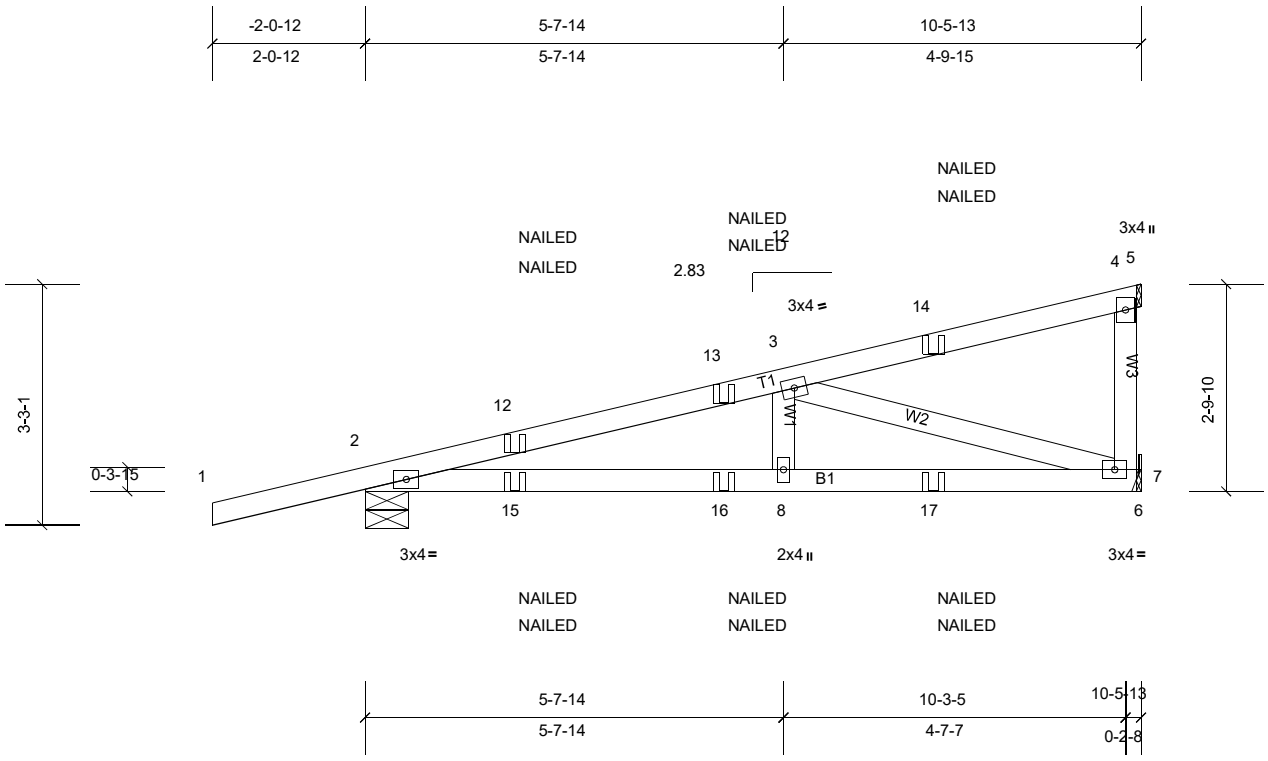
Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	H1	Diagonal Hip Girder	4	1	Job Reference (optional)



Scale = 1:31.1

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	0.43	Vert(LL)	-0.03	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 46 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=601/0-7-1, (min. 0-1-8), 7=557/ Mechanical, (min. 0-1-8)
Max Horiz 2=86 (LC 19)
Max Uplift 2=-124 (LC 7), 7=-49 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-1154/54, 12-13=-1136/63, 3-13=-1103/65
BOT CHORD 2-15=-72/1106, 15-16=-72/1106, 8-16=-72/1106, 8-17=-72/1106, 7-17=-72/1106
WEBS 3-7=-1086/86

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; 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
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 2 and 49 lb uplift at joint 7.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-5=-20, 6-9=-20
Concentrated Loads (lb)
Vert: 13=-5 (F=-3, B=-3), 14=-105 (F=-52, B=-52), 15=9 (F=5, B=5), 16=-23 (F=-11, B=-11), 17=-80 (F=-40, B=-40)

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T1	Common	3	1	Job Reference (optional)

