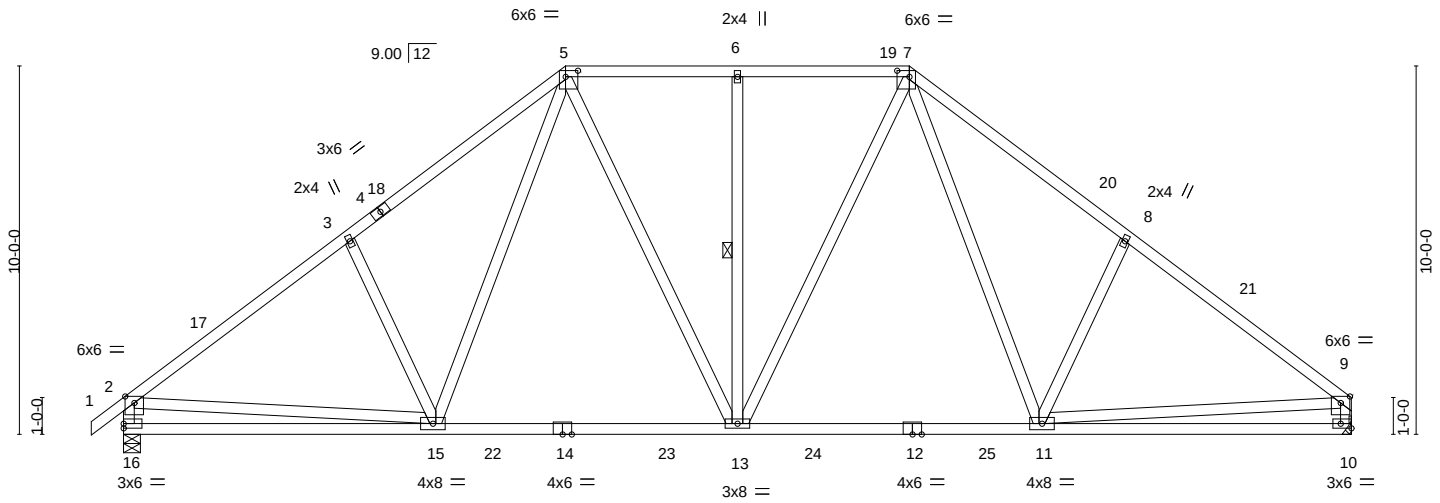
Job	Truss	Truss Type	Qty	Ply	
21-0146	A	PIGGYBACK BASE	11	1	U1411258
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:13 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-jQxVxcrT0Rfv3dhpximWs97WXOcPZc_eOY7ZOCzah44

-0-10-8	6-1-12	12-0-0	16-8-0	21-4-0	27-2-4	33-4-0
0-10-8	6-1-12	5-10-4	4-8-0	4-8-0	5-10-4	6-1-12

Scale = 1:62.6



8-5-12	16-8-0	24-10-4	33-4-0
8-5-12	8-2-4	8-2-4	8-5-12

Plate Offsets (X,Y)-- [5:0-4-0,0-2-0], [7:0-4-0,0-2-0], [10:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.8	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.19	11-13	>999	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.29	11-13	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S							Weight: 174 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-11 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-13

REACTIONS. (size) 16=0-5-8, 10=Mechanical
Max Horz 16=180(LC 11)
Max Uplift 16=-137(LC 12), 10=-108(LC 12)
Max Grav 16=1658(LC 1), 10=1578(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2075/250, 3-5=-1894/312, 5-6=-1369/275, 6-7=-1369/275, 7-8=-1903/316, 8-9=-2079/254, 2-16=-1580/248, 9-10=-1500/213
BOT CHORD 15-16=-102/410, 13-15=-59/1285, 11-13=-53/1242, 10-11=-39/258
WEBS 3-15=-394/182, 5-15=-73/501, 5-13=-29/390, 6-13=-360/102, 7-13=-28/389, 7-11=-75/510, 8-11=-413/187, 2-15=-84/1238, 9-11=-117/1314

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-5-8, Interior(1) 2-5-8 to 12-0-0, Exterior(2) 12-0-0 to 16-8-0, Interior(1) 16-8-0 to 21-4-0, Exterior(2) 21-4-0 to 26-0-9, Interior(1) 26-0-9 to 33-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
3) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=137, 10=108.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

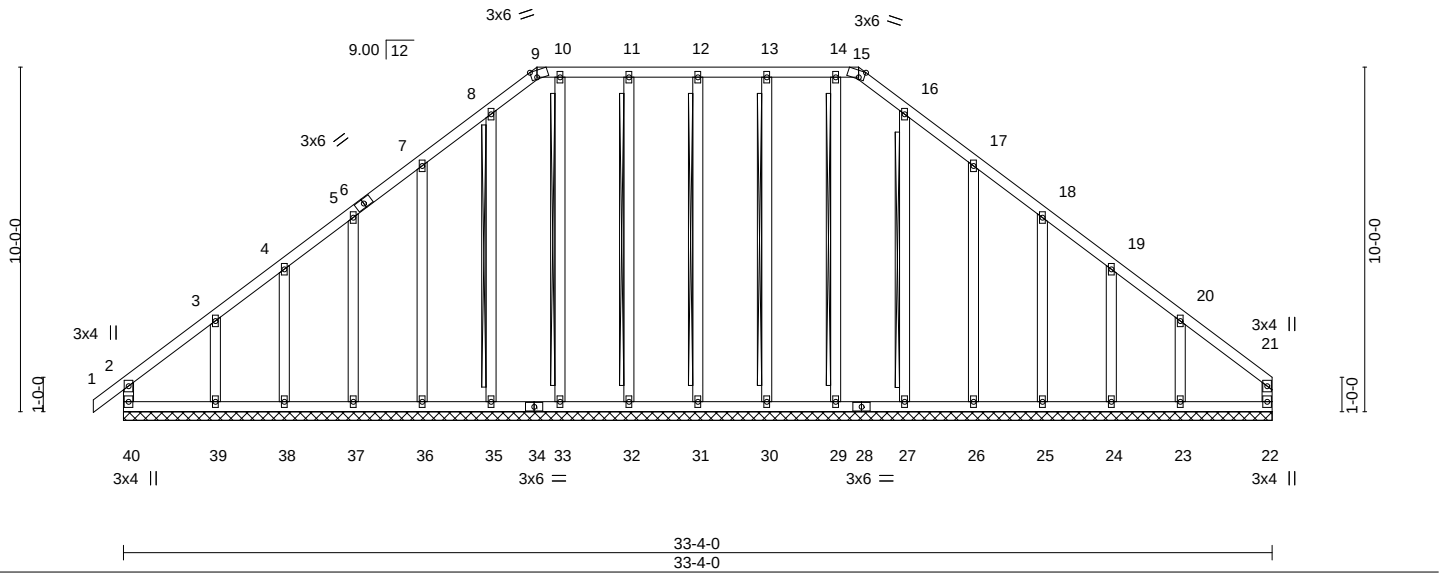
MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	AGF	GABLE	1	1	U1411259
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:15 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-fp2GLItjX2vdJxrB27o_xaCy6BU21YNxsscgS5zah42

