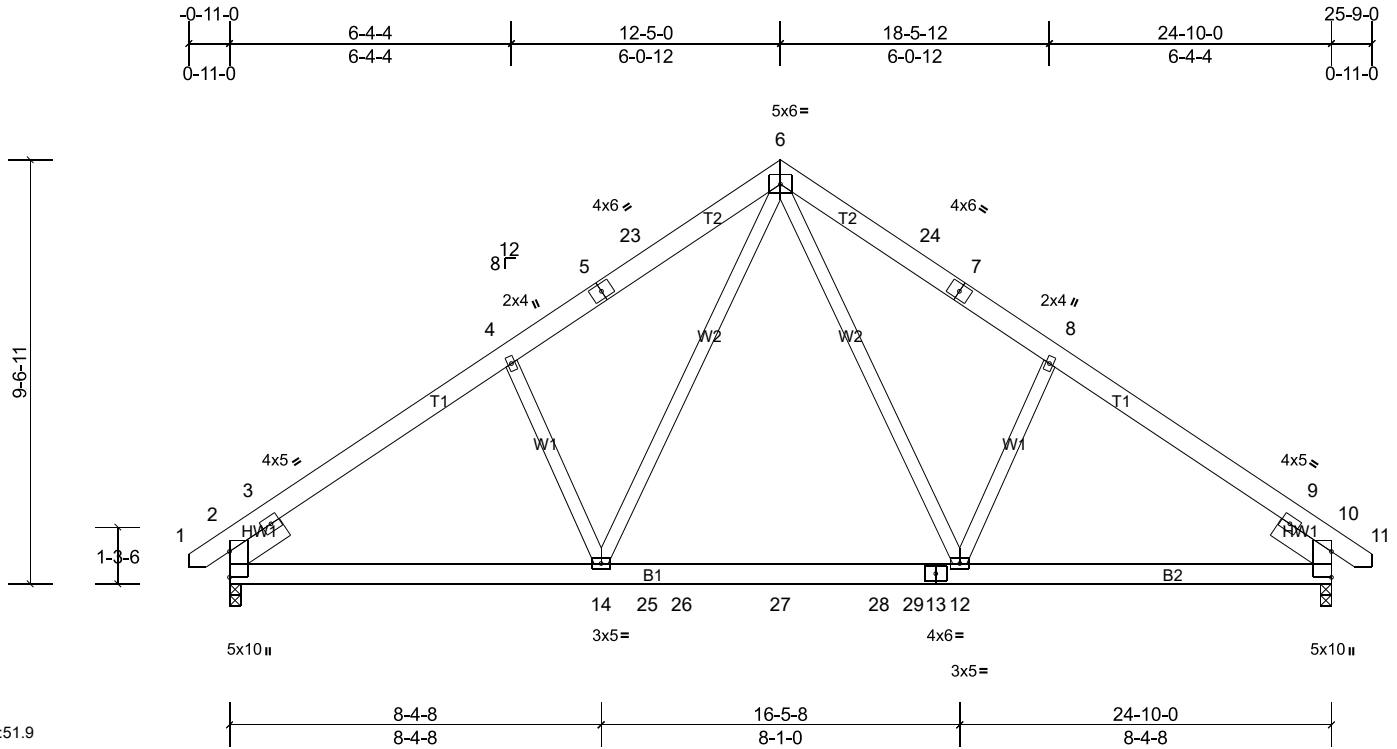
Job 20080073	Truss F1	Truss Type Common	Qty 2	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:51.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.09	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.14	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 184 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-8-3 oc purlins.
 Rigid ceiling directly applied or 9-6-13 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=875/0-3-0, (min. 0-1-8), 10=875/0-3-0, (min. 0-1-8)
 Max Horiz 2=-165 (LC 11)
 Max Uplift 2=-52 (LC 10), 10=-52 (LC 9)
 Max Grav 2=1125 (LC 3), 10=1125 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-537/420, 3-4=-1360/811, 4-5=-1245/849, 5-23=-1166/855, 6-23=-1158/876, 6-24=-1158/876, 7-24=-1166/855, 7-8=-1245/849, 8-9=-1360/811, 9-10=-388/344
 BOT CHORD 2-14=-574/1048, 14-25=-330/755, 25-26=-330/755, 26-27=-330/755, 27-28=-330/755, 28-29=-330/755, 13-29=-330/755, 12-13=-330/755, 10-12=-573/1048
 WEBS 6-12=-461/551, 8-12=-285/146, 6-14=-461/551, 4-14=-285/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-11 to 2-3-5, Interior (1) 2-3-5 to 12-5-0, Exterior(2R) 12-5-0 to 15-5-0, Interior (1) 15-5-0 to 25-6-11 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 at joint(s) 2, 10.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

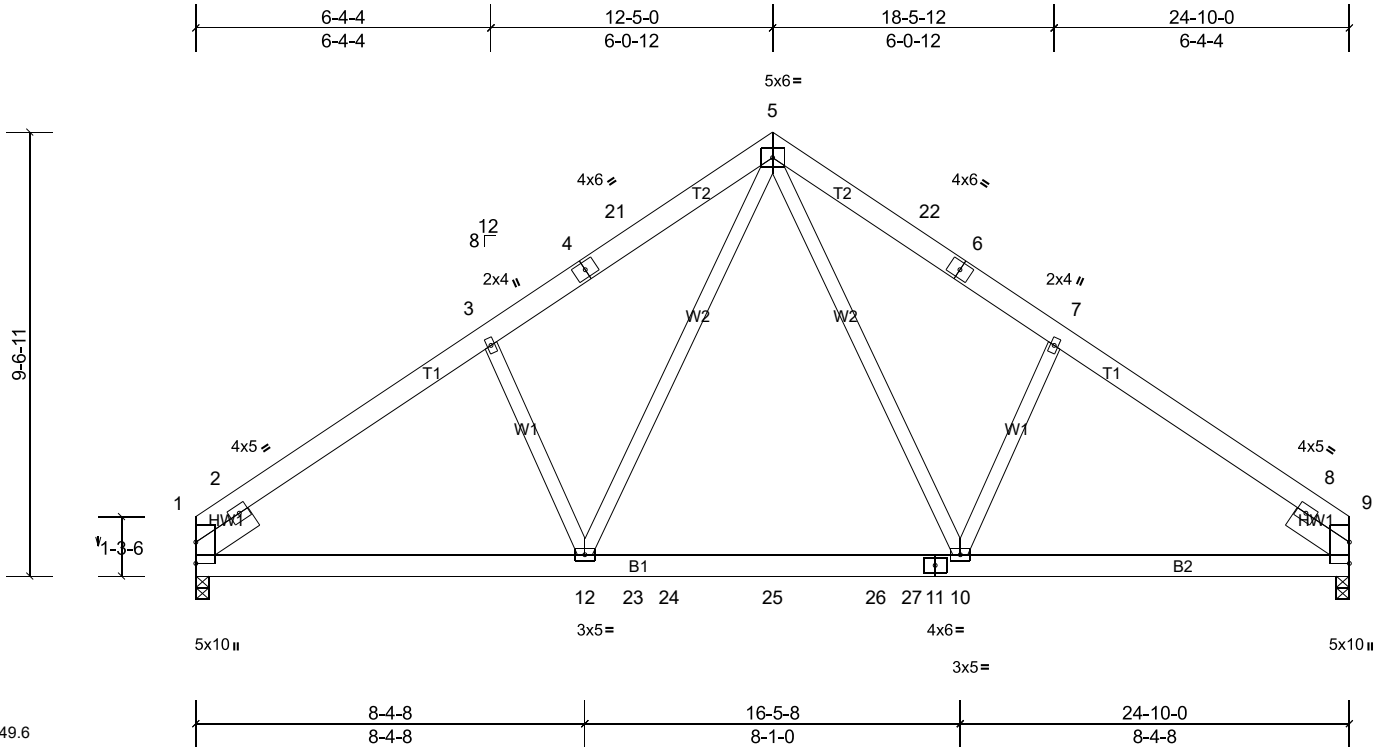
Job 20080073	Truss F2	Truss Type Common	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:49.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.09	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.14	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 179 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-8-5 oc purlins.
 Rigid ceiling directly applied or 9-4-12 oc bracing.

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

REACTIONS (lb/size) 1=841/0-3-7, (min. 0-1-8), 9=841/0-3-7, (min. 0-1-8)
 Max Horiz 1=155 (LC 10)
 Max Uplift 1=-52 (LC 10), 9=-52 (LC 9)
 Max Grav 1=1089 (LC 3), 9=1089 (LC 3)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-556/411, 2-3=-1363/810, 3-4=-1249/848, 4-21=-1169/854, 5-21=-1161/875, 5-22=-1161/875, 6-22=-1169/854, 6-7=-1249/848, 7-8=-1363/810, 8-9=-405/339
 BOT CHORD 1-12=-596/1051, 12-23=-352/757, 23-24=-352/757, 24-25=-352/757, 25-26=-352/757, 26-27=-352/757, 11-27=-352/757, 10-11=-352/757, 9-10=-586/1051
 WEBS 7-10=-287/146, 3-12=-287/146, 5-12=-461/554, 5-10=-461/554

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-5-0, Exterior(2R) 12-5-0 to 15-5-0, Interior (1) 15-5-0 to 24-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 1. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

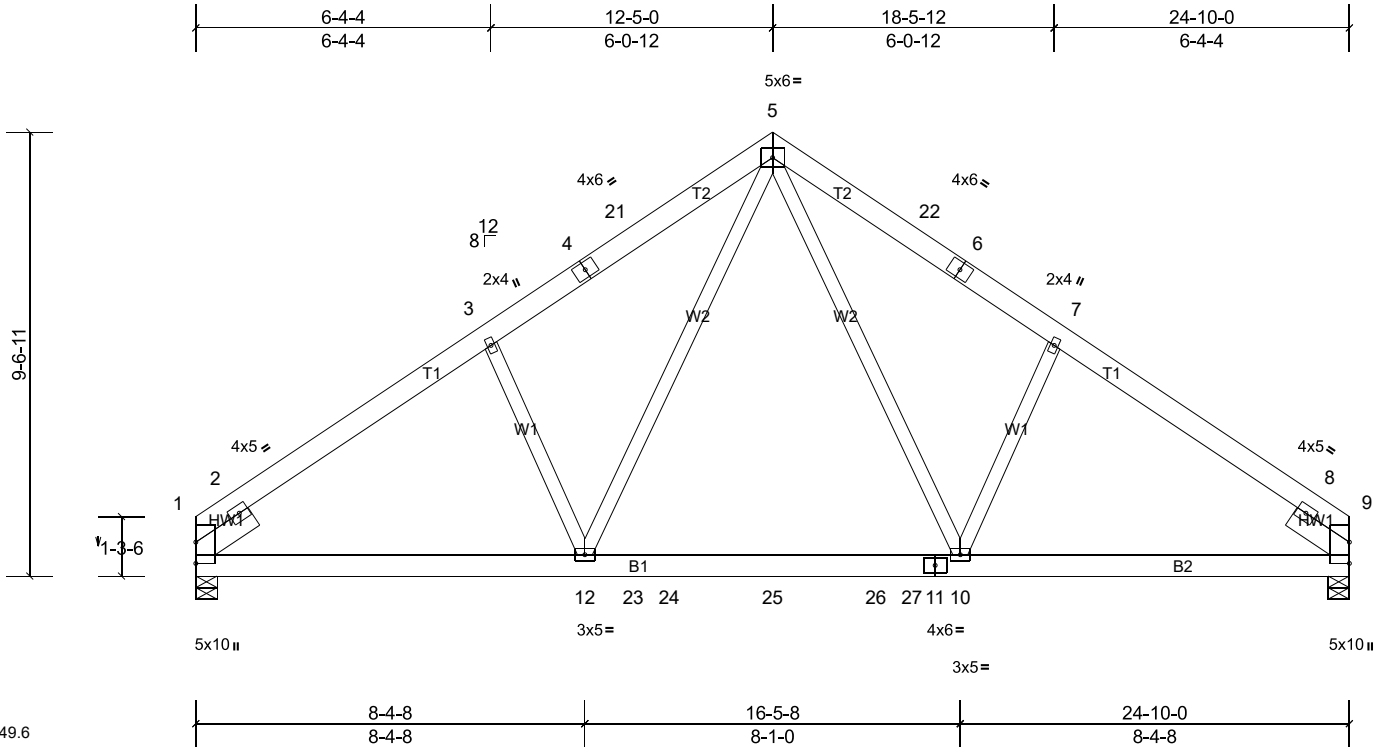
Job 20080073	Truss F3	Truss Type Common	Qty 4	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:49.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.09	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.14	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 179 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-8-5 oc purlins.
 Rigid ceiling directly applied or 9-4-12 oc bracing.