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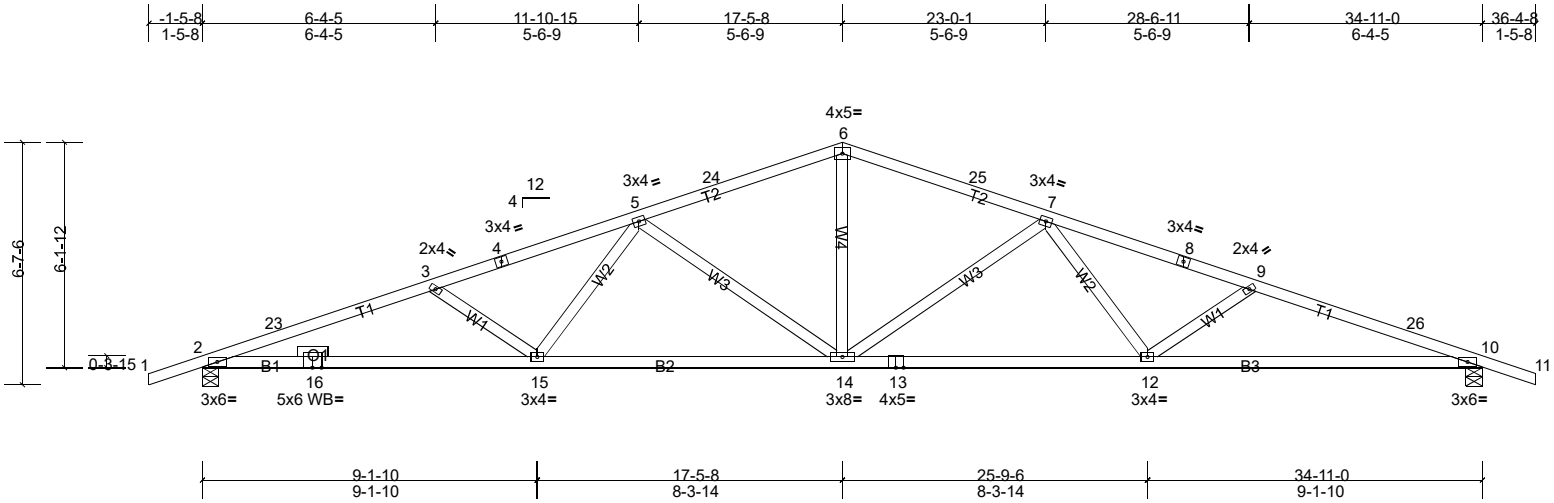


Scale = 1:62.8

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	0.53	Vert(LL)	-0.23	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.50	14-15	>830	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 165 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-9-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=1484/0-5-4, (min. 0-2-5), 10=1484/0-5-8, (min. 0-2-5)
Max Horiz 2=-63 (LC 9)
Max Uplift 2=-223 (LC 11), 10=-223 (LC 11)

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

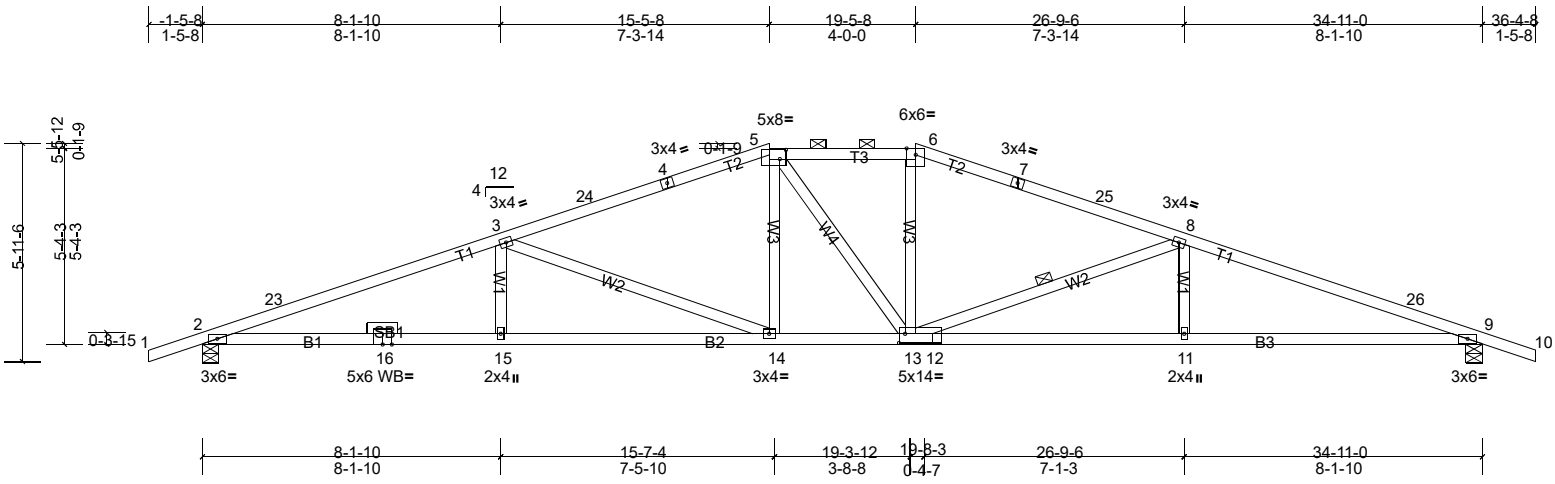
TOP CHORD	2-23=-3615/457, 3-23=-3585/476, 3-4=-3273/392, 4-5=-3219/406, 5-24=-2277/323, 6-24=-2221/342, 6-25=-2221/342, 7-25=-2277/323, 7-8=-3219/406, 8-9=-3273/392, 9-26=-3585/476, 10-26=-3615/457
BOT CHORD	2-16=-377/3401, 15-16=-377/3401, 14-15=-261/2754, 13-14=-261/2754, 12-13=-261/2754, 10-12=-377/3401
WEBS	6-14=-102/1096, 7-14=-809/170, 7-12=0/530, 9-12=-430/155, 5-14=-809/170, 5-15=0/530, 3-15=-430/155

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 2-0-6, Interior (1) 2-0-6 to 17-5-8, Exterior (2) 17-5-8 to 20-11-6, Interior (1) 20-11-6 to 36-4-8 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
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 223 lb uplift at joint 10.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T1A	Hip	2	1	Job Reference (optional)



Scale = 1:62.8

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

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	0.78	Vert(LL)	-0.25	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.56	11-12	>751	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 166 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.1
OTHERS	2x4 SP No.3