-0-10-8 12-0-0 21-4-0 33-4-0
0-10-8 12-0-0 9-4-0 12-0-0

Scale = 1:66.9



33-4-0
33-4-0

Plate Offsets (X,Y)-- [9:0-1-14,Edge], [15:0-1-14,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	1	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	1	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	22	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-R							Weight: 202 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-15.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SP No.3 - 12-31, 11-32, 10-33, 8-35, 13-30, 14-29, 16-27
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 33-4-0.
(lb) - Max Horz 40=180(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 40, 22, 31, 32, 36, 37, 38, 39, 30, 26, 25, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 40, 22, 31, 32, 33, 35, 36, 37, 38, 30, 29, 27, 26, 25, 24 except 39=250(LC 18), 23=259(LC 19)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=33ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-8-0, Exterior(2) 2-8-0 to 12-0-0, Corner(3) 12-0-0 to 15-4-0, Exterior(2) 15-4-0 to 21-4-0, Corner(3) 21-4-0 to 24-8-0, Exterior(2) 24-8-0 to 33-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
4) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 22, 31, 32, 36, 37, 38, 39, 30, 26, 25, 24, 23.
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.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	B	Piggyback Base	5	1	U1411260
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:16 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-7?ceZeuLIM1Uw5QOcrJDTolx9bdRmt055WLD?Xzah41

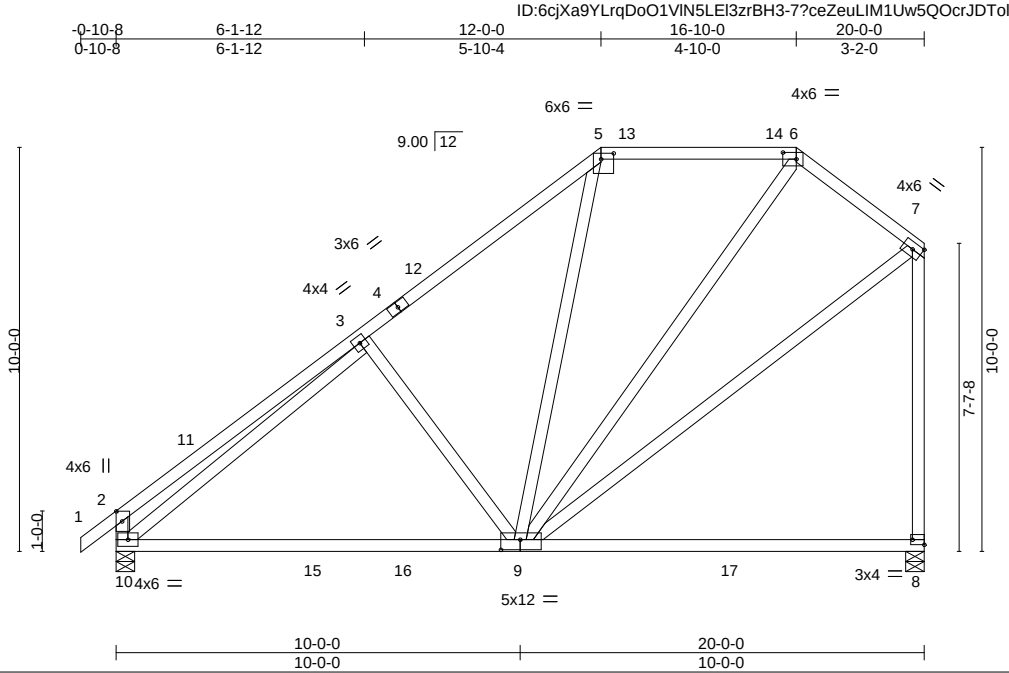


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [5:0-3-12,0-1-12], [6:0-4-0,0-2-0], [8:Edge,0-1-8], [9:0-5-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.24	8-9	>975	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.46	8-9	>519	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 114 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

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

REACTIONS. (size) 8=0-5-8, 10=0-5-8
Max Horz 10=246(LC 11)
Max Uplift 8=-71(LC 12), 10=-87(LC 12)
Max Grav 8=968(LC 18), 10=1021(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-518/125, 3-5=-866/179, 5-6=-565/184, 6-7=-696/180, 7-8=-857/216, 2-10=-513/164
BOT CHORD 9-10=-280/806
WEBS 3-9=-336/178, 7-9=-185/623, 3-10=-638/33

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 16-10-0, Exterior(2) 16-10-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
3) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	BS	PIGGYBACK BASE	5	1	U1411261
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:17 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-bBA0mzuz3g9KYE?aAYqS0?I8u?_EVKeEJA5mX_zah40

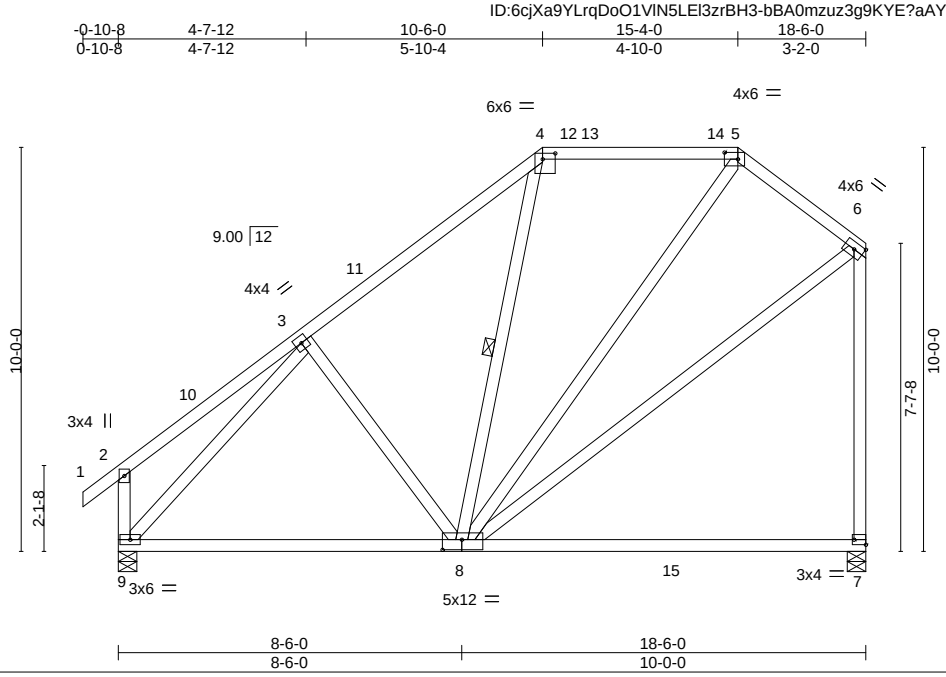


Plate Offsets (X,Y)-- [4:0-3-12,0-1-12], [5:0-4-0,0-2-0], [7:Edge,0-1-8], [8:0-5-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.31	7-8	>706	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.55	7-8	>398	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

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

REACTIONS. (size) 9=0-5-8, 7=0-5-8
Max Horz 9=244(LC 11)
Max Uplift 9=-80(LC 12), 7=-72(LC 9)
Max Grav 9=950(LC 1), 7=886(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-749/167, 4-5=-491/178, 5-6=-635/174, 6-7=-783/216
BOT CHORD 8-9=-272/606
WEBS 3-9=-834/82, 6-8=-187/561

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-6-0, Exterior(2) 10-6-0 to 14-8-15, Interior(1) 14-8-15 to 15-4-0, Exterior(2) 15-4-0 to 18-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
3) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	BSGF	GABLE	1	1	U1411262
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:18 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-3OkO_JvbqzHBAOamkFLhYDqQwPQaEvPNYqqK3Qzah4?

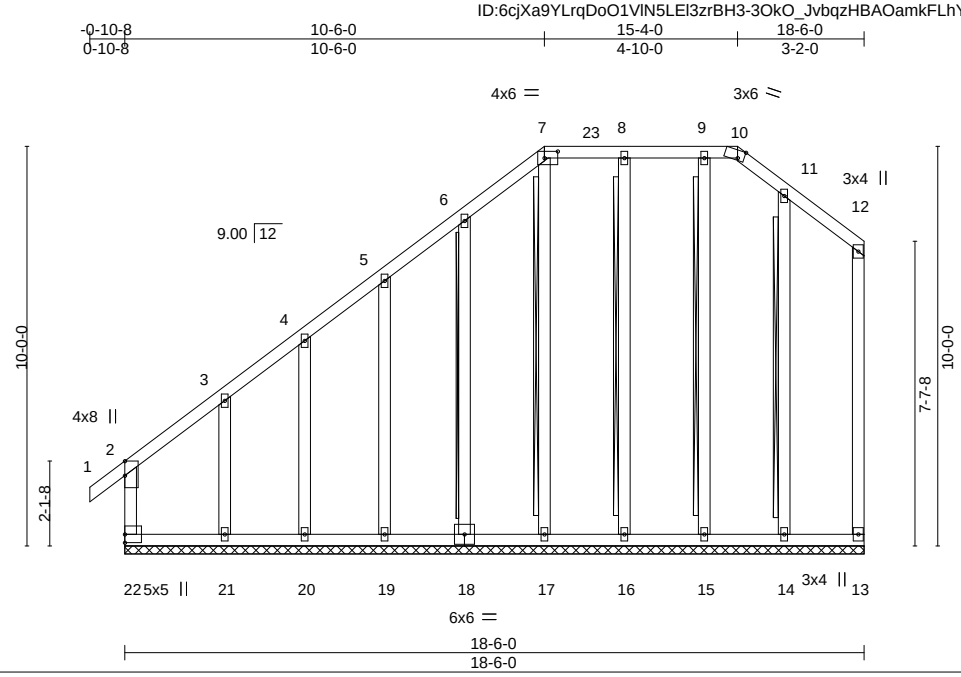


Plate Offsets (X,Y)-- [2:0-4-6,Edge], [7:0-4-0,0-2-0], [10:0-1-14,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.00	2	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	0.00	2	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	13	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-R							Weight: 126 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 1x4 SPF Stud - 6-18
2x4 SP No.3 - 11-14, 9-15, 8-16, 7-17
Fasten (1X) T and I braces to narrow edge of web with 8d (0.113"x2.5") nails, 6in o.c.,with 3in minimum end distance.
and Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 18-6-0.
(lb) - Max Horz 22=244(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13, 15, 16, 17, 18, 19, 20 except 22=-131(LC 10), 21=-244(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 17, 18, 19, 20 except 22=341(LC 19), 21=327(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-263/182, 2-3=-312/308
WEBS 3-21=-281/264

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 10-6-0, Corner(3) 10-6-0 to 13-6-0, Exterior(2) 13-6-0 to 15-4-0, Corner(3) 15-4-0 to 18-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
4) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 15, 16, 17, 18, 19, 20 except (jt=lb) 22=131, 21=244.

Continued on page 2

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

NOTES-

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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	CG	PIGGYBACK BASE GIRDE	1	2	U1411263 Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:19 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-YaInBfwDbHP2nY9zHztw5QNWmol3zEjXnTatbszah4_

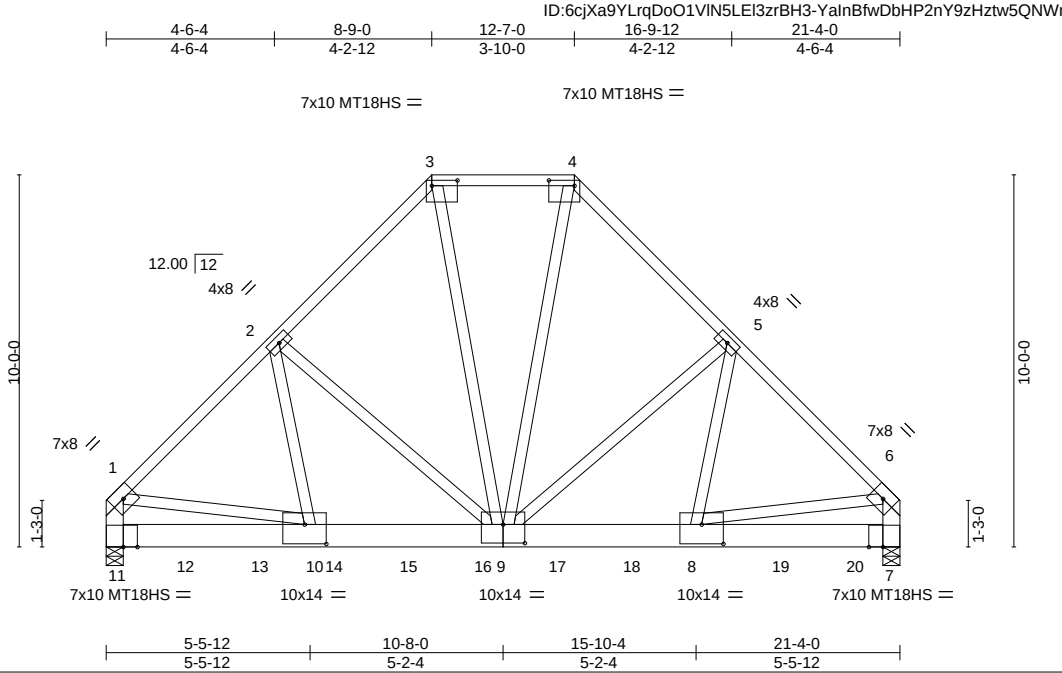


Plate Offsets (X,Y)-- [3:0-8-4,0-1-12], [4:0-8-4,0-1-12], [7:0-4-9,Edge], [8:0-7-0,0-6-4], [9:0-7-0,0-6-0], [10:0-7-0,0-6-4], [11:0-4-9,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.11	8-9	>999	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	8-9	>999	180	MT18HS	197/144
TCDL	7.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S							Weight: 294 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SPF 2250F 1.9E
WEBS 2x4 SPF No.2 *Except*
1-11,6-7: 2x6 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-5-8, 7=0-5-8
Max Horz 11=175(LC 7)
Max Uplift 11=-640(LC 8), 7=-682(LC 8)
Max Grav 11=8513(LC 1), 7=9065(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-8573/668, 2-3=-6360/561, 3-4=-5233/498, 4-5=-6360/561, 5-6=-8616/671, 1-11=-6989/551, 6-7=-7016/553
BOT CHORD 10-11=-219/1377, 9-10=-516/6598, 8-9=-445/6643, 7-8=-111/1428
WEBS 2-10=-207/3155, 2-9=-2876/288, 3-9=-336/4207, 4-9=-336/4207, 5-8=-214/3224, 1-10=-312/4674, 6-8=-315/4654, 5-9=-2934/293

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=640, 7=682.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 15,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1558 lb down and 128 lb up at 2-0-12, 1558 lb down and 128 lb up at 4-0-12, 1558 lb down and 128 lb up at 6-0-12, 1558 lb down and 128 lb up at 8-0-12, 1558 lb down and 128 lb up at 10-0-12, 1558 lb down and 128 lb up at 12-0-12, 1558 lb down and 128 lb up at 14-0-12, 1558 lb down and 128 lb up at 16-0-12, and 1558 lb down and 128 lb up at 18-0-12, and 1558 lb down and 128 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-76, 3-4=-76, 4-6=-76, 7-11=-20
   Concentrated Loads (lb)
   Vert: 8=-1558(B) 12=-1558(B) 13=-1558(B) 14=-1558(B) 15=-1558(B) 16=-1558(B) 17=-1558(B) 18=-1558(B) 19=-1558(B) 20=-1558(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	CGF	GABLE I Gable I Gable COMMON I I Gable I	1	1	U1411264

Job Reference (optional)

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon Mar 15 12:24:34 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-U8DLmYElYHi6Bi3?cpyKkDb1?tnlZnrBlL8uUbzaggR

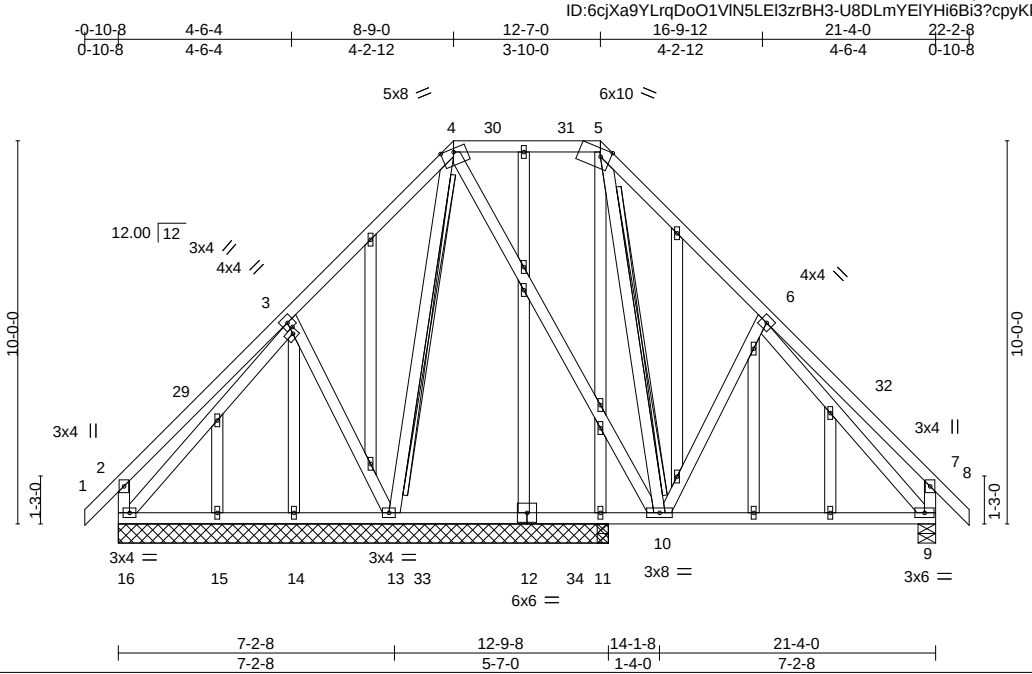


Plate Offsets (X,Y)-- [3:0-1-8,0-1-8], [5:0-0-11,0-1-10], [5:0-0-11,0-0-5], [5:0-3-2,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.06	9-10	>999	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.13	9-10	>808	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 177 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-

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

REACTIONS. All bearings 12-9-8 except (jt=length) 9=0-5-8.
(lb) - Max Horz 16=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13, 16, 9, 14
Max Grav All reactions 250 lb or less at joint(s) 11, 11, 14, 15 except 13=798(LC 1), 16=457(LC 1), 9=761(LC 1)

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

TOP CHORD	4-30=-294/178, 30-31=-294/178, 5-31=-295/178, 5-6=-545/190, 7-32=-278/120, 2-16=-292/178, 7-9=-348/167
BOT CHORD	9-10=0/390
WEBS	3-13=-258/177, 4-13=-499/26, 6-9=-441/15, 4-10=-54/310

NOTES-

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-9-0, Exterior(2) 8-9-0 to 16-10-9, Interior(1) 16-10-9 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 16, 9, 14.
11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 15,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

NOTES-

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	D	Attic	2	1	U1411265
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:22 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-y9_vphy6uCnde0tXz5Qdj3?4h0kpAiBzTRoWBBzah3x

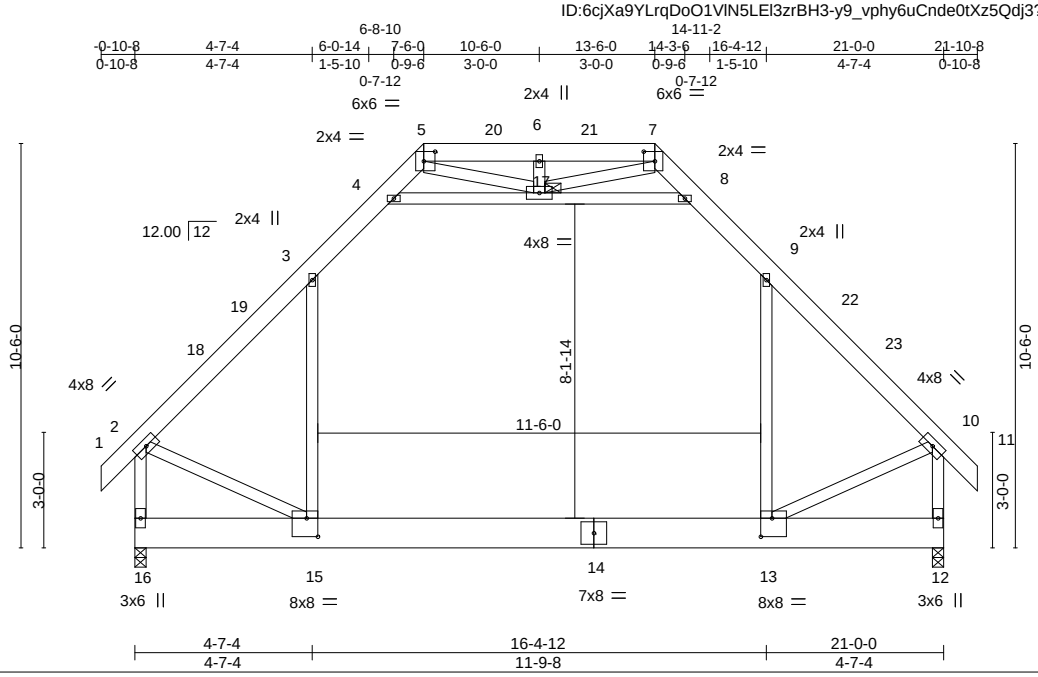


Plate Offsets (X,Y)-- [5:0-3-8,0-3-0], [7:0-3-8,0-3-0], [13:0-3-8,0-5-12], [15:0-3-8,0-5-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.17	13-15	>999	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.22	13-15	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S		Attic	-0.12	13-15	1206	360	Weight: 164 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x10 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-3-8, 12=0-3-8
Max Horz 16=-210(LC 10)
Max Uplift 16=-61(LC 12), 12=-61(LC 12)
Max Grav 16=1315(LC 19), 12=1315(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1240/96, 3-4=-829/160, 4-5=-300/276, 5-6=-433/412, 6-7=-433/412, 7-8=-300/276, 8-9=-829/160, 9-10=-1239/96, 2-16=-1439/132, 10-12=-1439/132
BOT CHORD 13-15=-13/805
WEBS 3-15=-100/502, 4-17=-996/194, 8-17=-996/194, 9-13=-100/502, 2-15=-6/882, 10-13=-7/882, 5-17=-80/333, 7-17=-80/333

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 13-6-0, Exterior(2) 13-6-0 to 17-8-15, Interior(1) 17-8-15 to 21-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
12) Attic room checked for L/360 deflection.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	DGF	GABLE	1	1	U1411266
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:23 2021 Page 1
ID:6cjXa9YLrqDoO1VIN5LEl3zrBH3-QLXH11zkfWvUG9SkWpxsFGYJXQCAvAM7i5Y4jdzah3w

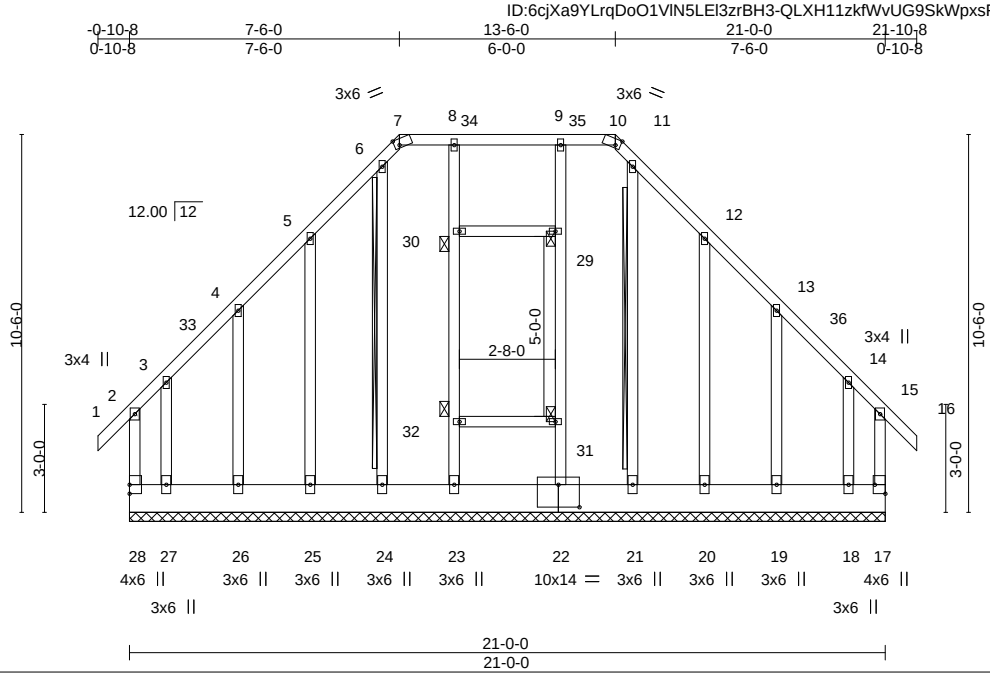


Plate Offsets (X,Y)-- [7:0-1-11,Edge], [10:0-1-11,Edge], [17:Edge,0-3-8], [22:0-7-0,0-7-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	15	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	15	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	17	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S							Weight: 185 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x10 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-10.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	T-Brace: 2x4 SP No.3 - 6-24, 11-21 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.
JOINTS	1 Brace at Jt(s): 29, 30, 31, 32

REACTIONS. All bearings 21-0-0.
(lb) - Max Horz 28=213(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 23, 25, 26, 22, 20, 19 except 28=-321(LC 10), 17=-315(LC 11), 27=-275(LC 11), 18=-272(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 21, 20, 19 except 28=364(LC 11), 17=360(LC 10), 23=253(LC 1), 27=397(LC 10), 22=252(LC 1), 18=392(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-214/271, 11-12=-214/271

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2) 7-6-0 to 11-11-12, Interior(1) 11-11-12 to 13-6-0, Exterior(2) 13-6-0 to 17-11-12, Interior(1) 17-11-12 to 21-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 25, 26, 22, 20, 19 except (jt=lb) 28=321, 17=315, 27=275, 18=272.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	U1411266
21-0146	DGF	GABLE	1	1	Job Reference (optional)

NOTES-

14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
15) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	U1411267
21-0146	DS	Attic	9	1	Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:24 2021 Page 1
ID:6cjXa9YLrqDoO1VIN5LEl3zrBH3-uY5gEN_MQp1LuJ1w4WS5oU4QWpQPecYGwlHdG4zah3v

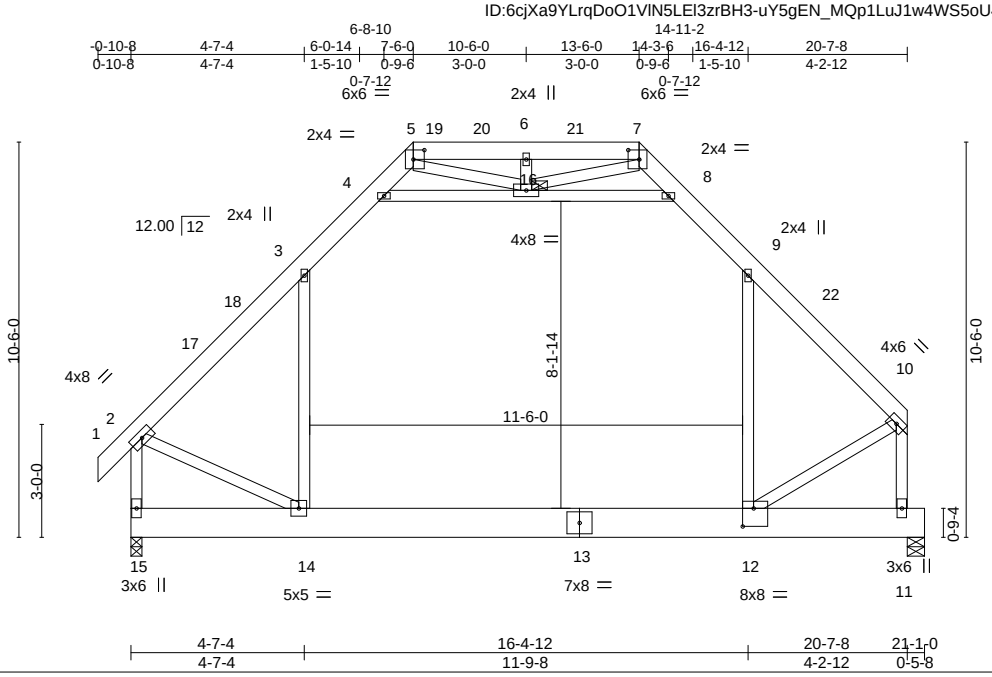


Plate Offsets (X,Y)-- [5:0-3-8,0-3-0], [7:0-3-8,0-3-0], [12:0-3-8,0-5-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.16	12-14	>999	240	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.21	12-14	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-S		Attic	-0.12	12-14	1226	360	Weight: 161 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x10 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 15=0-3-8, 11=0-5-8
Max Horz 15=208(LC 11)
Max Uplift 15=-57(LC 12), 11=-33(LC 12)
Max Grav 15=1295(LC 19), 11=1247(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1200/91, 3-4=-808/158, 4-5=-322/255, 5-6=-464/383, 6-7=-464/383, 7-8=-317/259, 8-9=-812/156, 9-10=-1185/81, 2-15=-1395/126, 10-11=-1432/102
BOT CHORD 12-14=-39/769
WEBS 3-14=-121/482, 4-16=-948/185, 8-16=-955/184, 9-12=-127/480, 2-14=-6/850, 10-12=-31/911, 5-16=-81/333, 7-16=-99/345

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 13-6-0, Exterior(2) 13-6-0 to 17-8-15, Interior(1) 17-8-15 to 20-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-16, 8-16
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
12) Attic room checked for L/360 deflection.

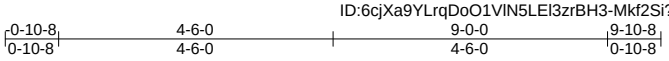
March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

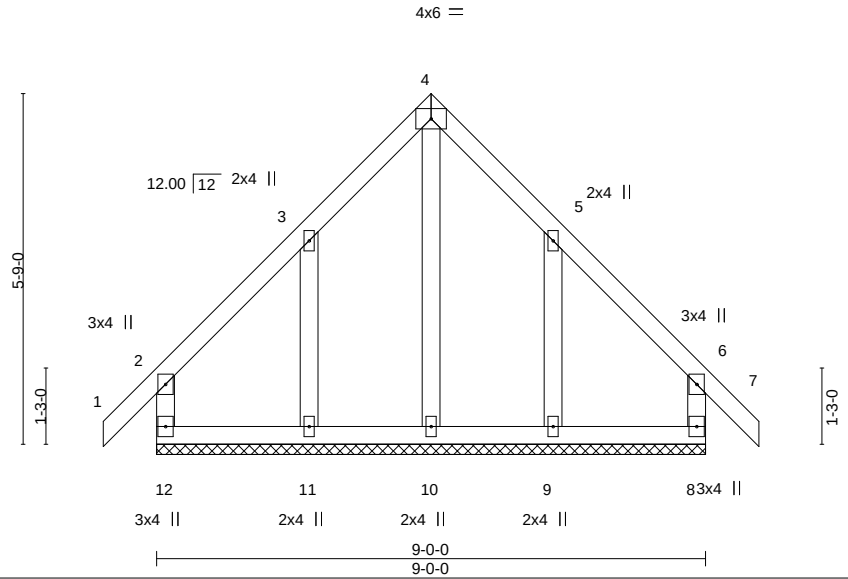
MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	EGF	Common Supported Gable	1	1	U1411268 Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:25 2021 Page 1
ID:6cjXa9YLrqDoO1VIN5LEl3zrBH3-Mkf2Si?_B79CVTc6eDzKLhdgVDuaN5QP9P1AoWzah3u



Scale = 1:37.8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	6	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	6	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-R							Weight: 43 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-

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

REACTIONS. All bearings 9-0-0.
(lb) - Max Horz 12=-121(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9
Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 4-6-0, Corner(3) 4-6-0 to 7-6-0, Exterior(2) 7-6-0 to 9-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11, 9.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

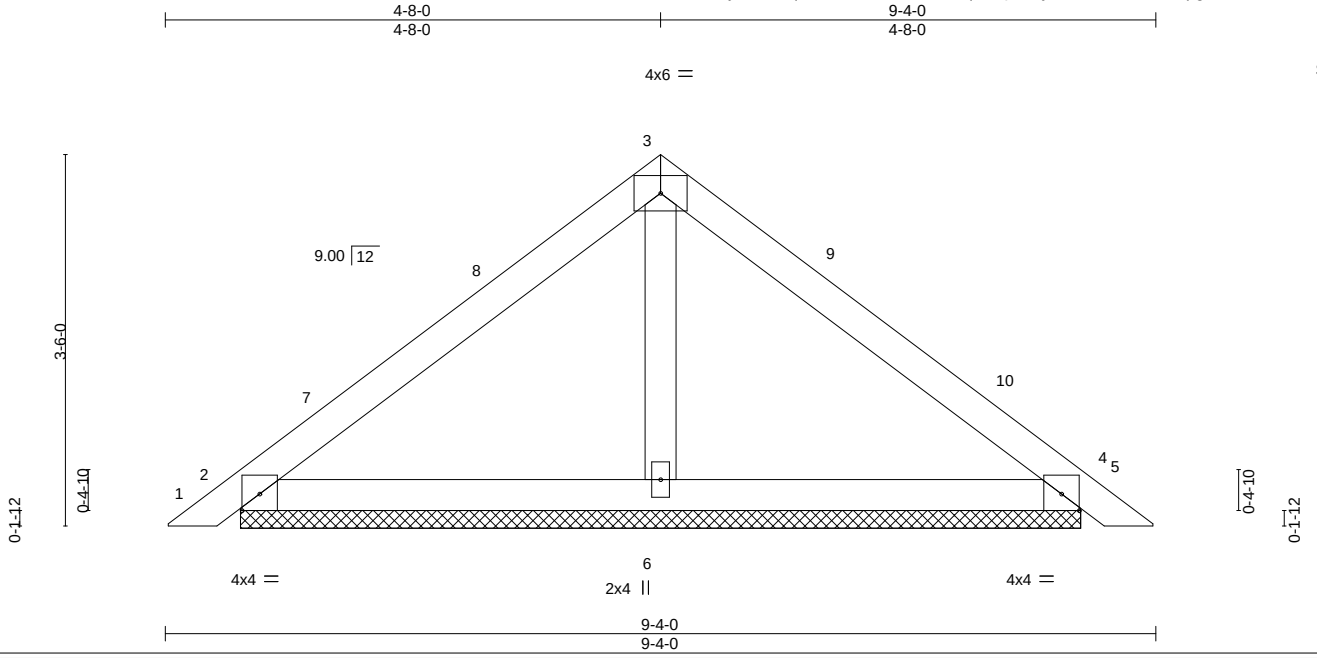
March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	PBA	Piggyback	12	1	U1411269 Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:26 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-qwDQf2?cyRH37dBJCxVZtv9pgdCT6ZZZO3mkKyzah3t



LOADING (psf)
TCLL 30.8
(Ground Snow=40.0)
TCDL 7.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IBC2015/TPI2014

CSI.
TC 0.31
BC 0.13
WB 0.04
Matrix-P

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	0.00	4	n/r	120
Vert(CT)	0.00	5	n/r	120
Horz(CT)	0.00	4	n/a	n/a

PLATES	**GRIP**
MT20	197/144

Weight: 25 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS. (size) 2=7-11-0, 4=7-11-0, 6=7-11-0
Max Horz 2=-53(LC 10)
Max Uplift 2=-47(LC 12), 4=-47(LC 12)
Max Grav 2=249(LC 1), 4=249(LC 1), 6=327(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-1 to 3-3-1, Interior(1) 3-3-1 to 4-8-0, Exterior(2) 4-8-0 to 7-8-0, Interior(1) 7-8-0 to 9-0-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	PBB	Piggyback	11	1	U1411270
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:26 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-qwDQf2?cyRH37dBJCxVZtv9tsdDi6ZEZO3mkKyzah3t

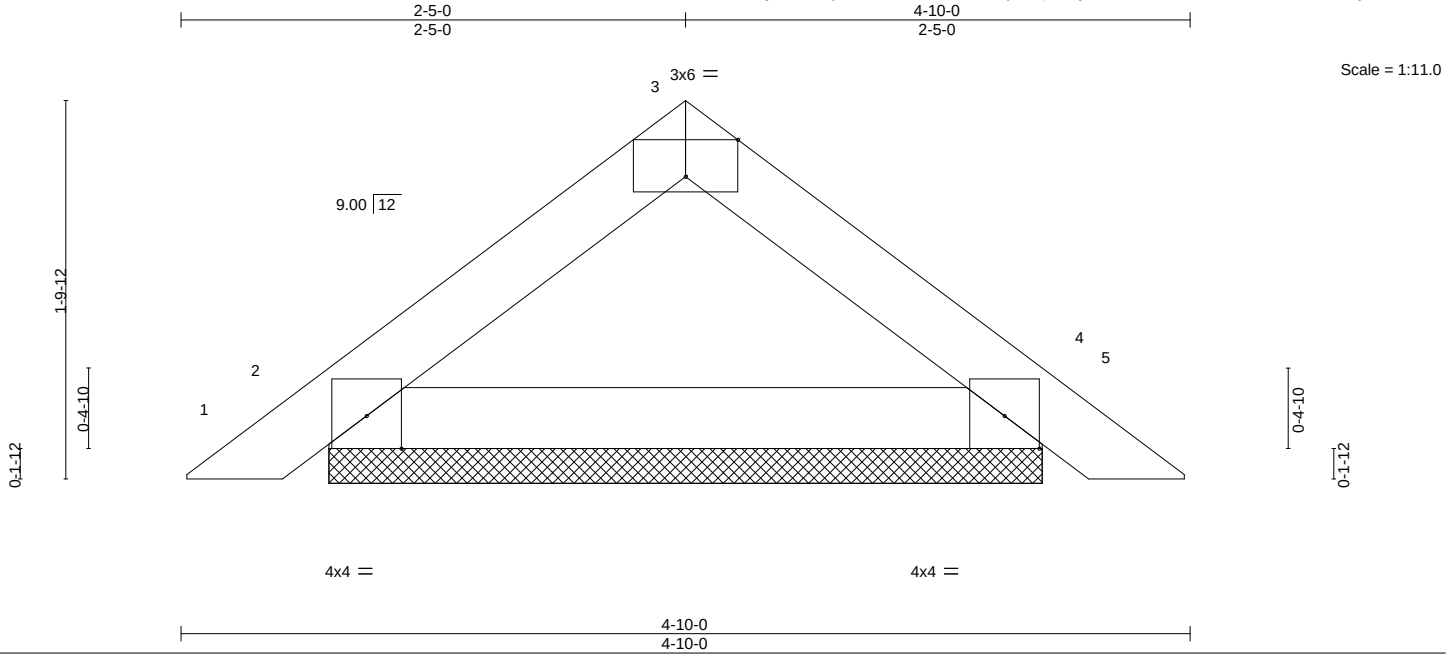


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	4	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	0.00	4	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

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

REACTIONS. (size) 2=3-5-0, 4=3-5-0
Max Horz 2=26(LC 11)
Max Uplift 2=-24(LC 12), 4=-24(LC 12)
Max Grav 2=197(LC 1), 4=197(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; 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
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 15.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	PBC	Piggyback	2	1	U1411271
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:27 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-J7notO0FjkPwlnmVle0oQ6i2u1Zhr0UicjWHtPzah3s

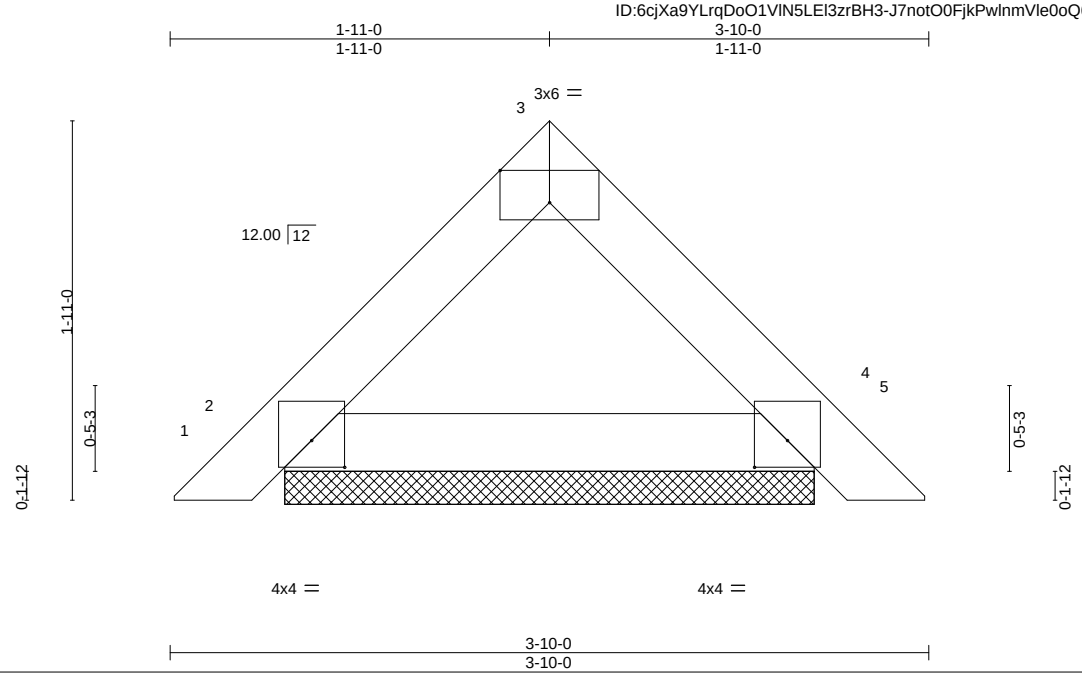


Plate Offsets (X,Y)-- [2:0-2-0,0-1-10], [3:0-3-0,Edge], [4:0-2-0,0-1-10]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

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

REACTIONS. (size) 2=2-8-2, 4=2-8-2
Max Horz 2=30(LC 11)
Max Uplift 2=-19(LC 12), 4=-19(LC 12)
Max Grav 2=155(LC 1), 4=155(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; 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
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	
21-0146	PBD	Piggyback	12	1	U1411272
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Mar 15 12:57:28 2021 Page 1
ID:6cjXa9YLrqDoO1VlN5LEl3zrBH3-nJLA4k1tT2YnMxLhJMX1yKFBMRwDaTSsrNFrPrzah3r

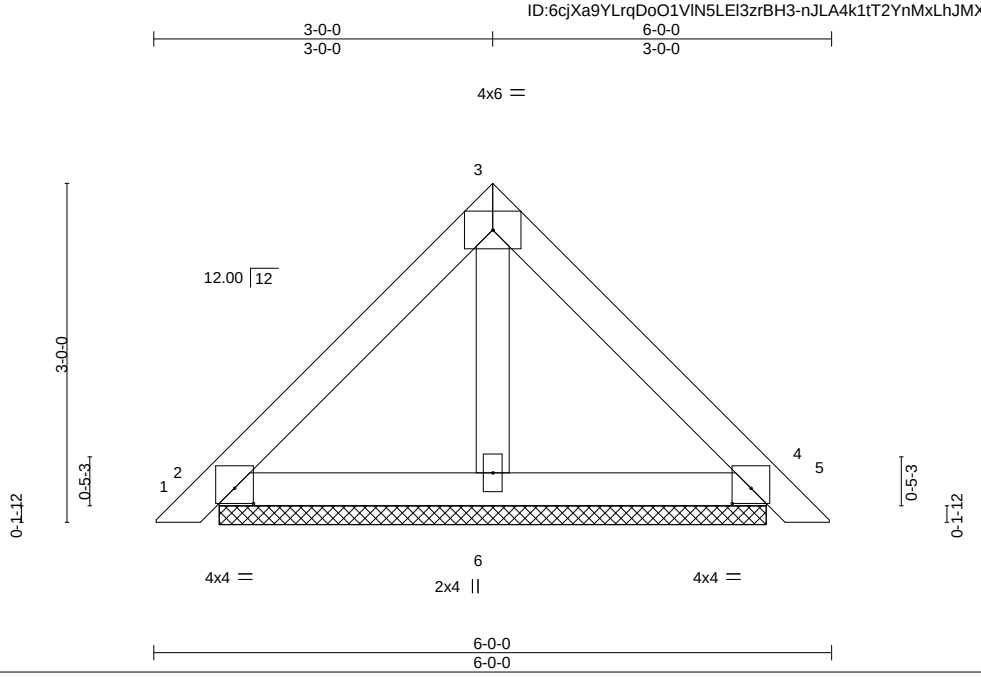


Plate Offsets (X,Y)-- [2:0-2-0,0-1-10], [4:0-2-0,0-1-10]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.8	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	4	n/r	120	MT20	197/144
(Ground Snow=40.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2015/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS. (size) 2=4-10-2, 4=4-10-2, 6=4-10-2
Max Horz 2=-49(LC 10)
Max Uplift 2=-35(LC 12), 4=-35(LC 12)
Max Grav 2=171(LC 1), 4=171(LC 1), 6=177(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=5.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; 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
2) TCLL: ASCE 7-10; Pg= 40.0 psf (ground snow); Pf=30.8 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.8 psf on overhangs non-concurrent with other live loads.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 6/30/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5