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

REACTIONS (lb/size) 1=841/0-5-8, (min. 0-1-8), 9=841/0-5-8, (min. 0-1-8)
 Max Horiz 1=155 (LC 10)
 Max Uplift 1=-52 (LC 10), 9=-52 (LC 9)
 Max Grav 1=1089 (LC 3), 9=1089 (LC 3)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-556/411, 2-3=-1363/810, 3-4=-1249/848, 4-21=-1169/854, 5-21=-1161/875, 5-22=-1161/875, 6-22=-1169/854, 6-7=-1249/848, 7-8=-1363/810, 8-9=-405/339
 BOT CHORD 1-12=-596/1051, 12-23=-352/757, 23-24=-352/757, 24-25=-352/757, 25-26=-352/757, 26-27=-352/757, 11-27=-352/757, 10-11=-352/757, 9-10=-586/1051
 WEBS 7-10=-287/146, 3-12=-287/146, 5-12=-461/554, 5-10=-461/554

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-5-0, Exterior(2R) 12-5-0 to 15-5-0, Interior (1) 15-5-0 to 24-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 1. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

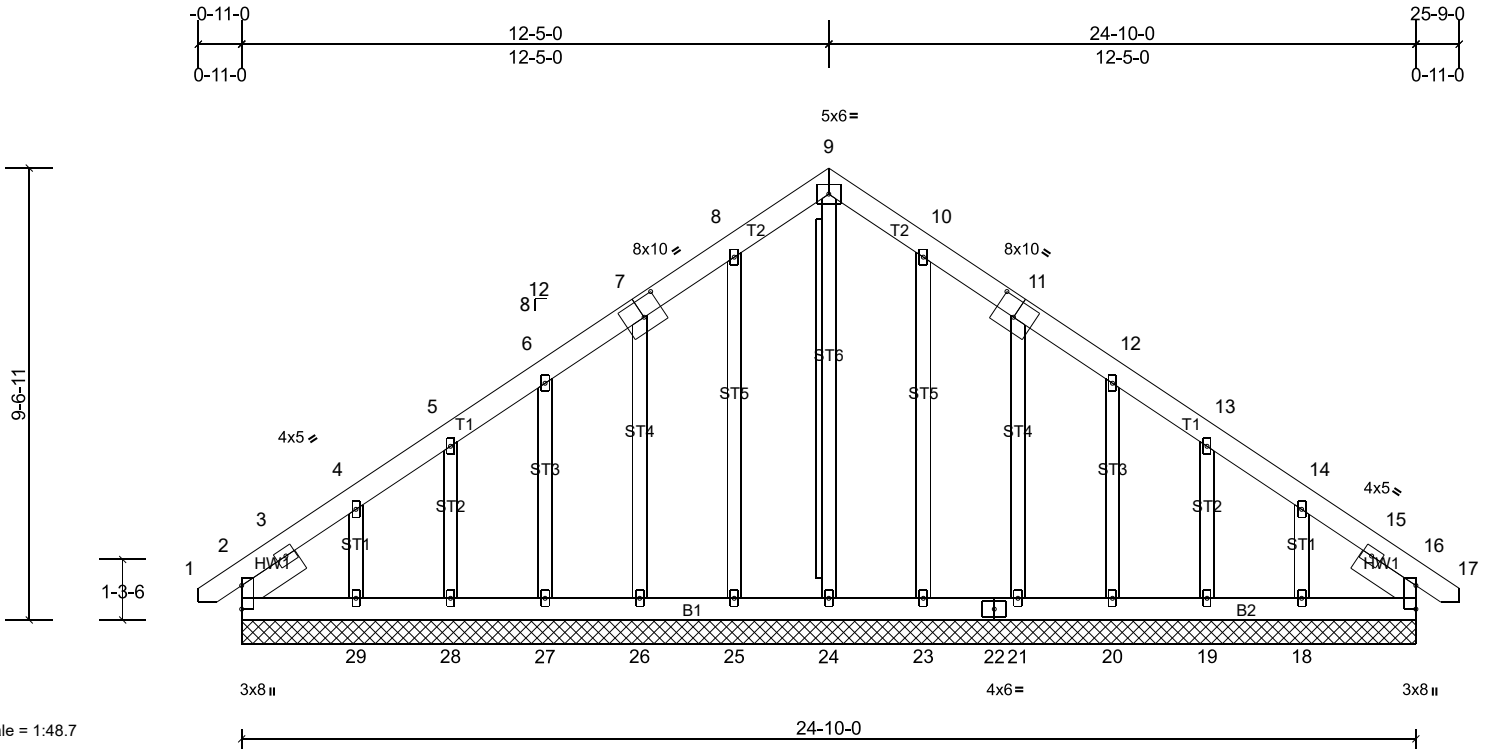
Job 20080073	Truss F4	Truss Type Common Supported Gable	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:48.7

Plate Offsets (X, Y): [7:0-5-0,0-4-8], [11:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 222 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3 *Except* ST6,ST5,ST4:2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 9-24
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS All bearings 24-10-0.
(lb) - Max Horiz 2=-165 (LC 11), 34=-165 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 16, 18, 19, 20, 21, 23, 25, 26, 27, 28, 29, 30, 34
Max Grav All reactions 250 (lb) or less at joint(s) 2, 16, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 34

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-11 to 2-5-0, Exterior(2N) 2-5-0 to 12-5-0, Corner(3R) 12-5-0 to 15-5-0, Exterior(2N) 15-5-0 to 25-6-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 2, 25, 26, 27, 28, 29, 23, 21, 20, 19, and 18. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

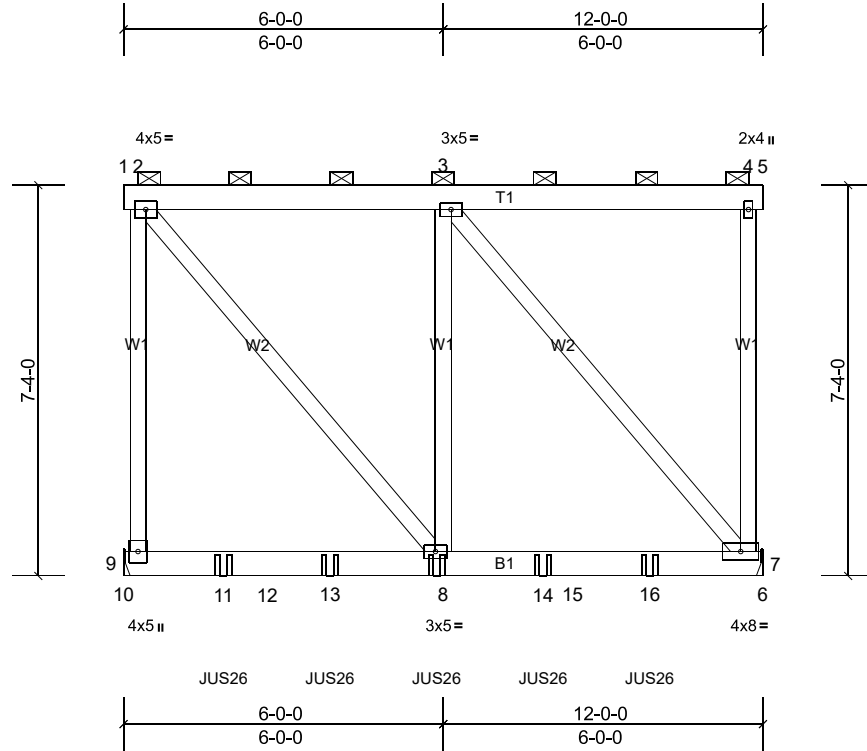
Job 20080073	Truss GR1	Truss Type Flat Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:43.2

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.04	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 219 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=2380/ Mechanical, (min. 0-1-8), 9=2395/ Mechanical, (min. 0-1-8)

Max Uplift 7=-337 (LC 8), 9=-347 (LC 7)
 Max Grav 7=2486 (LC 2), 9=2503 (LC 2)

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

TOP CHORD 2-9=-2272/276, 2-3=-1257/195, 4-7=-802/46
 BOT CHORD 8-14=-195/1257, 14-15=-195/1257, 15-16=-195/1257, 7-16=-195/1257
 WEBS 3-8=-740/420, 2-8=-298/1926, 3-7=-1928/299

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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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 347 lb uplift at joint 9 and 337 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use USP JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-8 from the left end to 9-10-8 to connect truss(es) J05 (1 ply 2x6 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Job 20080073	Truss GR1	Truss Type Flat Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Vert: 1-2=-306, 2-4=-306, 4-5=-306, 6-10=-19

Concentrated Loads (lb)

Vert: 8=-174 (B), 11=-174 (B), 13=-174 (B), 14=-174 (B), 16=-174 (B)

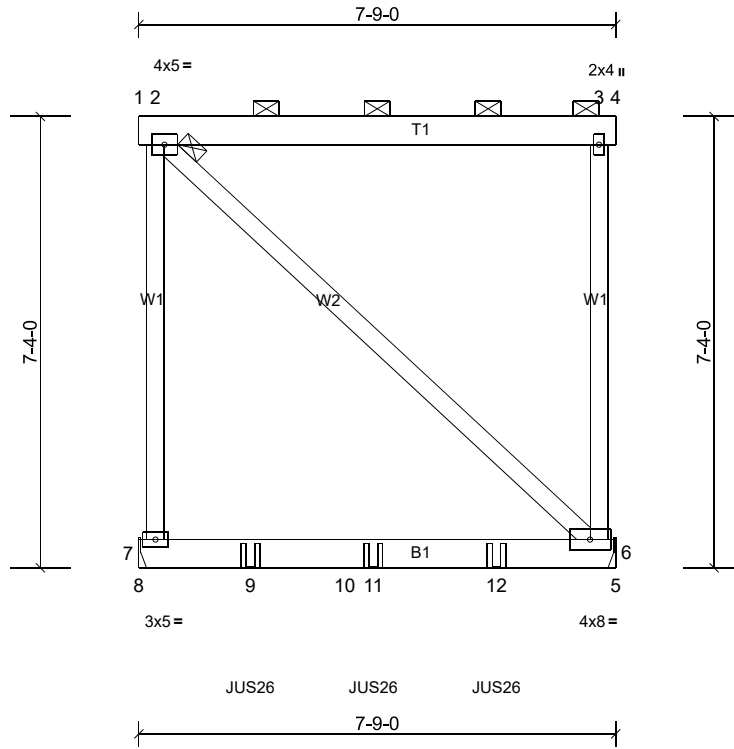
Job 20080073	Truss GR2	Truss Type Flat Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:37.4

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.09	6-7	>929	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.13	6-7	>662	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=1517/ Mechanical, (min. 0-1-8), 7=1526/ Mechanical, (min. 0-1-8)

Max Uplift 6=-203 (LC 8), 7=-210 (LC 7)
 Max Grav 6=1579 (LC 2), 7=1590 (LC 2)

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

TOP CHORD 3-6=-1222/69, 2-7=-1222/69

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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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 210 lb uplift at joint 7 and 203 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use USP JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 5-9-12 to connect truss(es) J05A (1 ply 2x6 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-306, 2-3=-306, 3-4=-306, 5-8=-19
 Concentrated Loads (lb)

Job 20080073	Truss GR2	Truss Type Flat Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Vert: 9=-174 (B), 11=-174 (B), 12=-174 (B)

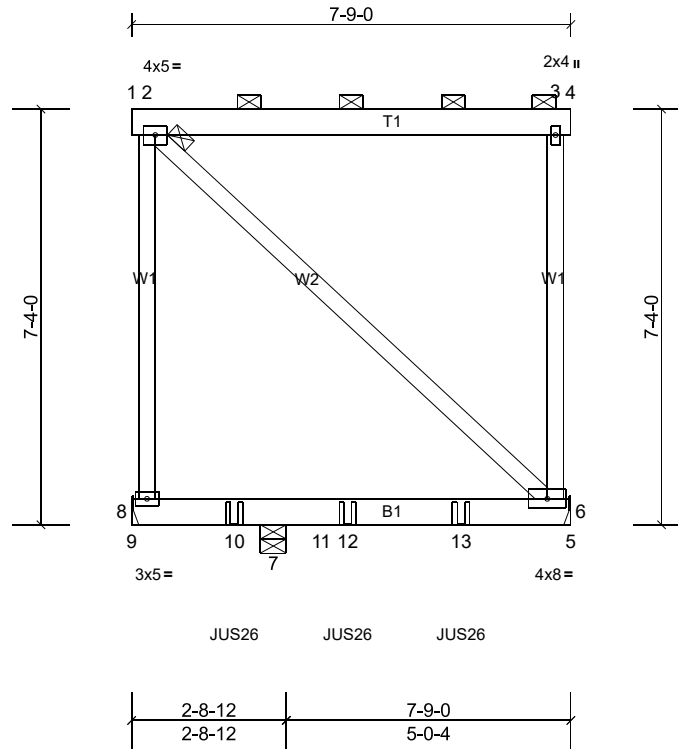
Job 20080073	Truss GR3	Truss Type Flat Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:40.7

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=1350/ Mechanical, (min. 0-1-8), 7=545/0-5-8, (min. 0-1-8),
 8=1151/ Mechanical, (min. 0-1-8)
 Max Uplift 6=-125 (LC 8), 7=-253 (LC 7), 8=-108 (LC 31)
 Max Grav 6=1393 (LC 2), 7=796 (LC 24), 8=1188 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-1222/69, 3-6=-1222/69

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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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 108 lb uplift at joint 8 and 125 lb uplift at joint 6.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use USP JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 5-9-12 to connect truss(es) J05B (1 ply 2x6 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-306, 2-3=-306, 3-4=-306, 5-9=-19

Job 20080073	Truss GR3	Truss Type Flat Girder	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Concentrated Loads (lb)

Vert: 10=-175 (F), 12=-175 (F), 13=-175 (F)

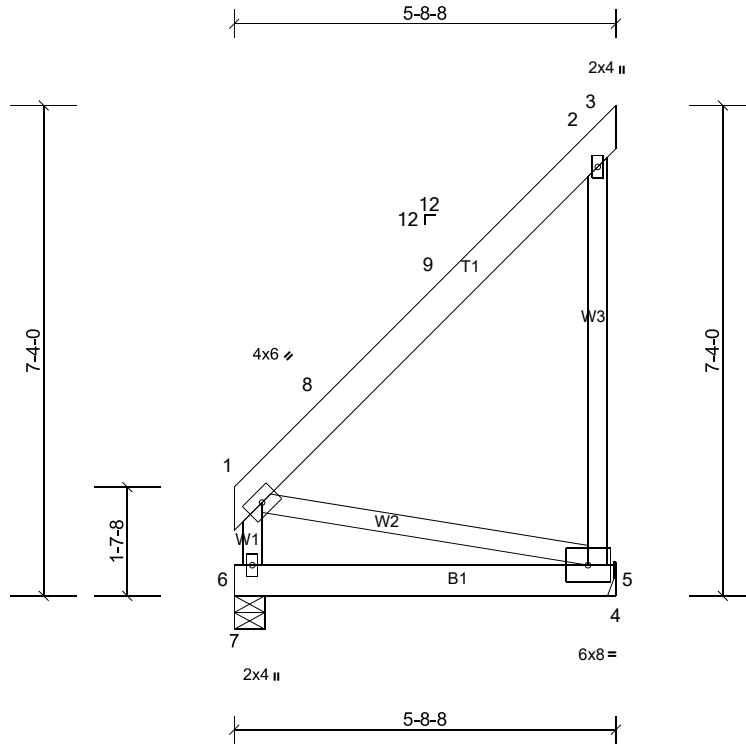
Job 20080073	Truss J05	Truss Type Jack-Closed	Qty 5	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:34.5

Loading	(psf)	Spacing	2-0-0	CSI	0.35	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.