REACTIONS (lb/size) 2=1479/0-5-4, (min. 0-2-5), 9=1477/0-5-8, (min. 0-2-5)
Max Horiz 2=-56 (LC 9)
Max Uplift 2=-226 (LC 11), 9=-227 (LC 11)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-0-9 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 8-13

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

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

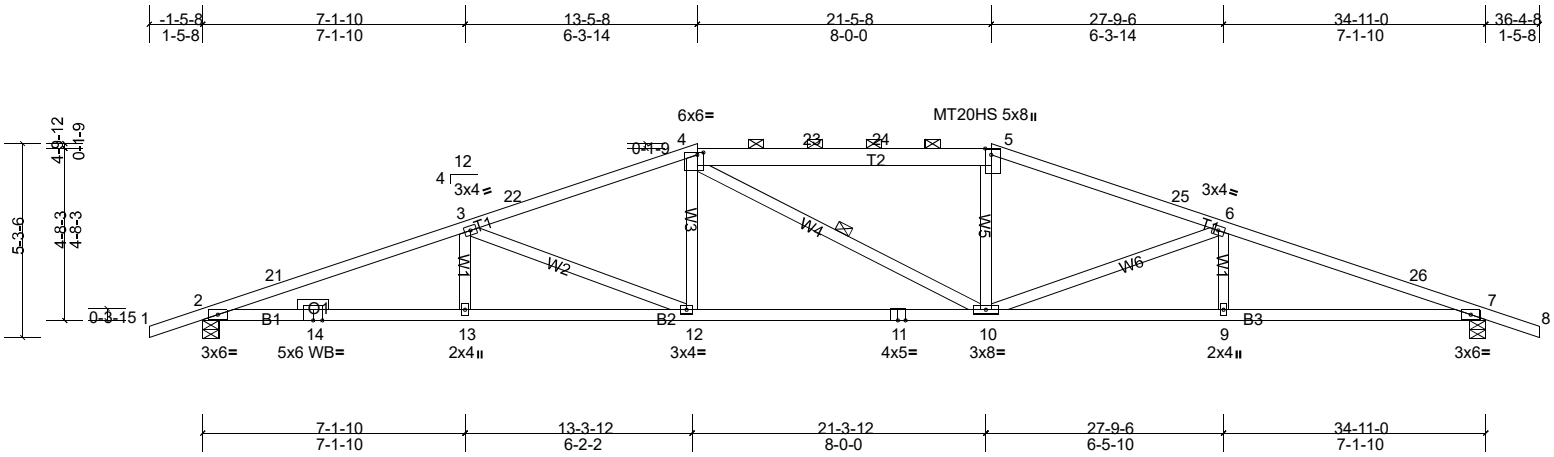
TOP CHORD	2-23=-3531/427, 3-23=-3471/452, 3-24=-2537/347, 4-24=-2464/360, 4-5=-2447/372, 5-6=-2337/387, 6-7=-2433/383, 7-25=-2450/371, 8-25=-2522/358, 8-26=-3475/456, 9-26=-3535/431
BOT CHORD	2-16=-344/3293, 15-16=-344/3293, 14-15=-344/3293, 13-14=-181/2351, 11-12=-348/3297, 9-11=-348/3297
WEBS	3-14=-1030/174, 5-14=0/473, 6-13=-2/441, 12-13=-192/2324, 8-12=-1052/169

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 2-0-6, Interior (1) 2-0-6 to 15-5-8, Exterior (2) 15-5-8 to 24-4-12, Interior (1) 24-4-12 to 36-4-8 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
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 2 and 227 lb uplift at joint 9.
6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) 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	Holland Hip Garage-Roof
Q-2002493-1	T1B	Hip	2	1	Job Reference (optional)



Scale = 1:62.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.23	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.52	10-12	>800	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 169 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1 *Except* T2:2x6 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

REACTIONS (lb/size) 2=1484/0-5-4, (min. 0-2-5), 7=1484/0-5-4, (min. 0-2-5)
Max Horiz 2=49 (LC 10)
Max Uplift 2=-223 (LC 11), 7=-223 (LC 11)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-8-6 oc purlins, except 2-0-0 oc purlins (4-2-11 max.): 4-5.
BOT CHORD	Rigid ceiling 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.

