

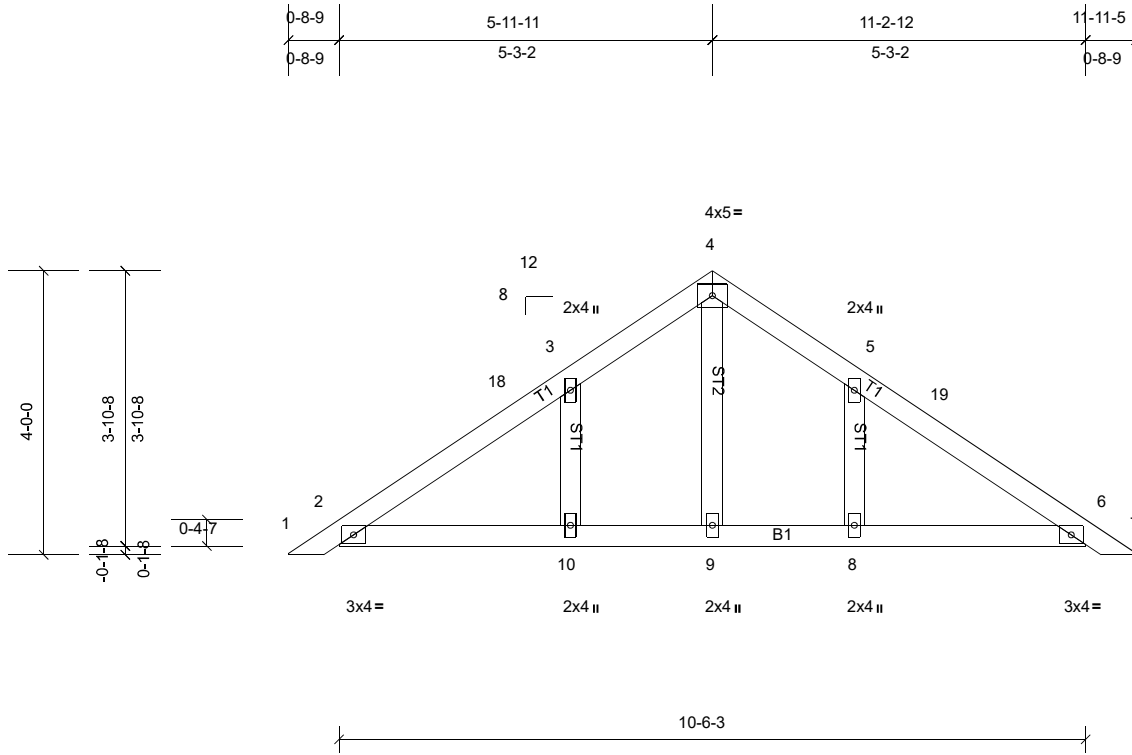
Job Q-2000853-1	Truss CAP1	Truss Type Piggyback	Qty 2	Ply 1	Jose Santiago-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Thu Apr 02 10:47:05

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Scale = 1:32.5

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
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 10-6-3.
(lb) - Max Horiz 2=-68 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 10, 2, 6
Max Grav All reactions 250 (lb) or less at joint(s) 9, 2, 6 except 8=272 (LC 17), 10=272 (LC 16)

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 6-0-1, Exterior (2) 6-0-1 to 9-0-1, Interior (1) 9-0-1 to 11-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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, 6, 10, 8, 2, 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 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

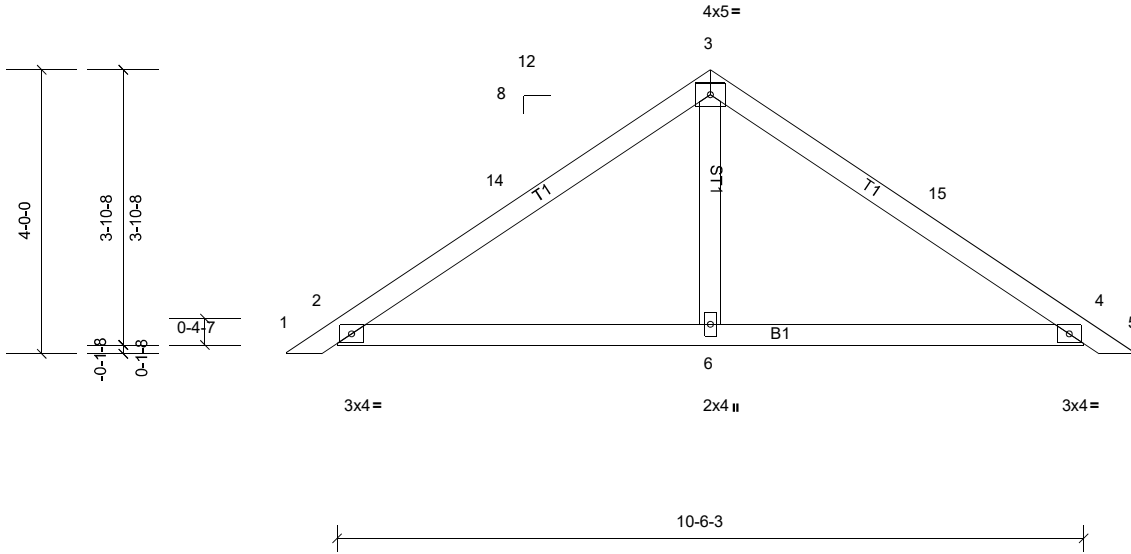
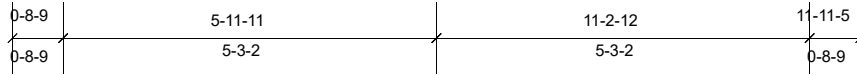
Job Q-2000853-1	Truss CAP2	Truss Type Piggyback	Qty 17	Ply 1	Jose Santiago-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:32.5

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 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 10-6-3.

(lb) - Max Horiz 2=-68 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4
 Max Grav All reactions 250 (lb) or less at joint(s) except 6=345 (LC 1),
 2=277 (LC 1), 4=277 (LC 1)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 6-0-1, Exterior (2) 6-0-1 to 9-0-1, Interior (1) 9-0-1 to 11-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 2015 International Building Code section 2306.1 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

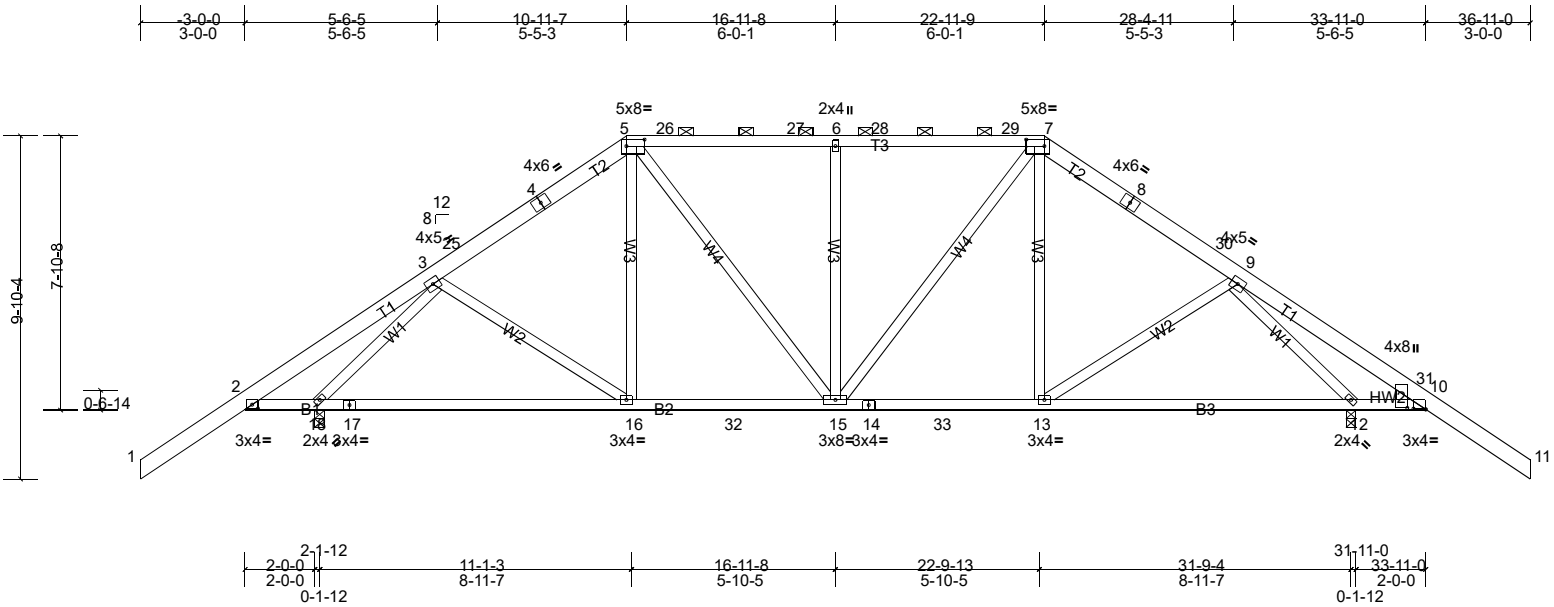
Job Q-2000853-1	Truss T1	Truss Type Piggyback Base	Qty 17	Ply 1	Jose Santiago-Roof Job Reference (optional)
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Scale = 1:66.2

Plate Offsets (X, Y): [5:0-6-4,0-2-4], [7:0-6-4,0-2-4], [10:0-4-3,0-0-4], [10:0-0-8,0-6-6]

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	0.83	Vert(LL)	-0.06	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.16	16-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								Weight: 242 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T3:2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (4-3-12 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 12=1537/0-3-8, (min. 0-2-7), 18=1537/0-3-8, (min. 0-2-7)
 Max Horiz 18=-173 (LC 9)
 Max Uplift 12=-271 (LC 11), 18=-309 (LC 11)

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=-446/562, 3-25=-1212/132, 4-25=-1125/149, 4-5=-1125/166, 5-26=-1114/218, 26-27=-1114/218, 6-27=-1114/218, 6-28=-1114/218, 28-29=-1114/218, 7-29=-1114/218, 7-8=-1124/168, 8-30=-1124/151, 9-30=-1211/134, 9-10=-445/527, 10-31=-381/501, 10-31=-384/478
 BOT CHORD 2-18=-407/505, 17-18=0/891, 16-17=0/891, 16-32=0/1015, 15-32=0/1015, 14-15=0/973, 14-33=0/973, 13-33=0/973, 12-13=0/797, 10-12=-384/505
 WEBS 5-15=-62/362, 6-15=-402/143, 7-15=-62/362, 3-18=-1754/559, 9-12=-1715/530

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -3-0-0 to 0-4-14, Interior (1) 0-4-14 to 10-11-7, Exterior (2) 10-11-7 to 15-9-0, Interior (1) 15-9-0 to 22-11-9, Exterior (2) 22-11-9 to 27-9-2, Interior (1) 27-9-2 to 36-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 18 and 271 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 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

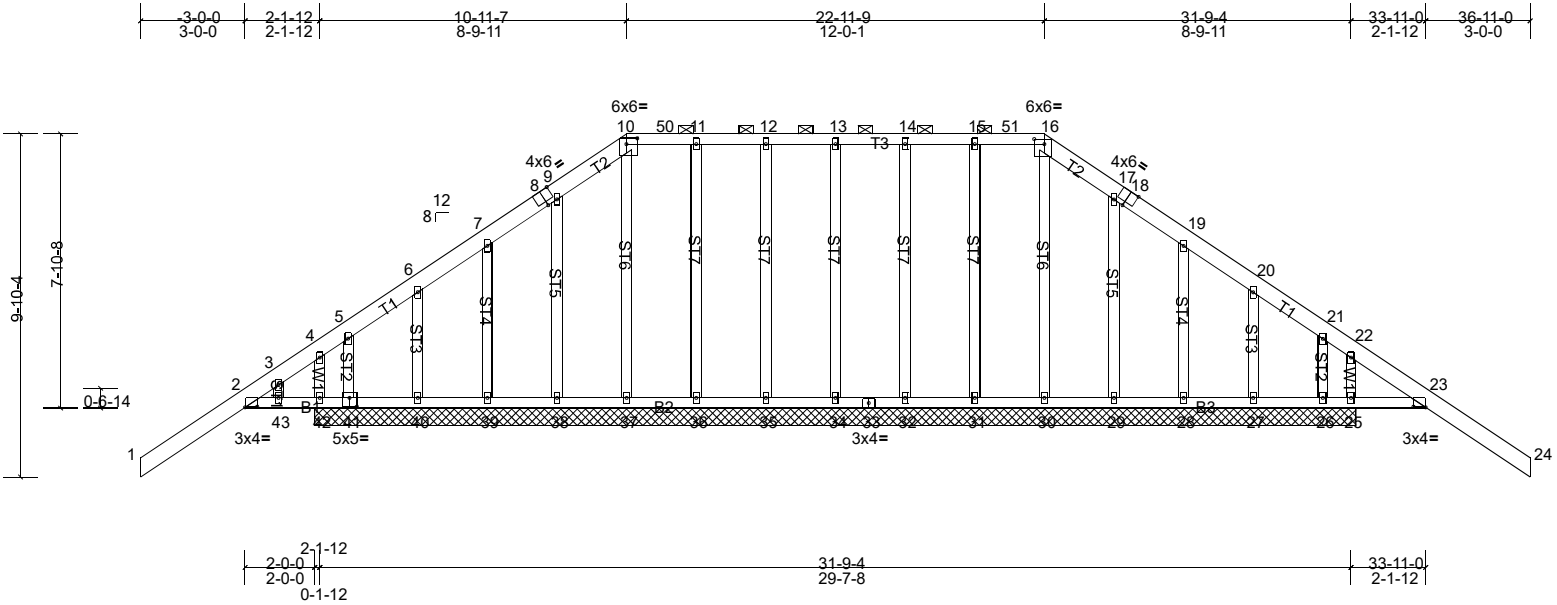
Job Q-2000853-1	Truss T1GE	Truss Type Piggyback Base Supported Gable	Qty 2	Ply 1	Jose Santiago-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:66.2

Plate Offsets (X, Y): [2:0-4-3,0-0-4], [8:0-3-0,Edge], [10:0-3-12,0-2-0], [16:0-3-8,0-1-12], [18:0-3-0,Edge], [23:0-4-3,0-0-4], [41:0-2-8,0-3-0]

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	0.35	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	25	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 273 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T3:2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 10-16.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 29-11-0.

(lb) - Max Horiz 42=-157 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 40 except 25=-161 (LC 20), 26=-386 (LC 21), 41=-411 (LC 20), 42=-173 (LC 21)
 Max Grav All reactions 250 (lb) or less at joint(s) 26, 27, 28, 29, 31, 32, 34, 35, 36, 38, 39, 40, 41 except 25=696 (LC 21), 30=387 (LC 1), 37=387 (LC 1), 42=713 (LC 20)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-327/487, 3-4=-261/504, 4-5=-218/394, 5-6=-216/510, 6-7=-164/507, 7-8=-115/501, 8-9=-103/513, 9-10=-62/497, 10-50=-25/395, 11-50=-25/397, 11-12=-24/395, 12-13=-24/395, 13-14=-24/395, 14-15=-24/395, 15-51=-25/397, 16-51=-25/395, 16-17=-62/497, 17-18=-103/514, 18-19=-115/501, 19-20=-165/508, 20-21=-215/506, 21-22=-222/397, 22-23=-259/507
 BOT CHORD 2-43=-396/342, 42-43=-396/342, 41-42=-396/342, 40-41=-394/341, 39-40=-394/341, 38-39=-394/341, 37-38=-394/341, 36-37=-395/341, 35-36=-395/341, 34-35=-395/341, 33-34=-395/341, 32-33=-395/341, 31-32=-395/341, 30-31=-395/341, 29-30=-395/341, 28-29=-395/341, 27-28=-395/341, 26-27=-395/341, 25-26=-395/341, 23-25=-395/341
 WEBS 16-30=-347/64, 10-37=-347/64, 5-41=-222/252, 22-25=-450/193, 4-42=-458/192

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 31, 32, 34, 35, 36, 37, 38, 39, 40, 29, 28, 27 except (jt=lb) 41=411, 26=385, 25=161, 42=173.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job Q-2000853-1	Truss T1GE	Truss Type Piggyback Base Supported Gable	Qty 2	Ply 1	Jose Santiago-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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11) 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