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

REACTIONS (lb/size) 5=194/ Mechanical, (min. 0-1-8), 6=180/0-5-8, (min. 0-1-8)
 Max Horiz 6=137 (LC 13)
 Max Uplift 5=-110 (LC 13)
 Max Grav 5=251 (LC 25), 6=212 (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 1-8=-297/75, 8-9=-279/94, 2-9=-276/124, 2-5=-191/361
 BOT CHORD 5-6=-357/128
 WEBS 1-5=-133/368

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 5-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

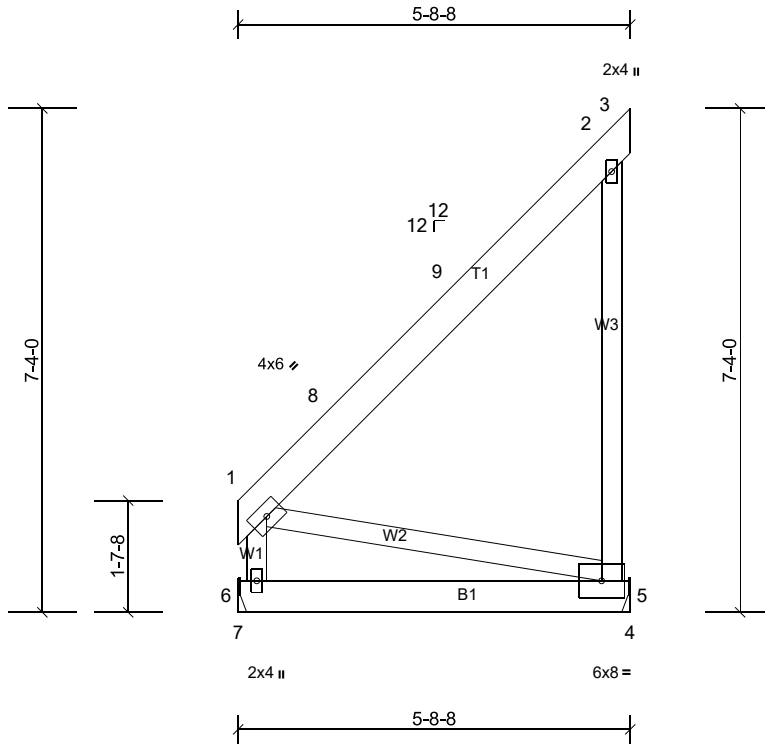
Job 20080073	Truss J05A	Truss Type Jack-Closed	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:33.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.

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

REACTIONS (lb/size) 5=194/ Mechanical, (min. 0-1-8), 6=180/ Mechanical, (min. 0-1-8)

Max Horiz 6=137 (LC 13)
 Max Uplift 5=-110 (LC 13)
 Max Grav 5=251 (LC 27), 6=212 (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 1-8=-297/75, 8-9=-279/94, 2-9=-276/124, 2-5=-191/361
 BOT CHORD 5-6=-357/128
 WEBS 1-5=-133/368

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 5-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

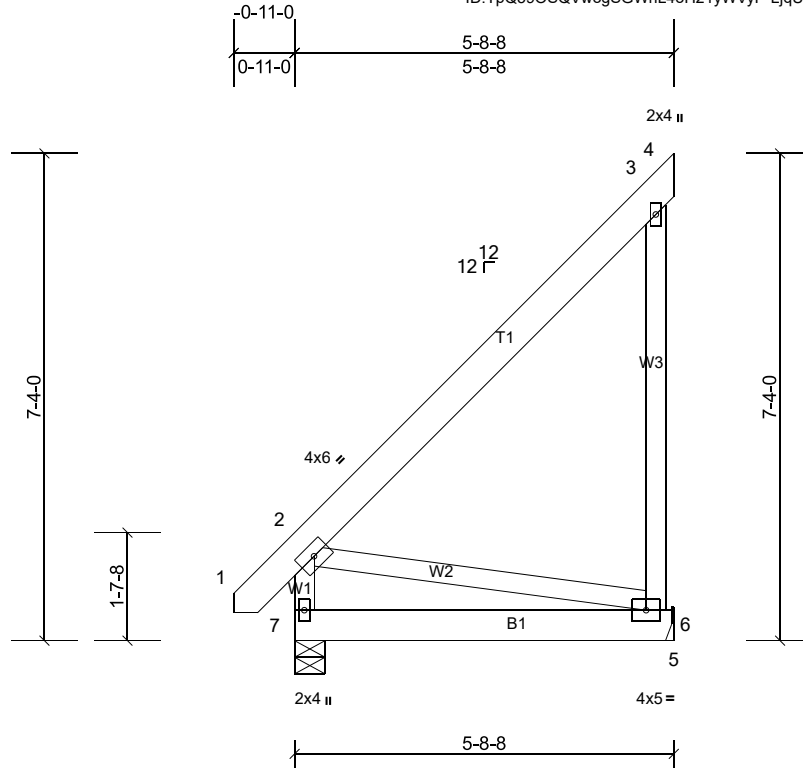
Job 20080073	Truss J05B	Truss Type Jack-Closed	Qty 3	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:34.7

Loading	(psf)	Spacing	2-0-0	CSI	0.28	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=194/ Mechanical, (min. 0-1-8), 7=224/0-5-8, (min. 0-1-8)
 Max Horiz 7=158 (LC 13)
 Max Uplift 6=-111 (LC 13)
 Max Grav 6=252 (LC 25), 7=269 (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 3-6=-251/176

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 5-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

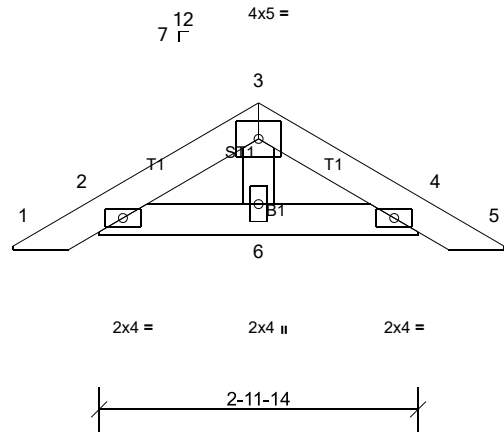
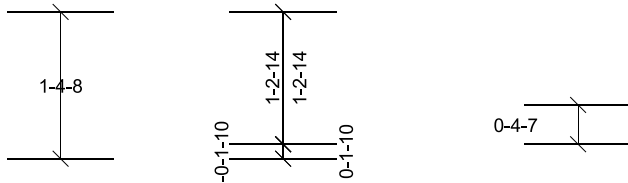
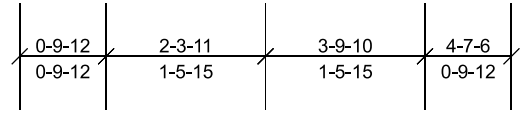
Job 20080073	Truss PB04	Truss Type Piggyback	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:21.6

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 2-11-14.

(lb) - Max Horiz 2=-22 (LC 13), 7=-22 (LC 13)
 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

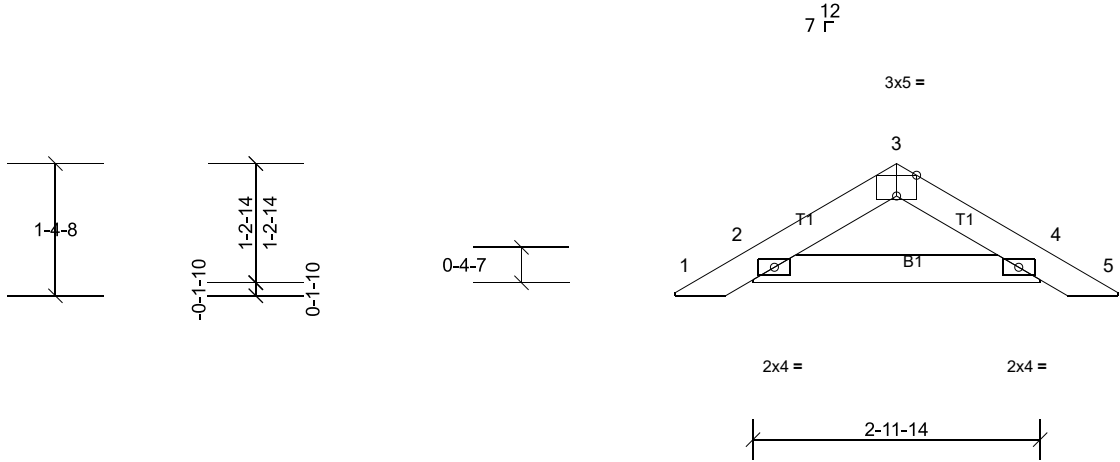
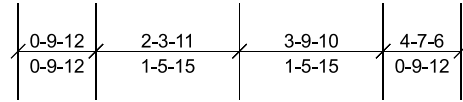
Job 20080073	Truss PB04A	Truss Type Piggyback	Qty 10	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:24

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 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 4-8-10 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 2-11-14.
(lb) - Max Horiz 2=-22 (LC 13), 6=-22 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 10

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

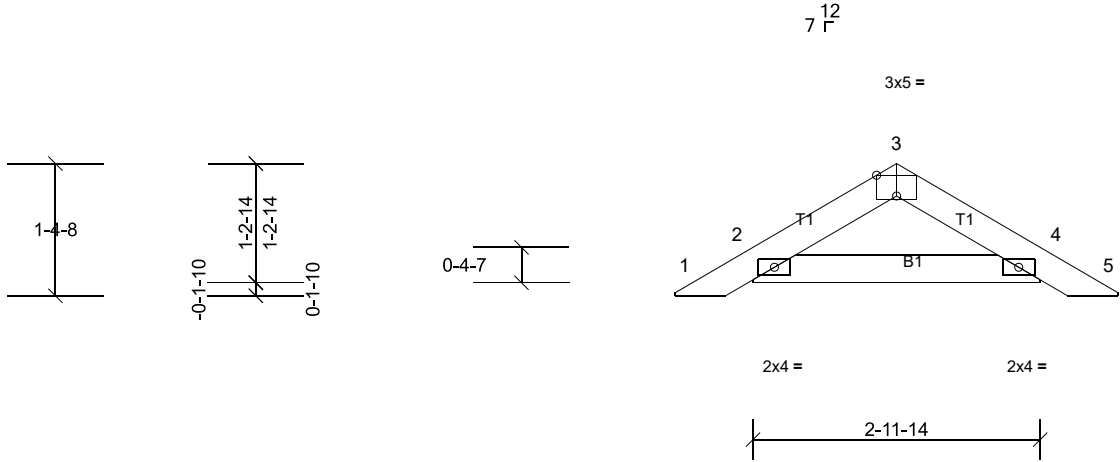
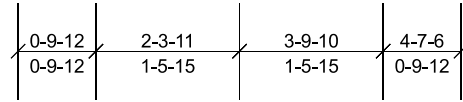
Job 20080073	Truss PB04B	Truss Type Piggyback	Qty 1	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:24

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 2-11-14.

(lb) - Max Horiz 2=22 (LC 14), 6=22 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 10

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

NOTES

- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- * 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, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

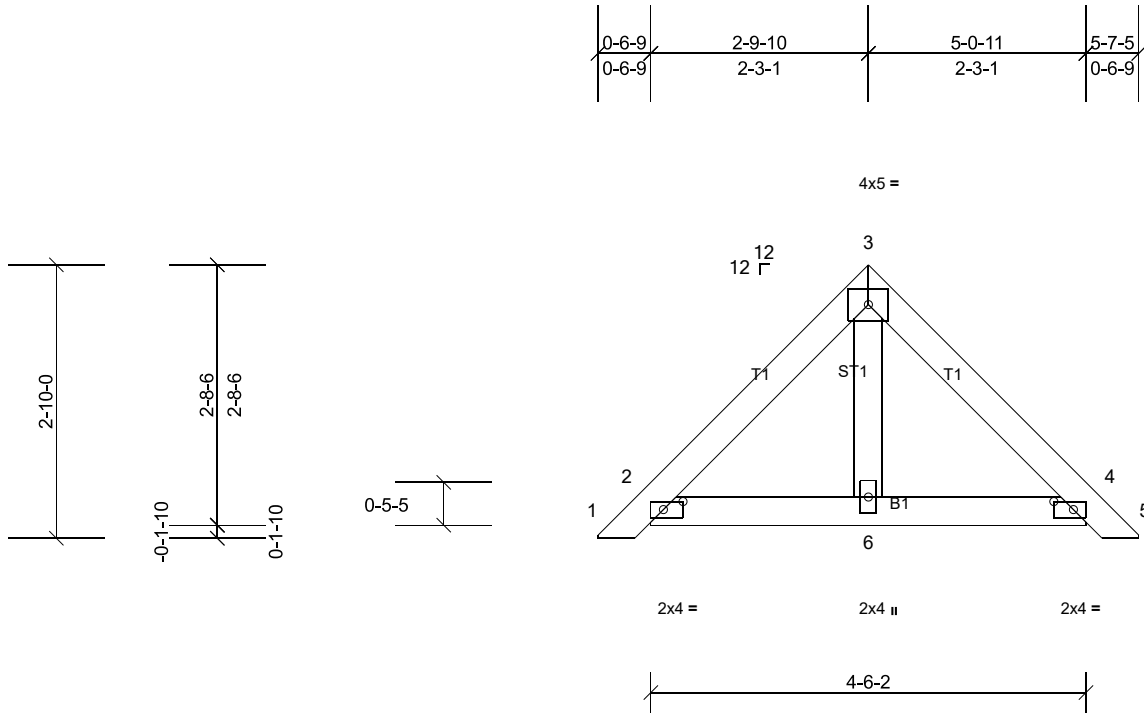
Job 20080073	Truss PB05	Truss Type Piggyback	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 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 5-8-1 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 4-6-2.
 (lb) - Max Horiz 2=49 (LC 12), 7=49 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCWL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

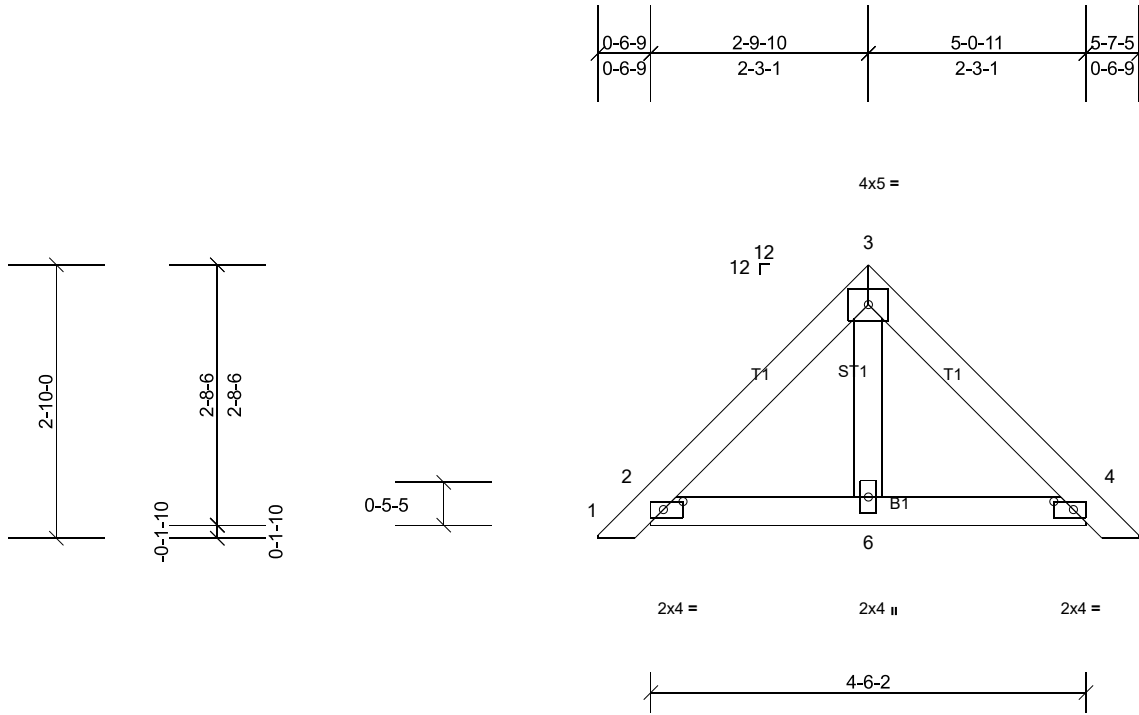
Job 20080073	Truss PB05A	Truss Type Piggyback	Qty 16	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI	0.06	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%
BCDL	10.0											

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 5-8-1 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 4-6-2.
 (lb) - Max Horiz 2=49 (LC 12), 7=49 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCWL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

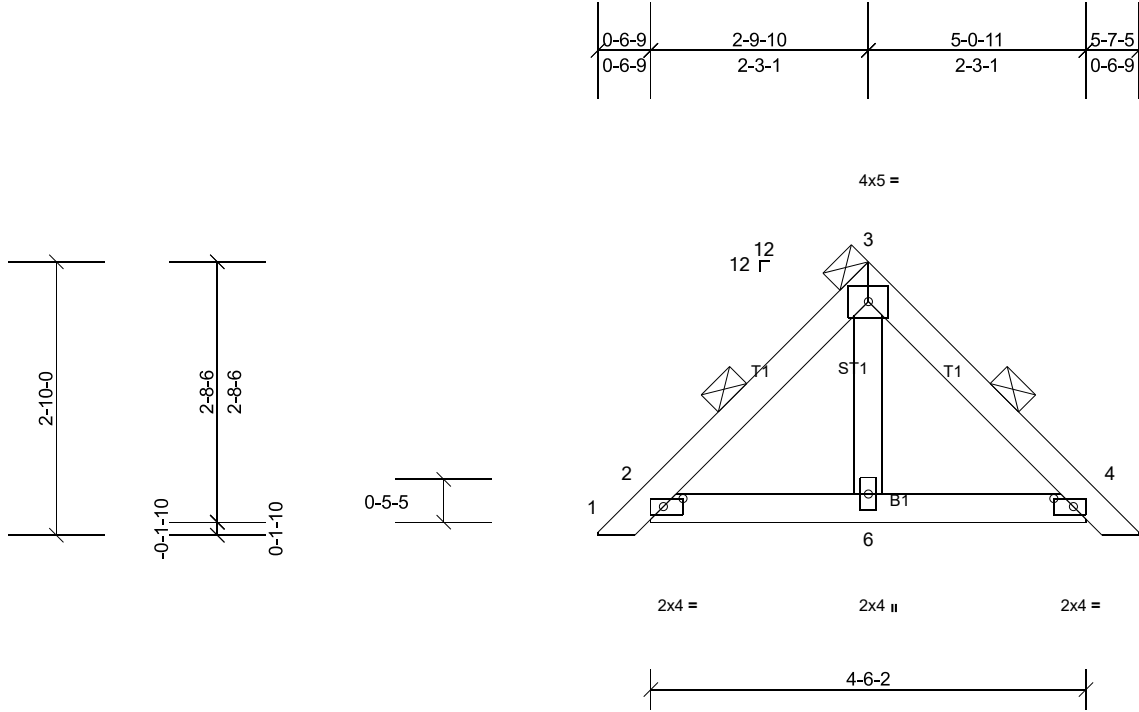
Job 20080073	Truss PB05B	Truss Type Piggyback	Qty 2	Ply 3	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:23.9

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

Loading	(psf)	Spacing	7-1-2	CSI	0.08	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 65 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins
 (Switched from sheeted: Spacing > 2-0-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 4-6-2.

(lb) - Max Horiz 2=174 (LC 12), 7=174 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
 Max Grav All reactions 250 (lb) or less at joint(s) except 2=480 (LC 2),
 4=480 (LC 2), 6=473 (LC 2), 7=480 (LC 2), 10=480 (LC 2)

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

TOP CHORD 2-3=-324/165, 3-4=-321/165

NOTES

- 3-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

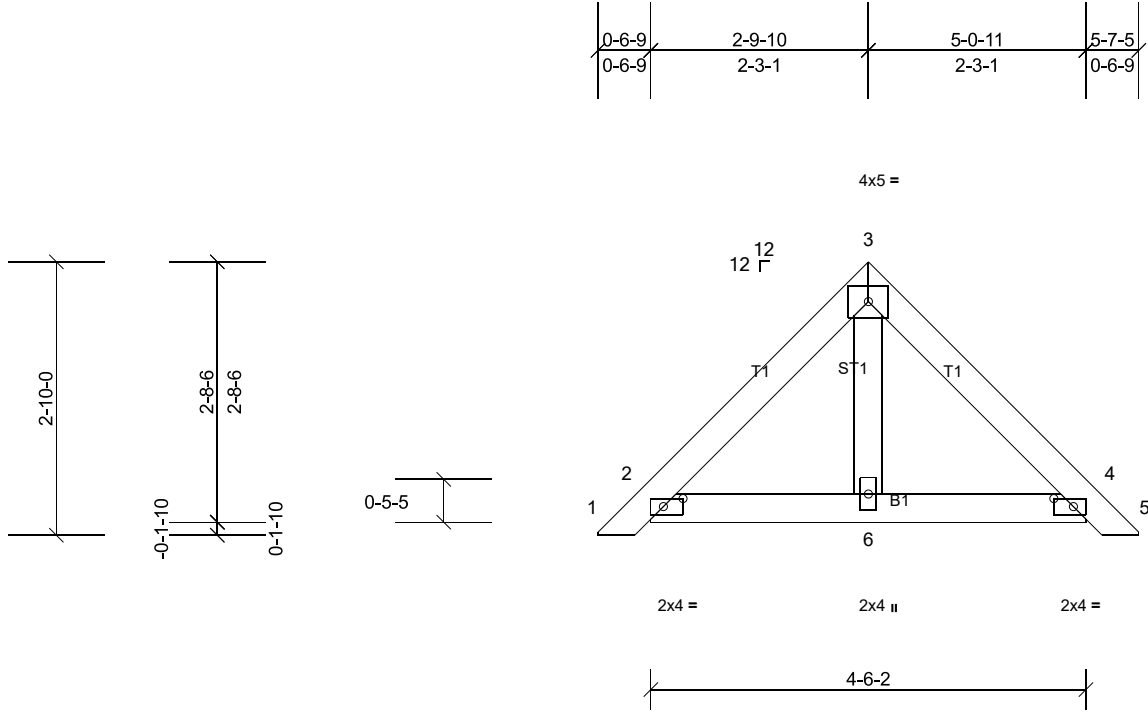
Job 20080073	Truss PB05C	Truss Type Piggyback	Qty 2	Ply 2	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 43 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 4-6-2.

(lb) - Max Horiz 2=49 (LC 12), 7=49 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

NOTES

- 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

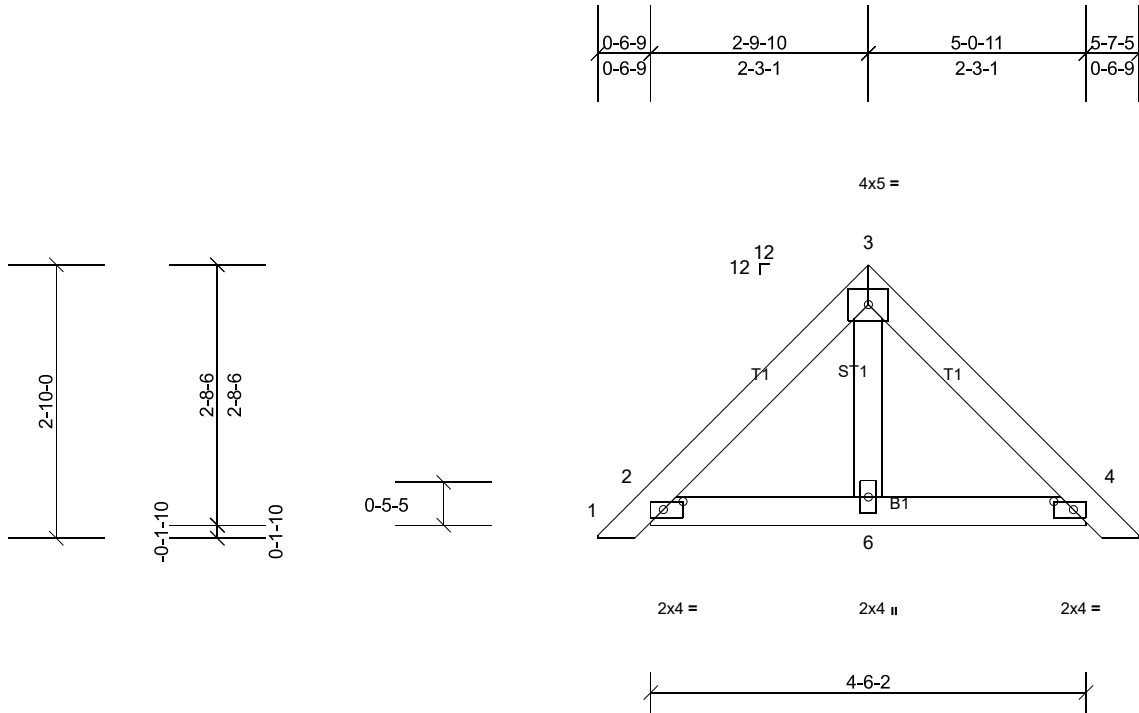
Job 20080073	Truss PB05D	Truss Type Piggyback	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI	0.06	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%
BCDL	10.0											

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 5-8-1 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 4-6-2.
(lb) - Max Horiz 2=49 (LC 12), 7=49 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCWL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

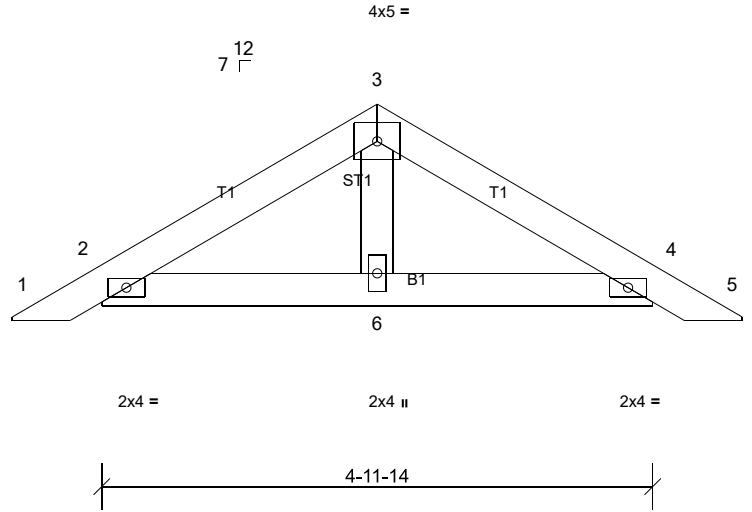
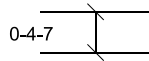
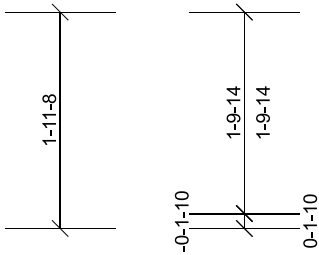
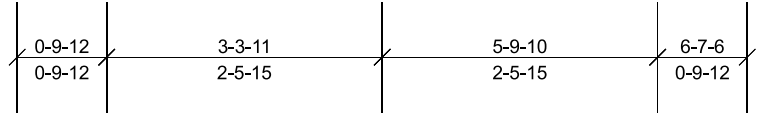
Job 20080073	Truss PB06	Truss Type Piggyback	Qty 2	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:20.9

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS All bearings 4-11-14.

(lb) - Max Horiz 2=-32 (LC 13), 7=-32 (LC 13)
 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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 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 2018 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

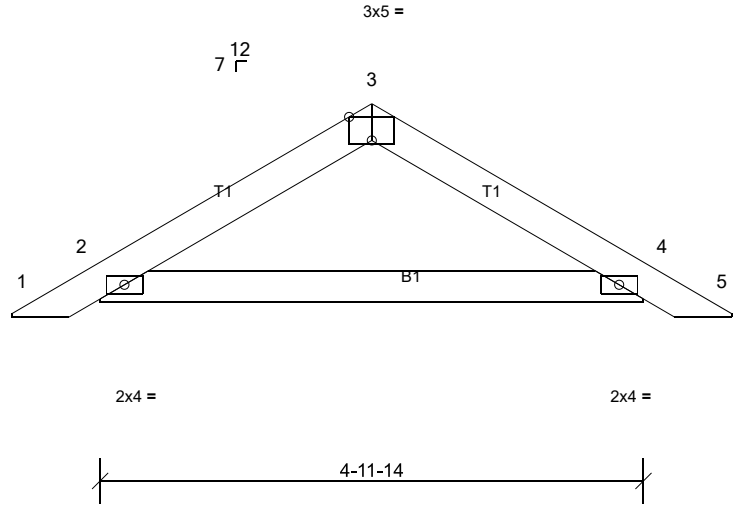
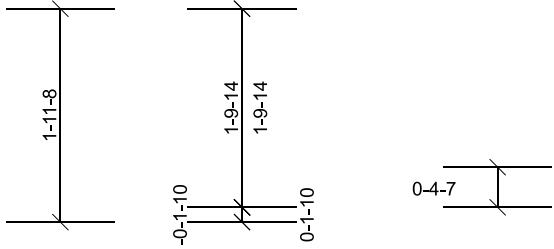
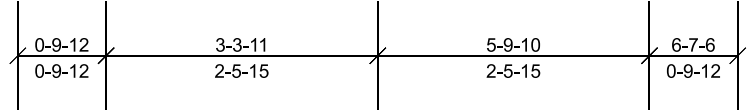
Job 20080073	Truss PB06A	Truss Type Piggyback	Qty 15	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:21.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 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 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 All bearings 4-11-14.

- (lb) - Max Horiz 2=-33 (LC 13), 6=-33 (LC 13)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6
- Max Grav All reactions 250 (lb) or less at joint(s) 2, 6 except 4=252 (LC 23), 10=252 (LC 23)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

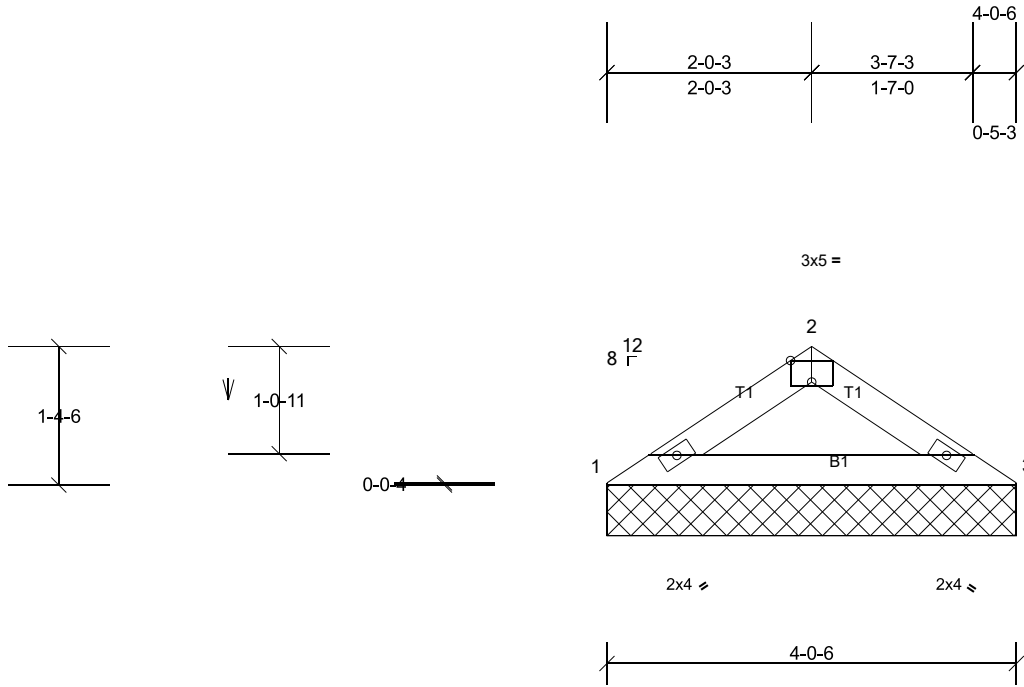
Job 20080073	Truss V04	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:22.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%
BCDL	10.0											

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-0-6 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=136/4-0-6, (min. 0-1-8), 3=136/4-0-6, (min. 0-1-8)
Max Horiz 1=22 (LC 12)
Max Grav 1=161 (LC 2), 3=161 (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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- * 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

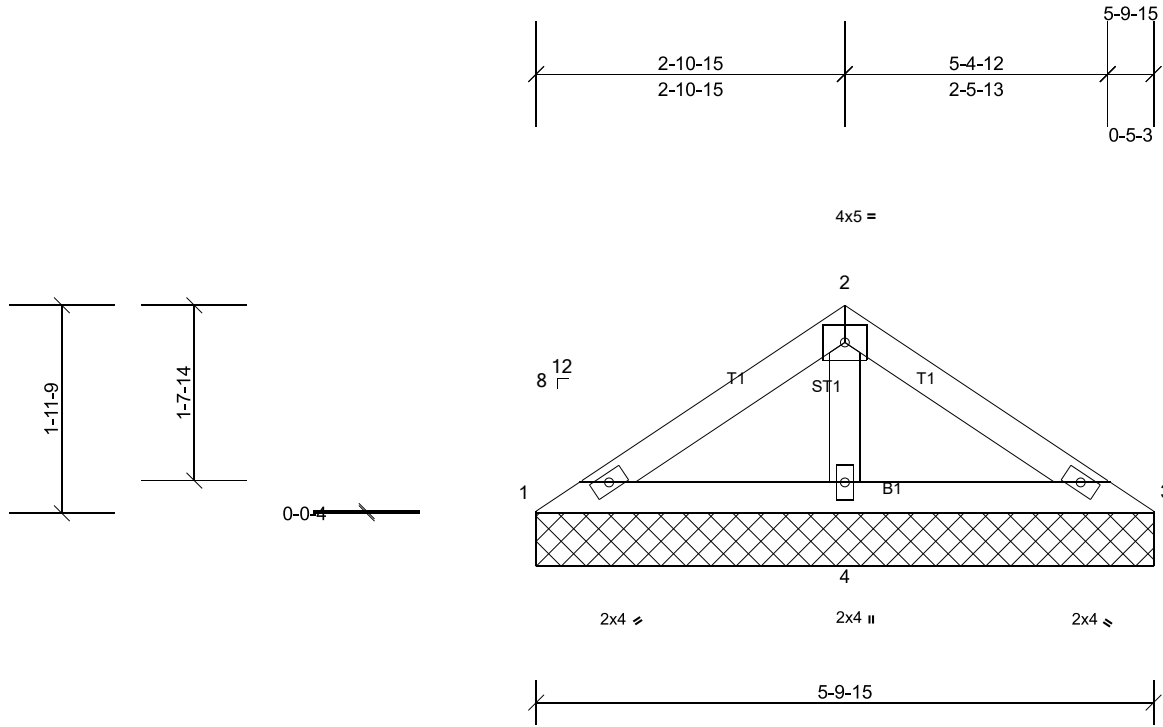
Job 20080073	Truss V05	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:21.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/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 5-9-15 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 1=43/5-9-15, (min. 0-1-8), 3=43/5-9-15, (min. 0-1-8),
 4=308/5-9-15, (min. 0-1-8)
 Max Horiz 1=-34 (LC 9)
 Max Uplift 3=-2 (LC 14)
 Max Grav 1=67 (LC 30), 3=67 (LC 31), 4=364 (LC 2)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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 2 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

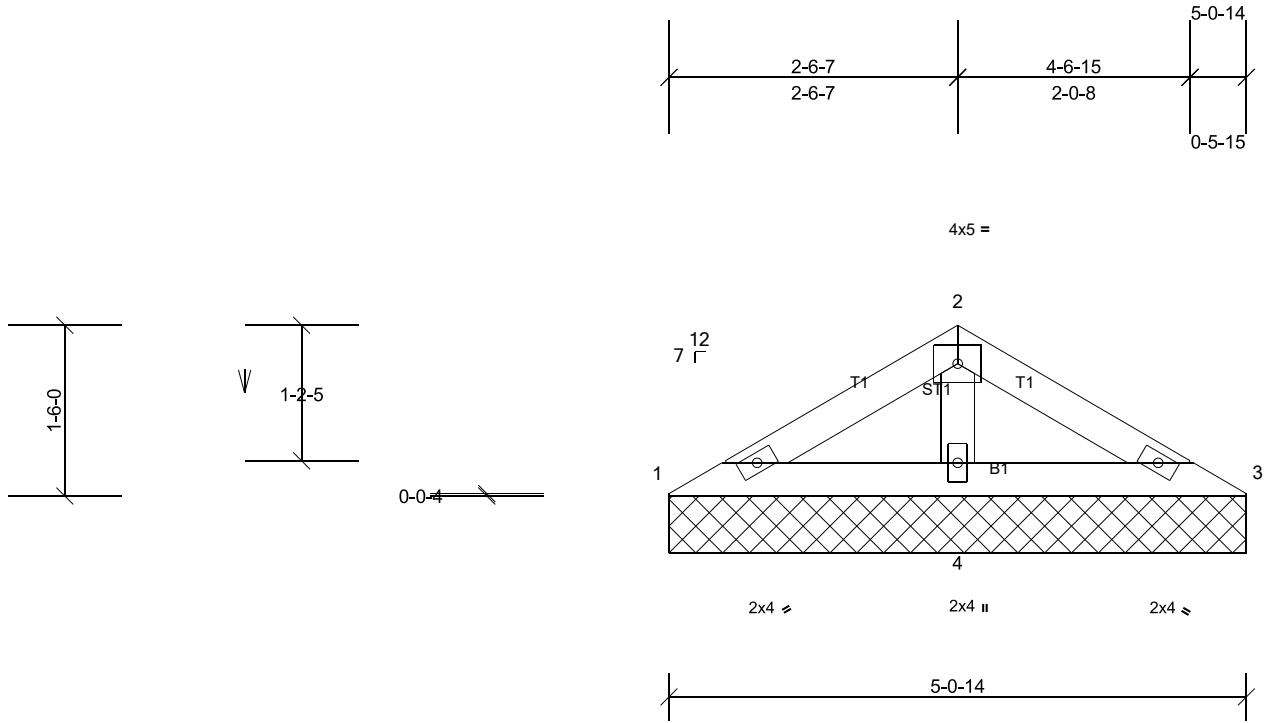
Job 20080073	Truss V05A	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 16 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'-0-14 oc purlins.
Rigid ceiling directly applied or 6'-0-0 oc bracing.

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

REACTIONS (lb/size) 1=45/5-0-14, (min. 0-1-8), 3=45/5-0-14, (min. 0-1-8),
4=253/5-0-14, (min. 0-1-8)
Max Horiz 1=25 (LC 14)
Max Uplift 1=-1 (LC 15), 3=-4 (LC 16)
Max Grav 1=73 (LC 21), 3=73 (LC 22), 4=299 (LC 2)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4'-0-0 oc.
- * 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 1 lb uplift at joint 1 and 4 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

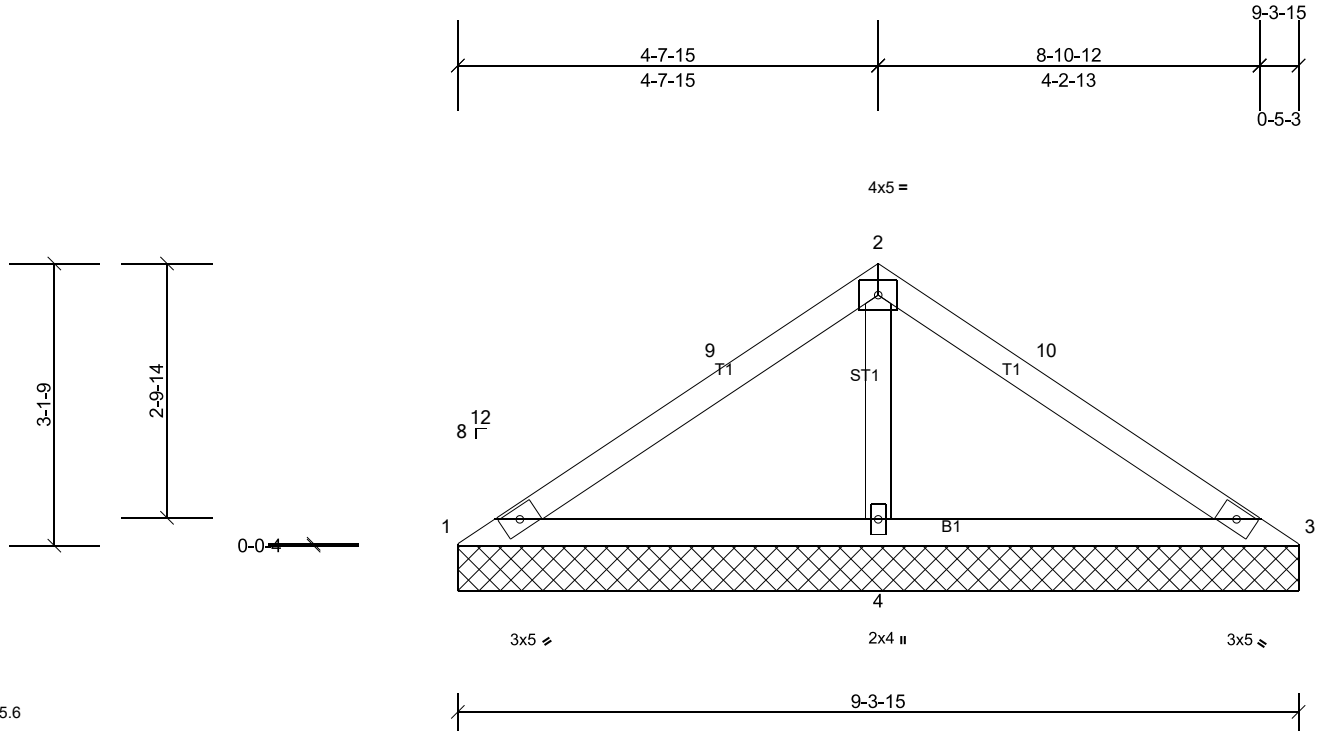
Job 20080073	Truss V09	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:25.6

Loading	(psf)	Spacing	2-0-0	CSI	0.24	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 33 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 9-3-15 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 1=32/9-3-15, (min. 0-1-8), 3=32/9-3-15, (min. 0-1-8),
4=568/9-3-15, (min. 0-1-8)
Max Horiz 1=56 (LC 10)
Max Uplift 1=-19 (LC 31), 3=-19 (LC 30)
Max Grav 1=75 (LC 30), 3=75 (LC 31), 4=670 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-130/302, 2-10=-125/302
WEBS 2-4=-507/310

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 4-8-5, Corner(3R) 4-8-5 to 7-8-5, Exterior(2N) 7-8-5 to 9-4-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 19 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

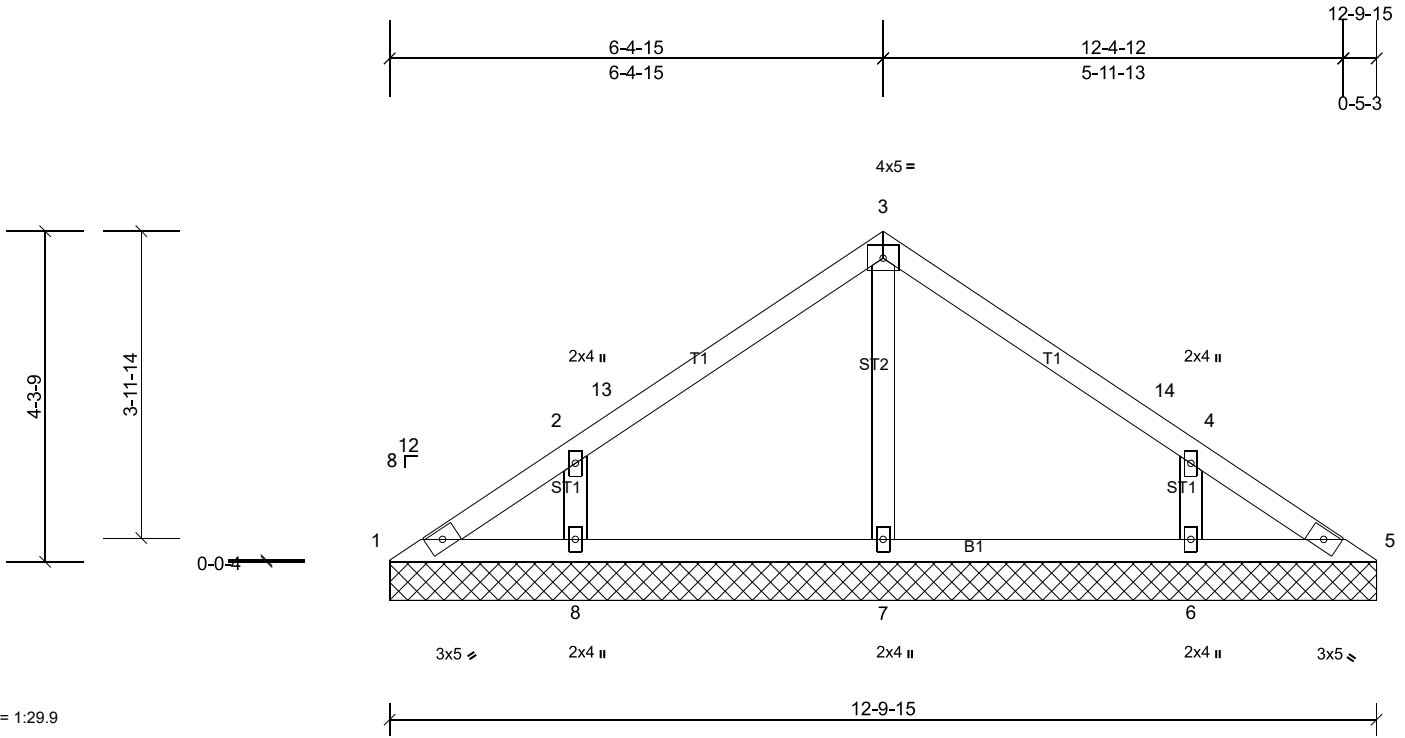
Job 20080073	Truss V12	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 49 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 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 All bearings 12-9-15.
 (lb) - Max Horiz 1=77 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=315 (LC 25), 7=275 (LC 2), 8=317 (LC 24)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 6-5-5, Corner(3R) 6-5-5 to 9-5-5, Exterior(2N) 9-5-5 to 12-10-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * 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, 8, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

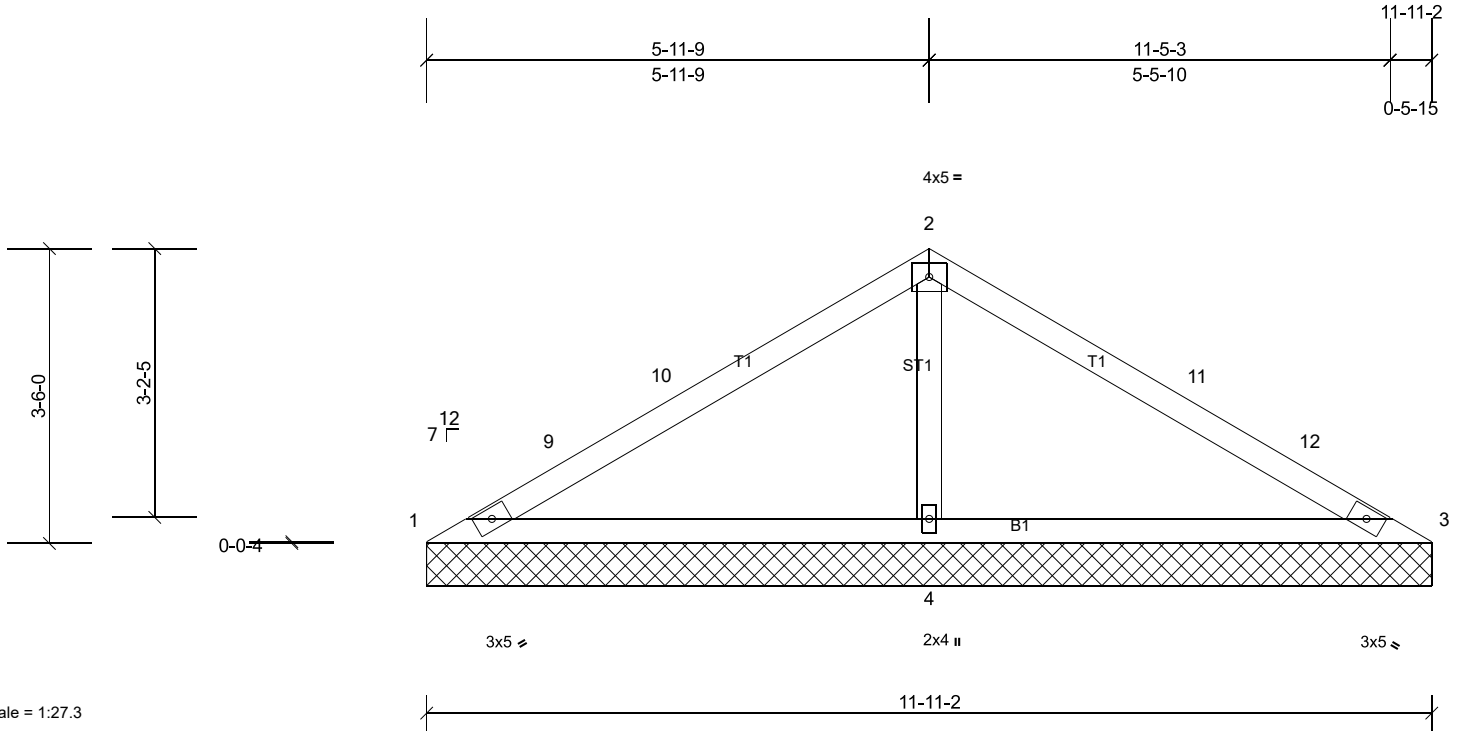
Job 20080073	Truss V12A	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 41 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 10-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 1=8/11-11-2, (min. 0-1-8), 3=8/11-11-2, (min. 0-1-8),
4=791/11-11-2, (min. 0-1-8)
Max Horiz 1=-63 (LC 11)
Max Uplift 1=-55 (LC 22), 3=-55 (LC 21)
Max Grav 1=67 (LC 34), 3=67 (LC 35), 4=935 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-203/361, 9-10=-191/401, 2-10=-189/491, 2-11=-186/491, 11-12=-189/401, 3-12=-201/361
BOT CHORD 1-4=-354/262, 3-4=-354/262
WEBS 2-4=-735/375

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-7 to 3-0-7, Exterior(2N) 3-0-7 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 11-11-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * 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 55 lb uplift at joint 1 and 55 lb uplift at joint 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

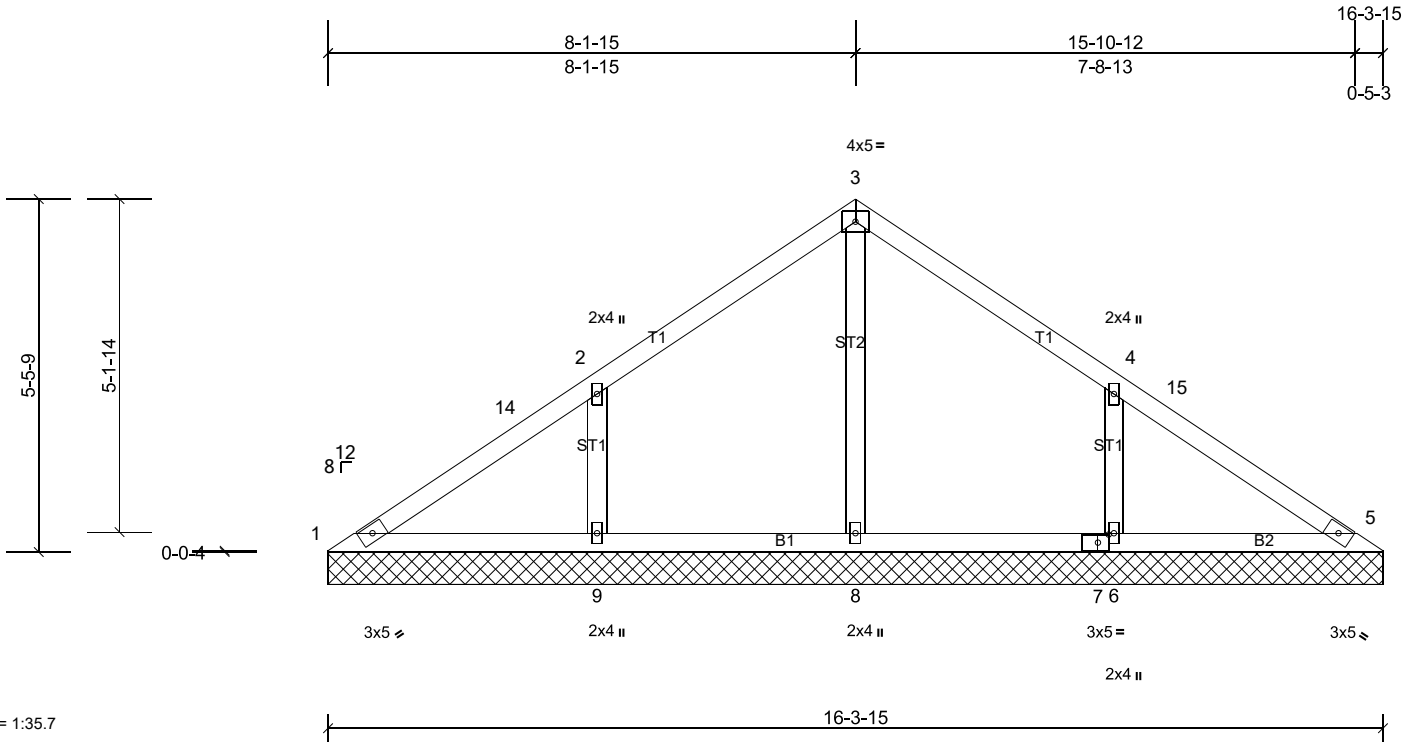
Job 20080073	Truss V16	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:35.7

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

Loading	(psf)	Spacing	2-0-0	CSI	0.24	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 66 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 10-0-0 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS All bearings 16-3-15.
 (lb) - Max Horiz 1=99 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6, 9
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=377 (LC 25), 8=309 (LC 2), 9=396 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-283/217, 4-6=-274/219

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 8-2-5, Corner(3R) 8-2-5 to 11-2-5, Exterior(2N) 11-2-5 to 15-10-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * 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) 9, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

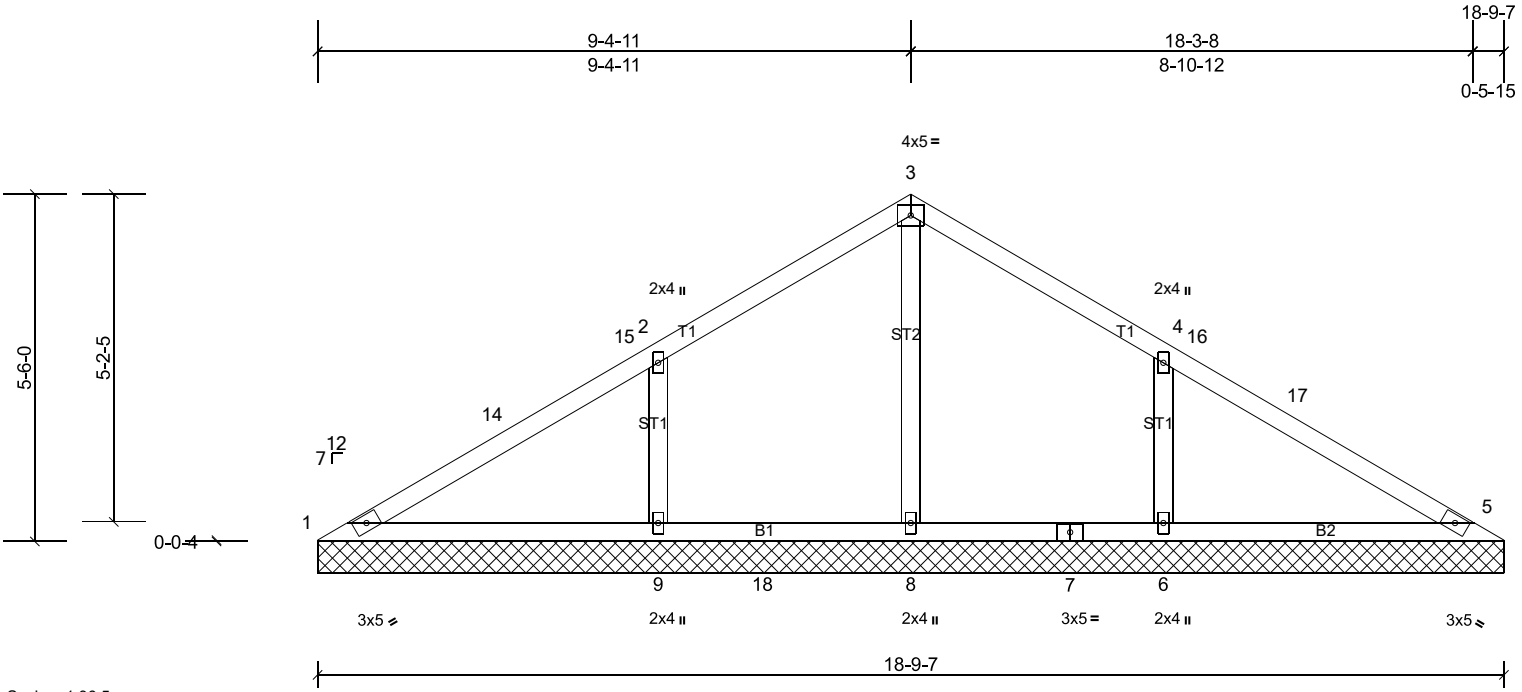
Job 20080073	Truss V18	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:36.5

Loading	(psf)	Spacing	2-0-0	CSI	0.34	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 74 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 18-9-7.
 (lb) - Max Horiz 1=100 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6, 9
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=534 (LC 29), 8=460 (LC 28), 9=557 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-49/254
 WEBS 3-8=-301/24, 2-9=-338/204, 4-6=-329/206

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-7 to 3-0-7, Exterior(2N) 3-0-7 to 9-5-2, Corner(3R) 9-5-2 to 12-5-2, Exterior(2N) 12-5-2 to 18-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

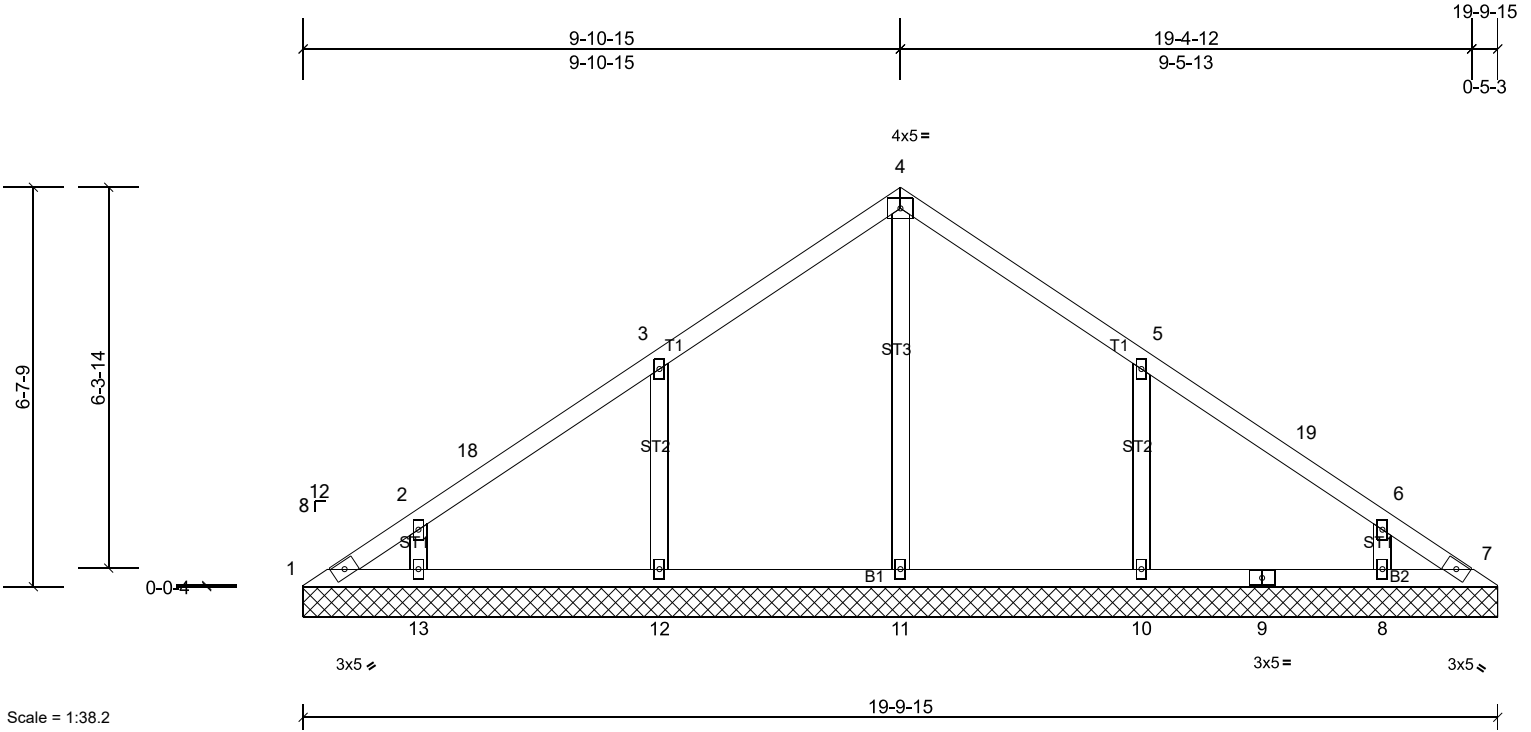
Job 20080073	Truss V19	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	0.21	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 85 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except* ST3:2x4 SP No.2

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 All bearings 19-9-15.
 (lb) - Max Horiz 1=121 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 10, 12, 13
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=312 (LC 25), 10=450 (LC 25), 11=366 (LC 24), 12=450 (LC 24), 13=321 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-12=-275/192, 5-10=-275/193

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 9-11-5, Corner(3R) 9-11-5 to 12-11-5, Exterior(2N) 12-11-5 to 19-4-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 12, 13, 10, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 20080073	Truss V23	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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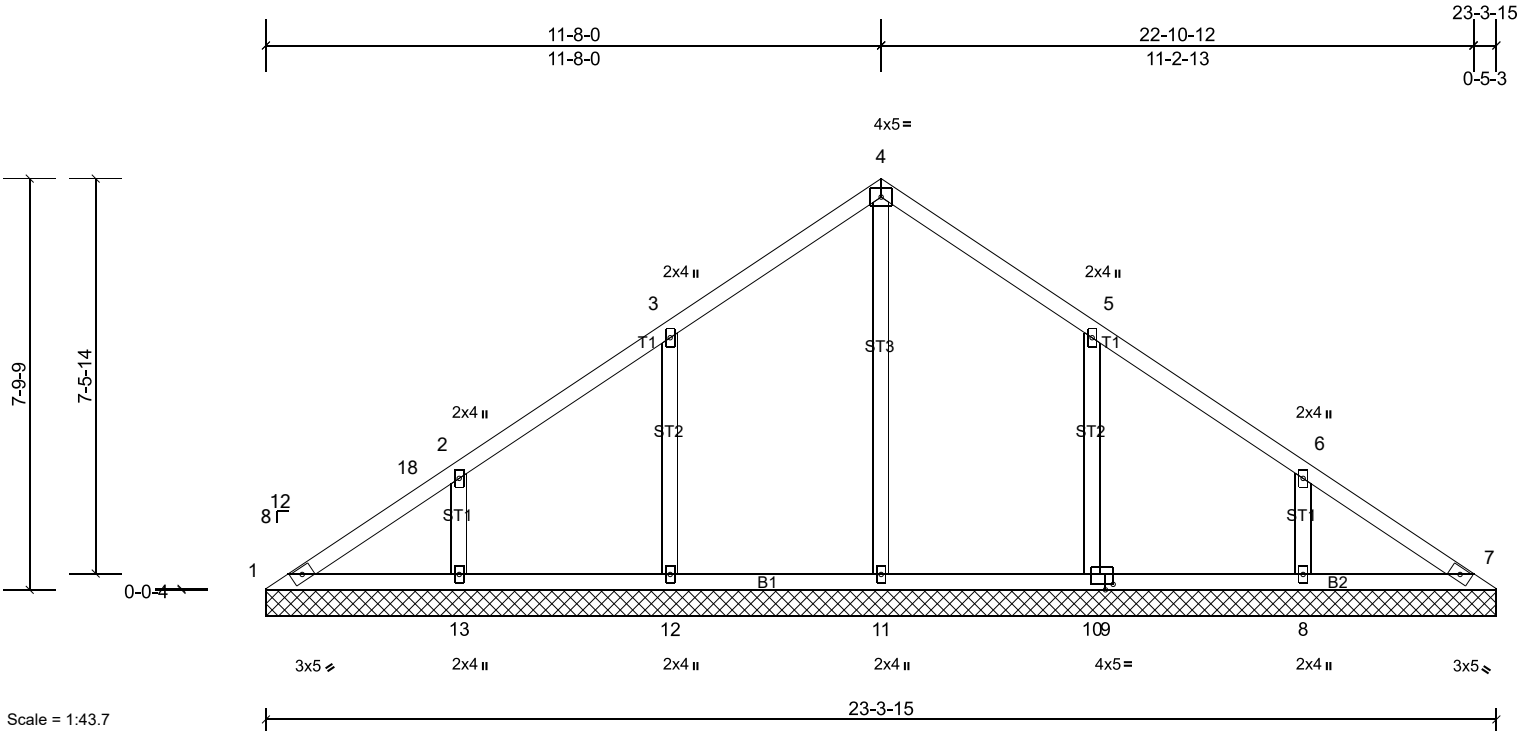


Plate Offsets (X, Y): [9:0-1-12,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	0.21	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 105 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST3:2x4 SP No.2

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS All bearings 23-3-15.
(lb) - Max Horiz 1=143 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 10, 12, 13
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=382 (LC 25), 10=438 (LC 25), 11=416 (LC 24), 12=432 (LC 24), 13=407 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-267/169, 5-10=-270/169

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 11-8-6, Corner(3R) 11-8-6 to 14-8-6, Exterior(2N) 14-8-6 to 22-10-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 10, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

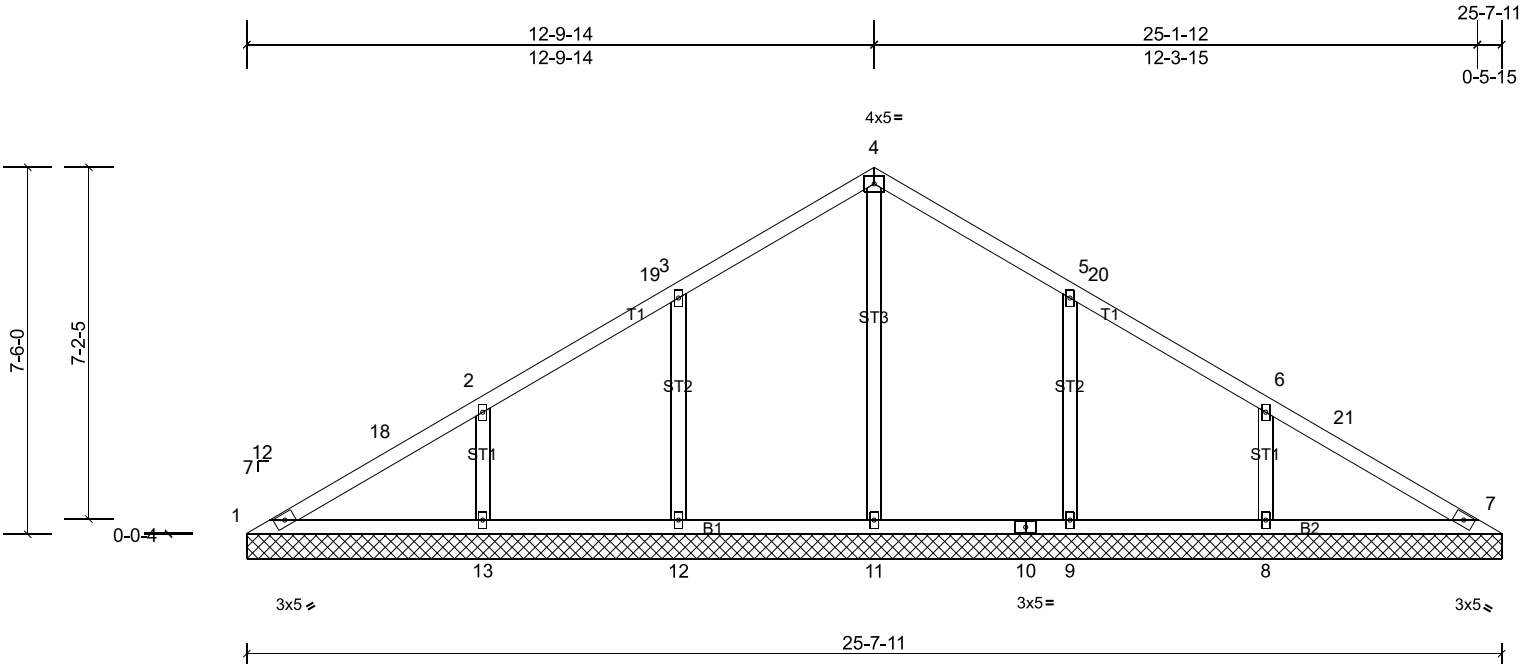
Job 20080073	Truss V25	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:47.1