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

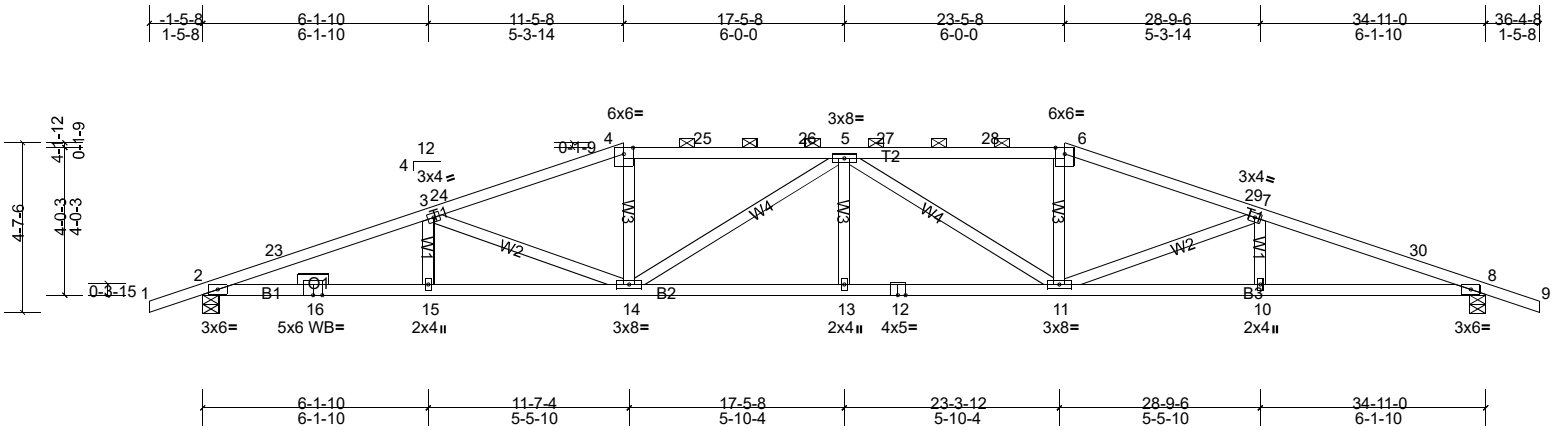
TOP CHORD	2-21=-3601/427, 3-21=-3562/449, 3-22=-2838/361, 4-22=-2776/382, 4-23=-2636/383, 23-24=-2636/383, 5-24=-2636/383, 5-25=-2755/381, 6-25=-2817/360, 6-26=-3562/448, 7-26=-3601/426
BOT CHORD	2-14=-348/3379, 13-14=-348/3379, 12-13=-348/3379, 11-12=-214/2627, 10-11=-214/2627, 9-10=-347/3379, 7-9=-347/3379
WEBS	3-12=-802/145, 4-12=0/435, 5-10=0/429, 6-10=-819/144

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 2-0-6, Interior (1) 2-0-6 to 13-5-8, Exterior (2) 13-5-8 to 18-4-12, Interior (1) 18-4-12 to 21-5-8, Exterior (2) 21-5-8 to 26-4-12, Interior (1) 26-4-12 to 36-4-8 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 223 lb uplift at joint 7.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) 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	Holland Hip Garage-Roof
Q-2002493-1	T1C	Hip	2	1	Job Reference (optional)



Scale = 1:62.7

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	0.50	Vert(LL)	-0.27	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.55	13-14	>756	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.16	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 168 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-10-3 oc purlins, except 2-0-0 oc purlins (3-3-8 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=1484/0-5-4, (min. 0-2-5), 8=1484/0-5-4, (min. 0-2-5)
Max Horiz 2=42 (LC 10)
Max Uplift 2=-223 (LC 11), 8=-223 (LC 11)

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

TOP CHORD	2-23=-3678/432, 3-23=-3633/450, 3-24=-3047/385, 4-24=-3040/404, 4-25=-2876/403, 25-26=-2876/403, 5-26=-2878/402, 5-27=-2878/402, 27-28=-2876/403, 6-28=-2876/403, 6-29=-3040/404, 7-29=-3047/385, 7-30=-3633/450, 8-30=-3678/432
BOT CHORD	2-16=-356/3447, 15-16=-356/3447, 14-15=-356/3447, 13-14=-318/3320, 12-13=-318/3320, 11-12=-318/3320, 10-11=-356/3447, 8-10=-356/3447
WEBS	3-14=-647/110, 4-14=-14/632, 5-14=-665/77, 5-11=-665/77, 6-11=-14/632, 7-11=-647/110

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 2-0-6, Interior (1) 2-0-6 to 11-5-8, Exterior (2) 11-5-8 to 16-4-12, Interior (1) 16-4-12 to 23-5-8, Exterior (2) 23-5-8 to 28-4-12, Interior (1) 28-4-12 to 36-4-8 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
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 223 lb uplift at joint 8.
6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) 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	Holland Hip Garage-Roof
Q-2002493-1	T1D	Hip	2	1	Job Reference (optional)

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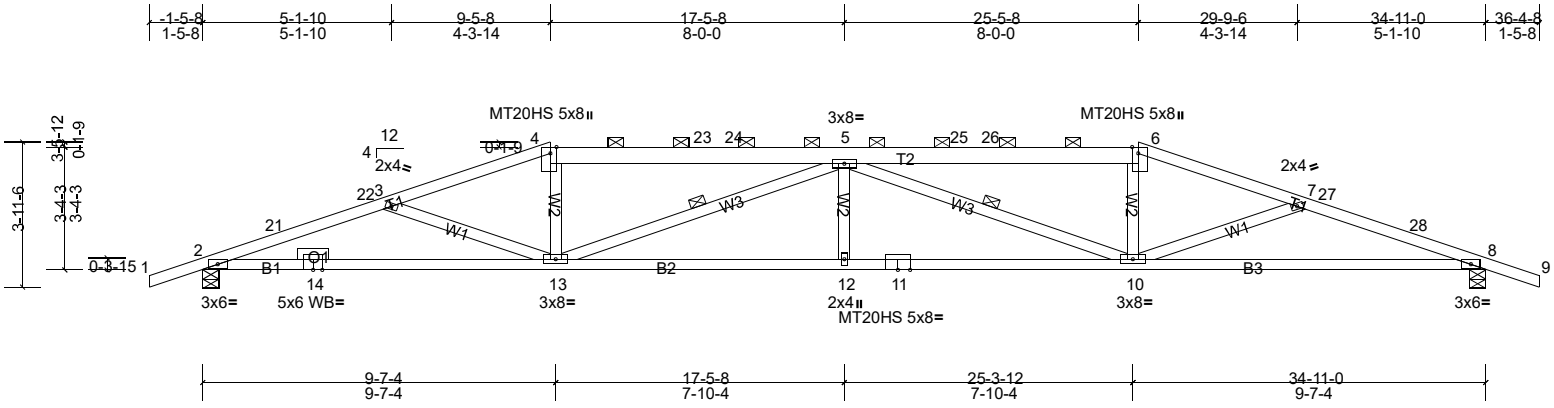

Scale = 1:62.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.34	12	>999	240	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.68	12-13	>618	180	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.18	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 175 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1 *Except* T2:2x6 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

REACTIONS (lb/size) 2=1484/0-5-4, (min. 0-2-5), 8=1484/0-5-4, (min. 0-2-5)
Max Horiz 2=-36 (LC 9)
Max Uplift 2=-223 (LC 11), 8=-223 (LC 11)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins, except 2-0-0 oc purlins (3-11-4 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 9-4-1 oc bracing.
WEBS	1 Row at midpt 5-13, 5-10

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

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

TOP CHORD	2-21=-3681/477, 21-22=-3658/489, 3-22=-3612/491, 3-4=-3331/409, 4-23=-3169/407, 23-24=-3169/406, 5-24=-3173/406, 5-25=-3173/406, 25-26=-3169/406, 6-26=-3169/407, 6-7=-3331/409, 7-27=-3612/491, 27-28=-3658/489, 8-28=-3681/477
BOT CHORD	2-14=-397/3470, 13-14=-397/3470, 12-13=-445/4184, 11-12=-445/4184, 10-11=-445/4184, 8-10=-397/3470
WEBS	3-13=-363/124, 4-13=0/693, 5-13=-1223/175, 5-10=-1223/175, 6-10=0/693, 7-10=-363/124

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 2-0-6, Interior (1) 2-0-6 to 9-5-8, Exterior (2) 9-5-8 to 14-4-12, Interior (1) 14-4-12 to 25-5-8, Exterior (2) 25-5-8 to 30-4-12, Interior (1) 30-4-12 to 36-4-8 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 223 lb uplift at joint 8.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) 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	Holland Hip Garage-Roof
Q-2002493-1	T1GRD	Hip Girder	2	3	Job Reference (optional)

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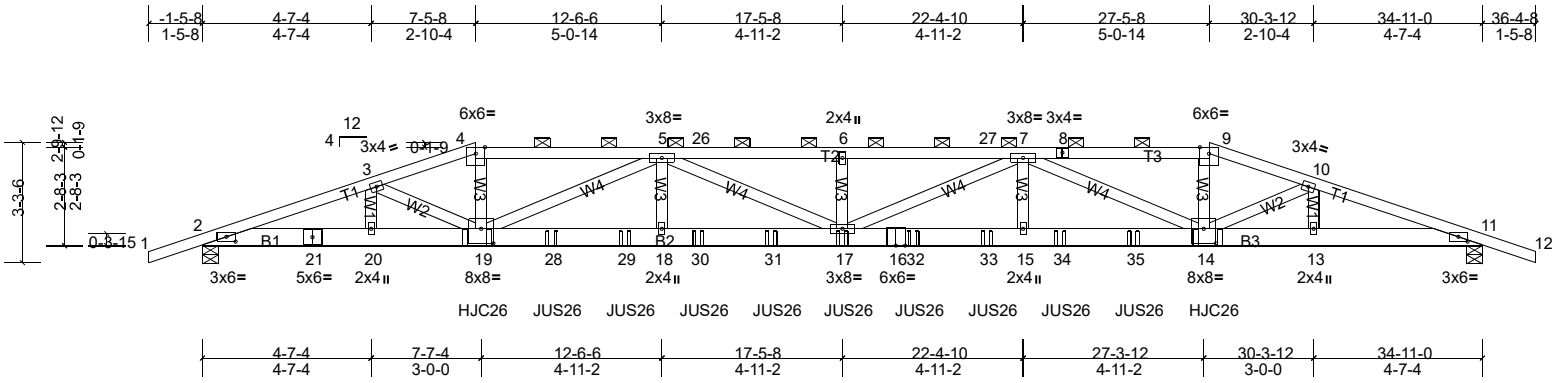

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Plate Offsets (X, Y): [2:0-3-0,0-1-9], [11:0-3-0,0-1-9], [14:0-4-0,0-4-12], [19:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.37	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.72	17	>582	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 588 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP DSS
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3

REACTIONS (lb/size) 2=3463/0-5-4, (min. 0-1-13), 11=3463/0-5-4, (min. 0-1-13)
Max Horiz 2=-29 (LC 5)
Max Uplift 2=-552 (LC 7), 11=-552 (LC 7)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

TOP CHORD 2-3=-10012/1482, 3-4=-10228/1554, 4-5=-9944/1520, 5-26=-14545/2255, 6-26=-14545/2255, 6-27=-14545/2255, 7-27=-14545/2255, 7-8=-9948/1519, 8-9=-9949/1521, 9-10=-10233/1554, 10-11=-10009/1482

BOT CHORD 2-21=-1344/9473, 20-21=-1344/9473, 19-20=-1344/9473, 19-28=-1987/13480, 28-29=-1987/13480, 18-29=-1987/13480, 18-30=-1987/13480, 30-31=-1987/13480, 17-31=-1987/13480, 16-17=-1990/13502, 16-32=-1990/13502, 32-33=-1990/13502, 15-33=-1990/13502, 15-34=-1990/13502, 34-35=-1990/13502, 14-35=-1990/13502, 13-14=-1344/9471, 11-13=-1344/9471

WEBS 3-19=-203/528, 4-19=-386/2849, 5-19=-3974/631, 5-18=-59/733, 5-17=-183/1248, 6-17=-258/108, 7-17=-179/1225, 7-15=-59/733, 7-14=-3989/634, 9-14=-387/2850, 10-14=-201/537

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-19 2x4 - 2 rows staggered at 0-6-0 oc, Except member 9-14 2x4 - 2 rows staggered at 0-6-0 oc, member 6-17 2x4 - 1 row at 0-8-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; 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
5) Provide adequate drainage to prevent water ponding.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 552 lb uplift at joint 2 and 552 lb uplift at joint 11.
8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 19-11-4 oc max. starting at 7-5-14 from the left end to 27-5-2 to connect truss (es) T2 (1 ply 2x4 SP), H1 (1 ply 2x4 SP), T2 (1 ply 2x4 SP), H1 (1 ply 2x4 SP) to back face of bottom chord.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-6-4 from the left end to 25-4-12 to connect truss(es) T2 (1 ply 2x4 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

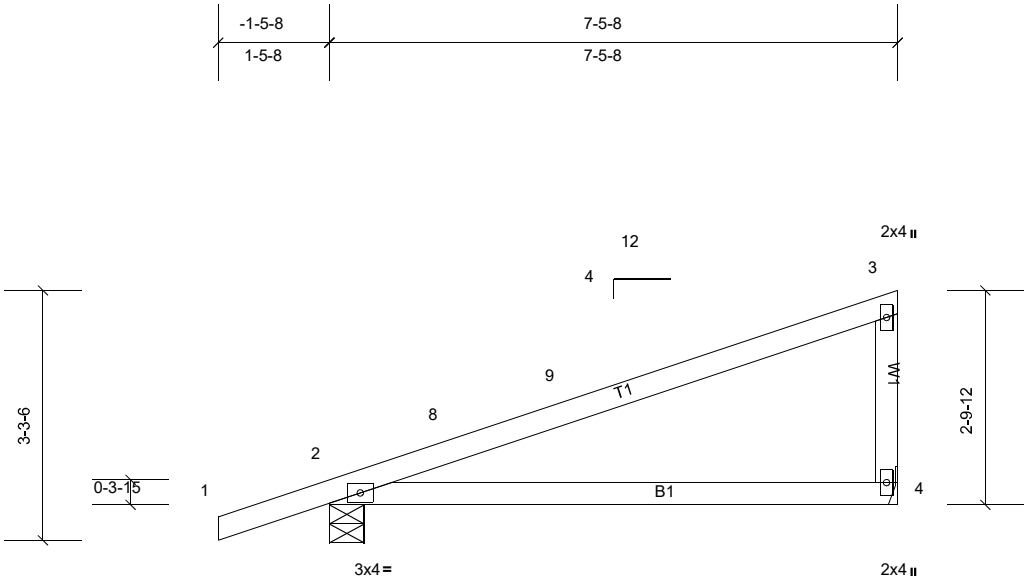
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T1GRD	Hip Girder	2	**3**	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-4=-60, 4-9=-60, 9-12=-60, 2-11=-20
   Concentrated Loads (lb)
   Vert: 19=-792 (B), 17=-264 (B), 14=-792 (B), 28=-264 (B), 29=-264 (B), 30=-264 (B), 31=-264 (B), 32=-264 (B), 33=-264 (B), 34=-264 (B), 35=-264 (B)

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T2	Jack-Closed	22	1	Job Reference (optional)



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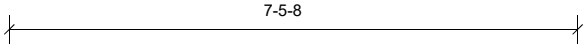


Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.10	4-7	>844	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.25	4-7	>354	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 29 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

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

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

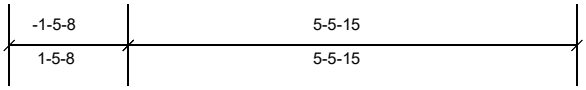
REACTIONS (lb/size) 2=389/0-5-8, (min. 0-1-8), 4=284/ Mechanical, (min. 0-1-8)
Max Horiz 2=84 (LC 10)
Max Uplift 2=-87 (LC 11), 4=-36 (LC 11)

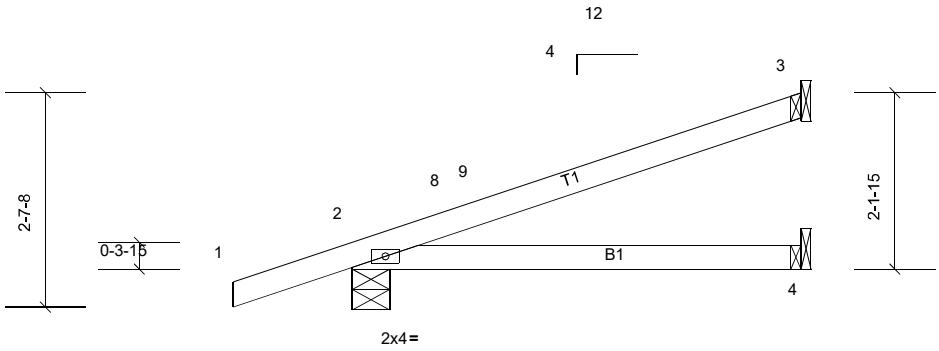
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 1-6-8, Interior (1) 1-6-8 to 7-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 4 and 87 lb uplift at joint 2.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T3	Jack-Open	4	1	Job Reference (optional)





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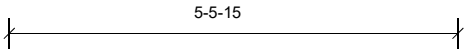

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	4-7	>909	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

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

REACTIONS (lb/size) 2=317/0-5-8, (min. 0-1-8), 3=137/ Mechanical, (min. 0-1-8), 4=68/ Mechanical, (min. 0-1-8)
Max Horiz 2=84 (LC 11)
Max Uplift 2=-75 (LC 11), 3=-48 (LC 11)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 1-6-8, Interior (1) 1-6-8 to 5-5-3 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 75 lb uplift at joint 2.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T3A	Jack-Open	4	1	Job Reference (optional)

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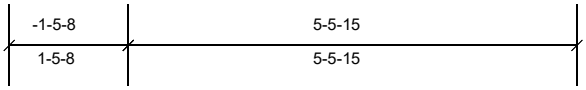

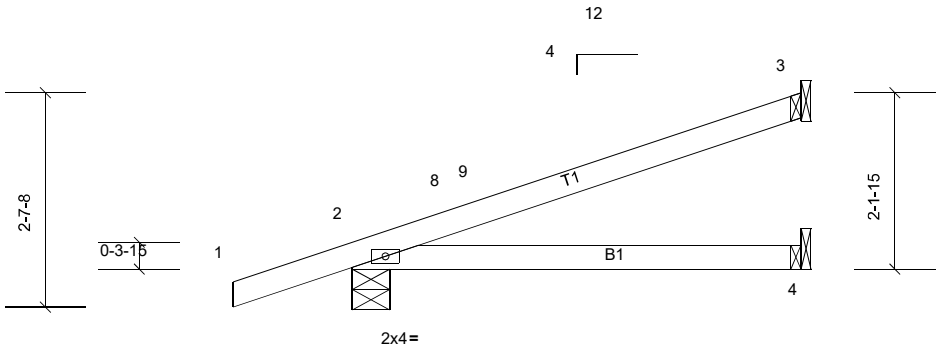

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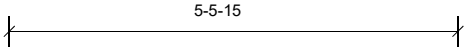

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	4-7	>909	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

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

REACTIONS (lb/size) 2=317/0-5-8, (min. 0-1-8), 3=137/ Mechanical, (min. 0-1-8), 4=68/ Mechanical, (min. 0-1-8)
Max Horiz 2=84 (LC 11)
Max Uplift 2=-75 (LC 11), 3=-48 (LC 11)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 1-6-8, Interior (1) 1-6-8 to 5-5-3 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 75 lb uplift at joint 2.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T4	Jack-Open	4	1	Job Reference (optional)

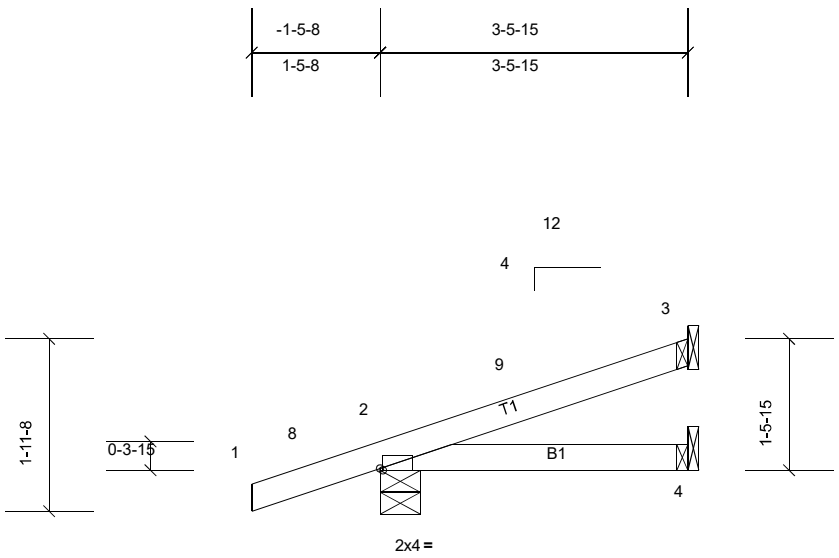

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Plate Offsets (X, Y): [2:0-0-6,Edge]

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	0.10	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

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

REACTIONS (lb/size) 2=243/0-5-8, (min. 0-1-8), 3=79/ Mechanical, (min. 0-1-8), 4=40/ Mechanical, (min. 0-1-8)
Max Horiz 2=62 (LC 11)
Max Uplift 2=-73 (LC 11), 3=-25 (LC 11)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 1-6-8, Interior (1) 1-6-8 to 3-5-3 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3 and 73 lb uplift at joint 2.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T4A	Jack-Open	4	1	Job Reference (optional)

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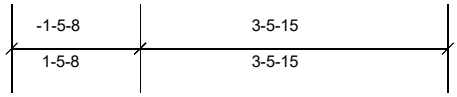

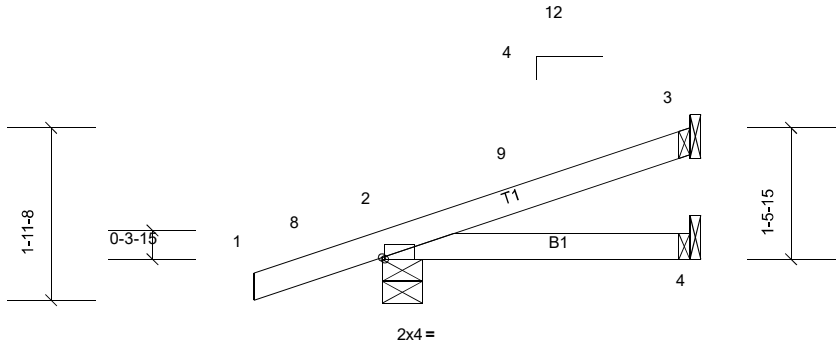

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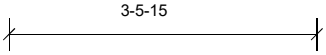


Plate Offsets (X, Y): [2:0-0-6,Edge]

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	0.10	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

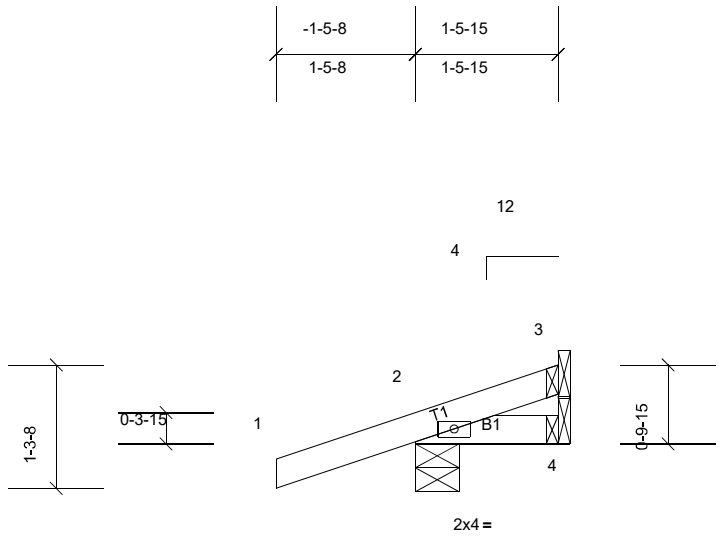
REACTIONS (lb/size) 2=243/0-5-8, (min. 0-1-8), 3=79/ Mechanical, (min. 0-1-8), 4=40/ Mechanical, (min. 0-1-8)
Max Horiz 2=62 (LC 11)
Max Uplift 2=-73 (LC 11), 3=-25 (LC 11)

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

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-5-8 to 1-6-8, Interior (1) 1-6-8 to 3-5-3 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3 and 73 lb uplift at joint 2.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T5	Jack-Open	4	1	Job Reference (optional)



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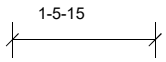


Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

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

REACTIONS (lb/size) 2=190/0-5-8, (min. 0-1-8), 3=15/ Mechanical, (min. 0-1-8), 4=1/ Mechanical, (min. 0-1-8)
Max Horiz 2=40 (LC 11)
Max Uplift 2=-84 (LC 11)
Max Grav 2=190 (LC 1), 3=15 (LC 1), 4=15 (LC 11)

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

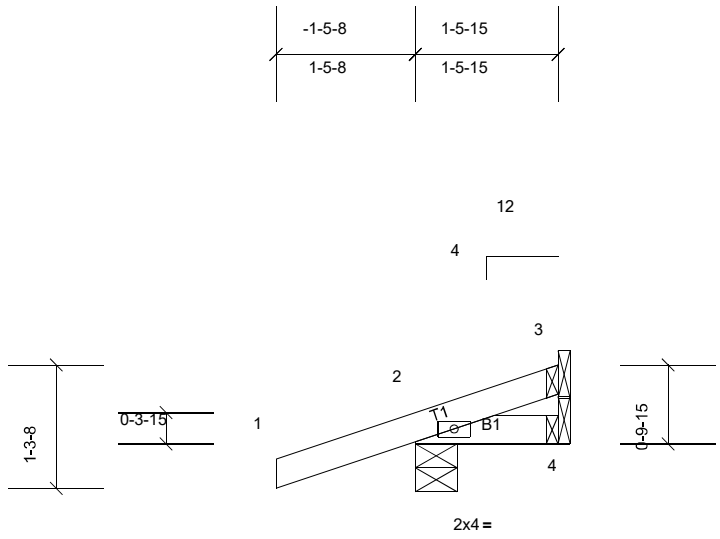
BRACING
TOP CHORD Structural wood sheathing directly applied or 1-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2.
5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Holland Hip Garage-Roof
Q-2002493-1	T5A	Jack-Open	4	1	Job Reference (optional)



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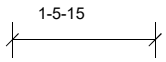

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

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

REACTIONS (lb/size) 2=190/0-5-4, (min. 0-1-8), 3=15/ Mechanical, (min. 0-1-8), 4=1/ Mechanical, (min. 0-1-8)
Max Horiz 2=40 (LC 11)
Max Uplift 2=-84 (LC 11)
Max Grav 2=190 (LC 1), 3=15 (LC 1), 4=15 (LC 11)

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

NOTES
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
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5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard