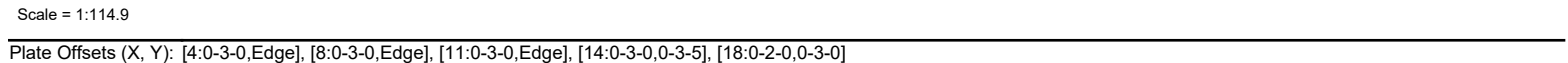


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<b>LUMBER</b>		<b>WEBS</b>	5-18=-848/439, 6-18=-688/248,	<b>LOAD CASE(S)</b>	Standard
TOP CHORD	2x6 SP No.1 *Except* T6:2x4 SP No.1		7-18=-1332/420, 7-20=0/291, 7-22=-85/376,		
BOT CHORD	2x6 SP No.1		5-16=-163/738, 3-16=-475/353,		
WEBS	2x4 SP No.2 *Except* W5:2x6 SP No.1		10-24=-1257/413, 12-24=-574/352,		
<b>BRACING</b>			12-25=-282/633, 13-25=-310/213		

**REACTIONS** All bearings 0-3-8.

(lb) - Max Horiz 2=243 (LC 16)

Max Uplift All uplift 100 (lb) or less at joint(s)  
except 2=-174 (LC 12), 14=-141  
(LC 9), 18=-452 (LC 12), 24=-427  
(LC 13)

Max Grav All reactions 250 (lb) or less at joint  
(s) except 2=717 (LC 25), 14=454  
(LC 26), 18=2605 (LC 1), 24=1761  
(LC 26)

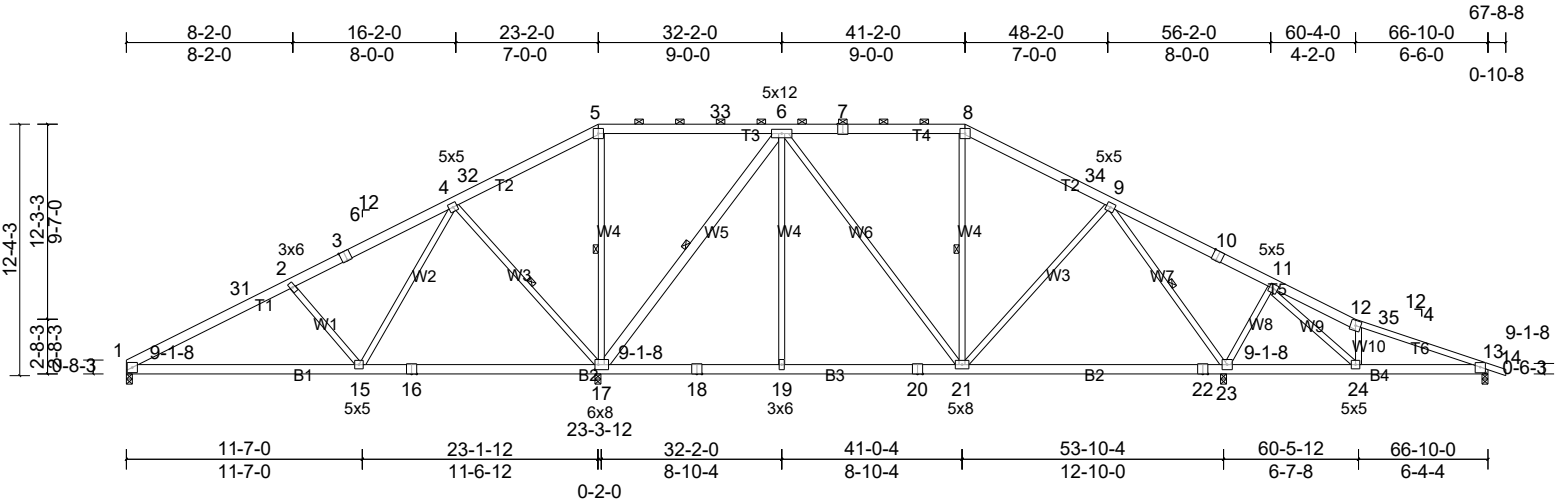
WEBS                    5-18=-848/439, 6-18=-688/248,  
7-18=-1332/420, 7-20=0/291, 7-22=-85/376,  
5-16=-163/738, 3-16=-475/353,  
10-24=-1257/413, 12-24=-574/352,  
12-25=-282/633, 13-25=-310/213

**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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-10 to 5-3-6, Interior (1) 5-3-6 to 23-2-0, Exterior(2R) 23-2-0 to 29-2-0, Interior (1) 29-2-0 to 41-2-0, Exterior(2R) 41-2-0 to 47-2-0, Interior (1) 47-2-0 to 67-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 6x6 (=) MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 2, 451 lb uplift at joint 18, 141 lb uplift at joint 14 and 426 lb uplift at joint 24.
- 9) 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	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	A1A	Piggyback Base	2	1	Job Reference (optional)



Scale = 1:113.6

Plate Offsets (X, Y): [3:0-3-0,Edge], [7:0-3-0,Edge], [10:0-3-0,Edge], [13:0-3-0,0-3-5], [17:0-2-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.13	21-23	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.26	21-23	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	23	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.06	15-27	>999	240	Weight: 510 lb	FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1 \*Except\* T6:2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\* W5:2x6 SP No.1

**WEBS**  
4-17=-849/439, 5-17=-688/248,  
6-17=-1332/420, 6-19=0/291, 6-21=-85/376,  
4-15=-176/738, 2-15=-477/365,  
9-23=-1257/413, 11-23=-574/352,  
11-24=-282/633, 12-24=-310/213

**LOAD CASE(S)** Standard

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17,23-24.  
WEBS 1 Row at midpt 4-17, 5-17, 6-17, 8-21, 9-23

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

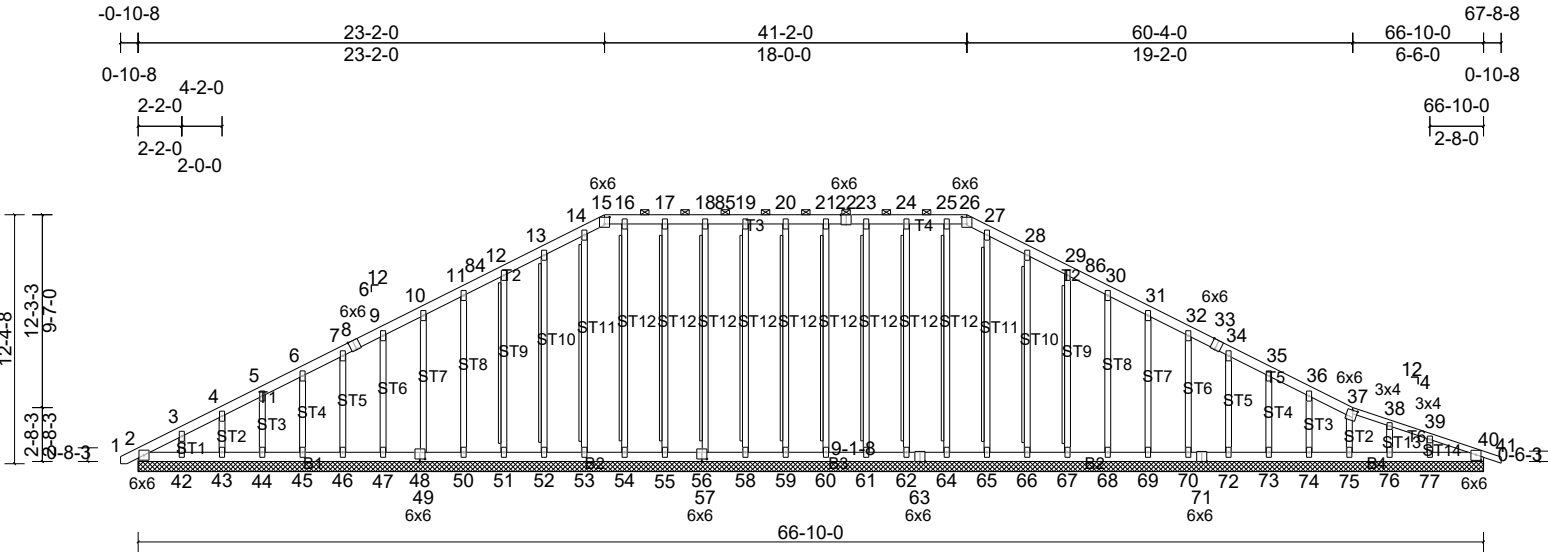
**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-0-0, Interior (1) 6-0-0 to 23-2-0, Exterior(2R) 23-2-0 to 29-2-0, Interior (1) 29-2-0 to 41-2-0, Exterior(2R) 41-2-0 to 47-2-0, Interior (1) 47-2-0 to 67-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/ bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

**REACTIONS** All bearings 0-3-8.  
(lb) - Max Horiz 1=-250 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-154 (LC 12), 13=-141 (LC 9), 17=-451 (LC 12), 23=-427 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) except 1=674 (LC 25), 13=454 (LC 26), 17=2605 (LC 1), 23=1761 (LC 26)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-31=-885/309, 2-31=-726/331, 2-3=-601/255, 3-4=-490/293, 4-32=-45/493, 5-32=-22/667, 5-33=0/525, 6-33=0/525, 6-7=-585/430, 7-8=-585/430, 8-34=-657/401, 9-34=-764/366, 9-10=0/406, 10-11=0/264, 11-12=-557/289, 12-35=-455/180, 13-35=-538/170  
BOT CHORD 1-15=-319/740, 15-16=-76/254, 16-17=-76/254, 17-18=0/413, 18-19=0/413, 19-20=0/413, 20-21=0/413, 21-22=0/471, 22-23=0/471, 13-24=-60/455

4) Provide adequate drainage to prevent water ponding.  
5) All plates are 6x6 (=) MT20 unless otherwise indicated.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
7) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.  
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 1, 451 lb uplift at joint 17, 141 lb uplift at joint 13 and 426 lb uplift at joint 23.  
9) 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	Temms Residence
251198-A	A1GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)



Scale = 1:114.9									
Plate Offsets (X, Y): [8:0-3-0,Edge], [15:0-3-0,0-4-0], [22:0-3-0,Edge], [26:0-3-0,0-4-0], [33:0-3-0,Edge], [37:0-3-0,0-0-4], [40:0-3-0,0-3-5], [48:0-3-0,0-1-8], [56:0-3-0,0-1-8]									
<b>Loading</b>		(psf)	<b>Spacing</b>		2-0-0	<b>CSI</b>		<b>DEFL</b>	in (loc)
TCLL (roof)		20.0	Plate Grip DOL		1.15	TC		Vert(LL)	n/a
TCDL		10.0	Lumber DOL		1.15	BC		Vert(CT)	n/a
BCLL		0.0*	Rep Stress Incr		YES	WB		Horz(CT)	0.01
BCDL		10.0	Code		IRC2021/TPI2014	Matrix-MS			
								<b>PLATES</b>	<b>GRIP</b>
								MT20	244/190
								Weight: 669 lb FT = 25%	

**LUMBER**

TOP CHORD 2x6 SP No.1 \*Except\* T6:2x4 SP No.1

BOT CHORD 2x6 SP No.1

OTHERS 2x4 SP No.2 \*Except\* O1,O2,O3,O4,O5,O6,O7:2x4 SPF No.2(flat)

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 15-26.

BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

WEBS T-Brace: 2x4 SPF No.2 - 12-51, 13-52, 14-53, 16-54, 17-55, 18-57, 19-58, 20-59, 21-60, 23-61, 24-62, 25-64, 27-65, 28-66, 29-67

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.

**REACTIONS**

All bearings 66-10-0.

(lb) - Max Horiz 2=243 (LC 16)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 40, 43, 44, 45, 46, 47, 49, 50, 51, 52, 55, 57, 58, 59, 60, 61, 62, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77 except 42=121 (LC 12)

Max Grav All reactions 250 (lb) or less at joint (s) 2, 40, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77

**FORCES**

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

- TOP CHORD**

2-3=-334/119, 3-4=-277/115, 10-11=-88/252, 11-84=-108/287, 12-84=-92/297, 12-13=-129/349, 13-14=-150/399, 14-15=-153/399, 15-16=-143/395, 16-17=-143/395, 17-18=-143/395, 18-85=-143/395, 19-85=-143/395, 19-20=-143/395, 20-21=-143/395, 21-22=-143/395, 22-23=-143/395, 23-24=-143/395, 24-25=-143/395, 25-26=-143/395, 26-27=-153/391, 27-28=-150/367, 28-29=-129/307, 29-86=-92/256, 30-86=-108/250
- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-8-10 to 5-3-6, Exterior(2N) 5-3-6 to 23-2-0, Corner(3R) 23-2-0 to 29-2-0, Exterior(2N) 29-2-0 to 41-2-0, Corner(3R) 41-2-0 to 47-2-0, Exterior (2N) 47-2-0 to 67-8-8 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

5) Provide adequate drainage to prevent water ponding.

6) All plates are 3x6 (||) MT20 unless otherwise indicated.

7) Gable requires continuous bottom chord bearing.

8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

10) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 40, 43, 44, 45, 46, 47, 49, 50, 51, 52, 55, 57, 58, 59, 60, 61, 62, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 2, 40, 2 except (it=lb) 42=121.

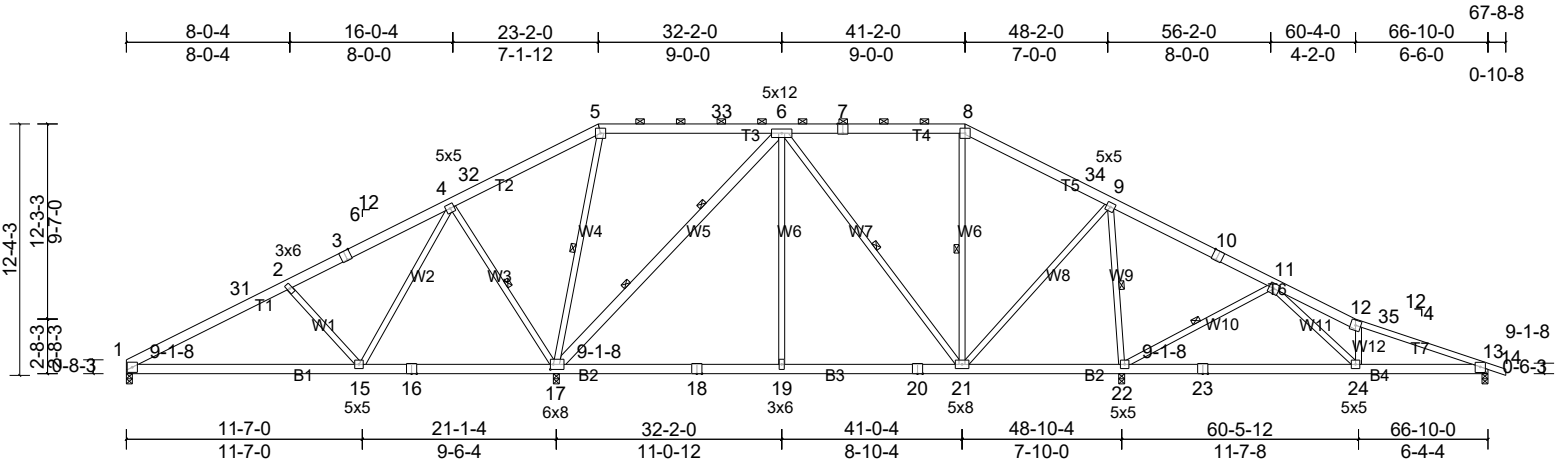
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- LOAD CASE(S)**

Standard

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	A2	Piggyback Base	3	1	Job Reference (optional)



Scale = 1:113.6

Plate Offsets (X, Y): [3:0-3-0,Edge], [7:0-3-0,Edge], [10:0-3-0,Edge], [13:0-3-0,0-3-5], [17:0-1-11,0-3-0]

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	0.41	Vert(LL)	-0.09	22-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.18	15-27	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.05	15-27	>999	240	Weight: 515 lb	FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1 \*Except\* T7:2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\* W5:2x6 SP No.1

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17,21-22.  
WEBS 1 Row at midpt 6-21, 8-21, 9-22, 11-22, 5-17, 4-17  
WEBS 2 Rows at 1/3 pts 6-17

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

**REACTIONS** All bearings 0-3-8.  
(lb) - Max Horiz 1=-250 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-129 (LC 12), 13=-179 (LC 13), 17=-464 (LC 12), 22=-428 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) except 1=603 (LC 25), 13=576 (LC 26), 17=2288 (LC 1), 22=2013 (LC 26)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-31=-734/262, 2-31=-578/284, 2-3=-438/197, 3-4=-327/236, 4-32=-36/485, 5-32=-14/662, 5-33=0/399, 6-33=0/399, 6-7=-239/367, 7-8=-239/367, 8-34=-272/333, 9-34=-381/298, 9-10=-13/568, 10-11=-34/427, 11-12=-993/402, 12-35=-870/287, 13-35=-953/277  
BOT CHORD 1-15=-282/614, 15-16=-145/275, 16-17=-145/275, 17-18=-7/397, 18-19=-7/397, 19-20=-7/397, 20-21=-7/397, 21-22=-324/277, 22-23=-47/295, 23-24=-47/295, 13-24=-162/848

**WEBS** 6-17=-974/294, 6-19=0/424, 8-21=-319/129, 9-21=-89/808, 9-22=-1421/488, 11-22=-780/395, 12-24=-357/230, 5-17=-697/254, 4-17=-813/440, 4-15=-188/673, 2-15=-482/363, 11-24=-201/824

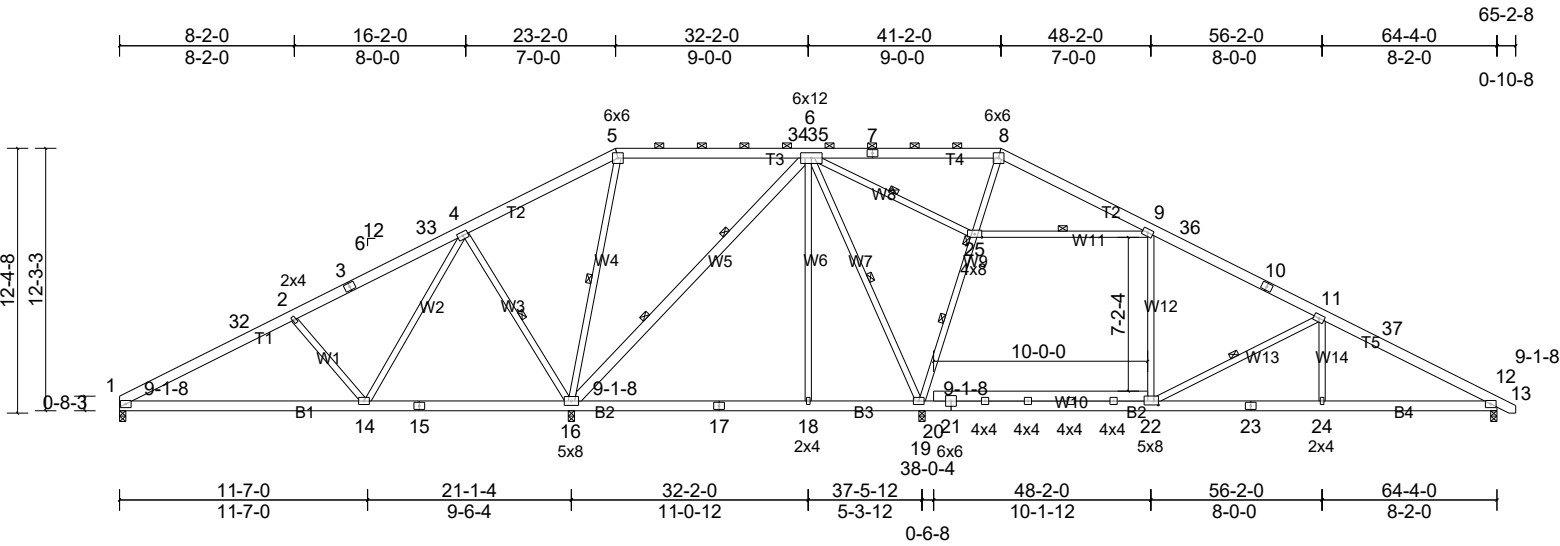
**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-0-0, Interior (1) 6-0-0 to 23-2-10, Exterior(2R) 23-2-10 to 29-2-10, Interior (1) 29-2-10 to 41-2-0, Exterior(2R) 41-2-0 to 47-2-0, Interior (1) 47-2-0 to 67-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/ bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

4) Provide adequate drainage to prevent water ponding.  
5) All plates are 6x6 (=) MT20 unless otherwise indicated.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
7) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.  
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 22, 463 lb uplift at joint 17, 129 lb uplift at joint 1 and 178 lb uplift at joint 13.

9) 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	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	A3	Piggyback Base	4	1	Job Reference (optional)



Scale = 1:108.1

Plate Offsets (X, Y): [22:0-2-8,0-2-4], [25:0-4-0,0-1-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.10	22-24	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.21	22-24	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	12	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.13	22-24	>999	240	Weight: 536 lb FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\* W5,W10:2x6 SP No.1

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-8.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-18,18-19.  
WEBS 1 Row at midpt 4-16, 5-16, 6-19, 19-25, 11-22, 6-25, 9-25  
WEBS 2 Rows at 1/3 pts 6-16  
JOINTS 1 Brace at Jt(s): 25

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

**REACTIONS** All bearings 0-3-8.  
(lb) - Max Horiz 1=-249 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-134 (LC 12), 12=-311 (LC 13), 16=-573 (LC 12), 19=-440 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) except 1=701 (LC 1), 12=1014 (LC 26), 16=1756 (LC 25), 19=1935 (LC 26)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-32=-934/228, 2-32=-774/249, 2-3=-649/194, 3-33=-537/212, 4-33=-466/233, 4-5=-28/444, 5-34=-16/262, 6-34=-16/262, 6-35=-247/1477, 7-35=-247/1477, 7-8=-247/1477, 8-9=-258/1397, 9-36=-667/374, 10-36=-728/354, 10-11=-843/336, 11-37=-1399/506, 12-37=-1583/484  
BOT CHORD 1-14=-287/784, 16-17=-116/286, 17-18=-116/286, 18-19=-117/285, 19-20=-13/652, 20-21=-13/652, 21-22=-13/652, 22-23=-324/1335, 23-24=-324/1335, 12-24=-324/1335

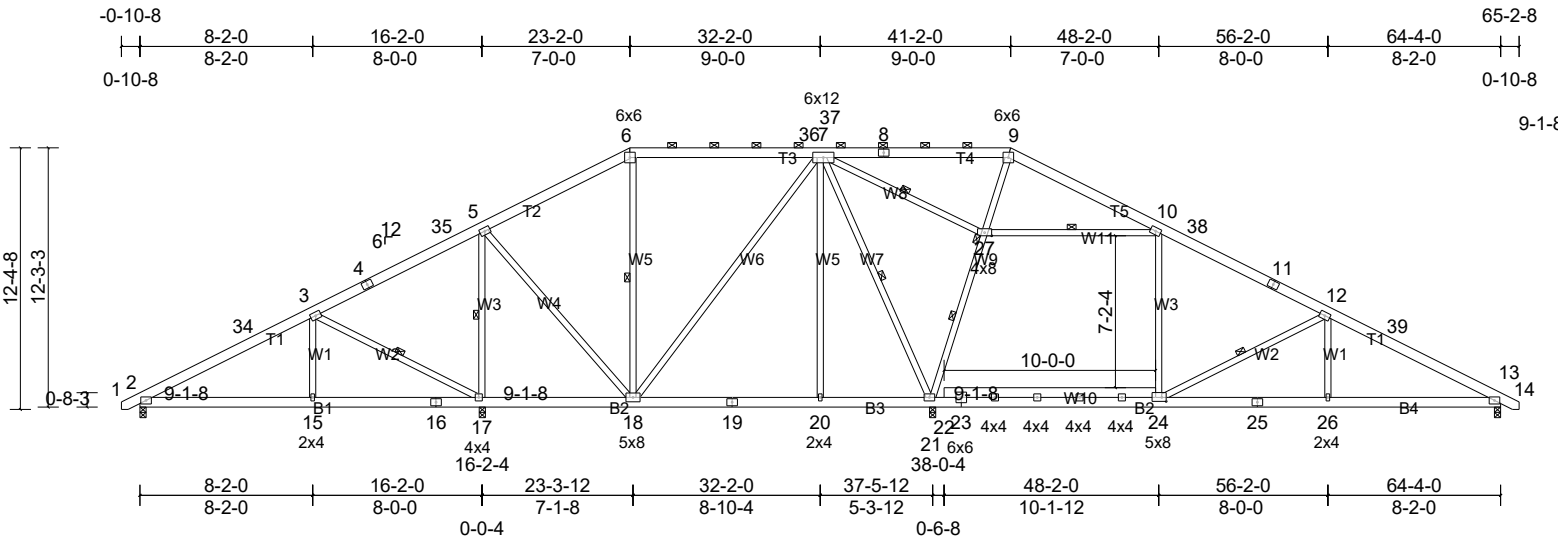
**WEBS** 2-14=-480/346, 4-16=-805/432, 6-16=-375/163, 6-18=0/330, 11-24=0/339, 5-16=-593/265, 4-14=-177/683, 6-19=-202/346, 19-25=-1916/720, 8-25=-1071/385, 9-22=-23/631, 11-22=-777/352, 6-25=-1691/670, 9-25=-1783/706

**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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-0-0, Interior (1) 6-0-0 to 23-2-10, Exterior(2R) 23-2-10 to 31-8-8, Interior (1) 31-8-8 to 41-1-6, Exterior(2R) 41-1-6 to 49-7-3, Interior (1) 49-7-3 to 65-0-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/ bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

4) Provide adequate drainage to prevent water ponding.  
5) All plates are 4x6 (=) MT20 unless otherwise indicated.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
7) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.  
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1, 573 lb uplift at joint 16, 311 lb uplift at joint 12 and 439 lb uplift at joint 19.

9) 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	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	A4	Piggyback Base	2	1	Job Reference (optional)



Scale = 1:109.4

Plate Offsets (X, Y): [24:0-2-8,0-2-4], [27:0-4-0,0-1-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.10	24-26	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.20	24-26	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.13	24-26	>999	240	Weight: 533 lb	FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\* W10:2x6 SP No.1

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18.  
WEBS 1 Row at midpt 3-17, 5-17, 6-18, 7-21, 21-27, 12-24, 7-27, 10-27  
JOINTS 1 Brace at Jt(s): 27

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

**WEBS**  
3-15=0/345, 3-17=-764/340, 5-17=-954/382, 5-18=-59/450, 6-18=-303/157, 7-20=0/256, 7-21=-516/365, 21-27=-1919/723, 9-27=-1068/384, 10-24=-24/627, 12-24=-776/352, 12-26=0/339, 7-27=-1691/673, 10-27=-1782/709

**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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-10 to 5-3-6, Interior (1) 5-3-6 to 23-2-0, Exterior(2R) 23-2-0 to 31-7-13, Interior (1) 31-7-13 to 41-1-6, Exterior(2R) 41-1-6 to 49-7-3, Interior (1) 49-7-3 to 65-0-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

9) 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

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

**TOP CHORD**  
2-34=-830/193, 3-34=-646/215, 5-6=-405/290, 6-36=-279/303, 7-36=-279/303, 7-37=-249/1481, 8-37=-249/1481, 8-9=-249/1481, 9-10=-260/1401, 10-38=-655/375, 11-38=-717/355, 11-12=-831/336, 12-39=-1388/506, 13-39=-1571/484

**BOT CHORD**  
2-15=-248/665, 15-16=-248/665, 16-17=-248/665, 18-19=-87/280, 19-20=-87/280, 20-21=-89/279, 21-22=-14/641, 22-23=-14/641, 23-24=-14/641, 24-25=-324/1324, 25-26=-324/1324, 13-26=-324/1324

**WEBS**  
3-15=0/345, 3-17=-764/340, 5-17=-954/382, 5-18=-59/450, 6-18=-303/157, 7-20=0/256, 7-21=-516/365, 21-27=-1919/723, 9-27=-1068/384, 10-24=-24/627, 12-24=-776/352, 12-26=0/339, 7-27=-1691/673, 10-27=-1782/709

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Plate Offsets (X, Y): [2:0-3-7.0-0-2], [2:0-0-10.1-3-5], [9:0-2-12.0-3-0], [17:0-2-8.0-0-8], [18:0-3-0.0-4-12], [25:0-2-8.0-2-4], [28:0-4-0.0-1-13]

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WEBS 6-19=-372/187, 3-16=0/325, 5-18=-1204/476,  
5-19=-81/630, 10-25=-25/627, 12-27=0/340,  
12-25=-779/352, 22-28=-1942/727,  
9-28=-1092/388, 7-22=-436/376,  
3-18=-795/363, 7-28=-1689/674,  
10-28=-1780/710

## JOINTS 1 Brace at Jt(s): 28

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDFL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-10 to 5-3-6, Interior (1) 5-3-6 to 2-3-2-0, Exterior(2R) 2-3-2-0 to 31-7-13, Interior (1) 31-7-13 to 41-1-6, Exterior(2R) 41-1-6 to 49-7-3, Interior (1) 49-7-3 to 65-0-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

**BOT CHORD** 2-15=124/360, 15-16=124/360,  
16-17=124/360, 17-18=134/331,  
18-19=298/222, 19-20=113/283,  
20-21=113/281, 21-22=115/280,  
22-23=8/620, 23-24=8/620, 24-25=8/620,  
25-26=319/1305, 26-27=319/1305,  
13-27=319/1305

- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 (=) MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2 except (jt=lb) 18=550, 22=458, 13=308.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

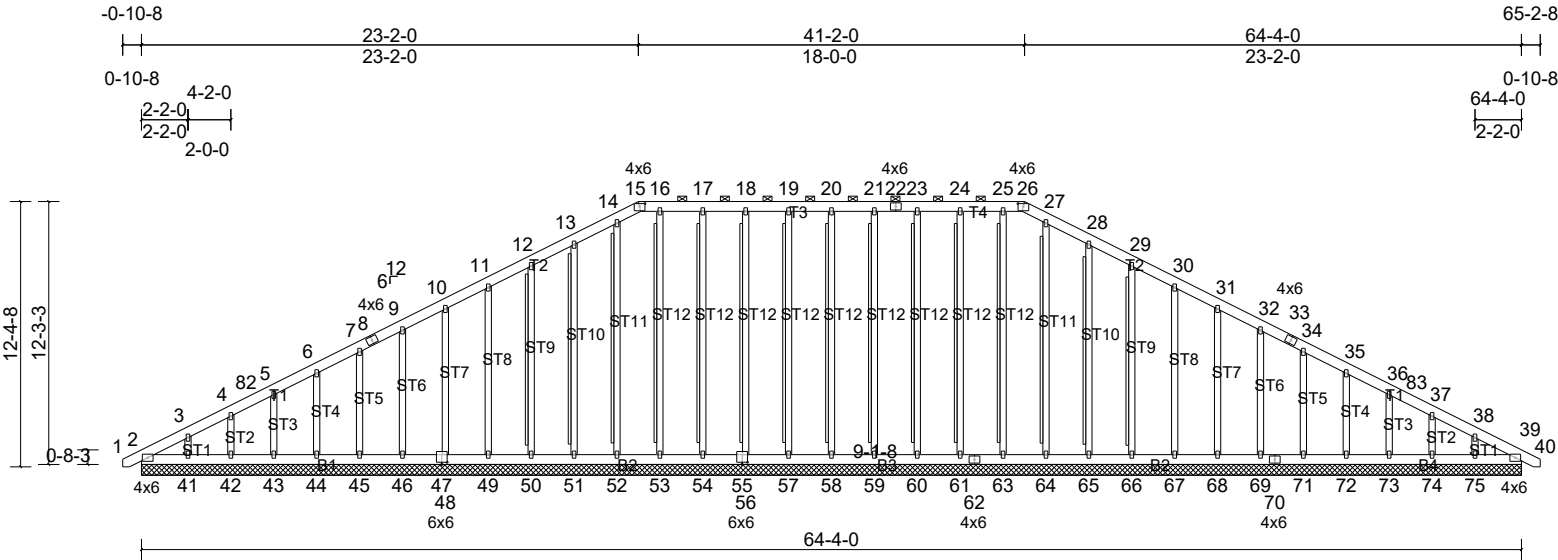
Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	A4GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)

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Scale = 1:107.9

Plate Offsets (X, Y): [15:0-3-0,0-1-9], [26:0-3-0,0-1-9], [47:0-3-0,0-1-4], [55:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	39	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 662 lb FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2 \*Except\*  
O4,O3,O2,O1,O5,O6,O7:2x4 SPF No.2(flat)

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 15-26.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.  
WEBS T-Brace:

2x4 SPF No.2 - 20-58, 19-57, 18-56, 17-54, 16-53, 14-52, 13-51, 12-50, 21-59, 23-60, 24-61, 25-63, 27-64, 28-65, 29-66

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.

**REACTIONS** All bearings 64-4-0.  
(lb) - Max Horiz 2=242 (LC 16)  
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 42, 43, 44, 45, 46, 48, 49, 50, 51, 53, 54, 56, 57, 58, 59, 60, 61, 65, 66, 67, 68, 69, 71, 72, 73, 74 except 41=122 (LC 12), 75=108 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) 2, 39, 41, 42, 43, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75

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

**TOP CHORD** 2-3=-336/111, 3-4=-279/108, 11-12=-106/298, 4) 12-13=-127/358, 13-14=-148/418, 14-15=-151/420, 15-16=-142/418, 16-17=-142/418, 17-18=-142/418, 18-19=-142/418, 19-20=-142/418, 20-21=-142/418, 21-22=-142/418, 22-23=-142/418, 23-24=-142/418, 24-25=-142/418, 25-26=-142/418, 26-27=-151/420, 27-28=-148/418, 28-29=-127/358, 29-30=-106/298  
**BOT CHORD** 2-41=-71/272, 41-42=-71/272, 42-43=-71/272, 43-44=-71/272, 44-45=-71/272, 45-46=-71/272, 46-47=-71/272, 47-48=-71/272, 48-49=-71/272, 49-50=-71/272, 50-51=-71/272, 51-52=-71/272, 52-53=-71/272, 53-54=-71/272, 54-55=-71/272, 55-56=-71/272, 56-57=-71/272, 57-58=-71/272, 58-59=-71/272, 59-60=-71/272, 60-61=-71/272, 61-62=-71/272, 62-63=-71/272, 63-64=-71/272, 64-65=-71/272, 65-66=-71/272, 66-67=-71/272, 67-68=-71/272, 68-69=-71/272, 69-70=-71/272, 70-71=-71/272, 71-72=-71/272, 72-73=-71/272, 73-74=-71/272, 74-75=-71/272, 39-75=-71/272

#### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-10 to 5-3-6, Exterior(2N) 5-3-6 to 23-2-10, Corner(3R) 23-2-10 to 29-2-10, Exterior(2N) 29-2-10 to 41-1-6, Corner(3R) 41-1-6 to 47-1-6, Exterior (2N) 47-1-6 to 65-0-10 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.

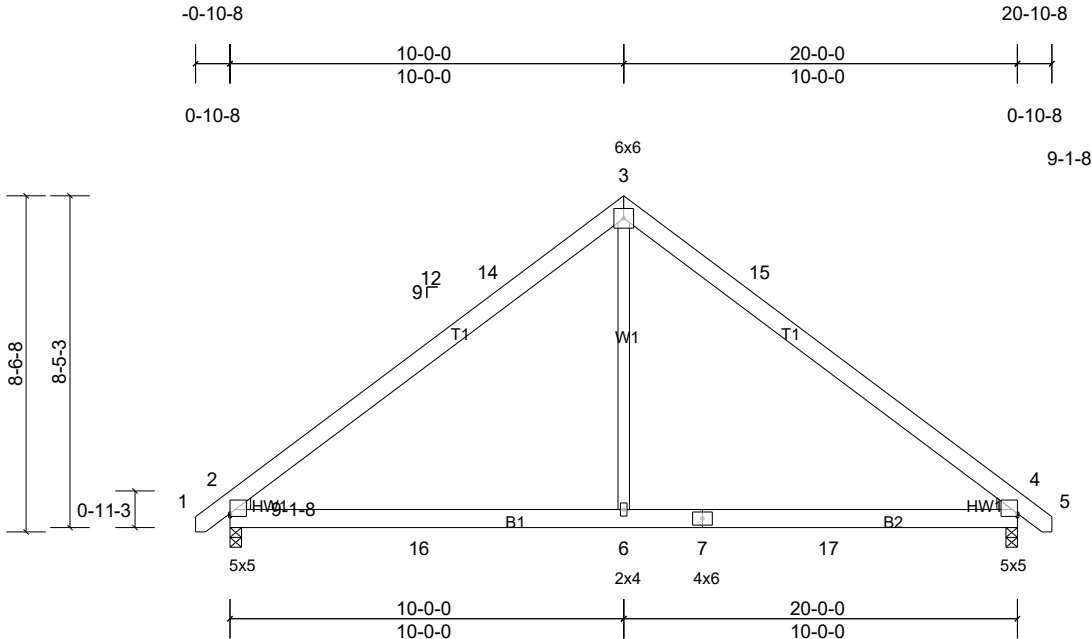
**WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

- 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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, 58, 57, 56, 54, 53, 51, 50, 49, 48, 46, 45, 44, 43, 42, 59, 60, 61, 65, 66, 67, 68, 69, 71, 72, 73, 74, 2 except (jt=lb) 41=121, 75=107.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	G1	Common	7	1	Job Reference (optional)



Scale = 1:58.8

Plate Offsets (X, Y): [2:Edge,0-0-14], [4:Edge,0-0-14]

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	6-10	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.14	6-10	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.02	2	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	6-10	>999	240	Weight: 123 lb FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
WEDGE Left: 2x4 SP No.2  
Right: 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

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

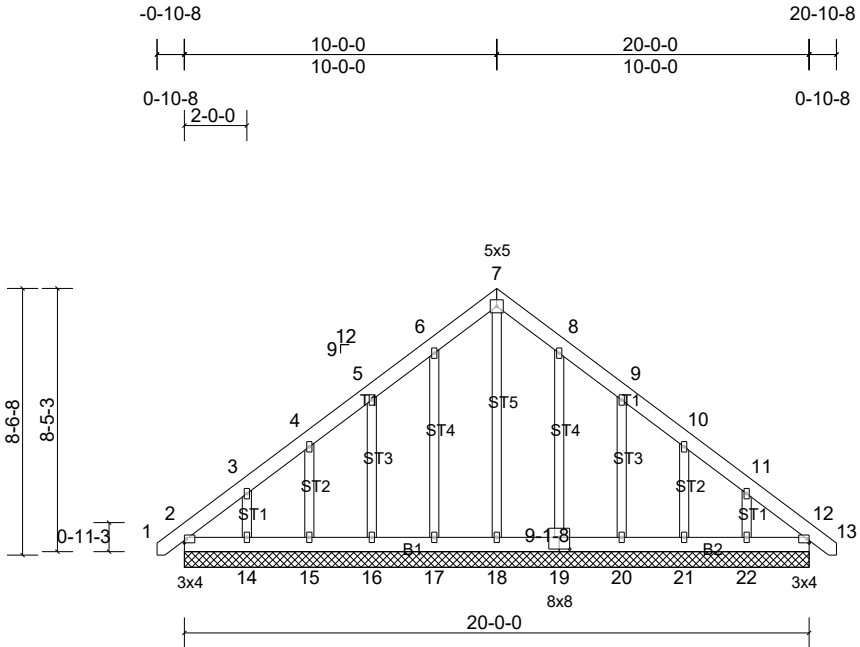
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 2 and 167 lb uplift at joint 4.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REACTIONS	(lb/size)	2=845/0-3-8, (min. 0-1-8), 4=845/0-3-8, (min. 0-1-8)
	Max Horiz	2=-242 (LC 10)
	Max Uplift	2=-167 (LC 12), 4=-167 (LC 13)
	Max Grav	2=1085 (LC 19), 4=1085 (LC 20)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-14=-1201/193, 3-14=-935/232, 3-15=-934/232, 4-15=-1201/193
BOT CHORD		2-16=-509/900, 6-16=-52/900, 6-7=-52/900, 7-17=-52/900, 4-17=-52/900
WEBS		3-6=0/784

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-0 to 2-3-0, Interior (1) 2-3-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 20-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf 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.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	G1GE	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:74.1

Plate Offsets (X, Y): [19:0-4-0,0-4-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 167 lb FT = 25%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.  

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

**REACTIONS** All bearings 20-0-0.  
(lb) - Max Horiz 2=-242 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s) 15, 17, 19, 22 except 2=-145 (LC 8), 14=-165 (LC 12), 16=-114 (LC 12), 20=-105 (LC 13), 21=-145 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) 2, 15, 16, 17, 19, 20, 21 except 14=251 (LC 19), 18=296 (LC 22), 22=307 (LC 1)

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

TOP CHORD 2-3=-235/266, 5-6=-105/253, 6-7=-137/283, 7-8=-137/283

WEBS 7-18=-254/40

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-9-0 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.

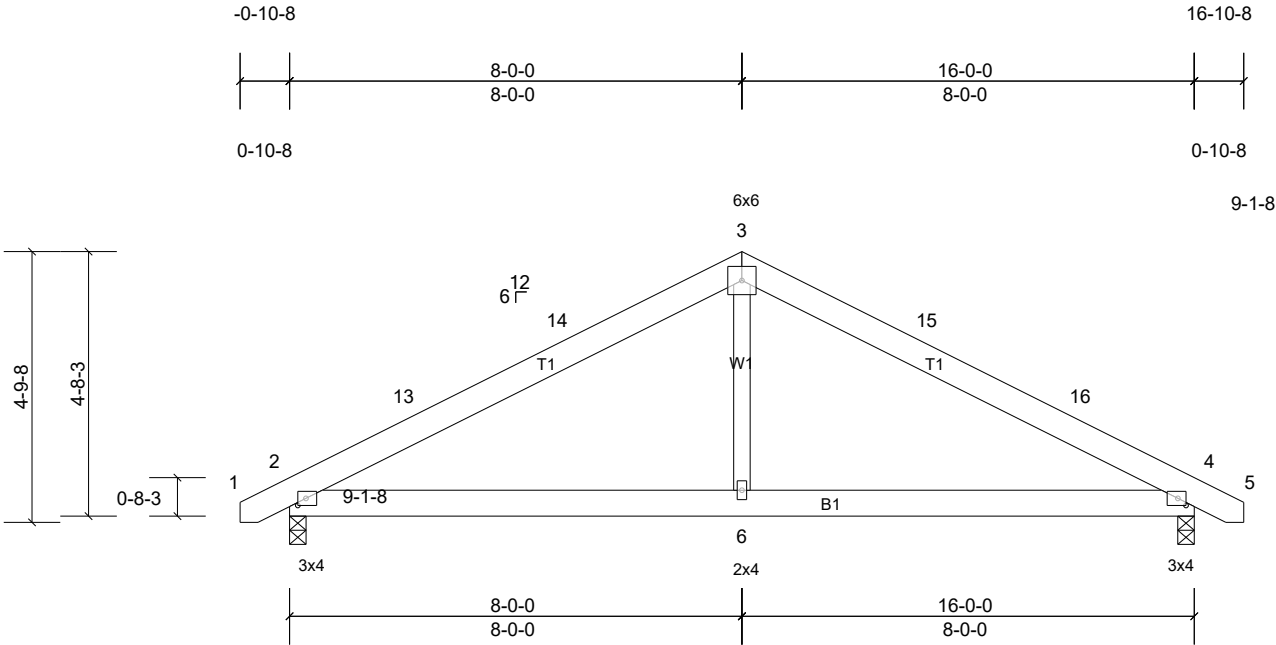
4) All plates are 2x4 (||) MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 17, 15, 19, 22 except (jt=lb) 2=144, 16=113, 14=165, 20=104, 21=145, 2=144.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	P1	Common	4	1	Job Reference (optional)



Scale = 1:40.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.03	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	6-9	>999	240	Weight: 90 lb	FT = 25%

LUMBER

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

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

REACTIONS (lb/size) 2=683/0-3-8, (min. 0-1-8),  
4=683/0-3-8, (min. 0-1-8)

Max Horiz 2=88 (LC 12)  
Max Uplift 2=-151 (LC 12), 4=-151 (LC 13)

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

TOP CHORD 2-13=-886/310, 13-14=-796/319,  
3-14=-767/340, 3-15=-767/341,  
15-16=-796/319, 4-16=-886/310

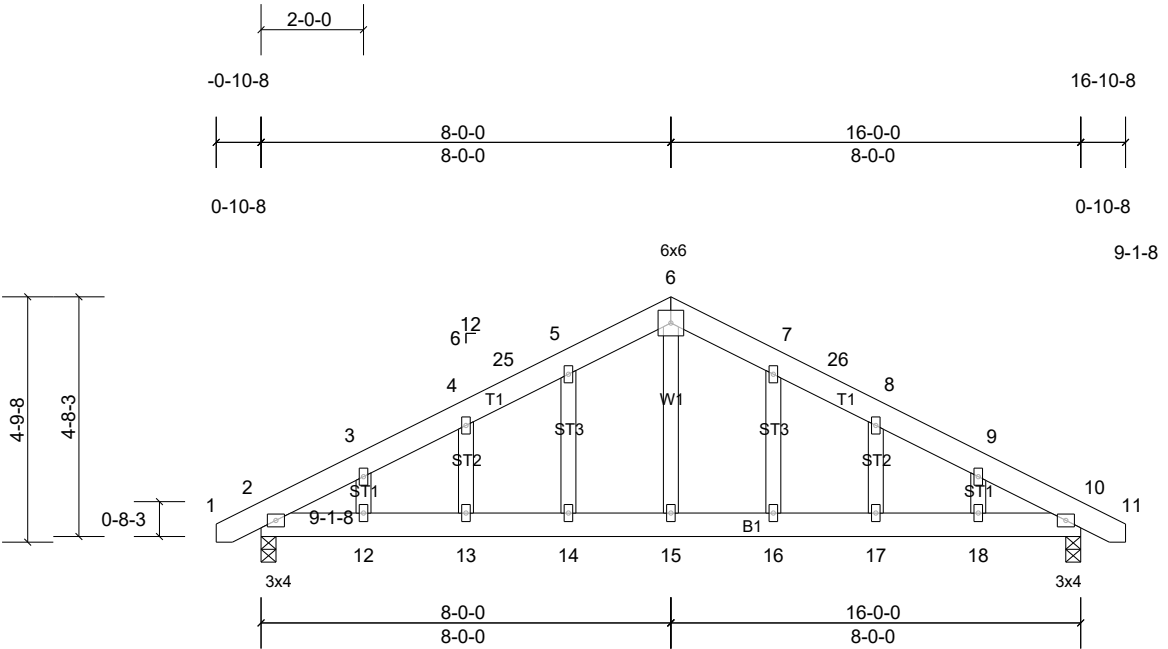
BOT CHORD 2-6=-152/712, 4-6=-152/712

WEBS 3-6=0/354

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-10 to 2-3-6, Interior (1) 2-3-6 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 16-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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 151 lb uplift at joint 2 and 151 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	P1GE	Common Structural Gable	1	1	Job Reference (optional)



Scale = 1:45.2

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	0.16	Vert(LL)	-0.04	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	13	>999	240	Weight: 106 lb	FT = 25%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.  

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

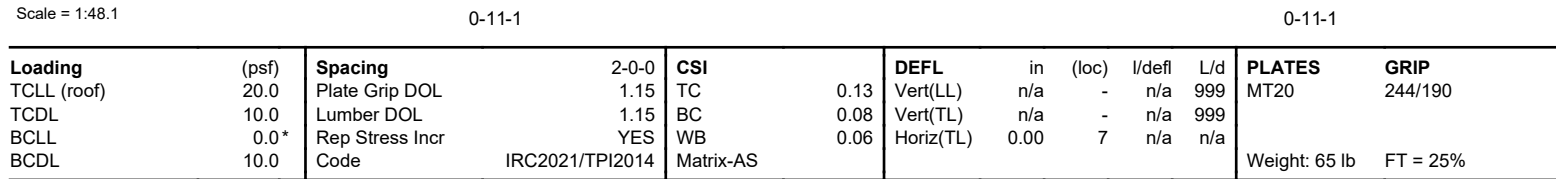
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2 and 151 lb uplift at joint 10.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

REACTIONS	(lb/size)	2=683/0-3-8, (min. 0-1-8), 10=683/0-3-8, (min. 0-1-8) Max Horiz 2=88 (LC 12) Max Uplift 2=-151 (LC 12), 10=-151 (LC 13)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-865/275, 3-4=-843/312, 4-25=-815/344, 5-25=-790/352, 5-6=-783/392, 6-7=-783/392, 7-26=-790/352, 8-26=-815/344, 8-9=-843/312, 9-10=-865/275	
BOT CHORD	2-12=-166/729, 12-13=-166/729, 13-14=-166/729, 14-15=-166/729, 15-16=-166/729, 16-17=-166/729, 17-18=-166/729, 10-18=-166/729	
WEBS	6-15=-143/347	

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-10 to 2-0-0, Interior (1) 2-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 16-8-10 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) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.

LOAD CASE(S) Standard

Comtech, Inc., Fayetteville, NC 28309, user Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Oct 29 10:53:34 Page: 1  
ID: Hlqmk32QS5DFiGbGE4ohlEyelgU-Lx3bIOIrxlukioRdx?pmhcE?cSytLFQSN6MjCoyOb6G



**REACTIONS** All bearings 18-0-0.  
(lb) - Max Horiz 1=87 (LC 16)  
Max Uplift All uplift 100 (lb) or less at joint(s) 6  
except 1=115 / 6 10=3=100 / 6

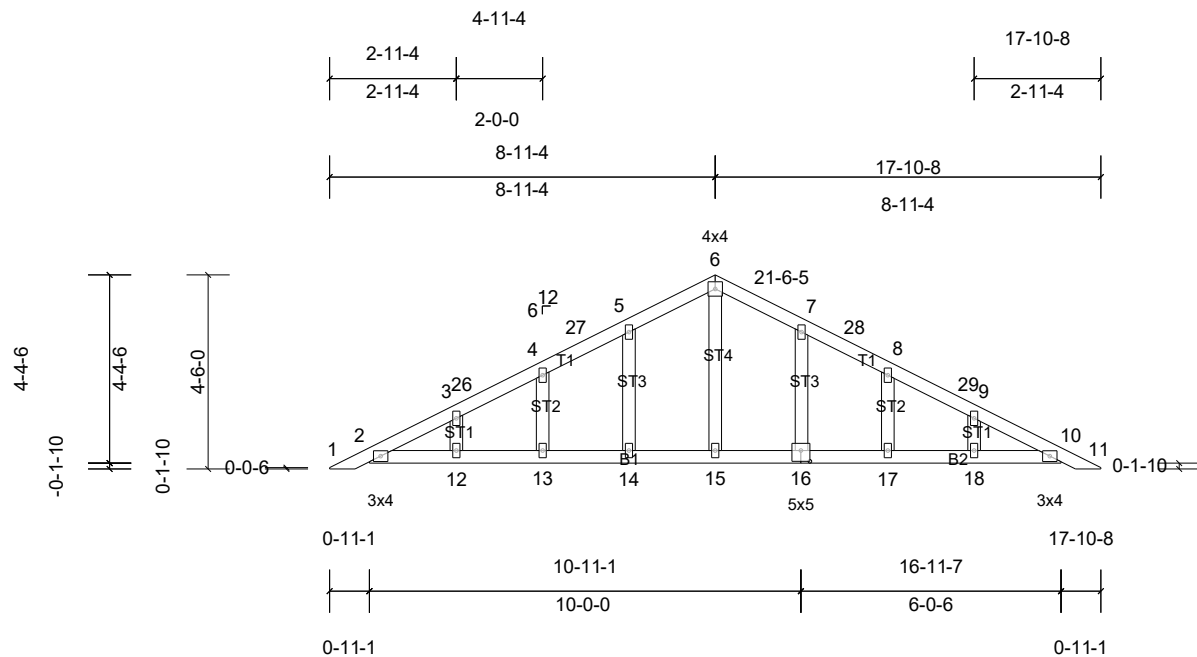
10) See Standard Industry Piggyback Truss Connection  
Detail for Connection to base truss as applicable, or  
consult qualified building designer.

**LOAD CASE(S)** Standard

	except 1=115 (LC 19), 2=109 (LC 12), 7=104 (LC 1), 8=155 (LC 12), 11=155 (LC 13)
Max Grav	All reactions 250 (lb) or less at joint (s) 1, 7 except 2=338 (LC 1), 6=324 (LC 1), 8=348 (LC 25), 9=265 (LC 1), 11=348 (LC 26)
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
<b>WEBS</b>	3-8=259/210, 5-11=259/210

- ### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-5 to 3-4-5, Interior (1) 3-4-5 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior (1) 12-0-0 to 17-7-11 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) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 4-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	PB1GE	Piggyback	2	1	Job Reference (optional)



Scale = 1:53.6

Plate Offsets (X, Y): [16:0-2-8,0-3-0]

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 75 lb	FT = 25%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.

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

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 14, 13, 12, 16, 17, 18, 10, 2, 10.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

REACTIONS

- All bearings 16-0-6.
- (lb) - Max Horiz 2=87 (LC 12)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 12, 13, 14, 16, 17, 18
- Max Grav All reactions 250 (lb) or less at joint (s) 2, 10, 12, 13, 14, 15, 16, 17, 18

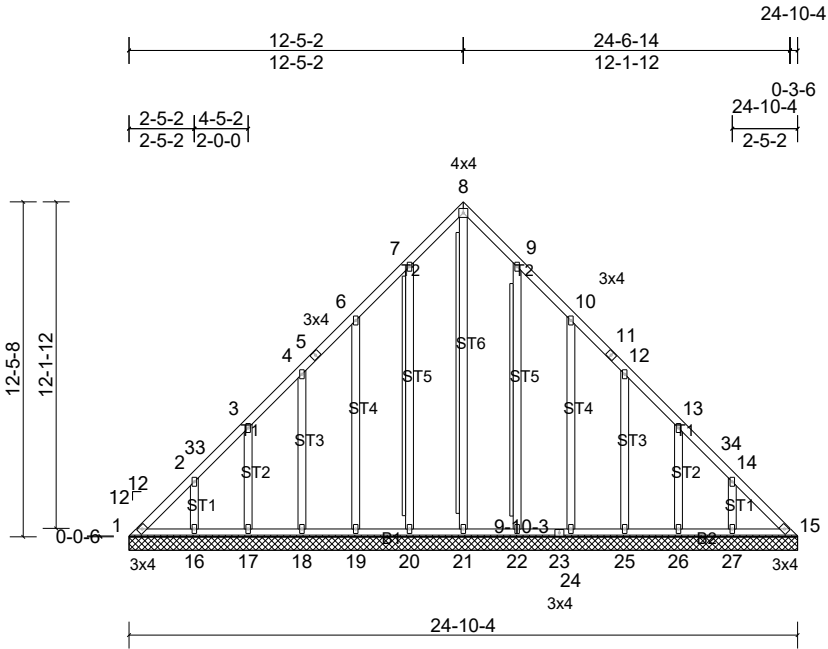
FORCES

- (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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-5 to 3-4-5, Interior (1) 3-4-5 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior (1) 12-0-0 to 17-7-11 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) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf 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.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA1	Valley	1	1	Job Reference (optional)



Scale = 1:86

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horiz(TL)	0.01	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 193 lb FT = 25%

**LUMBER**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.2 \*Except\* O2,O1,O3:2x4 SPF No.2(flat)

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 9-10-12 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 8-21, 7-20, 9-22  
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.

**REACTIONS** All bearings 24-10-4.  
(lb) - Max Horiz 1=-367 (LC 8)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
15, 27 except 1=-245 (LC 10),  
16=-137 (LC 12), 17=-141 (LC 12),  
18=-138 (LC 12), 19=-151 (LC 12),  
20=-121 (LC 12), 21=-108 (LC 11),  
22=-102 (LC 13), 24=-164 (LC 13),  
25=-111 (LC 13), 26=-240 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s)  
15, 16, 17, 18, 19, 20, 22, 24, 25, 26, 27 except 1=272 (LC 9), 21=711 (LC 13)

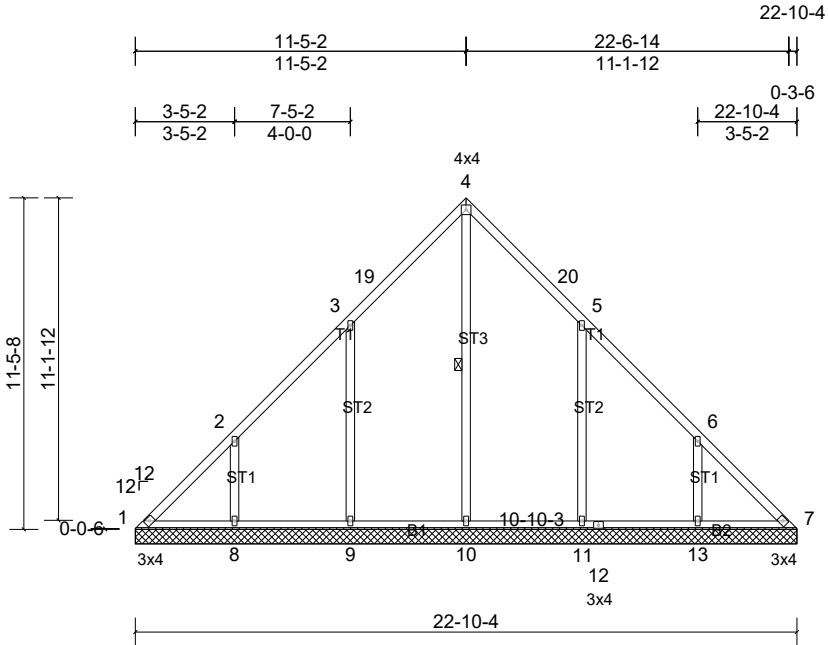
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-408/470, 2-33=-343/398,  
3-33=-335/424, 3-4=-289/387, 4-5=-252/410,  
5-6=-236/426, 6-7=-218/513, 7-8=-246/558,  
8-9=-246/535, 9-10=-184/427, 10-11=-81/285,  
11-12=-106/270  
WEBS 8-21=-686/230

**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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Exterior(2N) 3-0-6 to 12-5-8, Corner(3R) 12-5-8 to 15-5-8, Exterior(2N) 15-5-8 to 24-10-10 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) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 15, 27, 15 except (jt=lb) 1=245, 21=107, 20=120, 19=150, 18=137, 17=141, 16=136, 22=101, 24=164, 25=111, 26=240.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA2	Valley	1	1	Job Reference (optional)



Scale = 1:79.9

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
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 126 lb FT = 25%	

<b>LUMBER</b>			5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x4 SP No.1		6) * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
BOT CHORD	2x4 SP No.1		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 1, 304 lb uplift at joint 9, 260 lb uplift at joint 8, 318 lb uplift at joint 11 and 236 lb uplift at joint 13.
OTHERS	2x4 SP No.2		
<b>BRACING</b>			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.		
BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc bracing.		
WEBS	1 Row at midpt	4-10	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		

LOAD CASE(S) Standard

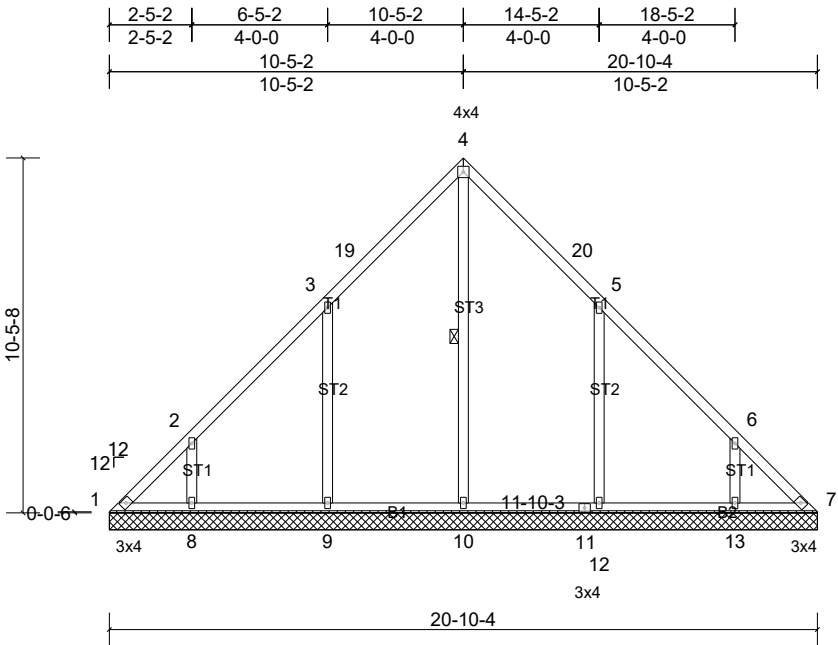
<b>REACTIONS</b>			All bearings 22-10-4.
	(lb) - Max Horiz	1=-337 (LC 8)	
	Max Uplift	All uplift 100 (lb) or less at joint(s) 7 except 1=-230 (LC 10), 8=-260 (LC 12), 9=-304 (LC 12), 11=-319 (LC 13), 13=-236 (LC 13)	
	Max Grav	All reactions 250 (lb) or less at joint (s) 1, 7 except 8=360 (LC 19), 9=411 (LC 19), 10=727 (LC 22), 11=404 (LC 20), 13=375 (LC 20)	
<b>FORCES</b>			(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-356/476, 2-3=-248/427, 3-19=-184/495, 4-19=-153/526, 4-20=-153/482, 5-20=-184/451, 5-6=-26/274		
WEBS	4-10=-644/70, 3-9=-334/355, 2-8=-269/291, 5-11=-329/359, 6-13=-278/284		

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 11-5-8, Exterior(2R) 11-5-8 to 14-5-8, Interior (1) 14-5-8 to 22-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 2x4 (||) MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.



Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA3	Valley	1	1	Job Reference (optional)

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Scale = 1:68.2

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 111 lb	FT = 25%

#### LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-10

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 7, 10, 7 except (jt=lb) 1=215, 9=312, 8=217, 12=334, 13=174.

LOAD CASE(S) Standard

#### REACTIONS

- All bearings 20-10-4.
- (lb) - Max Horiz 1=307 (LC 11)
- Max Uplift All uplift 100 (lb) or less at joint(s) 7, 10 except 1=-216 (LC 10), 8=-218 (LC 12), 9=-312 (LC 12), 12=-335 (LC 13), 13=-174 (LC 13)
- Max Grav All reactions 250 (lb) or less at joint (s) 1, 7 except 8=309 (LC 19), 9=420 (LC 19), 10=621 (LC 22), 12=415 (LC 20), 13=324 (LC 20)

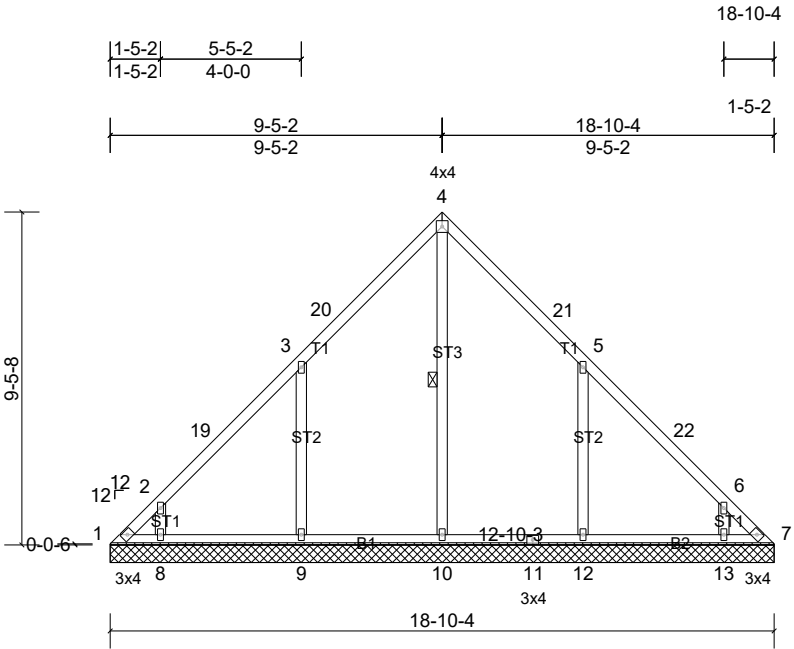
#### FORCES

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-352/414, 2-3=-273/361, 3-19=-216/458, 4-19=-185/489, 4-20=-185/445, 5-20=-216/415
- WEBS 4-10=-549/108, 3-9=-337/360, 2-8=-242/265, 5-12=-334/368, 6-13=-250/249

#### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 10-5-8, Exterior(2R) 10-5-8 to 13-5-8, Interior (1) 13-5-8 to 20-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA4	Valley	1	1	Job Reference (optional)



Scale = 1:65.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 97 lb	FT = 25%

**LUMBER**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-10

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

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 7, 10, 13, 7 except (jt=lb) 1=197, 9=313, 8=187, 12=351.

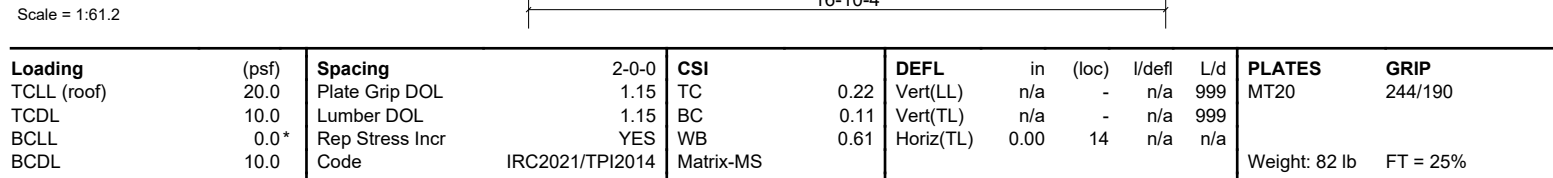
LOAD CASE(S) Standard

**REACTIONS** All bearings 18-10-4.  
(lb) - Max Horiz 1=-277 (LC 8)  
Max Uplift All uplift 100 (lb) or less at joint(s) 7, 10, 13 except 1=-197 (LC 10), 8=-188 (LC 12), 9=-314 (LC 12), 12=-352 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) 1, 7 except 8=292 (LC 19), 9=419 (LC 19), 10=491 (LC 13), 12=427 (LC 20), 13=289 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-353/335, 2-19=-293/268, 3-19=-242/289, 3-20=-244/377, 4-20=-213/408, 4-21=-214/365, 5-21=-245/334  
WEBS 4-10=-436/139, 3-9=-335/359, 2-8=-254/284, 5-12=-337/374

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 9-5-8, Exterior(2R) 9-5-8 to 12-5-8, Interior (1) 12-5-8 to 18-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.

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TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 5, 5 except (jt=lb) 1=135, 6=342, 9=332.

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	Structural wood sheathing 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.

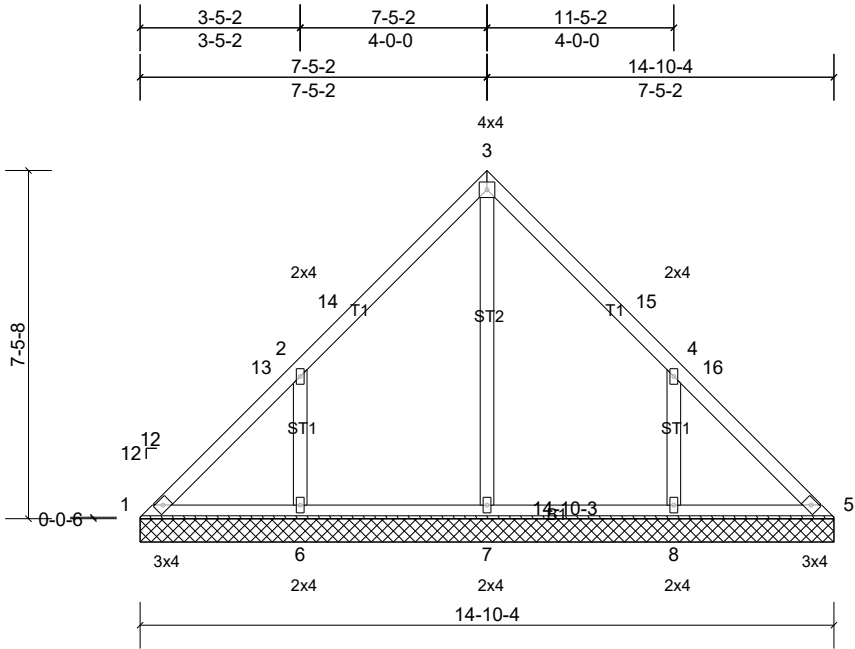
(lb) - Max Horiz 1=-247 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 5 except 1=-135 (LC 10), 6=-342 (LC 12), 9=-333 (LC 13)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=465 (LC 19), 7=603 (LC 22), 9=466 (LC 20)

TOP CHORD 1-15=-202/362, 2-15=-173/443,  
2-16=-60/275, 3-16=-18/365, 3-17=0/330,  
4-18=-31/312

WEBS 3-7=-534/0, 2-6=-349/363, 4-9=-350/360

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 8-5-8, Exterior(2R) 8-5-8 to 11-5-8, Interior (1) 11-5-8 to 16-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate gird DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA6	Valley	1	1	Job Reference (optional)



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
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 71 lb	FT = 25%

**LUMBER**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

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

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

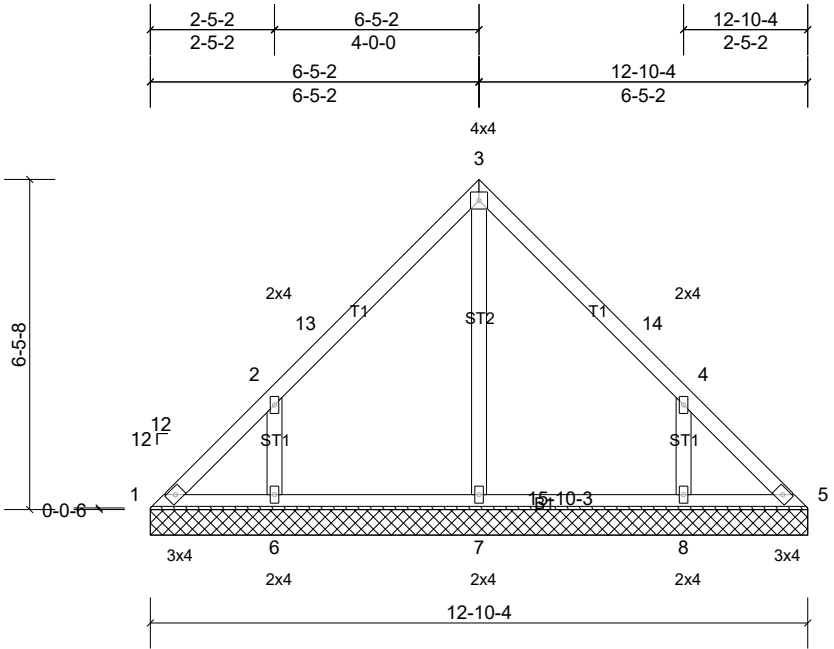
**REACTIONS** All bearings 14-10-4.  
(lb) - Max Horiz 1=-217 (LC 8)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
1, 5 except 6=-286 (LC 12), 8=-280 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s)  
1, 5 except 6=412 (LC 19), 7=286 (LC 1), 8=406 (LC 20)

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

**WEBS** 2-6=-312/318, 4-8=-309/315

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 7-5-8, Exterior(2R) 7-5-8 to 10-5-8, Interior (1) 10-5-8 to 14-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 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, 5 except (jt=lb) 6=286, 8=280.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA7	Valley	1	1	Job Reference (optional)



Scale = 1:45.3

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 59 lb	FT = 25%

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

TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.2

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

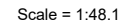
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 12-10-4.  
(lb) - Max Horiz 1=-187 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-260 (LC 12), 8=-254 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5, 7 except 6=372 (LC 19), 8=365 (LC 20)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-6=-299/338, 4-8=-297/337

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-5-8, Exterior(2R) 6-5-8 to 9-5-8, Interior (1) 9-5-8 to 12-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5 except (jt=lb) 6=259, 8=253.

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

<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Structural wood sheathing 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.

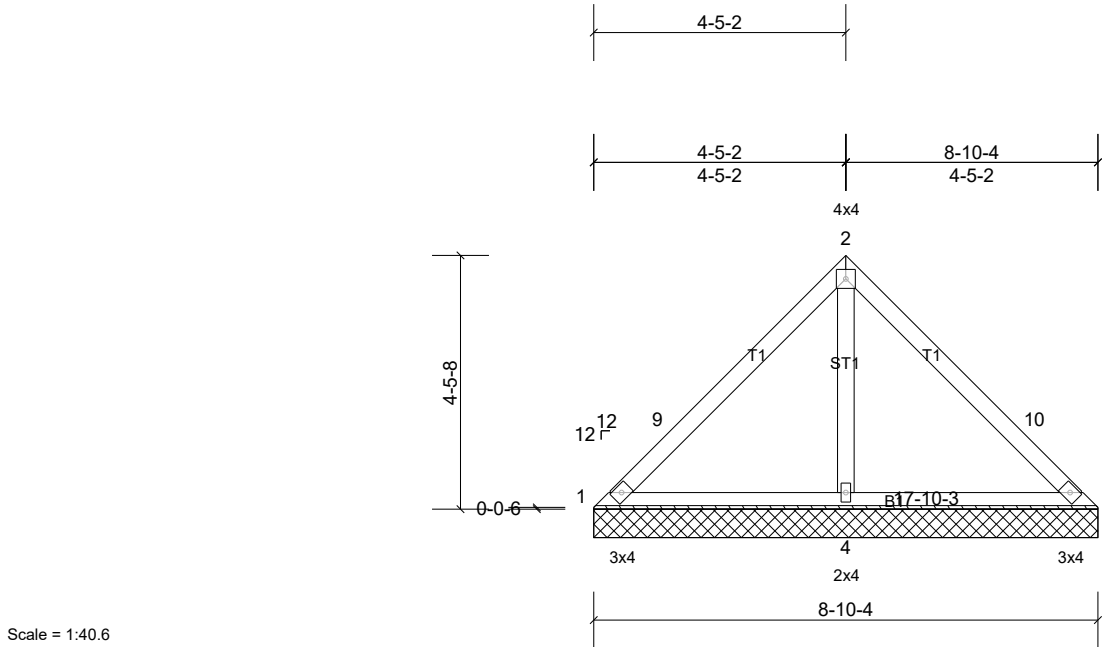
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.

**WEBS** 2-6=-348/459, 4-8=-348/458

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
 Vasd=103mph; TCDFL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 5-5-8, Exterior(2R) 5-5-8 to 8-5-8, Interior (1) 8-5-8 to 10-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1. 5 except (it=lb) 6=249. 8=241.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA9	Valley	1	1	Job Reference (optional)



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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 36 lb	FT = 25%

**LUMBER**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.  

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

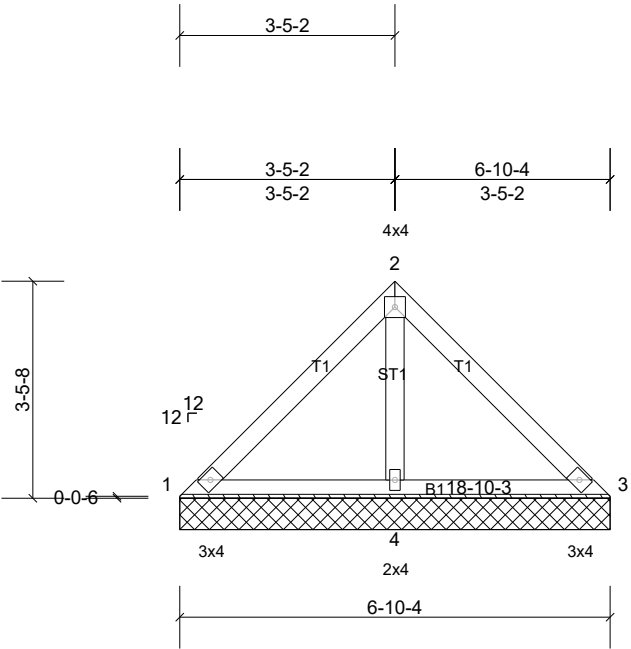
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

<b>REACTIONS</b>	(lb/size)	1=37/8-10-4, (min. 0-1-8), 3=37/8-10-4, (min. 0-1-8), 4=635/8-10-4, (min. 0-1-8)
	Max Horiz	1=127 (LC 9)
	Max Uplift	1=-17 (LC 26), 3=-17 (LC 25), 4=-230 (LC 12)
	Max Grav	1=71 (LC 25), 3=71 (LC 26), 4=635 (LC 1)
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-9=-210/256	
BOT CHORD	1-4=-244/313, 3-4=-244/313	
WEBS	2-4=-495/447	

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-5-8, Exterior(2R) 4-5-8 to 7-5-8, Interior (1) 7-5-8 to 8-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 230 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VA10	Valley	1	1	Job Reference (optional)



Scale = 1:36.9

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 28 lb	FT = 25%

LUMBER LOAD CASE(S) Standard

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2

TOP CHORD	Structural wood sheathing directly applied or 6-10-4 oc purlins.
BOT CHORD	Structural wood sheathing 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.

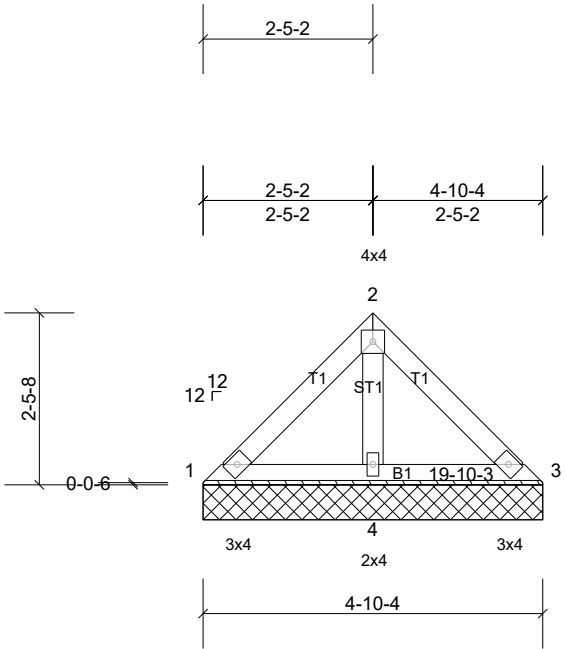
REACTIONS (lb/size)	1=50/6-10-4, (min. 0-1-8), 3=50/6-10-4, (min. 0-1-8), 4=449/6-10-4, (min. 0-1-8)
Max Horiz	1=97 (LC 9)
Max Uplift	4=-148 (LC 12)
Max Grav	1=71 (LC 25), 3=71 (LC 26), 4=449 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
BOT CHORD	1-4=-169/251, 3-4=-169/251
WEBS	2-4=-329/329

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 3-5-8, Exterior(2R) 3-5-8 to 6-2-9, Interior (1) 6-2-9 to 6-10-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 4.



Job 251198-A	Truss VA11	Truss Type Valley	Qty 1	Ply 1	Temms Residence Job Reference (optional)
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Scale = 1:33.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 19 lb	FT = 25%

**LUMBER**

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins.

BOT CHORD Structural wood sheathing 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=54/4-10-4, (min. 0-1-8), 3=54/4-10-4, (min. 0-1-8), 4=281/4-10-4, (min. 0-1-8)

Max Horiz 1=68 (LC 9)

Max Uplift 1=-2 (LC 13), 3=-5 (LC 13), 4=-79 (LC 12)

Max Grav 1=64 (LC 25), 3=64 (LC 26), 4=281 (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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 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 1, 5 lb uplift at joint 3 and 79 lb uplift at joint 4.

**LOAD CASE(S)** Standard

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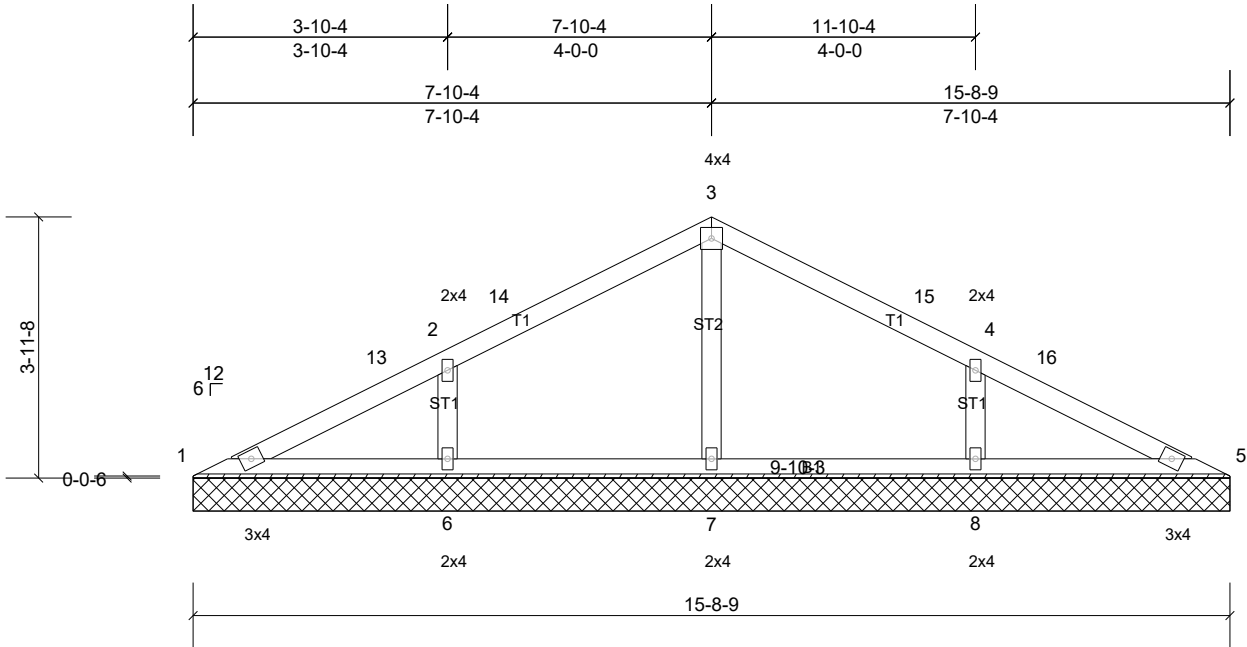
Plate Offsets (X, Y): [2:0-2-0,Edge]

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 2-10-4 oc purlins.
BOT CHORD	Structural wood sheathing 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.	

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

## LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VP1	Valley	1	1	Job Reference (optional)



Scale = 1:35.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 57 lb	FT = 25%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.

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

REACTIONS

- All bearings 15-8-9.
- (lb) - Max Horiz 1=-77 (LC 13)
- Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-157 (LC 12), 8=-155 (LC 13)
- Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=365 (LC 25), 7=350 (LC 1), 8=365 (LC 26)

FORCES

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

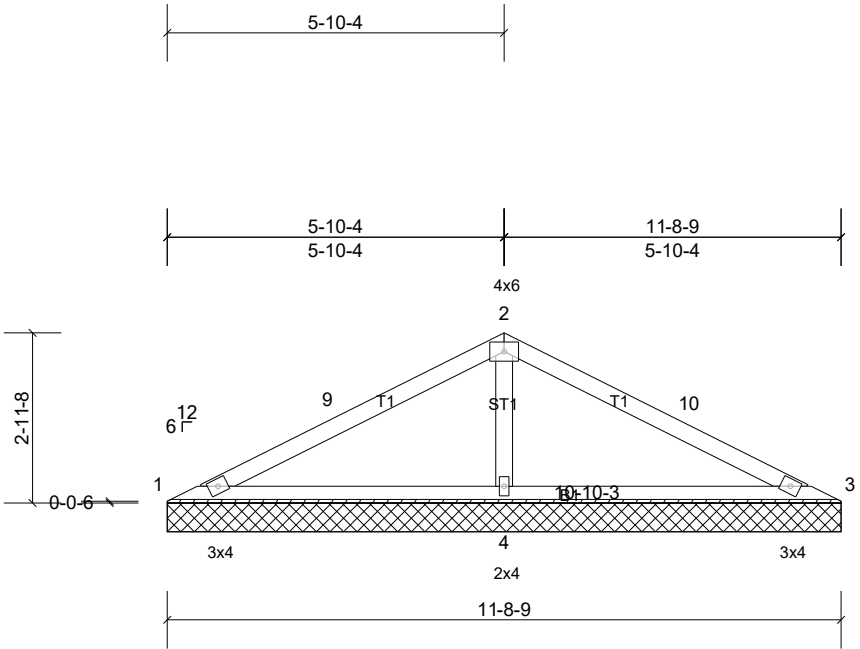
WEBS

3-7=-280/105, 2-6=-262/219, 4-8=-262/219

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 7-11-0, Exterior(2R) 7-11-0 to 10-11-0, Interior (1) 10-11-0 to 15-9-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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, 5, 7 except (jt=lb) 6=156, 8=155.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VP2	Valley	1	1	Job Reference (optional)



Scale = 1:40.2

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 38 lb	FT = 25%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 29 lb uplift at joint 3 and 162 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

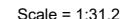
REACTIONS	(lb/size)	1=46/11-8-9, (min. 0-1-8), 3=46/11-8-9, (min. 0-1-8), 4=845/11-8-9, (min. 0-1-8)
	Max Horiz	1=-57 (LC 13)
	Max Uplift	1=-24 (LC 26), 3=-29 (LC 13), 4=-162 (LC 12)
	Max Grav	1=93 (LC 25), 3=93 (LC 26), 4=845 (LC 1)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-9=-202/356, 2-9=-190/433, 2-10=-185/433, 3-10=-197/353
BOT CHORD	1-4=-320/257, 3-4=-320/257
WEBS	2-4=-657/426

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-11-0, Exterior(2R) 5-11-0 to 8-11-0, Interior (1) 8-11-0 to 11-9-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.

Comtech, Inc., Fayetteville, NC 28309, user Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Wed Oct 29 10:53:43 Page: ID:p3Y8FqazOhnpuPn0zm1HgAvObRs-aq5 BTUPp31SHAdMzOUTYW6ZV4?CvKnnS?2h0nvOb6



<b>LUMBER</b>	7) This truss design requires that a minimum of 7/16"
TOP CHORD 2x4 SP No.1	structural wood sheathing be applied directly to the top
BOT CHORD 2x4 SP No.1	chord and 1/2" gypsum sheetrock be applied directly to
OTHERS 2x4 SP No. 2	the bottom chord.

## BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.

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

## REACTIONS

(lb/size) 1=57/7-8-9, (min. 0-1-8),  
3=57/7-8-9, (min. 0-1-8),  
4=503/7-8-9, (min. 0-1-8)

Max Horiz 1=-36 (LC 13)

Max Uplift 1=-17 (LC 12), 3=-25 (LC 13),  
4=-94 (LC 12)

Max Grav 1=81 (LC 25), 3=81 (LC 26), 4=503  
(LC 1)

## FORCES

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

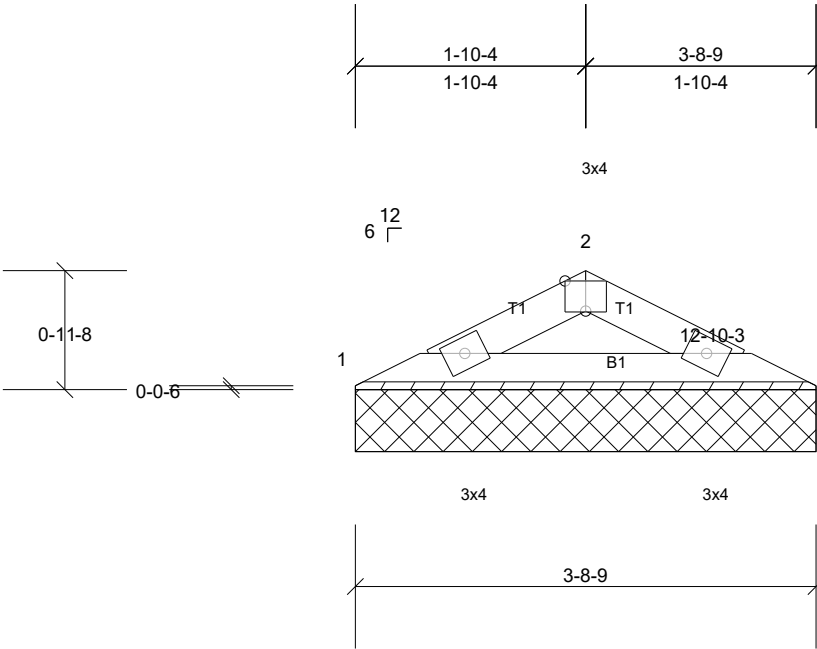
## WEBS

2-4=-346/295

## 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-11-0, Exterior(2R) 3-11-0 to 6-11-0, Interior (1) 6-11-0 to 7-9-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1. 25 lb uplift at joint 3 and 94 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Temms Residence
251198-A	VP4	Valley	1	1	Job Reference (optional)



Scale = 1:18.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 10 lb	FT = 25%

LUMBER

TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=148/3-8-9, (min. 0-1-8),  
3=148/3-8-9, (min. 0-1-8)  
Max Horiz 1=16 (LC 16)  
Max Uplift 1=-31 (LC 12), 3=-31 (LC 13)

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

TOP CHORD 1-2=-250/211

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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 31 lb uplift at joint 1 and 31 lb uplift at joint 3.

LOAD CASE(S) Standard