Loading	(psf)	Spacing	2-0-0	CSI	0.25	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 111 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST3:2x4 SP No.2

BRACING
TOP CHORD
BOT CHORD

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

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

REACTIONS All bearings 25-7-11.
(lb) - Max Horiz 1=138 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 12, 13
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=453 (LC 29), 9=411 (LC 29), 11=480 (LC 28), 12=401 (LC 28), 13=483 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-251/133
WEBS 4-11=-265/0, 3-12=-280/143, 2-13=-288/146, 5-9=-284/143, 6-8=-274/148

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-7 to 3-0-7, Exterior(2N) 3-0-7 to 12-10-5, Corner(3R) 12-10-5 to 15-10-5, Exterior(2N) 15-10-5 to 25-2-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 9, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

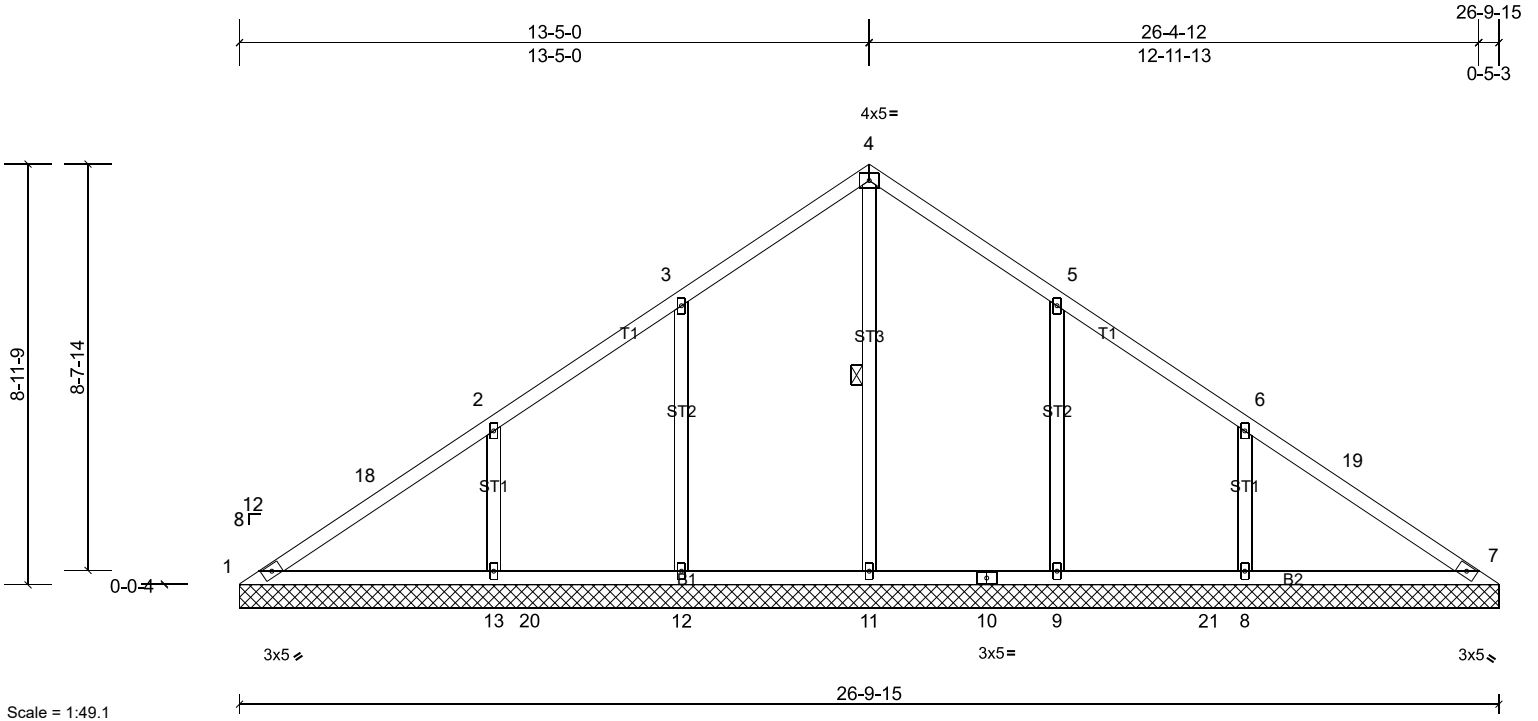
Job 20080073	Truss V26	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	0.31	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.01	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except* ST1:2x4 SP No.3

BRACING
TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 10-0-0 oc purlins.
Rigid ceiling directly applied or 6-0-0 oc bracing.
1 Row at midpt 4-11

REACTIONS All bearings 26-9-15.
(lb) - Max Horiz 1=165 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 12, 13
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=528 (LC 25), 9=431 (LC 25), 11=510 (LC 24), 12=420 (LC 24), 13=555 (LC 24)

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 1-18=-259/168
WEBS 4-11=-300/0, 2-13=-317/174, 6-8=-305/176

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 13-5-6, Corner(3R) 13-5-6 to 16-5-6, Exterior(2N) 16-5-6 to 26-4-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 9, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

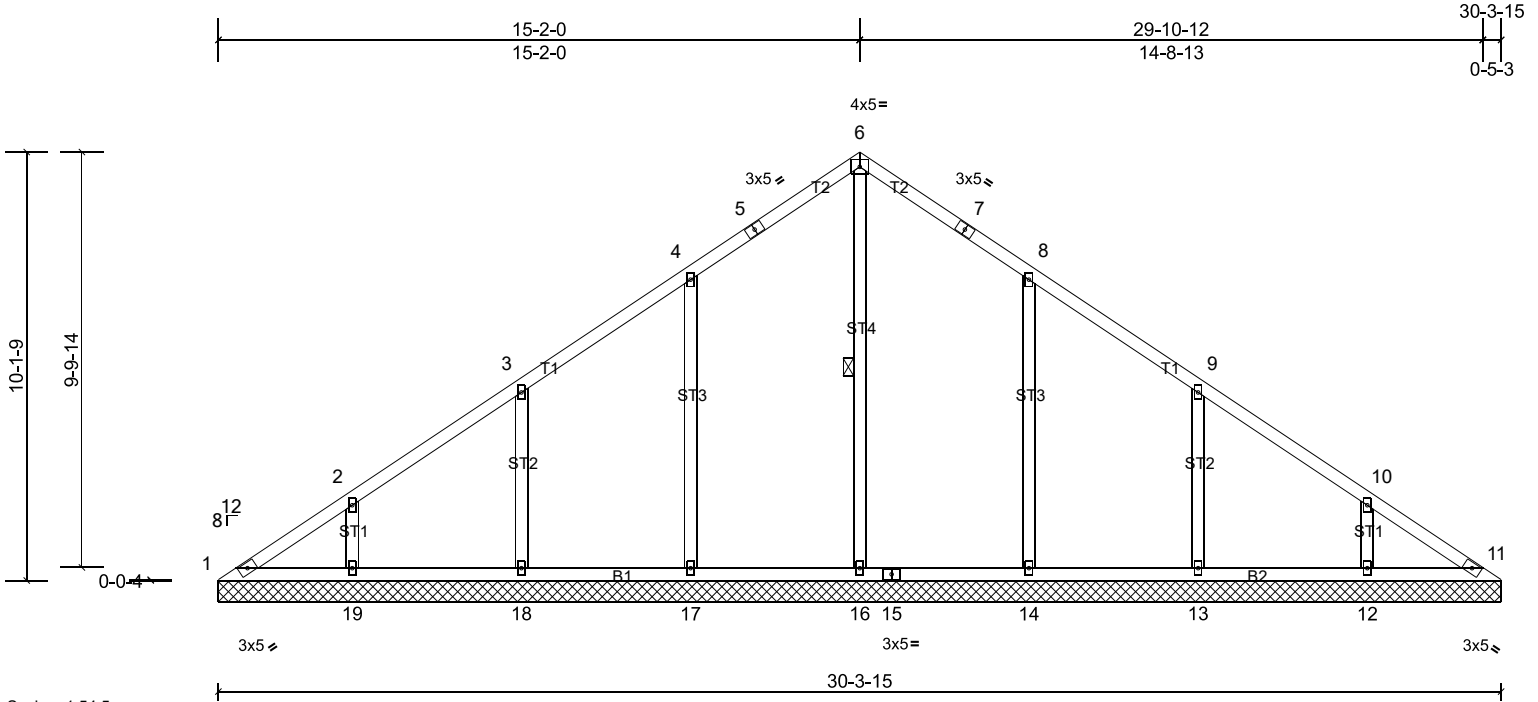
Job 20080073	Truss V30	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Scale = 1:54.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.01	11	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 150 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST4,ST3:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

REACTIONS All bearings 30-3-15.
(lb) - Max Horiz 1=187 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 12, 13, 14, 17, 18, 19
Max Grav All reactions 250 (lb) or less at joint(s) 1, 11 except 12=360 (LC 25), 13=423 (LC 25), 14=470 (LC 25), 16=399 (LC 27), 17=472 (LC 24), 18=418 (LC 24), 19=382 (LC 24)

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 4-17=-267/158, 8-14=-266/158, 9-13=-250/155

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-6 to 3-2-6, Exterior(2N) 3-2-6 to 15-2-6, Corner(3R) 15-2-6 to 18-2-12, Exterior(2N) 18-2-12 to 29-10-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 18, 19, 14, 13, 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

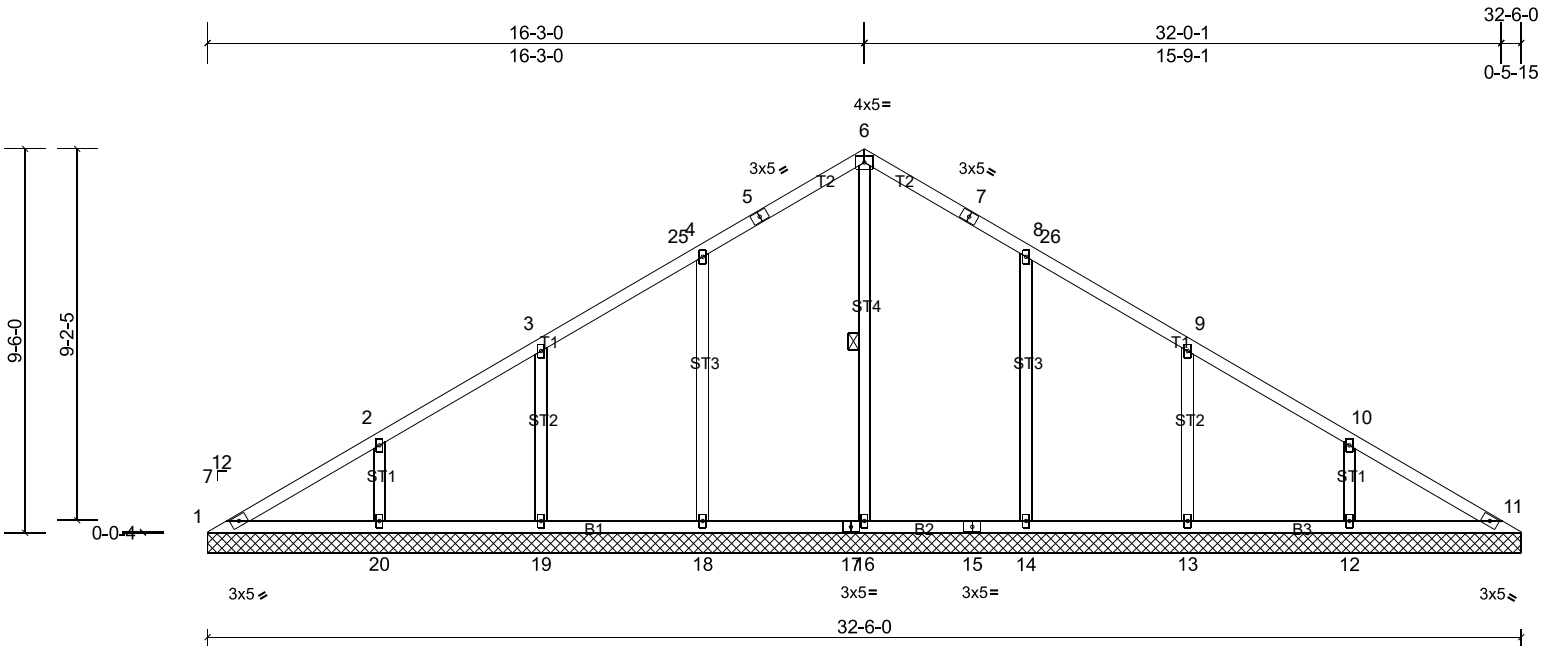
Job 20080073	Truss V32	Truss Type Valley	Qty 1	Ply 1	ON SITE / MO-224 Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:57

Loading	(psf)	Spacing	2-0-0	CSI	0.23	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 154 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST4,ST3:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

REACTIONS All bearings 32-6-0.
(lb) - Max Horiz 1=175 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 12, 13, 14, 18, 19, 20
Max Grav All reactions 250 (lb) or less at joint(s) 1, 11 except 12=418 (LC 29), 13=404 (LC 29), 14=471 (LC 29), 16=421 (LC 31), 18=474 (LC 28), 19=394 (LC 28), 20=447 (LC 28)

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=-263/175
WEBS 4-18=-291/144, 2-20=-272/132, 8-14=-290/144, 10-12=-258/134

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-0-7 to 3-3-7, Exterior(2N) 3-3-7 to 16-3-7, Corner(3R) 16-3-7 to 19-6-7, Exterior(2N) 19-6-7 to 32-0-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 19, 20, 14, 13, 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard