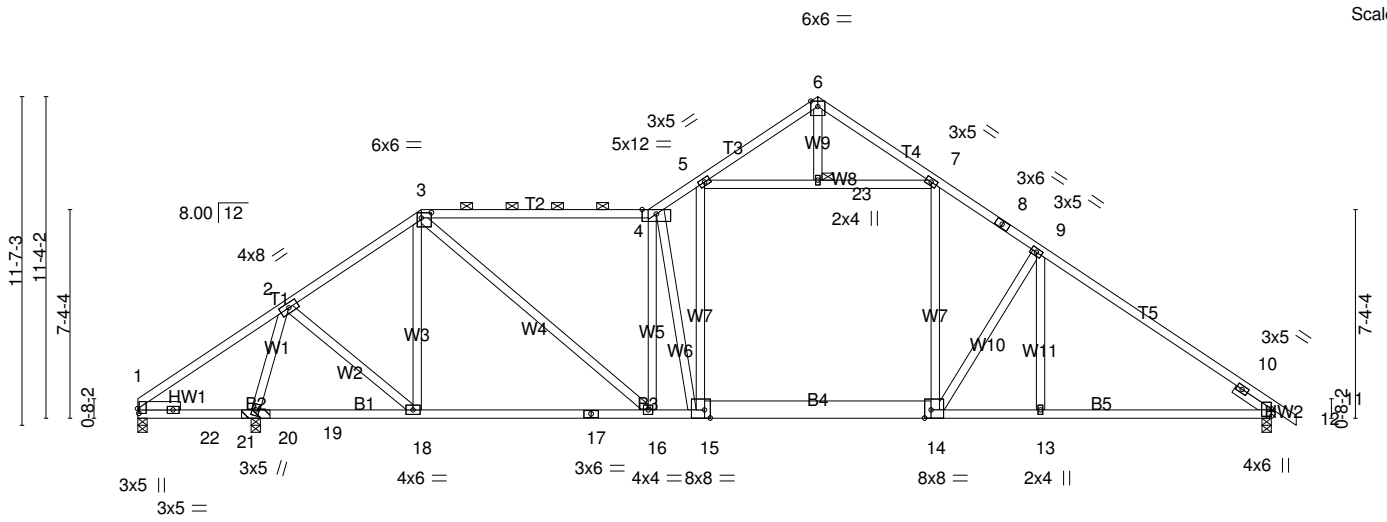
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	A	Roof Special	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:32 2021 Page 1
ID:1OUQItubALAJMlaPgftmcUyoJ6G-2IlkJk6TuaVxgmtL097oxAjwIRKsUEUvCDka?Ey9Pjr

5-1-13	10-0-2	18-0-2	20-0-0	24-0-0	28-0-0	31-10-4	40-0-0	40-10-8
5-1-13	4-10-5	8-0-0	1-11-14	4-0-0	4-0-0	3-10-4	8-1-12	0-10-8

Scale = 1:81.3



4-2-0	10-0-2	18-0-2	20-0-0	24-0-0	28-0-0	31-10-4	40-0-0
4-2-0	5-10-2	8-0-0	1-11-14	4-0-0	4-0-0	3-10-4	8-1-12

Plate Offsets (X,Y)-- [1:0-2-0,0-0-9], [3:0-4-4,0-2-4], [11:0-3-3,0-0-1], [14:0-2-12,Edge], [15:0-2-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.22	15-16	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.39	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 214 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except* T2: 2x4 SP DSS
BOT CHORD	2x4 SPF No.2 *Except* B4: 2x8 SP No.1
WEBS	2x4 SPF Stud
SLIDER	Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-14 oc purlins, except 2-0-0 oc purlins (4-4-5 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-10-5 oc bracing: 1-20 6-0-0 oc bracing: 18-20.
JOINTS	1 Brace at Jt(s): 23

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

REACTIONS. (lb/size) 1=-550/0-4-0 (min. 0-1-8), 20=2396/(0-4-0 + bearing block) (req. 0-4-4), 11=1406/0-4-0 (min. 0-2-9)
Max Horz 1=-214(LC 8)
Max Uplift1=-766(LC 23), 20=-711(LC 12), 11=-278(LC 13)
Max Grav 1=338(LC 9), 20=2693(LC 20), 11=1636(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension

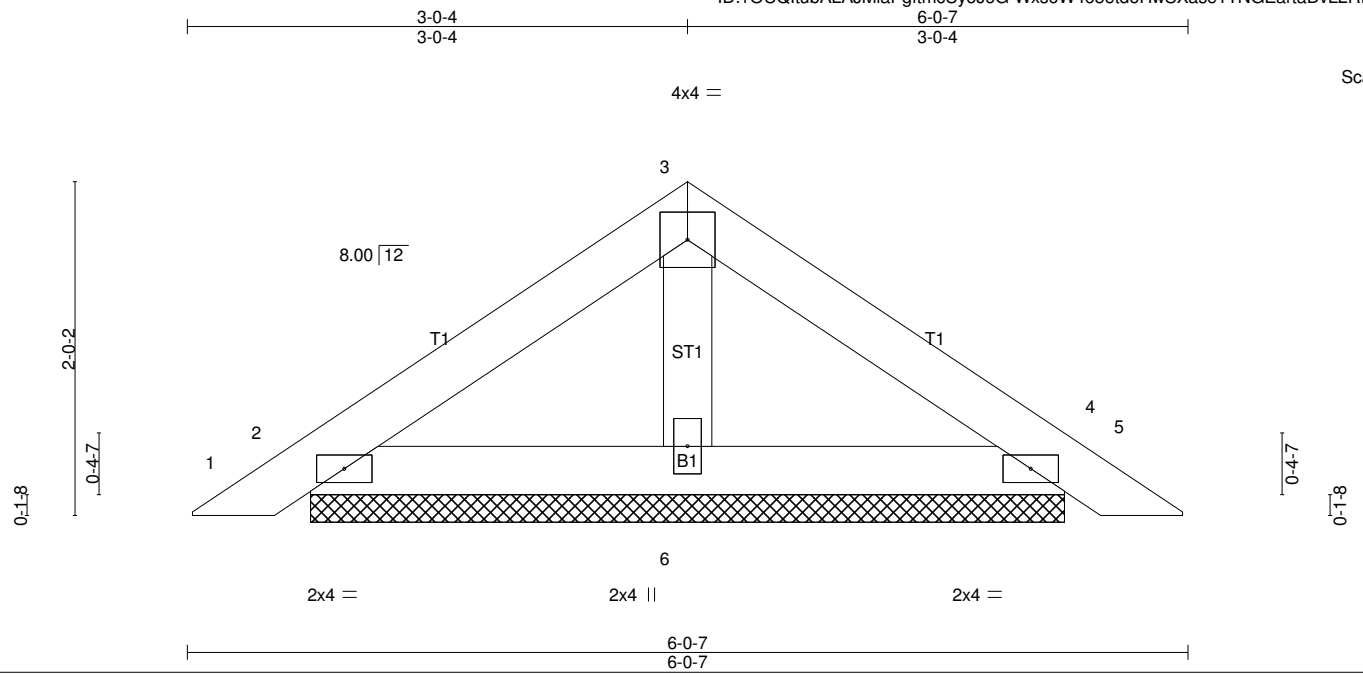
TOP CHORD	1-32=-553/1400, 2-32=-535/1489, 2-33=-1139/307, 3-33=-1019/327, 3-34=-1858/411, 4-34=-1858/411, 4-5=-1991/466, 5-6=-366/138, 6-7=-380/139, 7-8=-1913/421, 8-9=-1950/405, 9-35=-2150/390, 10-35=-2248/366, 10-11=-803/0, 11-12=0/49
BOT CHORD	1-22=-246/313, 21-22=-1049/384, 20-21=-1049/384, 19-20=-382/190, 18-19=-382/190, 18-36=-9/762, 17-36=-9/762, 16-17=-9/762, 15-16=-156/1686, 14-15=-93/1473, 13-14=-182/1741, 13-37=-182/1741, 11-37=-182/1741
WEBS	2-20=-2546/709, 2-18=-251/1403, 3-18=-671/269, 3-16=-198/1266, 4-16=-556/217, 4-15=-845/264, 6-23=-26/106, 9-14=-506/249, 9-13=0/210, 5-15=-141/852, 7-14=-100/700, 5-23=-1362/338, 7-23=-1362/338

NOTES-

1) 2x4 SPF No.2 bearing block 12" long at jt. 20 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 10-0-2, Exterior(2) 10-0-2 to 14-0-2, Interior(1) 14-0-2 to 24-0-0, Exterior(2) 24-0-0 to 28-1-12, Interior(1) 28-1-12 to 40-10-8 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
3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 766 lb uplift at joint 1, 711 lb uplift at joint 20 and 278 lb uplift at joint 11.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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	Barnes - Beverly A
BARNES FILE 2	ACP	Piggyback	10	1	Job Reference (optional)



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	4	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4	n/r	90		
TCDL	10.0	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: 15 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 2=130/4-6-9 (min. 0-1-8), 4=130/4-6-9 (min. 0-1-8), 6=160/4-6-9 (min. 0-1-8)
Max Horz 2=35(LC 11)
Max Uplift2=-40(LC 12), 4=-44(LC 13), 6=-1(LC 12)
Max Grav 2=130(LC 1), 4=132(LC 21), 6=160(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-63/35, 3-4=-56/35, 4-5=0/23
BOT CHORD 2-6=-8/27, 4-6=-8/27
WEBS 3-6=-104/42

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 40 lb uplift at joint 2, 44 lb uplift at joint 4 and 1 lb uplift at joint 6.
8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	AG	Roof Special Girder	1	1	Job Reference (optional)

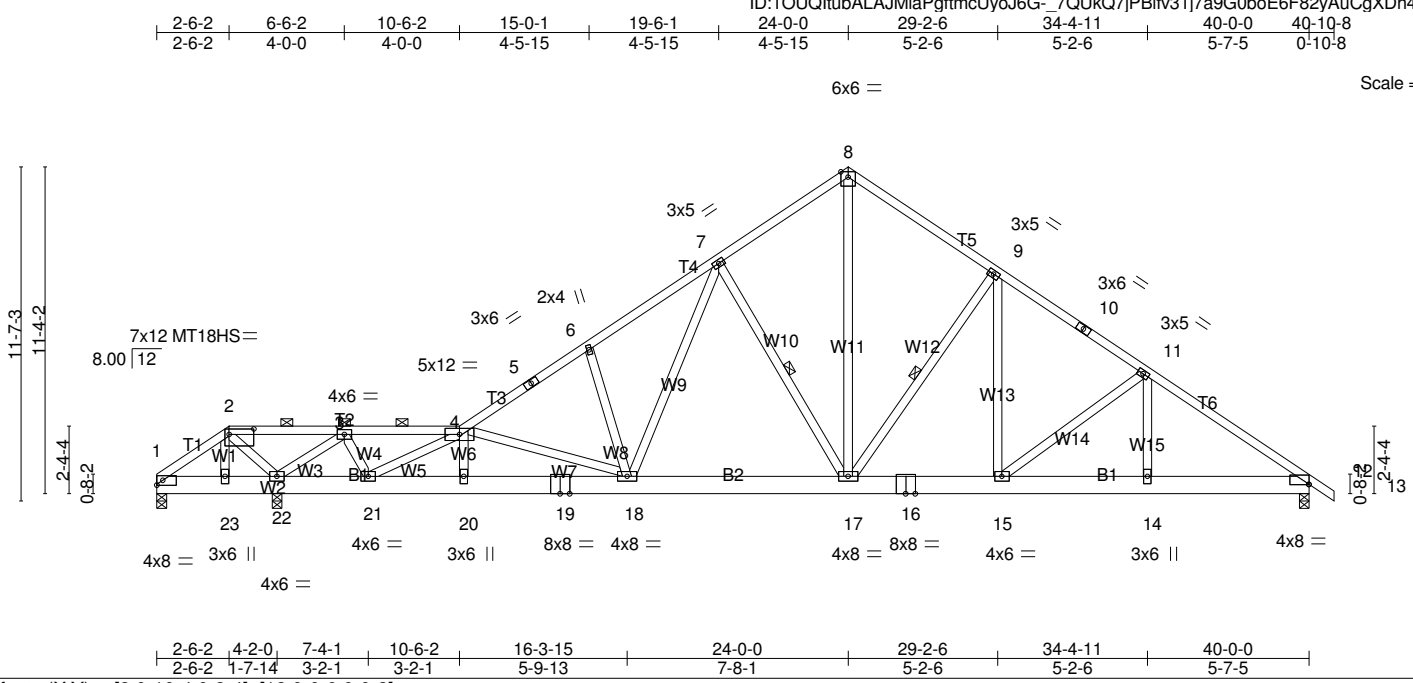


Plate Offsets (X,Y)-- [2:0-10-4,0-2-4], [12:0-0-0,0-0-2]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.10	18	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.20	17-18	>999	180	MT18HS	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.02	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 264 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except 2-0-0 oc purlins (8-4-7 max.): 2-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-17, 9-17

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

REACTIONS. (lb/size) 1=-990/0-4-0 (min. 0-1-8), 22=2890/0-4-0 (req. 0-4-11), 12=1352/0-4-0 (min. 0-2-4)
Max Horz 1=-214(LC 30)
Max Uplift 1=-1046(LC 38), 22=-688(LC 12), 12=-243(LC 13)
Max Grav 1=213(LC 12), 22=2995(LC 38), 12=1427(LC 39)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-357/1793, 2-30=-494/2384, 3-30=-494/2384, 3-4=-116/258, 4-5=-1994/334, 5-6=-1925/345, 6-7=-1947/415, 7-31=-1391/348, 8-31=-1329/367, 8-32=-1310/363, 9-32=-1387/341, 9-10=-1642/353, 10-11=-1742/332, 11-33=-1967/344, 12-33=-2042/331, 12-13=0/49
BOT CHORD 1-23=-1535/348, 22-23=-1528/347, 22-34=-781/281, 34-35=-781/281, 21-35=-781/281, 20-21=-347/1885, 19-20=-342/1883, 18-19=-342/1883, 18-36=-168/1407, 36-37=-168/1407, 17-37=-168/1407, 16-17=-105/1370, 16-38=-105/1370, 15-38=-105/1370, 14-15=-186/1605, 12-14=-186/1605
WEBS 2-23=-89/26, 2-22=-1454/359, 3-22=-2181/476, 3-21=-169/1235, 4-21=-2301/407, 4-20=-24/105, 4-18=-261/90, 6-18=-311/202, 7-18=-138/624, 7-17=-633/269, 8-17=-271/1194, 9-17=-633/258, 9-15=-42/364, 11-15=-376/176, 11-14=0/177

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 6-6-2, Interior(1) 6-6-2 to 24-0-0, Exterior(2) 24-0-0 to 28-0-0, Interior(1) 28-0-0 to 40-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) WARNING: Required bearing size at joint(s) 22 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1046 lb uplift at joint 1, 688 lb uplift at joint 22 and 243 lb uplift at joint 12.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) 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

NOTES-

12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 67 lb up at 2-6-2, and 67 lb down and 60 lb up at 4-6-14, and 66 lb down and 60 lb up at 6-6-14 on top chord, and 20 lb down and 28 lb up at 2-6-14, and 20 lb down and 28 lb up at 4-6-14, and 20 lb down and 28 lb up at 6-6-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-4=-60, 4-8=-60, 8-13=-60, 24-27=-20

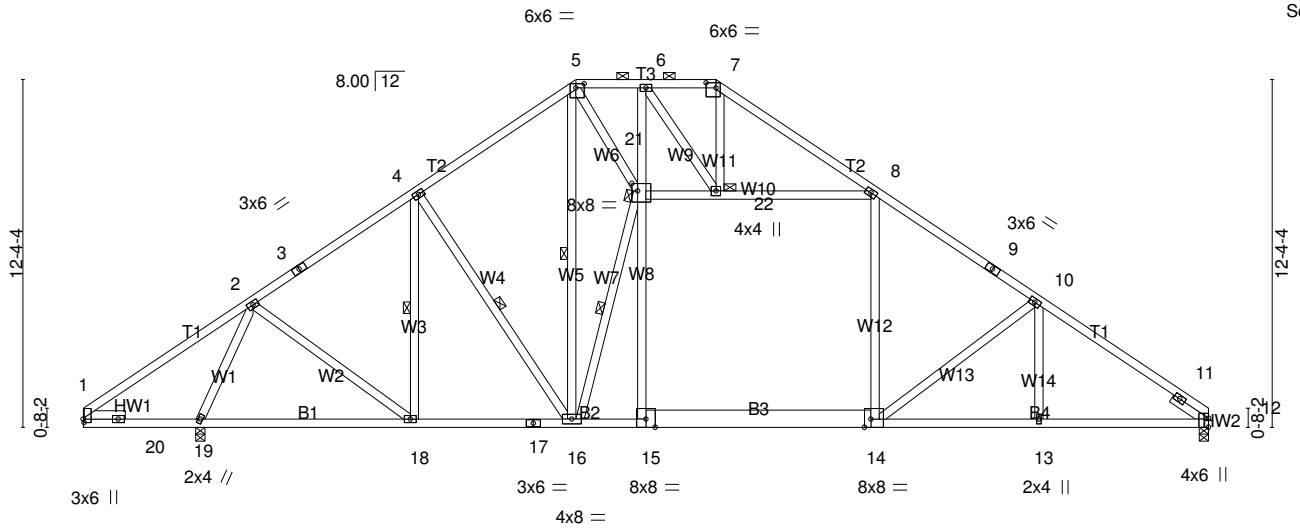
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	AH	Hip	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:34 2021 Page 1
ID:1OUQItubALAJMIaPgftmcUyoJ6G-_7QUkQ7jPBIfv31j7a9G0boHrF2jy9WCgXDh46y9Pjp

6-0-6	11-9-4	17-6-2	20-0-0	22-5-14	28-0-0	28-2-12	33-11-10	40-0-0
6-0-6	5-8-14	5-8-14	2-5-14	2-5-14	5-6-2	0-2-12	5-8-14	6-0-6

Scale = 1:81.9



4-0-0	4-2-0	11-9-4	17-6-2	20-0-0	22-5-14	28-0-0	31-1-3	33-11-10	40-0-0
4-0-0	0-2-0	7-7-4	5-8-14	2-5-14	2-5-14	5-6-2	3-1-3	2-10-7	6-0-6

Plate Offsets (X,Y)-- [1:0-1-9,0-0-5], [5:0-3-8,0-1-12], [7:0-4-4,0-2-4], [12:0-3-15,Edge], [14:0-2-12,Edge], [21:0-2-8,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.18	13-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.31	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 233 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B3: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-19.
WEBS 1 Row at midpt 4-18, 4-16, 5-16, 16-21
JOINTS 1 Brace at Jt(s): 21, 22

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

REACTIONS. (lb/size) 19=1783/0-4-0 (min. 0-2-15), 12=1417/0-4-0 (min. 0-2-7)
Max Horz 19=227(LC 9)
Max Uplift19=-300(LC 12), 12=-248(LC 13)
Max Grav 19=1859(LC 19), 12=1543(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-31=-142/234, 2-31=-119/337, 2-3=-1454/280, 3-4=-1311/304, 4-5=-1402/399, 5-6=-500/254, 6-7=-443/189, 7-8=-624/230 , 8-9=-1854/399, 9-10=-1931/374, 10-32=-2138/397, 11-32=-2261/383, 11-12=-841/18
BOT CHORD 1-20=-280/463, 19-20=-204/179, 18-19=-199/700, 18-33=-138/1224, 17-33=-138/1224, 16-17=-138/1224, 15-16=-117/1487, 14-15=-118/1499, 13-14=-240/1782, 12-13=-240/1782
WEBS 2-19=-1820/451, 2-18=-41/731, 4-18=-263/123, 4-16=-209/190, 5-16=-657/1926, 16-21=-1943/696, 7-22=-101/115, 10-13=0/211, 15-21=0/328, 6-21=-133/185, 8-14=-10/470, 10-14=-415/208, 21-22=-1374/518, 8-22=-1318/434, 5-21=-1616/643, 6-22=-153/150

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 17-6-2, Exterior(2) 17-6-2 to 28-1-12, Interior(1) 28-1-12 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x5 MT20 unless otherwise indicated.
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 300 lb uplift at joint 19 and 248 lb uplift at joint 12.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	AV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

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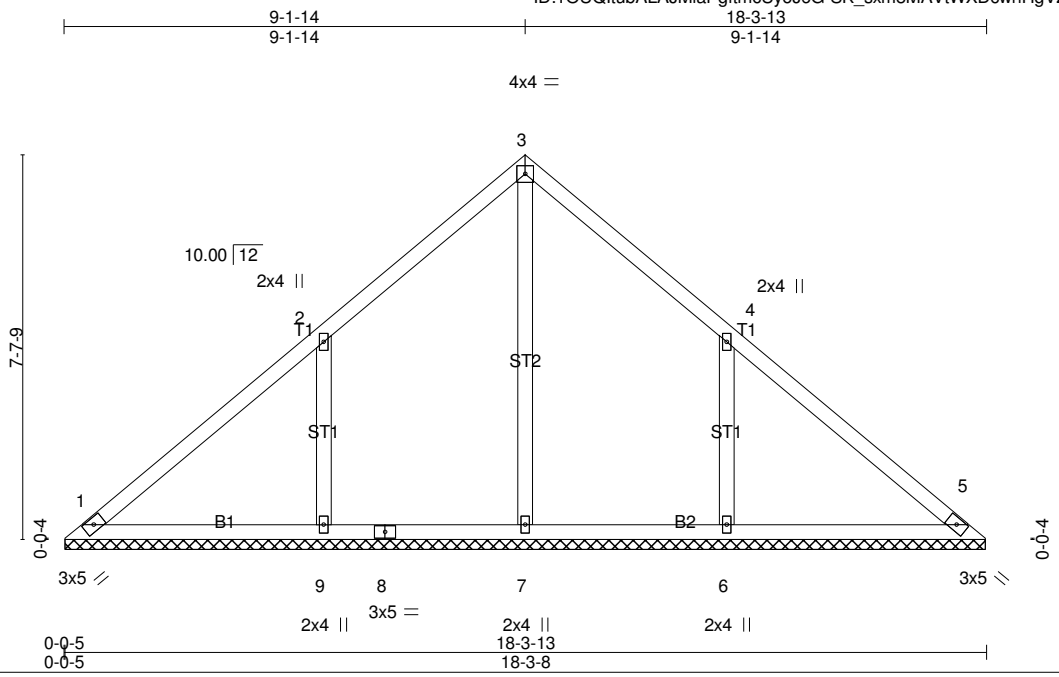


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=180/18-3-3 (min. 0-2-8), 5=180/18-3-3 (min. 0-2-8), 7=193/18-3-3 (min. 0-2-8), 9=424/18-3-3 (min. 0-2-8), 6=424/18-3-3 (min. 0-2-8)
Max Horz 1=-141(LC 8)
Max Uplift1=-11(LC 8), 9=-249(LC 12), 6=-248(LC 13)
Max Grav 1=189(LC 20), 5=180(LC 1), 7=333(LC 22), 9=561(LC 19), 6=561(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-157/94, 2-10=-118/132, 2-11=-173/134, 3-11=-142/153, 3-12=-142/140, 4-12=-173/121, 4-13=-87/101, 5-13=-127/53
BOT CHORD 1-9=-86/139, 8-9=-86/139, 7-8=-86/139, 6-7=-86/139, 5-6=-86/139
WEBS 3-7=-133/15, 2-9=-389/296, 4-6=-389/295

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 9-1-14, Exterior(2) 9-1-14 to 12-1-14, Interior(1) 12-1-14 to 17-10-15 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 249 lb uplift at joint 9 and 248 lb uplift at joint 6.
7) 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

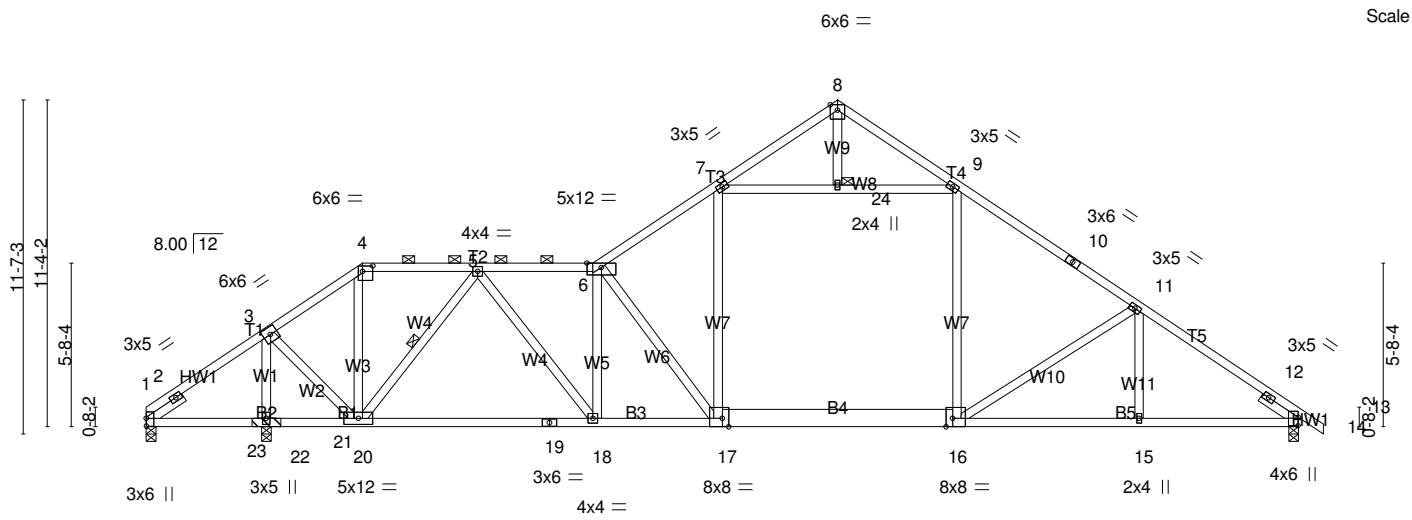
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	B	Roof Special	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:35 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-SK_sxm8MAVtWXDcwhHgVZoLRtfNCheFLuByEcZy9Pjo

4-2-0	7-6-2	11-6-2	15-6-2	19-9-1	24-0-0	28-0-0	29-2-13	34-5-11	40-0-0	40-10-8
4-2-0	3-4-2	4-0-0	4-0-0	4-2-15	4-2-15	4-0-0	1-2-13	5-2-13	5-6-5	0-10-8

Scale = 1:80.0



4-2-0	7-6-2	15-6-2	19-9-1	24-0-0	28-0-0	31-10-4	34-5-11	40-0-0
4-2-0	3-4-2	8-0-0	4-2-15	4-2-15	4-0-0	3-10-4	2-7-7	5-6-5

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.25	17-18	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.36	18-20	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06	13	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 205 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B4: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except 2-0-0 oc purlins (4-1-11 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-2 oc bracing: 1-22
4-11-6 oc bracing: 20-22.
WEBS 1 Row at midpt 5-20
JOINTS 1 Brace at Jt(s): 24

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

REACTIONS. (lb/size) 1=-688/0-4-0 (min. 0-1-8), 22=2553/(0-4-0 + bearing block) (req. 0-4-9), 13=1387/0-4-0 (min. 0-2-7)
Max Horz 1=-214(LC 10)
Max Uplift1=-967(LC 20), 22=-847(LC 12), 13=-281(LC 13)
Max Grav 1=461(LC 9), 22=2901(LC 20), 13=1542(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-335/650, 2-33=-723/1711, 3-33=-711/1798, 3-4=-592/339, 4-5=-460/300, 5-6=-1995/459, 6-7=-1919/457, 7-8=-333/112, 8-9=-345/119, 9-10=-1790/379, 10-11=-1872/361, 11-34=-2065/408, 12-34=-2176/395, 12-13=-856/74, 13-14=0/49
BOT CHORD 1-23=-1262/504, 22-23=-1262/504, 21-22=-1262/504, 20-21=-1262/504, 20-35=-123/1144, 35-36=-123/1144, 19-36=-123/1144, 18-19=-123/1144, 17-18=-184/1816, 16-17=-84/1411, 15-16=-242/1719, 13-15=-242/1719
WEBS 3-22=-2706/788, 3-20=-461/1938, 4-20=-125/254, 5-20=-1429/330, 5-18=-160/1189, 6-18=-708/181, 6-17=-652/174, 7-17=-106/692, 8-24=-29/105, 11-15=0/178, 9-16=0/511, 7-24=-1349/378, 9-24=-1349/378, 11-16=-386/216

NOTES-
1) 2x4 SPF No.2 bearing block 12" long at jt. 22 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-2-0, Interior(1) 4-2-0 to 7-6-2, Exterior(2) 7-6-2 to 11-6-2, Interior(1) 11-6-2 to 24-0-0, Exterior(2) 24-0-0 to 28-1-12, Interior(1) 28-1-12 to 40-10-8 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
3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 1, 847 lb uplift at joint 22 and 281 lb uplift at joint 13.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	BCP	Piggyback	1	2	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:36 2021 Page 1
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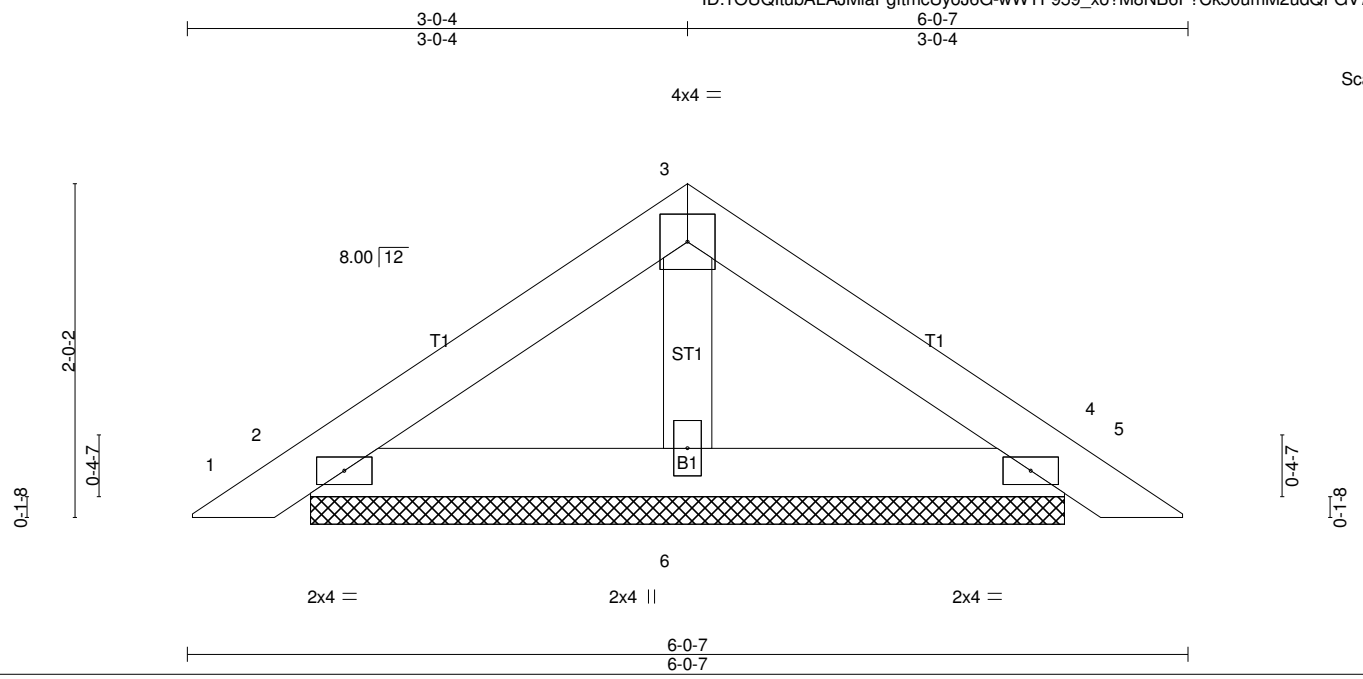

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	4	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-P							Weight: 30 lb	FT = 20%
BCDL	10.0											

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

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. (lb/size) 2=130/4-6-9 (min. 0-1-8), 4=130/4-6-9 (min. 0-1-8), 6=160/4-6-9 (min. 0-1-8)
Max Horz 2=35(LC 11)
Max Uplift2=-40(LC 12), 4=-44(LC 13), 6=-1(LC 12)
Max Grav 2=130(LC 1), 4=132(LC 21), 6=160(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-63/35, 3-4=-56/35, 4-5=0/23
BOT CHORD 2-6=-8/27, 4-6=-8/27
WEBS 3-6=-104/42

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 0-9-0 oc.
Bottom chords 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 Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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
4) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 44 lb uplift at joint 4 and 1 lb uplift at joint 6.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	BG	ATTIC	1	2	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:36 2021 Page 1
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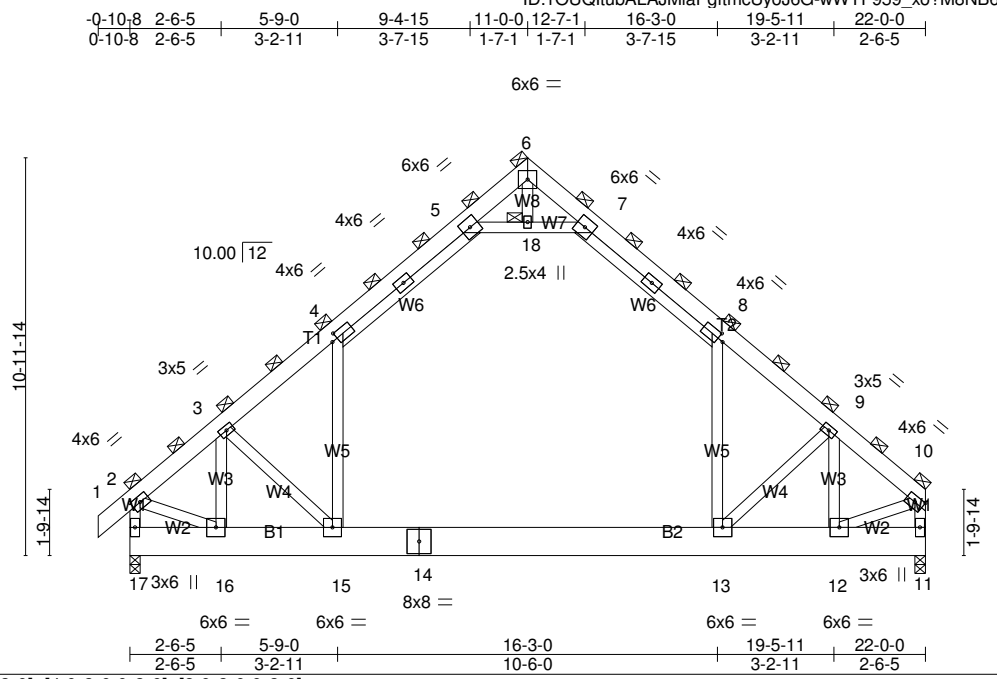

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [4:0-2-0,0-2-0], [8:0-2-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	4-0-0	TC 0.78	Vert(LL)	-0.18 13-15	>999	240	MT20	197/144
(Roof Snow=20.0)	Plate Grip DOL 1.15	BC 0.62	Vert(CT)	-0.30 13-15	>867	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.41	Horz(CT)	0.01 11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Attic	-0.08 13-15	1520	360	Weight: 384 lb	FT = 20%
BCDL 10.0	Code IBC2015/TPI2014							

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x10 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 18, 2, 10

REACTIONS. (lb/size) 17=2191/0-3-8 (min. 0-2-3), 11=2062/0-3-8 (min. 0-2-1)
Max Horz 17=443(LC 11)
Max Uplift 17=-66(LC 12), 11=-32(LC 13)
Max Grav 17=2765(LC 21), 11=2648(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/131, 2-19=-2368/97, 3-19=-2246/101, 3-4=-3114/127, 4-20=-1966/281, 5-20=-1735/302, 5-6=-41/921, 6-7=-41/921, 7-21=-1734/302, 8-21=-1966/282, 8-22=-2932/128, 9-22=-3117/96, 9-10=-2376/87, 2-17=-2552/160, 10-11=-2438/95
BOT CHORD 16-17=-402/415, 15-16=-170/2107, 14-15=0/1963, 13-14=0/1963, 12-13=-16/1833, 11-12=-13/64
WEBS 5-18=-3195/380, 7-18=-3195/380, 4-15=0/1600, 8-13=0/1602, 3-16=-1441/74, 9-12=-1435/87, 3-15=-391/453, 9-13=-405/451, 6-18=0/200, 2-16=0/2006, 10-12=-3/2012

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 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 Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0, Exterior(2) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 21-10-4 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
4) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
5) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-18, 7-18; Wall dead load (5.0psf) on member(s).4-15, 8-13
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 17 and 32 lb uplift at joint 11.
11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	BH	Hip	1	1	Job Reference (optional)

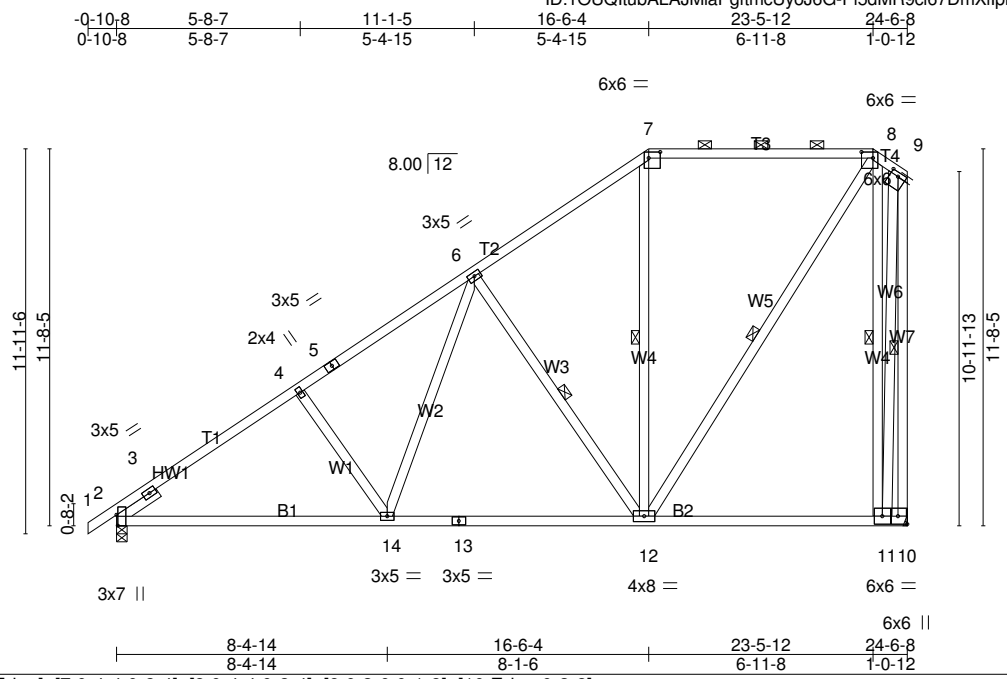

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [7:0-4-4,0-2-4], [8:0-4-4,0-2-4], [9:0-3-0,0-1-8], [10:Edge,0-3-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.15	12-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.23	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 156 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF Stud *Except*
	W7: 2x4 SP DSS
SLIDER	Left 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-3 oc bracing: 2-14.
WEBS	1 Row at midpt 6-12, 7-12, 8-12, 8-11, 9-10

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

REACTIONS. (lb/size) 2=1029/0-4-0 (min. 0-1-11), 10=975/Mechanical
Max Horz 2=338(LC 11)
Max Uplift2=-188(LC 12), 10=-203(LC 9)
Max Grav 2=1095(LC 20), 10=1102(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/49, 2-3=-715/0, 3-19=-1428/248, 4-19=-1368/269, 4-5=-1298/270, 5-6=-1226/293, 6-20=-766/257, 7-20=-687/280, 7-21=-597/279, 21-22=-597/279, 8-22=-597/279, 8-9=-380/332, 9-10=-1230/405
BOT CHORD	2-14=-426/1257, 14-23=-312/925, 13-23=-312/925, 13-24=-312/925, 12-24=-312/925, 12-25=-141/181, 11-25=-141/181, 10-11=-166/185
WEBS	4-14=-304/214, 6-14=-87/499, 6-12=-651/288, 7-12=-43/147, 8-12=-249/892, 8-11=-908/417, 9-11=-201/1067

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-6-4, Exterior(2) 16-6-4 to 20-9-3, Interior(1) 20-9-3 to 23-5-12, Exterior(2) 23-5-12 to 24-4-12 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 188 lb uplift at joint 2 and 203 lb uplift at joint 10.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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	Barnes - Beverly A
BARNES FILE 2	BV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:38 2021 Page 1
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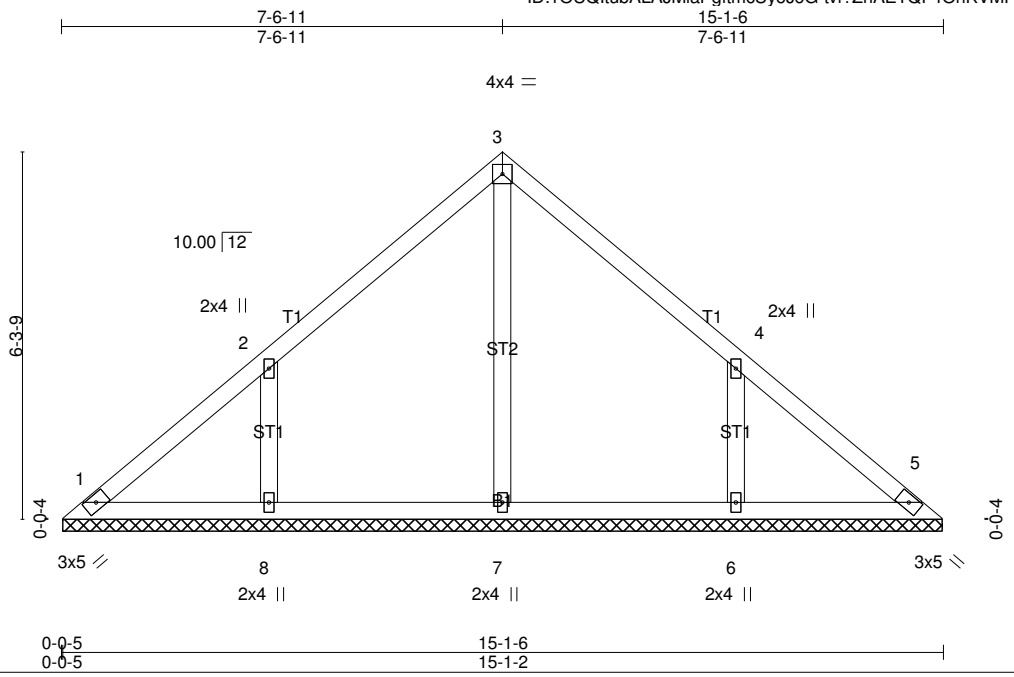


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							Weight: 50 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=124/15-0-13 (min. 0-2-0), 5=124/15-0-13 (min. 0-2-0), 7=231/15-0-13 (min. 0-2-0), 8=333/15-0-13 (min. 0-2-0), 6=333/15-0-13 (min. 0-2-0)
Max Horz 1=-115(LC 8)
Max Uplift1=-16(LC 8), 8=-200(LC 12), 6=-200(LC 13)
Max Grav 1=136(LC 20), 5=124(LC 1), 7=339(LC 19), 8=421(LC 19), 6=421(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-120/103, 2-9=-161/106, 3-9=-119/125, 3-10=-119/115, 4-10=-147/96, 4-5=-101/70
BOT CHORD 1-8=-55/104, 8-11=-55/104, 7-11=-55/104, 7-12=-55/104, 6-12=-55/104, 5-6=-55/104
WEBS 3-7=-152/0, 2-8=-315/241, 4-6=-315/241

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-6-11, Interior(1) 3-6-11 to 7-6-11, Exterior(2) 7-6-11 to 10-6-11, Interior(1) 10-6-11 to 14-8-9 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 200 lb uplift at joint 8 and 200 lb uplift at joint 6.
7) 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	Barnes - Beverly A
BARNES FILE 2	C	Roof Special	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:38 2021 Page 1
ID:1OUQItubALAJMlaPgftmcUyoJ6G-tvf?ZnAETQF4OhKVMPECARztesOmu25nb9BuDuy9PjI

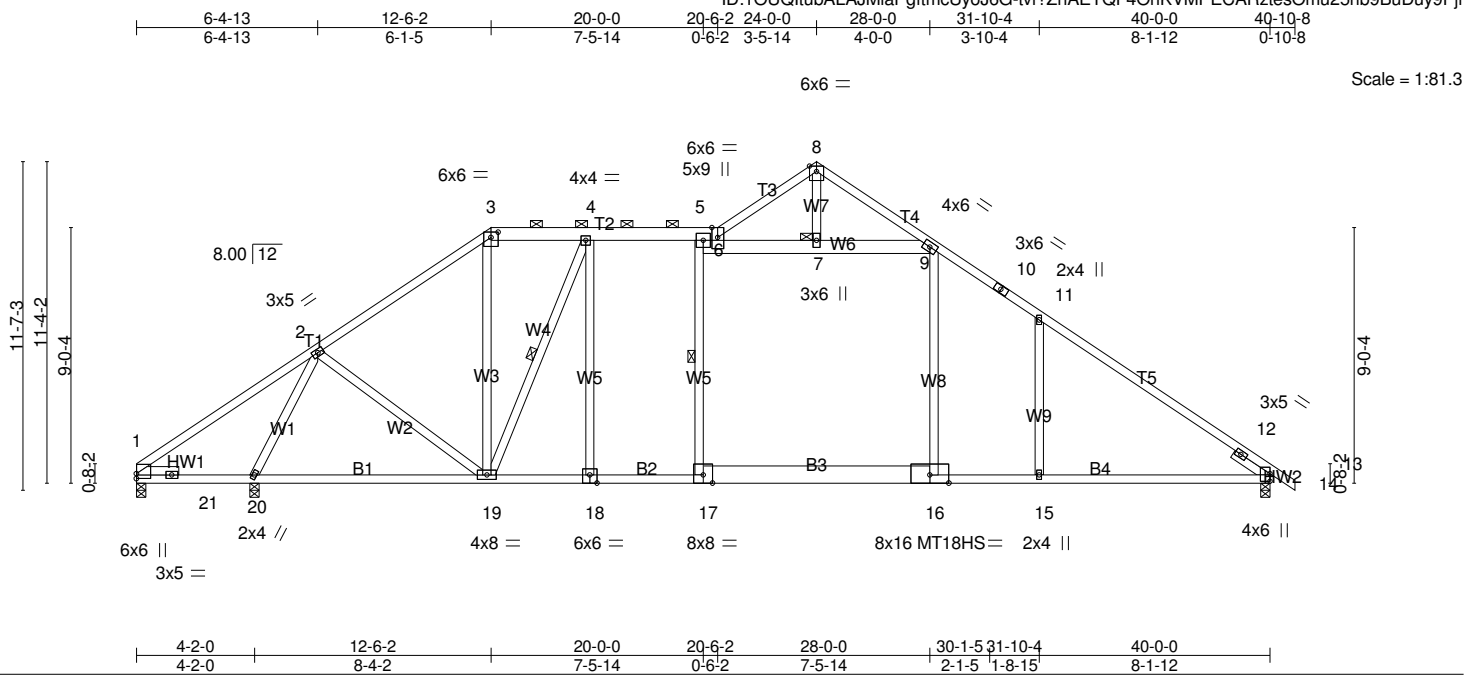


Plate Offsets (X,Y)-- [3:0-3-0,0-2-3], [13:0-3-3,0-0-1], [18:0-3-0,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	0.78	15-28	>551	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-1.02	15-28	>423	180	MT18HS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 214 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	T2: 2x6 SPF 1650F 1.5E, T5: 2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2 *Except*
	B4: 2x4 SP DSS, B3: 2x8 SP No.1
WEBS	2x4 SPF Stud *Except*
	W6: 2x6 SPF 1650F 1.5E
SLIDER	Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-4-9 max.): 3-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-7 oc bracing: 1-20 7-7-14 oc bracing: 19-20.
WEBS	1 Row at midpt 4-19, 5-17
JOINTS	1 Brace at Jt(s): 7

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

REACTIONS. (lb/size) 1=830/0-4-0 (min. 0-2-13), 20=857/0-4-0 (min. 0-1-10), 13=1565/0-4-0 (min. 0-3-2)
Max Horz 1=-214(LC 8)
Max Uplift1=-831(LC 13), 20=-721(LC 9), 13=-352(LC 13)
Max Grav 1=1805(LC 21), 20=1021(LC 17), 13=1992(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-30=-2726/1278, 2-30=-2576/1303, 2-31=-2319/603, 3-31=-2230/621, 3-4=-1840/551, 4-32=-2237/583, 5-32=-2237/583, 5-6=-2235/585, 6-7=-1911/545, 7-9=-1885/547, 6-8=-472/130, 8-9=-532/144, 9-10=-2465/565, 10-11=-2557/554, 11-33=-2552/432, 12-33=-2673/412, 12-13=-969/0, 13-14=0/49
BOT CHORD	1-21=-393/794, 20-21=-856/2031, 19-20=-571/1963, 18-19=-212/2076, 17-18=-212/2076, 16-17=-210/2079, 15-16=-209/2067, 15-34=-209/2067, 13-34=-209/2067
WEBS	2-20=-917/782, 2-19=-355/491, 3-19=-297/1261, 4-19=-1038/128, 11-15=-189/201, 5-17=-15/273, 9-16=-80/704, 4-18=0/228, 7-8=-57/303

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 12-6-2, Exterior(2) 12-6-2 to 16-6-2, Interior(1) 16-6-2 to 24-0-0, Exterior(2) 24-0-0 to 28-1-12, Interior(1) 28-1-12 to 40-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 831 lb uplift at joint 1, 721 lb uplift at joint 20 and 352 lb uplift at joint 13.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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	Barnes - Beverly A
BARNES FILE 2	CCP	Piggyback	1	1	Job Reference (optional)

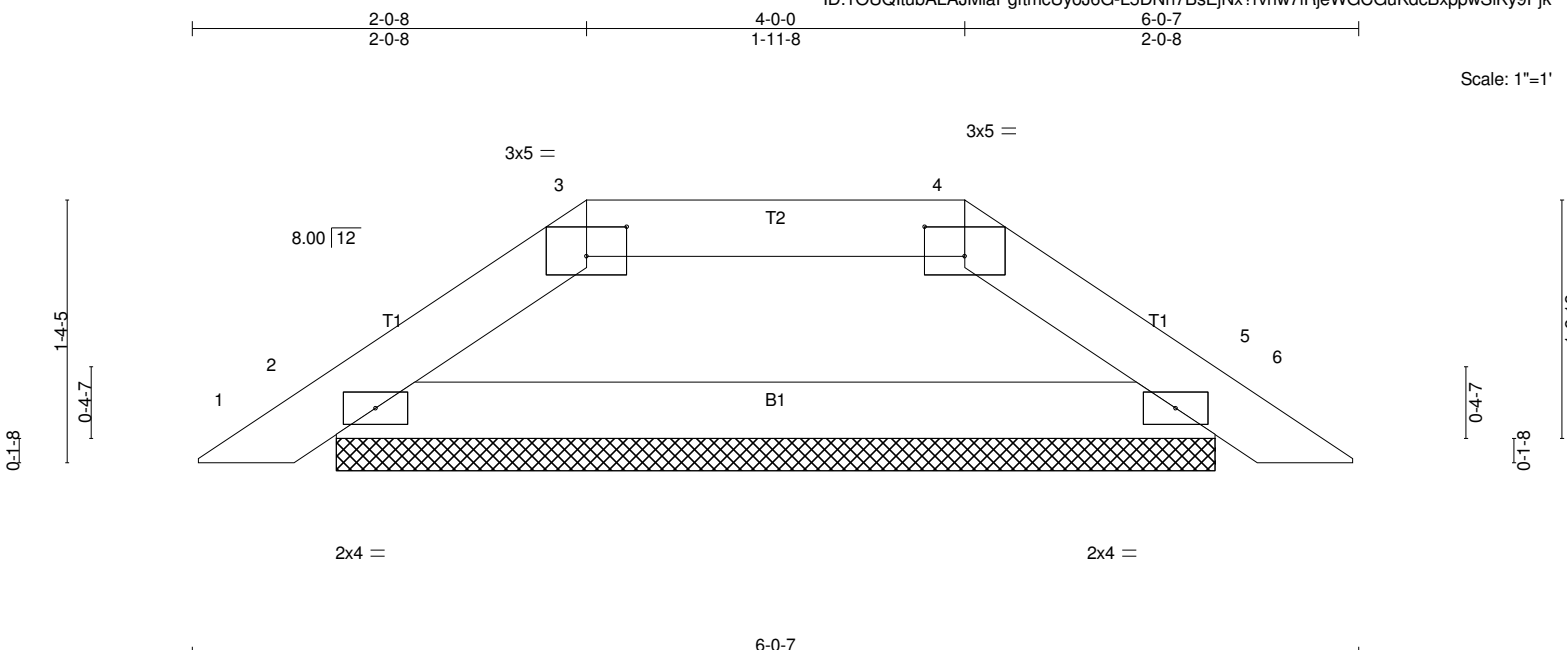


Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [4:0-2-8,0-1-13]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.06	Vert(LL)	-0.00	5	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL 1.15	BC	0.15	Vert(CT)	0.00	6	n/r	90		
TCDL	10.0	Rep Stress Incr YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014	Matrix-R							Weight: 13 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 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
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=210/4-6-9 (min. 0-1-8), 5=210/4-6-9 (min. 0-1-8)
Max Horz 2=-23(LC 10)
Max Uplift2=-35(LC 12), 5=-35(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-202/111, 3-4=-157/103, 4-5=-202/111, 5-6=0/23
BOT CHORD 2-5=-55/157

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 5.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	CG	Roof Special Girder	1	2	Job Reference (optional)

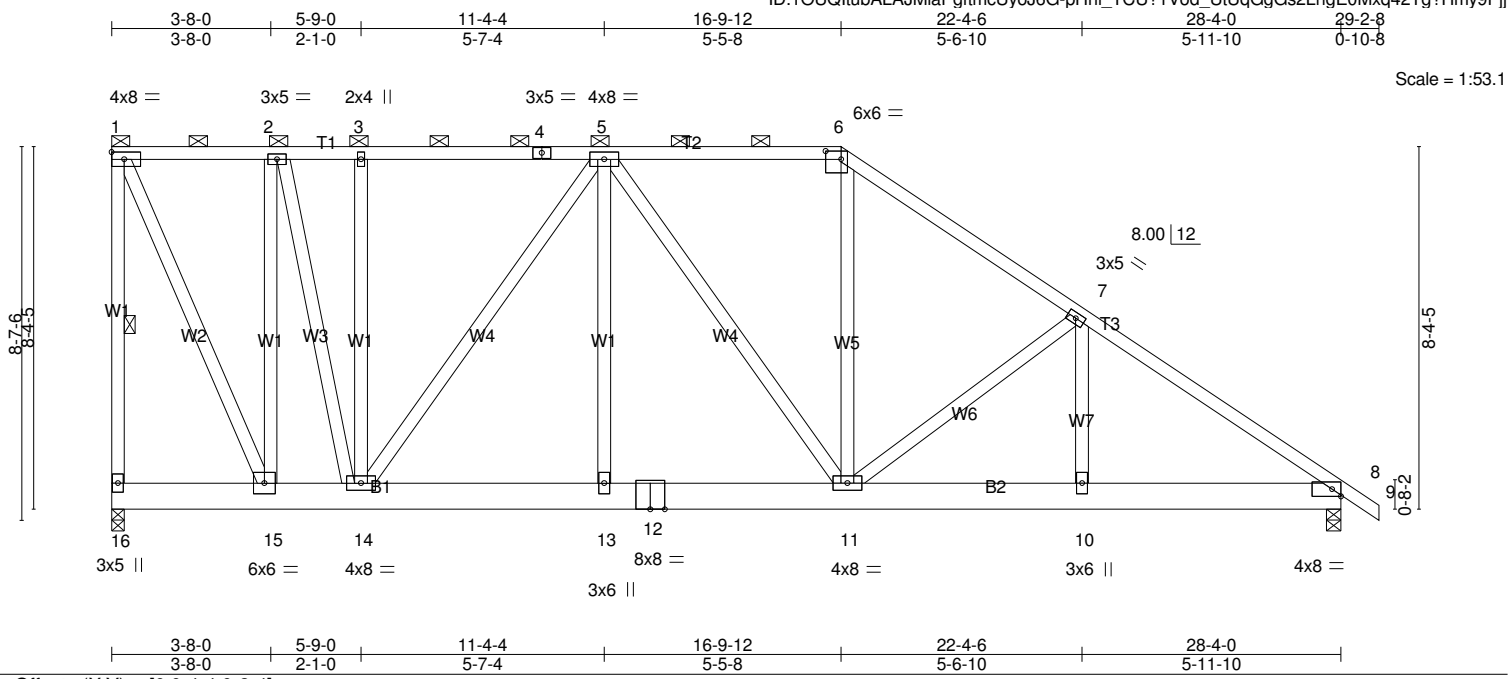


Plate Offsets (X,Y)-- [6:0-4-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.04	13	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.07	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 433 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

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.): 1-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-16

REACTIONS. (lb/size) 16=2575/0-3-8 (min. 0-2-0), 8=1388/0-4-0 (min. 0-1-8)
Max Horz 16=-241(LC 10)
Max Uplift16=-730(LC 8), 8=-265(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-2452/715, 1-20=-1076/408, 2-20=-1076/408, 2-3=-1254/438, 3-4=-1254/438, 4-5=-1254/438, 5-21=-1285/405, 6-21=-1285/405, 6-22=-1558/437, 7-22=-1659/423, 7-23=-1896/422, 8-23=-1986/404, 8-9=0/49
BOT CHORD 15-16=-289/292, 14-15=-296/1080, 14-24=-281/1471, 13-24=-281/1471, 12-13=-281/1471, 12-25=-281/1471, 11-25=-281/1471, 10-11=-242/1577, 8-10=-242/1577
WEBS 3-14=-254/136, 5-14=-695/351, 5-13=0/301, 5-11=-380/211, 6-11=-101/615, 7-11=-456/231, 7-10=0/177, 2-15=-805/264, 1-15=-728/2565, 2-14=-174/720

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 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 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 Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 16-9-12, Exterior(2) 16-9-12 to 19-9-12, Interior(1) 19-9-12 to 29-2-8 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
4) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 730 lb uplift at joint 16 and 265 lb uplift at joint 8.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1677 lb down and 537 lb up at 3-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 6-9=-60, 16-17=-20
   Concentrated Loads (lb)
      Vert: 15=-1655(F)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	CH	Hip	1	1	Job Reference (optional)

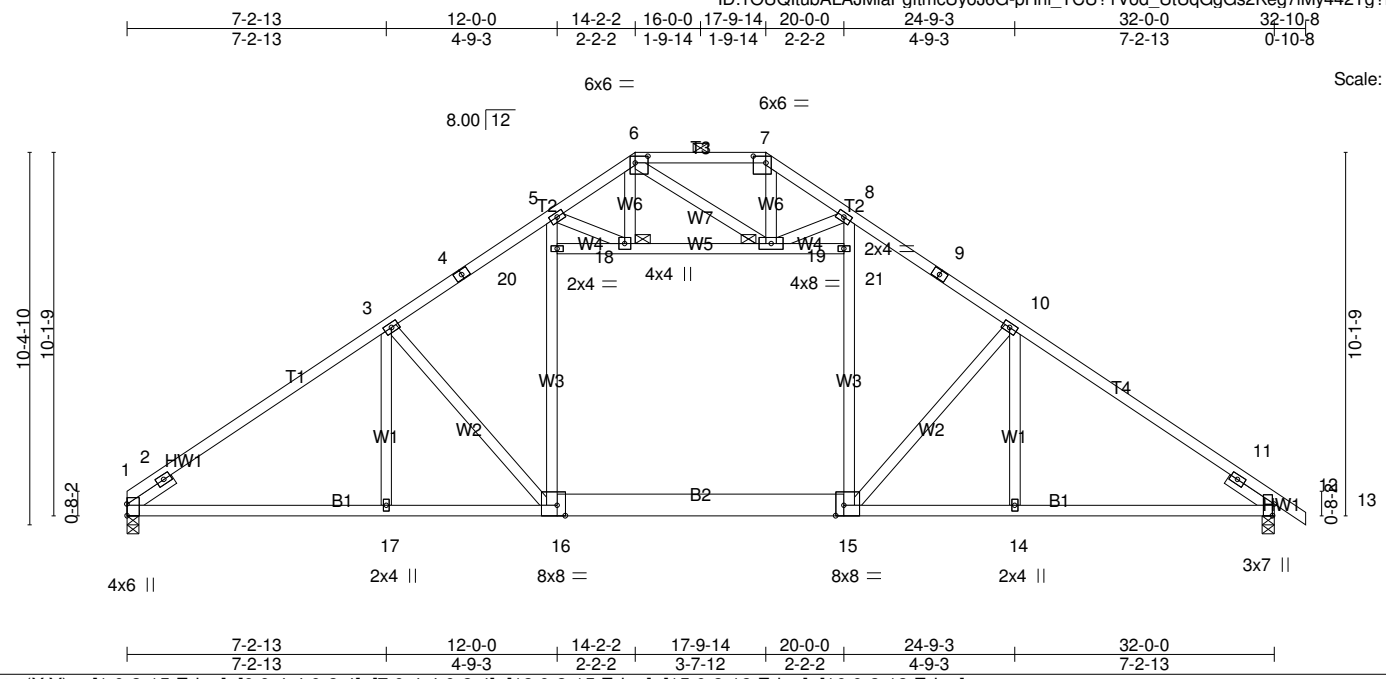


Plate Offsets (X,Y)-- [1:0-3-15,Edge], [6:0-4-4,0-2-4], [7:0-4-4,0-2-4], [12:0-3-15,Edge], [15:0-2-12,Edge], [16:0-2-12,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.21	16-17	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.25	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 168 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B2: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18, 19

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

REACTIONS. (lb/size) 1=1279/0-4-0 (min. 0-2-2), 12=1333/0-4-0 (min. 0-2-4)
Max Horz 1=-191(LC 8)
Max Uplift 1=-216(LC 12), 12=-232(LC 13)
Max Grav 1=1366(LC 20), 12=1415(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-738/0, 2-30=-1934/339, 3-30=-1850/358, 3-4=-1618/365, 4-31=-1556/375, 5-31=-1528/385, 5-6=-800/278, 6-7=-638/248, 7-8=-796/277, 8-32=-1527/382, 9-32=-1556/372, 9-10=-1618/363, 10-33=-1846/352, 11-33=-1931/329, 11-12=-725/0, 12-13=0/49
BOT CHORD 1-17=-273/1642, 16-17=-273/1642, 15-16=-90/1317, 14-15=-184/1493, 12-14=-184/1493
WEBS 3-17=0/224, 3-16=-486/261, 6-18=-80/316, 7-19=-89/325, 10-15=-481/260, 10-14=0/223, 16-20=-55/552, 5-20=-55/551, 15-21=-54/550, 8-21=-55/552, 18-20=-103/93, 18-19=-736/180, 19-21=-103/93, 6-19=-106/103, 5-18=-778/198, 8-19=-781/199

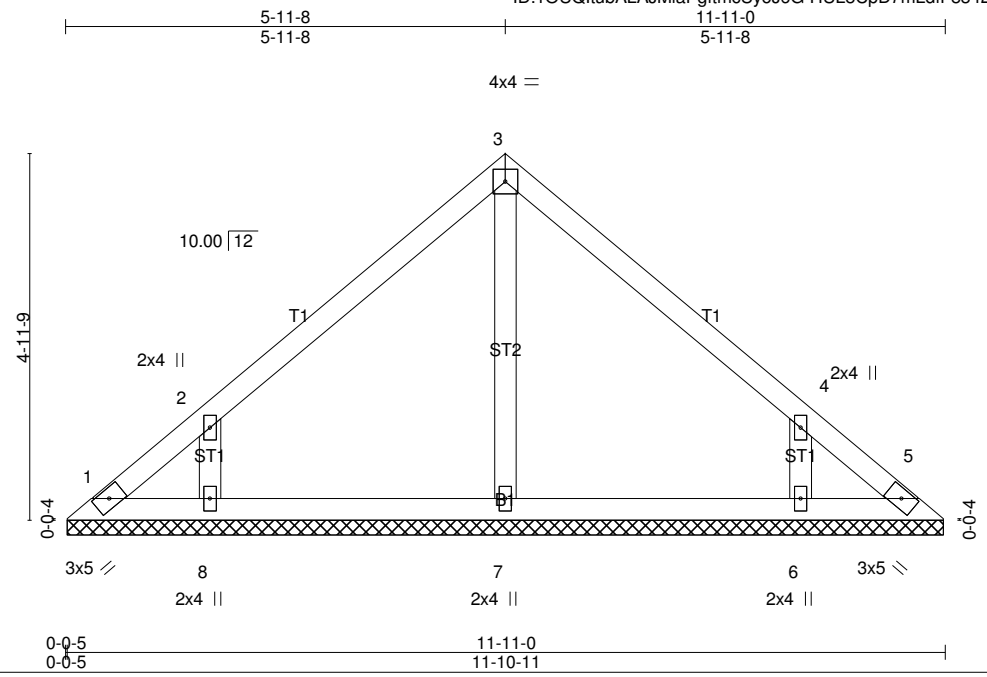
NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-2-6, Interior(1) 3-2-6 to 14-2-2, Exterior(2) 14-2-2 to 22-4-3, Interior(1) 22-4-3 to 32-10-8 zone; cantilever left and right 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 1 and 232 lb uplift at joint 12.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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	Barnes - Beverly A
BARNES FILE 2	CV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:41 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-HUL8CpD7mLdfF8342Ynvo3baQ3aX4VYEH7PZqCy9Pji



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							Weight: 37 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=37/11-10-6 (min. 0-1-8), 5=37/11-10-6 (min. 0-1-8), 7=241/11-10-6 (min. 0-1-8), 8=286/11-10-6 (min. 0-1-8), 6=286/11-10-6 (min. 0-1-8)
Max Horz 1=90(LC 11)
Max Uplift 1=-45(LC 10), 5=-29(LC 11), 8=-178(LC 12), 6=-178(LC 13)
Max Grav 1=75(LC 12), 5=64(LC 13), 7=241(LC 1), 8=348(LC 19), 6=348(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-115/94, 2-9=-154/78, 9-10=-107/84, 3-10=-95/98, 3-11=-95/91, 11-12=-104/77, 4-12=-136/72, 4-5=-98/68
BOT CHORD 1-8=-34/72, 7-8=-34/72, 6-7=-34/72, 5-6=-34/72
WEBS 3-7=-155/17, 2-8=-287/222, 4-6=-287/222

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-11-8, Exterior(2) 5-11-8 to 8-11-8, Interior(1) 8-11-8 to 11-6-3 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 29 lb uplift at joint 5, 178 lb uplift at joint 8 and 178 lb uplift at joint 6.
7) 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	Barnes - Beverly A
BARNES FILE 2	D	Roof Special	1	1	Job Reference (optional)

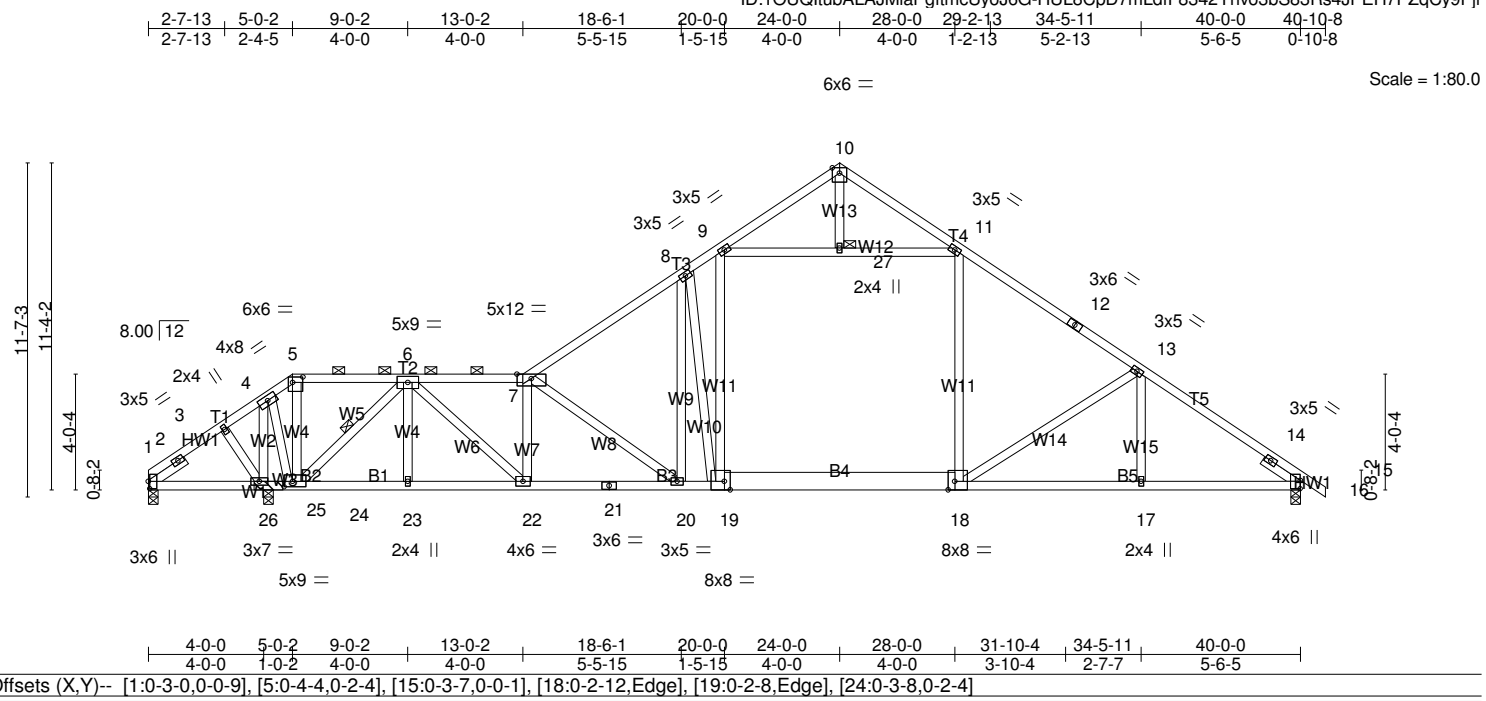


Plate Offsets (X,Y)-- [1:0-3-0,0-0-9], [5:0-4-4,0-2-4], [15:0-3-7,0-0-1], [18:0-2-12,Edge], [19:0-2-8,Edge], [24:0-3-8,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.19	19-20	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.27	20-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	15	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 220 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B4: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except 2-0-0 oc purlins (4-0-11 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-7 oc bracing: 1-26
4-3-12 oc bracing: 24-26.
WEBS 1 Row at midpt 6-24
JOINTS 1 Brace at Jt(s): 27

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

REACTIONS. (lb/size) 1=-963/0-4-0 (min. 0-1-8), 26=2847/(0-4-0 + bearing block) (req. 0-4-15), 15=1368/0-4-0 (min. 0-2-6)
Max Horz 1=-214(LC 10)
Max Uplift 1=-1242(LC 20), 26=-846(LC 12), 15=-273(LC 13)
Max Grav 1=448(LC 12), 26=3129(LC 20), 15=1507(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-244/654, 2-3=-684/2044, 3-4=-680/2086, 4-5=-456/1233, 5-6=-375/1033, 6-7=-2090/511, 7-8=-1963/429, 8-9=-1823/472, 9-10=-333/115, 10-11=-353/124, 11-12=-1720/365, 12-13=-1804/347, 13-36=-2014/396, 14-36=-2125/383, 14-15=-827/69, 15-16=0/49
BOT CHORD 1-26=-1418/438, 25-26=-1650/537, 24-25=-1650/537, 23-24=-152/771, 22-23=-152/771, 21-22=-262/1894, 20-21=-262/1894, 19-20=-120/1453, 18-19=-74/1353, 17-18=-232/1677, 15-17=-232/1677
WEBS 3-26=-407/174, 5-24=-787/321, 6-24=-1973/405, 6-23=0/169, 6-22=-282/1637, 7-22=-1004/254, 7-20=-574/249, 8-20=-71/357, 8-19=-592/300, 10-27=-28/101, 13-17=0/188, 4-26=-2443/633, 4-24=-538/2124, 13-18=-401/218, 9-19=-154/757, 11-18=0/480, 9-27=-1291/366, 11-27=-1291/366

NOTES-
1) 2x4 SPF No.2 bearing block 12" long at jt. 26 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 5-0-2, Exterior(2) 5-0-2 to 9-0-2, Interior(1) 9-0-2 to 24-0-0, Exterior(2) 24-0-0 to 28-1-12, Interior(1) 28-1-12 to 40-10-8 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
3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1242 lb uplift at joint 1, 846 lb uplift at joint 26 and 273 lb uplift at joint 15.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	D	Roof Special	1	1	Job Reference (optional)

NOTES-

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

11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	DG	Common Girder	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:42 2021 Page 1
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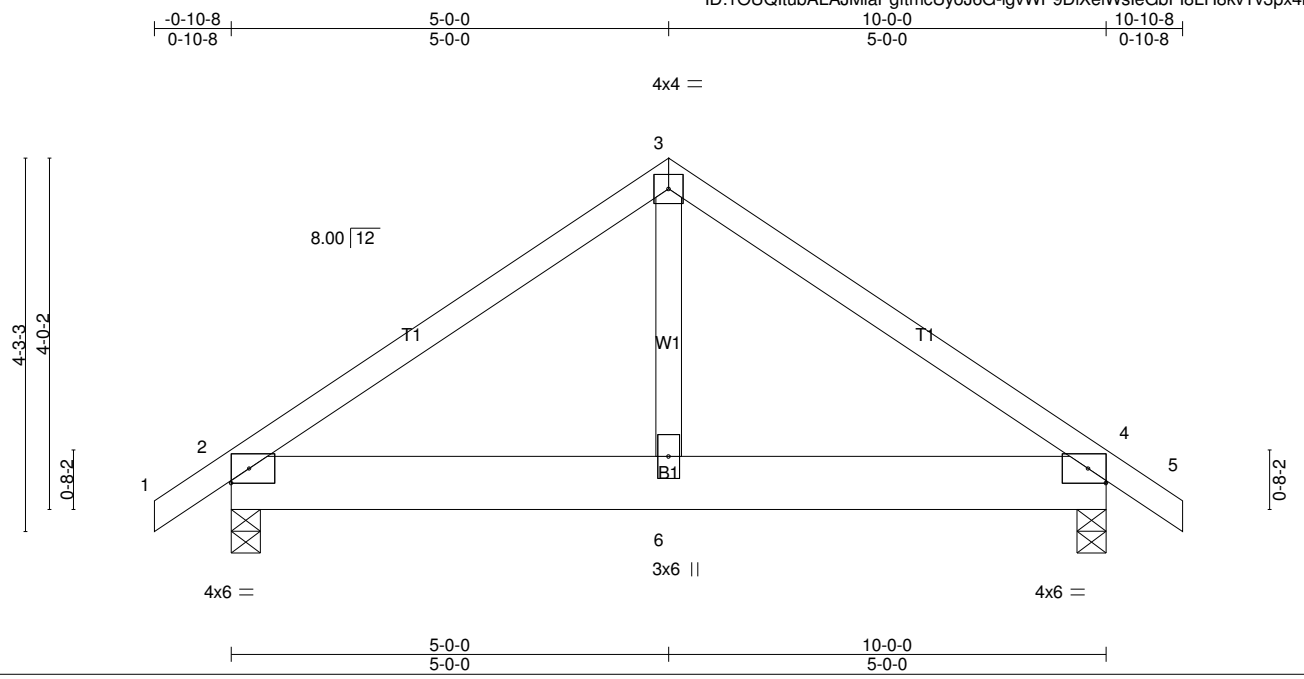

LOADING (psf)
TCLL 20.0
(Roof Snow=20.0)
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr NO
Code IBC2015/TPI2014

CSI.
TC 0.22
BC 0.15
WB 0.18
Matrix-MS

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.01	6-12	>999	240
Vert(CT)	-0.02	6-12	>999	180
Horz(CT)	0.00	4	n/a	n/a

PLATES **GRIP**
MT20 197/144

Weight: 51 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

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.

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

REACTIONS. (lb/size) 2=644/0-4-0 (min. 0-1-8), 4=660/0-4-0 (min. 0-1-8)
Max Horz 2=-76(LC 30)
Max Uplift2=-100(LC 12), 4=-62(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-13=-695/94, 3-13=-613/108, 3-14=-613/108, 4-14=-695/88, 4-5=0/49
BOT CHORD 2-15=-10/510, 15-16=-10/510, 6-16=-10/510, 6-17=-10/510, 17-18=-10/510, 4-18=-10/510
WEBS 3-6=0/425

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-0, Exterior(2) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2 and 62 lb uplift at joint 4.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 53 lb up at 2-2-14, 98 lb down at 4-2-14, and 98 lb down at 6-2-14, and 98 lb down at 8-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 7-10=-20
Concentrated Loads (lb)
Vert: 15=-104(B) 16=-98(B) 17=-98(B) 18=-98(B)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	DH	Hip	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:42 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-lgvWP9DlXelWsleGbFI8LH8fNToxpsQNVn96Mfy9Pjh

-0-10-8	5-11-13	11-8-2	16-0-0	20-3-14	26-0-3	32-0-0	32-10-8
0-10-8	5-11-13	5-8-5	4-3-14	4-3-14	5-8-5	5-11-13	0-10-8

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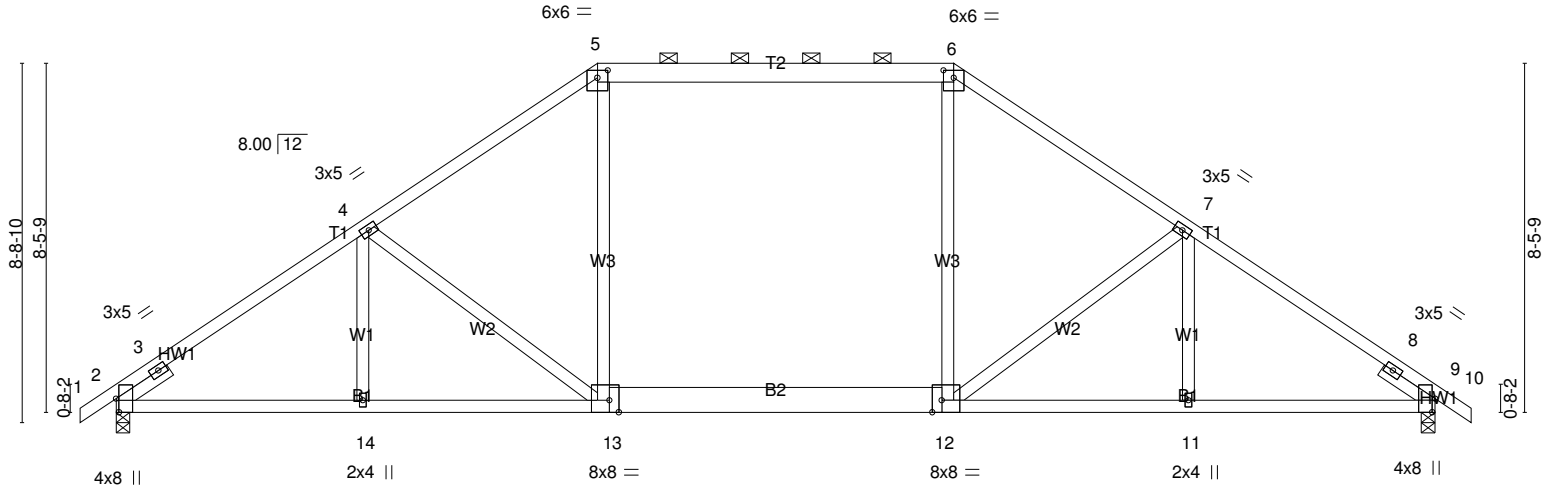

5-11-13	11-8-2	20-3-14	26-0-3	32-0-0
5-11-13	5-8-5	8-7-12	5-8-5	5-11-13

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [5:0-3-0,0-2-3], [6:0-3-0,0-2-3], [9:0-3-15,Edge], [12:0-2-12,Edge], [13:0-2-12,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.33	13-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.37	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 149 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	T2: 2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2 *Except*
	B2: 2x8 SP No.1
WEBS	2x4 SPF Stud
SLIDER	Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=1332/0-4-0 (min. 0-2-3), 9=1332/0-4-0 (min. 0-2-3)
Max Horz 2=-162(LC 10)
Max Uplift2=-218(LC 12), 9=-218(LC 13)
Max Grav 2=1376(LC 20), 9=1376(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/49, 2-3=-721/30, 3-23=-1907/346, 4-23=-1785/366, 4-24=-1568/355, 5-24=-1497/378, 5-25=-1264/364, 25-26=-1264/364, 6-26=-1264/364, 6-27=-1497/378, 7-27=-1568/355, 7-28=-1785/366, 8-28=-1908/346, 8-9=-721/30, 9-10=0/49
BOT CHORD	2-14=-262/1614, 13-14=-262/1614, 12-13=-92/1267, 11-12=-215/1492, 9-11=-215/1492
WEBS	4-14=0/200, 4-13=-450/250, 5-13=-7/488, 6-12=-7/488, 7-12=-450/251, 7-11=0/200

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-14, Interior(1) 2-3-14 to 11-8-2, Exterior(2) 11-8-2 to 16-2-7, Interior(1) 16-2-7 to 20-3-14, Exterior(2) 20-3-14 to 24-10-3, Interior(1) 24-10-3 to 32-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 218 lb uplift at joint 2 and 218 lb uplift at joint 9.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	DV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:43 2021 Page 1
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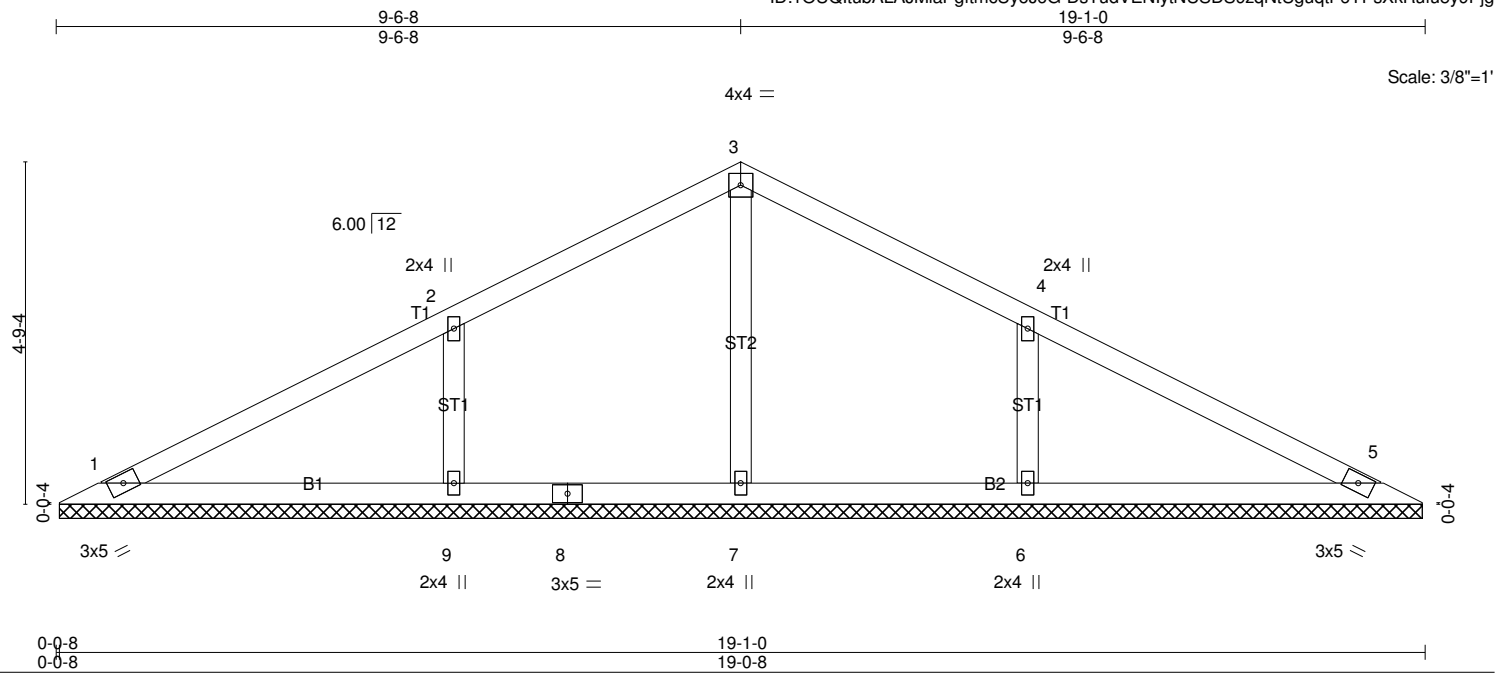


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							Weight: 54 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=167/19-0-0 (min. 0-2-4), 5=167/19-0-0 (min. 0-2-4), 7=223/19-0-0 (min. 0-2-4), 9=435/19-0-0 (min. 0-2-4), 6=435/19-0-0 (min. 0-2-4)
Max Horz 1=58(LC 14)
Max Uplift1=-23(LC 15), 5=-25(LC 15), 9=-159(LC 14), 6=-159(LC 15)
Max Grav 1=167(LC 1), 5=167(LC 1), 7=223(LC 1), 9=456(LC 20), 6=456(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-83/29, 2-10=-42/72, 2-11=-97/96, 3-11=-64/109, 3-12=-64/105, 4-12=-97/92, 4-13=-18/56, 5-13=-65/5
BOT CHORD 1-9=-18/61, 8-9=-18/61, 7-8=-18/61, 6-7=-18/61, 5-6=-18/61
WEBS 3-7=-164/10, 2-9=-341/212, 4-6=-341/212

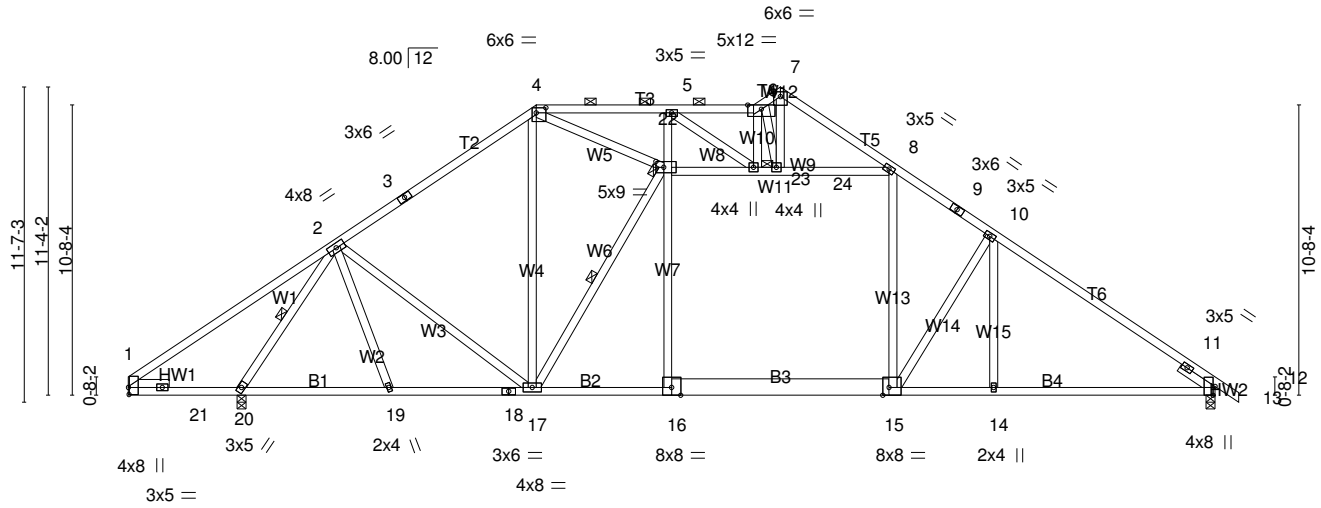
NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-6-8, Exterior(2) 9-6-8 to 12-6-8, Interior(1) 12-6-8 to 18-5-7 zone; cantilever left and right 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
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 23 lb uplift at joint 1, 25 lb uplift at joint 5, 159 lb uplift at joint 9 and 159 lb uplift at joint 6.
8) 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	Barnes - Beverly A
BARNES FILE 2	E	Roof Special	1	1	Job Reference (optional)

7-7-13	15-0-2	20-0-0	23-0-2	24-0-0	28-0-0	31-10-4	40-0-0	40-10-8
7-7-13	7-4-5	4-11-14	3-0-2	0-11-14	4-0-0	3-10-4	8-1-12	0-10-8

Scale = 1:84.8



4-0-0	4-2-0	9-7-1	15-0-2	20-0-0	23-0-2	28-0-0	31-10-4	40-0-0
4-0-0	0-2-0	5-5-1	5-5-1	4-11-14	3-0-2	4-11-14	3-10-4	8-1-12

Plate Offsets (X,Y)-- [1:0-3-2,0-0-5], [4:0-4-4,0-2-4], [12:0-3-15,Edge], [15:0-2-12,Edge], [22:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.11	15-16	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.20	14-31	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 226 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B3: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-20.
WEBS 1 Row at midpt 2-20, 17-22
JOINTS 1 Brace at Jt(s): 22, 23

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

REACTIONS. (lb/size) 20=1781/0-4-0 (min. 0-2-14), 12=1472/0-4-0 (min. 0-2-10)
Max Horz 20=-214(LC 8)
Max Uplift20=-285(LC 12), 12=-257(LC 13)
Max Grav 20=1826(LC 20), 12=1669(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-33=-127/260, 2-33=-97/394, 2-3=-1464/321, 3-34=-1370/333, 4-34=-1348/352, 4-35=-825/437, 5-35=-825/437, 5-6=-678/285, 6-7=-582/224, 7-8=-667/227, 8-9=-1947/416, 9-10=-1985/400, 10-36=-2213/373, 11-36=-2311/349, 11-12=-823/0, 12-13=0/49
BOT CHORD 1-21=-431/691, 20-21=-229/181, 19-20=-184/979, 18-19=-155/1009, 17-18=-155/1009, 17-37=-99/1511, 16-37=-99/1511, 15-16=-96/1526, 14-15=-189/1793, 14-38=-189/1793, 12-38=-189/1793
WEBS 2-20=-1915/428, 2-19=0/222, 2-17=-86/352, 4-17=-224/806, 17-22=-1031/313, 6-23=-90/99, 10-15=-563/247, 10-14=0/254, 16-22=0/415, 5-22=-256/206, 8-15=-111/642, 22-23=-1202/514, 23-24=-1133/376, 8-24=-1232/355, 4-22=-750/410, 5-23=-187/192, 6-24=-489/268, 7-24=-249/500

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 15-0-2, Exterior(2) 15-0-2 to 19-0-2, Interior(1) 19-0-2 to 24-0-0, Exterior(2) 24-0-0 to 28-1-12, Interior(1) 28-1-12 to 40-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 285 lb uplift at joint 20 and 257 lb uplift at joint 12.
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.

LOAD CASE(S) Standard

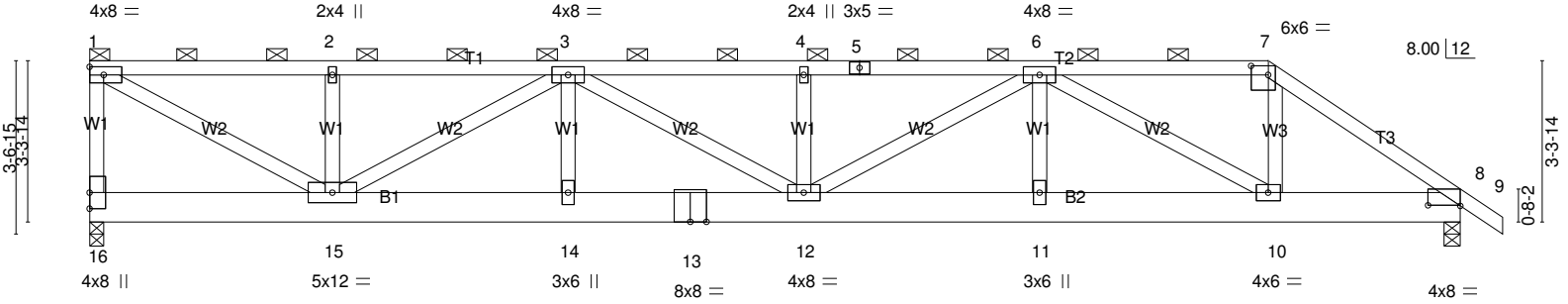
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	EG	Roof Special Girder	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:45 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-AFae1AGdqZ75jmNrHOsrzvmB5htl05FpClNmz_y9Pje

5-0-4	9-10-11	14-9-3	19-7-10	24-4-6	28-4-0	29-2-8
5-0-4	4-10-8	4-10-8	4-10-8	4-8-12	3-11-10	0-10-8

Scale = 1:47.1



5-0-4	9-10-11	14-9-3	19-7-10	24-4-6	28-4-0
5-0-4	4-10-8	4-10-8	4-10-8	4-8-12	3-11-10

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.24	12	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.30	12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 168 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-8 max.): 1-7.
BOT CHORD Rigid ceiling directly applied or 7-1-12 oc bracing.

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

REACTIONS. (lb/size) 16=1322/0-3-8 (min. 0-2-4), 8=1359/0-4-0 (min. 0-2-3)
Max Horz 16=-92(LC 31)
Max Uplift16=-692(LC 8), 8=-612(LC 8)
Max Grav 16=1417(LC 41), 8=1405(LC 41)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-1318/677, 1-20=-1980/1011, 20-21=-1980/1011, 21-22=-1980/1011, 2-22=-1980/1011, 2-23=-1980/1011, 23-24=-1980/1011, 3-24=-1980/1011, 3-25=-3411/1715, 25-26=-3411/1715, 4-26=-3411/1715, 4-5=-3411/1715, 5-27=-3411/1715, 6-27=-3411/1715, 6-28=-1606/813, 28-29=-1606/813, 29-30=-1606/813, 30-31=-1606/813, 7-31=-1606/813, 7-32=-1989/963, 32-33=-1990/955, 8-33=-2041/949, 8-9=0/49
BOT CHORD 16-34=-110/128, 34-35=-110/128, 15-35=-110/128, 15-36=-1580/3176, 36-37=-1580/3176, 14-37=-1580/3176, 14-38=-1580/3176, 13-38=-1580/3176, 13-39=-1580/3176, 12-39=-1580/3176, 12-40=-1454/2981, 40-41=-1454/2981, 11-41=-1454/2981, 11-42=-1454/2981, 42-43=-1454/2981, 43-44=-1454/2981, 10-44=-1454/2981, 10-45=-754/1655, 8-45=-754/1655
WEBS 1-15=-1125/2224, 2-15=-353/272, 3-15=-1381/708, 3-14=-29/278, 3-12=-139/283, 4-12=-336/262, 6-12=-267/508, 6-11=-14/274, 6-10=-1595/835, 7-10=-372/871

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 24-4-6, Exterior(2) 24-4-6 to 27-4-6, Interior(1) 27-4-6 to 29-2-8 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 692 lb uplift at joint 16 and 612 lb uplift at joint 8.
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.

Continued on page 2

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 39 lb up at 0-1-12, 101 lb down and 103 lb up at 2-0-12, 100 lb down and 103 lb up at 4-0-12, 100 lb down and 103 lb up at 6-0-12, 100 lb down and 103 lb up at 8-0-12, 100 lb down and 103 lb up at 10-0-12, 105 lb down and 110 lb up at 12-0-12, 105 lb down and 110 lb up at 14-0-12, 105 lb down and 110 lb up at 16-0-12, 100 lb down and 103 lb up at 18-0-12, 100 lb down and 103 lb up at 20-0-12, 100 lb down and 103 lb up at 22-0-12, and 98 lb down and 108 lb up at 24-0-12, and 26 lb down and 57 lb up at 26-0-12 on top chord, and 30 lb down and 24 lb up at 2-0-12, 30 lb down and 24 lb up at 4-0-12, 30 lb down and 24 lb up at 6-0-12, 30 lb down and 24 lb up at 8-0-12, 30 lb down and 24 lb up at 10-0-12, 28 lb down and 21 lb up at 12-0-12, 28 lb down and 21 lb up at 14-0-12, 28 lb down and 21 lb up at 16-0-12, 30 lb down and 24 lb up at 18-0-12, 30 lb down and 24 lb up at 20-0-12, 30 lb down and 24 lb up at 22-0-12, and 30 lb down and 24 lb up at 24-0-12, and 63 lb down and 53 lb up at 26-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-60, 7-9=-60, 16-17=-20
   Concentrated Loads (lb)
      Vert: 1=-38 5=-17(B) 3=-13(B) 14=-9(B) 20=-13(B) 22=-13(B) 23=-13(B) 24=-13(B) 25=-17(B) 26=-17(B) 27=-13(B) 28=-13(B) 30=-13(B) 31=-13(B) 34=-9(B) 35=-9(B) 36=-9(B) 37=-9(B) 38=-15(B) 39=-15(B) 40=-15(B) 41=-9(B) 42=-9(B) 43=-9(B) 44=-9(B) 45=-51(B)

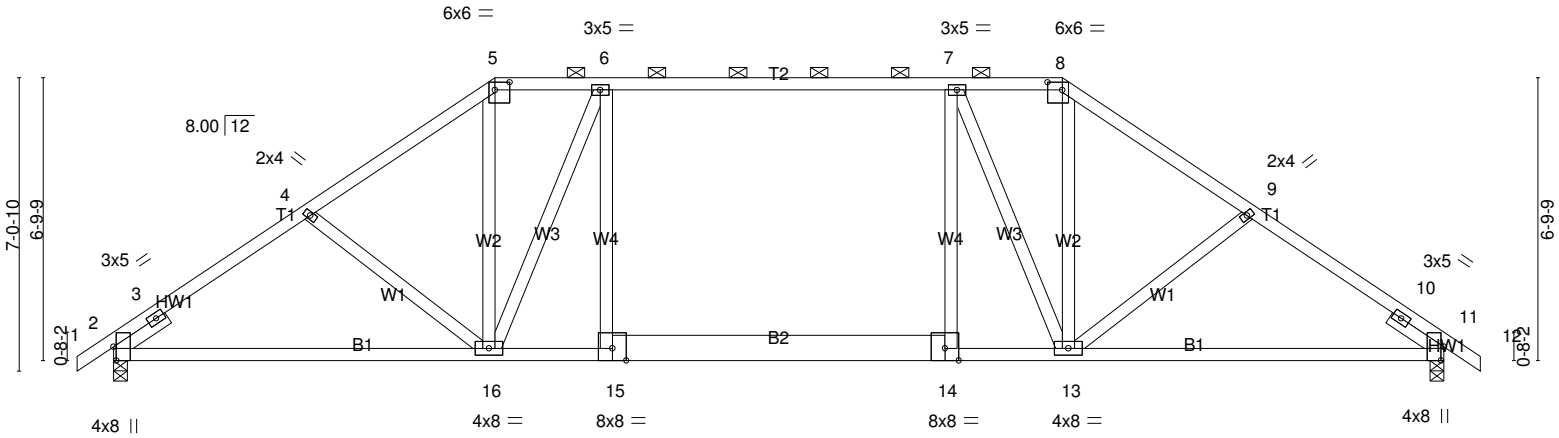
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	EH	Hip	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:45 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-AFae1AGdqZ75jmNrHOsrzvm7Shpl0AtpClNmz_y9Pje

-0-10-8	4-8-13	9-2-2	12-0-0	16-0-0	20-0-0	22-9-14	27-3-3	32-0-0	32-10-8
0-10-8	4-8-13	4-5-5	2-9-14	4-0-0	4-0-0	2-9-14	4-5-5	4-8-13	0-10-8

Scale = 1:55.4



9-2-2	12-0-0	16-0-0	20-0-0	22-9-14	32-0-0
9-2-2	2-9-14	4-0-0	4-0-0	2-9-14	9-2-2

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [5:0-4-4,0-2-4], [8:0-4-4,0-2-4], [11:0-3-15,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.15	15-16	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.24	13-23	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.07	11	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 155 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B2: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-11 oc purlins, except 2-0-0 oc purlins (3-5-6 max.): 5-8.
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=1332/0-4-0 (min. 0-2-1), 11=1332/0-4-0 (min. 0-2-1)
Max Horz 2=130(LC 11)
Max Uplift2=-201(LC 12), 11=-201(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-947/0, 3-25=-1833/386, 4-25=-1757/403, 4-5=-1651/377, 5-6=-1315/354, 6-26=-1548/414, 26-27=-1548/414, 7-27=-1548/414, 7-8=-1315/354, 8-9=-1651/377, 9-28=-1757/403, 10-28=-1833/386, 10-11=-947/0, 11-12=0/49
BOT CHORD 2-16=-277/1536, 15-16=-228/1574, 14-15=-225/1579, 13-14=-225/1573, 11-13=-254/1464
WEBS 4-16=-263/188, 5-16=-152/774, 6-16=-687/304, 7-13=-687/304, 8-13=-152/774, 9-13=-263/188, 6-15=-22/276, 7-14=-22/276

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-14, Interior(1) 2-3-14 to 9-2-2, Exterior(2) 9-2-2 to 13-8-7, Interior(1) 13-8-7 to 22-9-14, Exterior(2) 22-9-14 to 27-4-10, Interior(1) 27-4-10 to 32-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 201 lb uplift at joint 2 and 201 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	EV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:45 2021 Page 1
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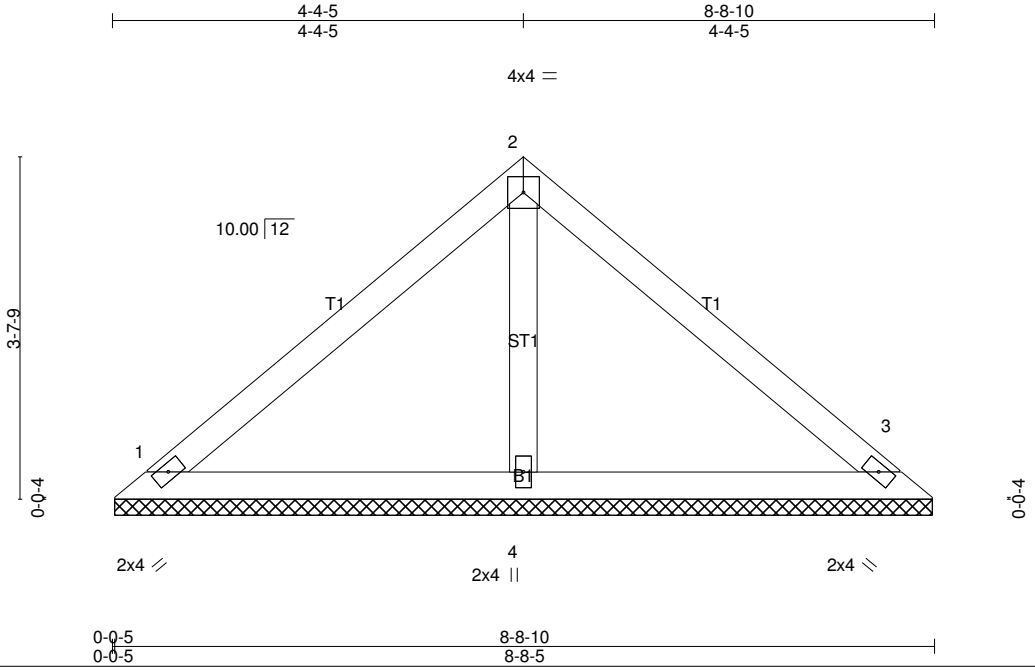

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-P							Weight: 25 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=184/8-8-0 (min. 0-1-8), 3=184/8-8-0 (min. 0-1-8), 4=266/8-8-0 (min. 0-1-8)
Max Horz 1=-64(LC 10)
Max Uplift1=-54(LC 12), 3=-62(LC 13)
Max Grav 1=184(LC 1), 3=188(LC 20), 4=266(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-129/52, 5-6=-79/58, 2-6=-53/66, 2-7=-53/57, 7-8=-66/49, 3-8=-116/43
BOT CHORD 1-4=-17/50, 3-4=-17/50
WEBS 2-4=-167/62

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-4-5, Exterior(2) 4-4-5 to 7-4-5, Interior(1) 7-4-5 to 8-3-12 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1 and 62 lb uplift at joint 3.
7) 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	Barnes - Beverly A
BARNES FILE 2	F	ATTIC	3	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:46 2021 Page 1
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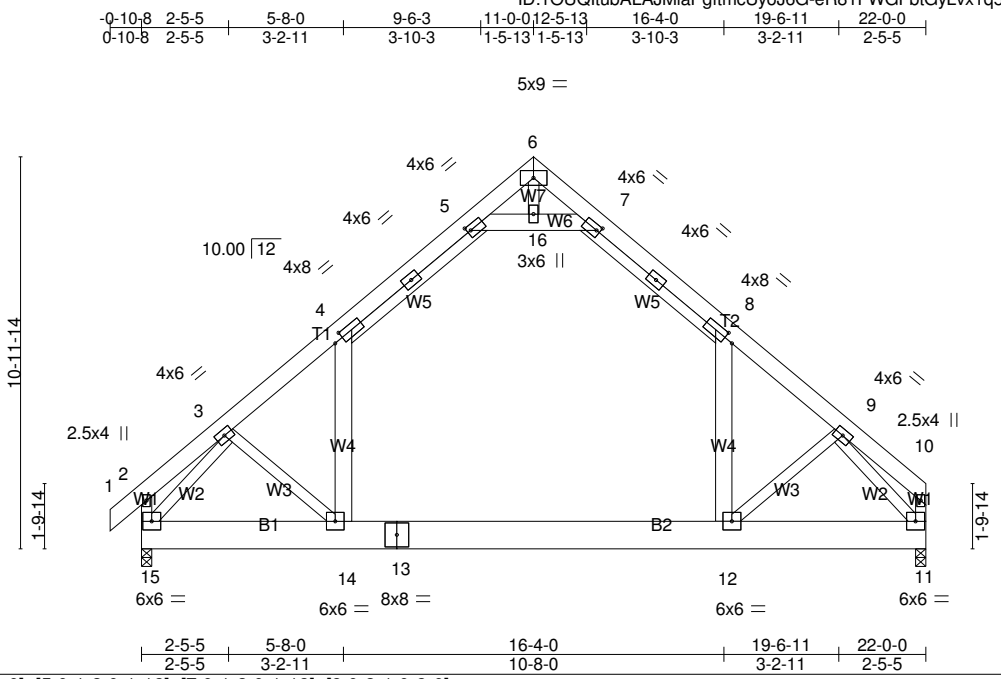

Plate Offsets (X,Y)-- [4:0-3-1,0-2-0], [5:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-3-1,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.20	12-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.33	12-14	>801	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS		Attic	-0.10	12-14	1330	360		
BCDL	10.0										Weight: 197 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x10 SP No.1
WEBS 2x4 SPF Stud *Except*
W6,W4: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-3 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) 15=1096/0-3-8 (min. 0-2-3), 11=1032/0-3-8 (min. 0-2-1)
Max Horz 15=222(LC 11)
Max Uplift15=-33(LC 12), 11=-16(LC 13)
Max Grav 15=1389(LC 21), 11=1330(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/65, 2-3=-117/72, 3-4=-1540/59, 4-17=-985/143, 5-17=-864/153, 5-6=-30/529, 6-7=-30/529, 7-18=-864/154, 8-18=-984/143, 8-19=-1443/58, 9-19=-1541/45, 9-10=-93/54, 2-15=-136/103, 10-11=-60/43
BOT CHORD 14-15=-64/1071, 13-14=0/978, 12-13=0/978, 11-12=-12/986
WEBS 5-16=-1684/204, 7-16=-1684/204, 4-14=0/721, 8-12=0/723, 3-14=-146/182, 9-12=-150/181, 6-16=0/110, 3-15=-1593/0, 9-11=-1596/12

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-0, Interior(1) 2-3-0 to 11-0-0, Exterior(2) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 21-10-4 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s).4-14, 8-12
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 15 and 16 lb uplift at joint 11.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	F1	ATTIC	4	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:46 2021 Page 1
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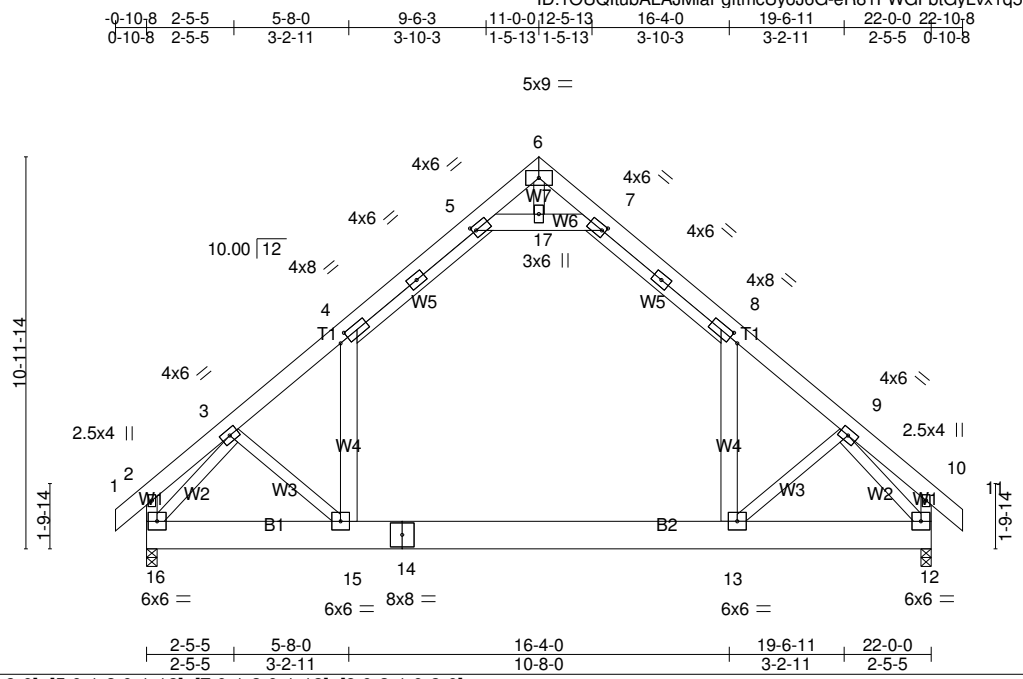

Plate Offsets (X,Y)-- [4:0-3-1,0-2-0], [5:0-1-3,0-1-12], [7:0-1-3,0-1-12], [8:0-3-1,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.20	13-15	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.33	13-15	>801	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS		Attic	-0.10	13-15	1330	360		
BCDL	10.0										Weight: 199 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x10 SP No.1
WEBS 2x4 SPF Stud *Except*
W6,W4: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-3 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) 16=1095/0-3-8 (min. 0-2-3), 12=1095/0-3-8 (min. 0-2-3)
Max Horz 16=227(LC 11)
Max Uplift16=-33(LC 12), 12=-33(LC 13)
Max Grav 16=1387(LC 21), 12=1387(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/65, 2-3=-117/72, 3-4=-1538/60, 4-18=-983/143, 5-18=-863/154, 5-6=-30/527, 6-7=-31/528, 7-19=-863/154, 8-19=-983/143, 8-9=-1537/59, 9-10=-117/72, 10-11=0/65, 2-16=-136/103, 10-12=-136/103
BOT CHORD 15-16=-53/1078, 14-15=0/984, 13-14=0/984, 12-13=0/985
WEBS 5-17=-1681/203, 7-17=-1681/203, 4-15=0/721, 8-13=0/721, 3-15=-146/182, 9-13=-146/183, 6-17=0/110, 3-16=-1591/1, 9-12=-1590/0

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-0, Interior(1) 2-3-0 to 11-0-0, Exterior(2) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s).4-15, 8-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 16 and 33 lb uplift at joint 12.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	FGE	Common Supported Gable	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:47 2021 Page 1
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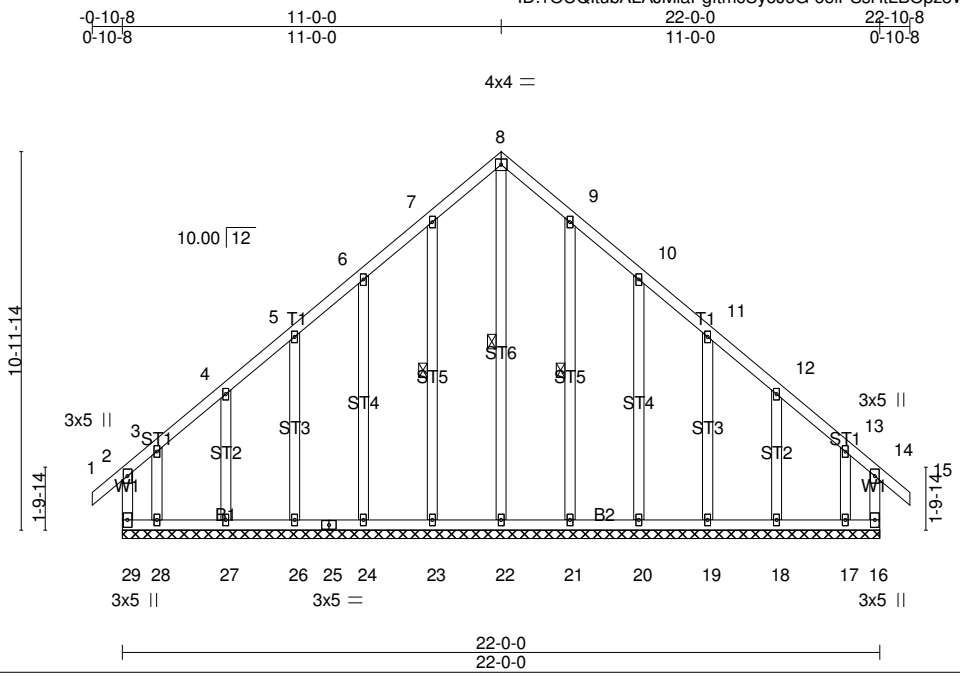

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.00	14	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	14	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.00	16	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-R							Weight: 138 lb	FT = 20%
BCDL	10.0											

LUMBER-

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

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.
WEBS	1 Row at midpt 8-22, 7-23, 9-21

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

REACTIONS. (lb/size) 29=107/22-0-0 (min. 0-2-15), 16=107/22-0-0 (min. 0-2-15), 22=152/22-0-0 (min. 0-2-15), 23=167/22-0-0 (min. 0-2-15), 24=159/22-0-0 (min. 0-2-15), 26=159/22-0-0 (min. 0-2-15), 27=167/22-0-0 (min. 0-2-15), 28=95/22-0-0 (min. 0-2-15), 21=167/22-0-0 (min. 0-2-15), 20=159/22-0-0 (min. 0-2-15), 19=159/22-0-0 (min. 0-2-15), 18=167/22-0-0 (min. 0-2-15), 17=95/22-0-0 (min. 0-2-15)
Max Horz 29=237(LC 11)
Max Uplift 29=-274(LC 10), 16=-247(LC 11), 22=-44(LC 11), 23=-74(LC 12), 24=-101(LC 12), 26=-92(LC 12), 27=-83(LC 12), 28=-304(LC 9), 21=-73(LC 13), 20=-101(LC 13), 19=-92(LC 13), 18=-84(LC 13), 17=-285(LC 8)
Max Grav 29=318(LC 9), 16=292(LC 8), 22=390(LC 13), 23=194(LC 20), 24=191(LC 20), 26=192(LC 20), 27=184(LC 20), 28=373(LC 10), 21=193(LC 21), 20=191(LC 21), 19=191(LC 21), 18=185(LC 21), 17=352(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-29=-205/172, 1-2=0/65, 2-3=-191/190, 3-4=-129/137, 4-5=-137/186, 5-6=-198/245, 6-7=-275/333, 7-8=-335/399, 8-9=-335/399, 9-10=-275/333, 10-11=-198/245, 11-12=-129/182, 12-13=-117/126, 13-14=-173/172, 14-15=0/65, 14-16=-192/156
BOT CHORD	28-29=-136/133, 27-28=-136/133, 26-27=-136/133, 25-26=-136/133, 24-25=-136/133, 23-24=-136/133, 22-23=-136/133, 21-22=-136/133, 20-21=-136/133, 19-20=-136/133, 18-19=-136/133, 17-18=-136/133, 16-17=-136/133
WEBS	8-22=-429/296, 7-23=-154/97, 6-24=-160/126, 5-26=-150/114, 4-27=-156/117, 3-28=-195/179, 9-21=-153/97, 10-20=-160/126, 11-19=-149/114, 12-18=-156/117, 13-17=-186/170

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 11-0-0, Corner(3) 11-0-0 to 14-0-0, Exterior(2) 14-0-0 to 22-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 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.

Continued on page 2

NOTES-

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 29, 247 lb uplift at joint 16, 44 lb uplift at joint 22, 74 lb uplift at joint 23, 101 lb uplift at joint 24, 92 lb uplift at joint 26, 83 lb uplift at joint 27, 304 lb uplift at joint 28, 73 lb uplift at joint 21, 101 lb uplift at joint 20, 92 lb uplift at joint 19, 84 lb uplift at joint 18 and 285 lb uplift at joint 17.
12) 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	Barnes - Beverly A
BARNES FILE 2	FH	Hip	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:48 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-aqGngCIW6UWfaD5QyWPYaYOdvurQDcPGujcQZJy9Pjb

-0-10-8	6-8-2	12-0-0	12-10-11	19-1-5	20-0-0	25-3-14	32-0-0	32-10-8
0-10-8	6-8-2	5-3-14	0-10-11	6-2-9	0-10-11	5-3-14	6-8-2	0-10-8

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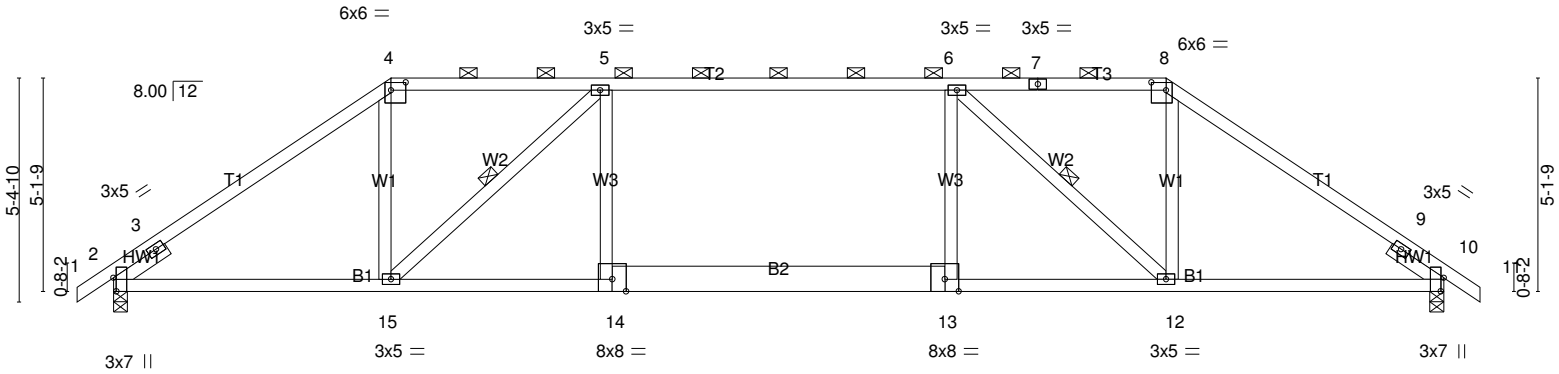

6-8-2	12-0-0	16-0-0	20-0-0	25-3-14	32-0-0
6-8-2	5-3-14	4-0-0	4-0-0	5-3-14	6-8-2

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [4:0-4-4,0-2-4], [8:0-4-4,0-2-4], [10:0-3-15,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.14	14-15	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.25	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS								
BCDL	10.0										Weight: 134 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B2: 2x8 SP No.1
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except 2-0-0 oc purlins (2-8-1 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.
WEBS 1 Row at midpt 5-15, 6-12

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

REACTIONS. (lb/size) 2=1332/0-4-0 (min. 0-2-1), 10=1332/0-4-0 (min. 0-2-1)
Max Horz 2=98(LC 11)
Max Uplift2=-197(LC 9), 10=-197(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-674/30, 3-24=-1812/355, 4-24=-1706/375, 4-25=-1395/363, 5-25=-1395/363, 5-6=-2088/480, 6-26=-1395/364, 7-26=-1395/364, 7-8=-1395/364, 8-27=-1706/374, 9-27=-1812/348, 9-10=-674/30, 10-11=0/49
BOT CHORD 2-15=-273/1450, 14-15=-389/2111, 13-14=-385/2119, 12-13=-387/2110, 10-12=-193/1416
WEBS 4-15=-100/741, 5-15=-990/293, 6-12=-990/293, 8-12=-100/741, 5-14=0/308, 6-13=0/308

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-14, Interior(1) 2-3-14 to 6-8-2, Exterior(2) 6-8-2 to 11-2-7, Interior(1) 11-2-7 to 25-3-14, Exterior(2) 25-3-14 to 29-10-3, Interior(1) 29-10-3 to 32-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 197 lb uplift at joint 2 and 197 lb uplift at joint 10.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	FV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:48 2021 Page 1
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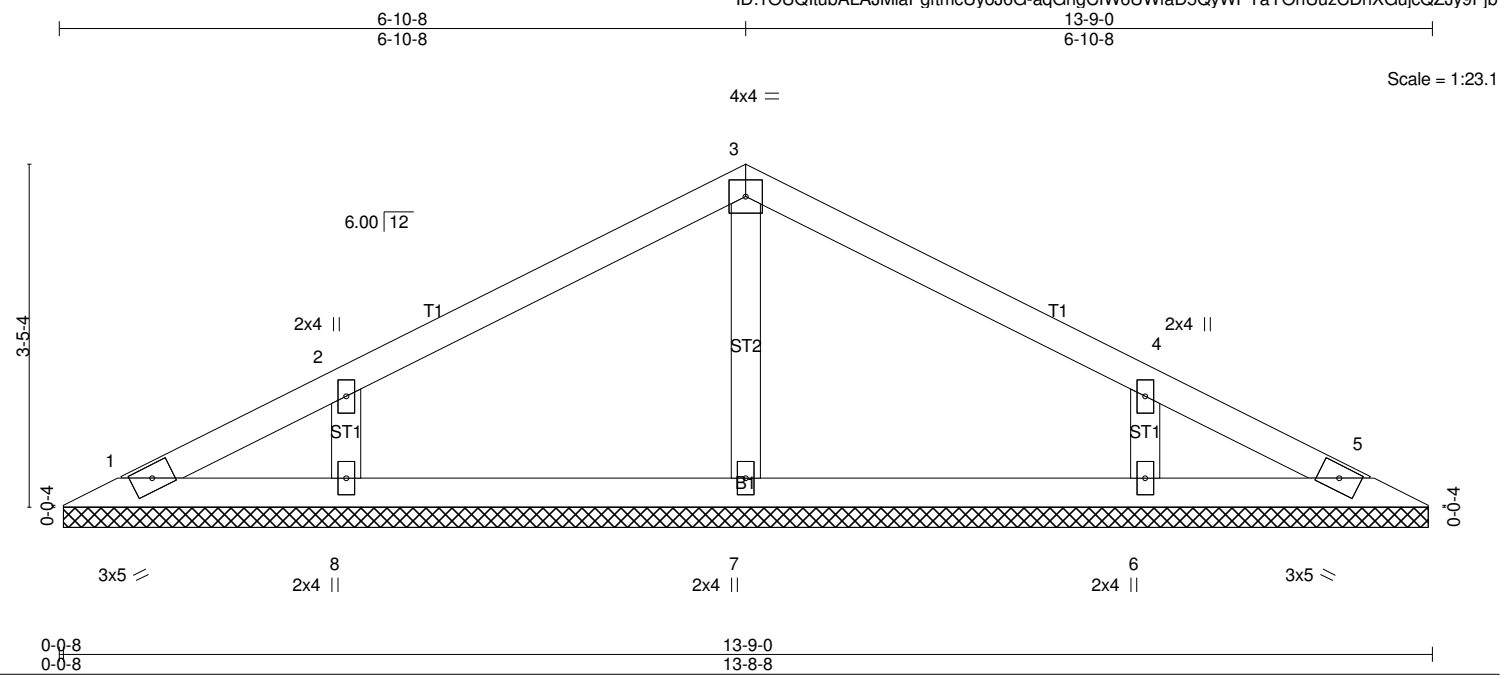


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							Weight: 37 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=60/13-8-0 (min. 0-1-9), 5=60/13-8-0 (min. 0-1-9), 7=284/13-8-0 (min. 0-1-9), 8=297/13-8-0 (min. 0-1-9), 6=297/13-8-0 (min. 0-1-9)
Max Horz 1=41(LC 14)
Max Uplift 1=-9(LC 15), 5=-1(LC 14), 8=-115(LC 14), 6=-115(LC 15)
Max Grav 1=60(LC 1), 5=60(LC 1), 7=284(LC 1), 8=310(LC 20), 6=310(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-56/34, 2-9=-86/63, 9-10=-48/69, 3-10=-47/77, 3-11=-47/78, 11-12=-48/70, 4-12=-86/64, 4-5=-43/23
BOT CHORD 1-8=-4/36, 7-8=-4/36, 6-7=-4/36, 5-6=-4/36
WEBS 3-7=-200/58, 2-8=-241/157, 4-6=-241/157

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-10-8, Exterior(2) 6-10-8 to 9-10-8, Interior(1) 9-10-8 to 13-1-7 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
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 9 lb uplift at joint 1, 1 lb uplift at joint 5, 115 lb uplift at joint 8 and 115 lb uplift at joint 6.
8) 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

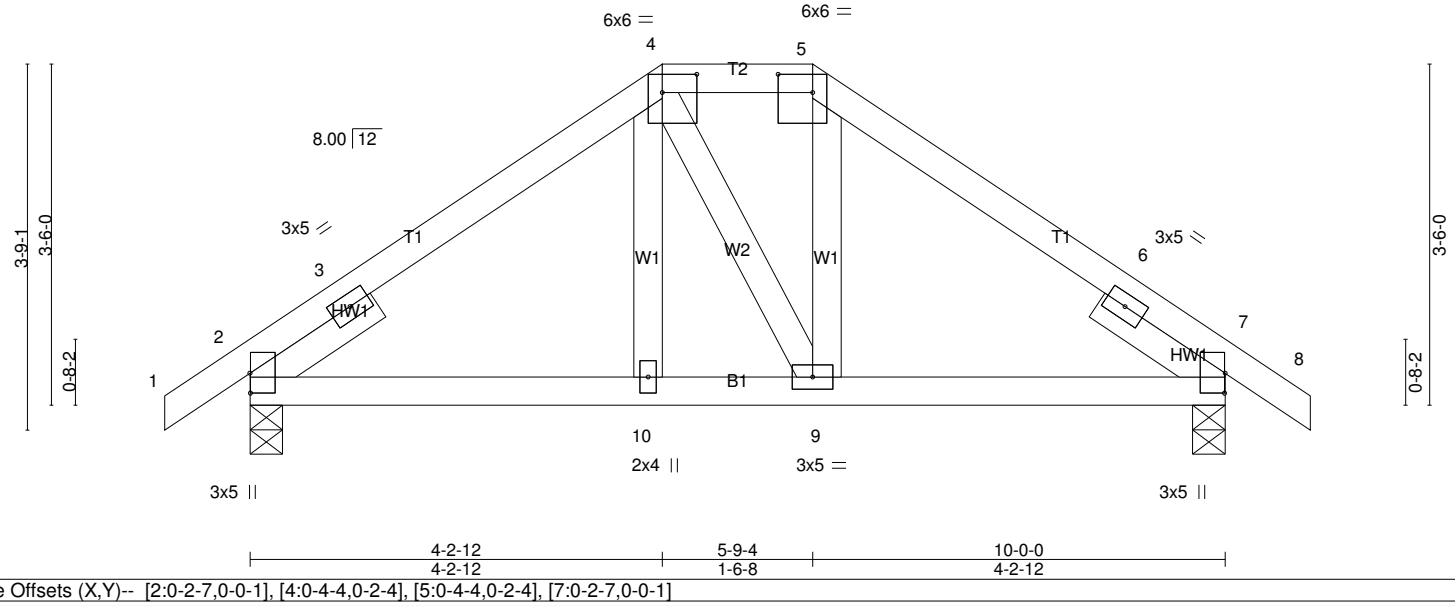
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	GH	Hip	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:48 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-aqGngCIW6UWfaD5QyWPYaYOoxuyeDhjGujcQZJy9Pjb

-0-10-8	4-2-12	5-9-4	10-0-0	10-10-8
0-10-8	4-2-12	1-6-8	4-2-12	0-10-8

Scale = 1:23.6



4-2-12	5-9-4	10-0-0
4-2-12	1-6-8	4-2-12

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.01	10-13	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	10-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 41 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
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=452/0-4-0 (min. 0-1-8), 7=452/0-4-0 (min. 0-1-8)
Max Horz 2=-66(LC 10)
Max Uplift2=-81(LC 12), 7=-81(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-213/0, 3-19=-396/119, 4-19=-383/129, 4-5=-342/149, 5-20=-383/129, 6-20=-397/119, 6-7=-213/0, 7-8=0/49
BOT CHORD 2-10=-26/320, 9-10=-26/316, 7-9=-22/318
WEBS 4-10=0/111, 4-9=-58/59, 5-9=-5/112

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-2-12, Exterior(2) 4-2-12 to 10-0-0, Interior(1) 10-0-0 to 10-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 81 lb uplift at joint 7.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	GV	Valley	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:49 2021 Page 1
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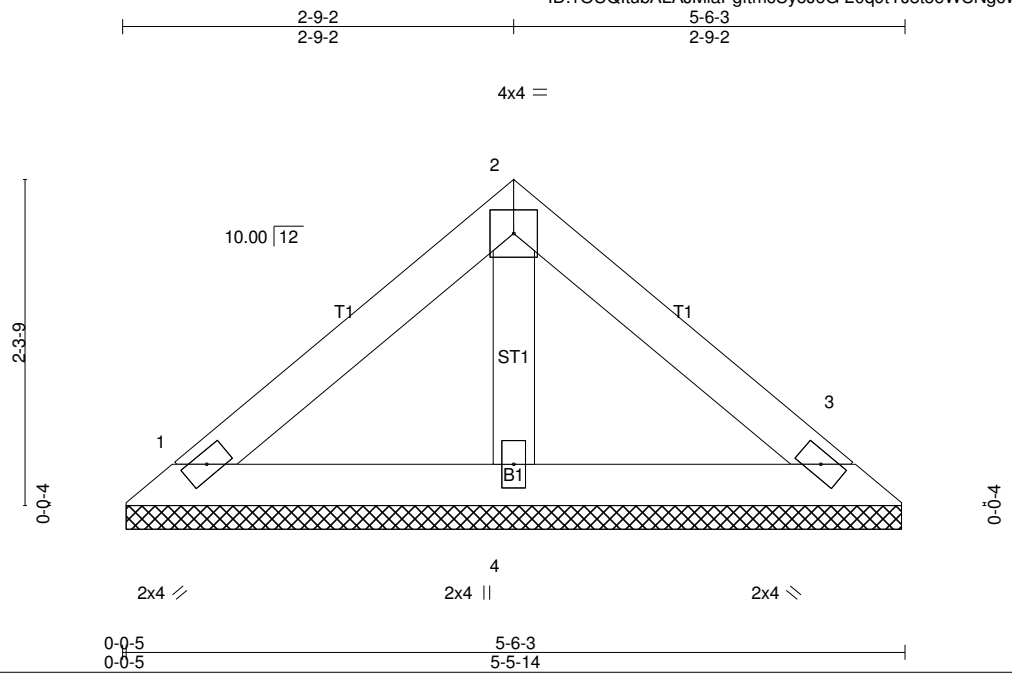


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-3 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.

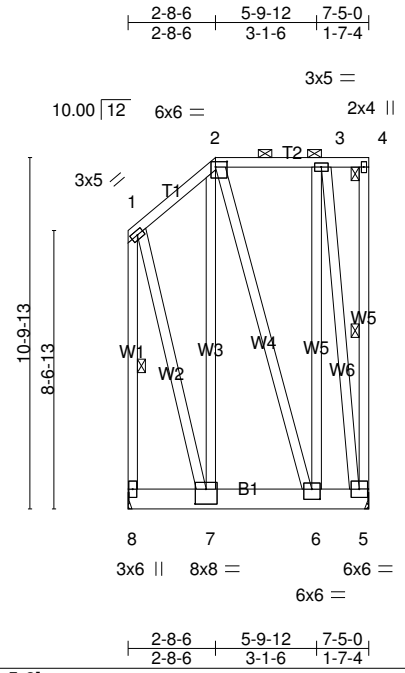
REACTIONS. (lb/size) 1=109/5-5-10 (min. 0-1-8), 3=109/5-5-10 (min. 0-1-8), 4=158/5-5-10 (min. 0-1-8)
Max Horz 1=-38(LC 10)
Max Uplift1=-32(LC 12), 3=-37(LC 13)
Max Grav 1=109(LC 1), 3=112(LC 20), 4=158(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-77/39, 2-3=-69/35
BOT CHORD 1-4=-10/30, 3-4=-10/30
WEBS 2-4=-99/41

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 37 lb uplift at joint 3.
7) 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	Barnes - Beverly A
BARNES FILE 2	HA	Half Hip Girder	1	2	Job Reference (optional)



Scale = 1:71.0

Plate Offsets (X,Y)-- [2:0-4-4,0-2-0], [6:0-3-0,0-3-12], [7:0-4-0,0-5-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.02	6-7	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 216 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

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.): 2-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5, 1-8

REACTIONS. (lb/size) 5=1759/Mechanical, 8=1675/Mechanical
Max Horz 8=296(LC 9)
Max Uplift 5=-606(LC 9), 8=-517(LC 8)
Max Grav 5=1831(LC 38), 8=1741(LC 39)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-504/202, 2-9=-281/223, 3-9=-281/223, 3-10=-189/201, 4-10=-189/201, 4-5=-18/7, 1-8=-1513/595
BOT CHORD 8-11=-352/353, 7-11=-352/353, 7-12=-321/442, 6-12=-321/442, 5-6=-226/301
WEBS 2-7=-531/714, 1-7=-550/1204, 3-6=-530/1331, 2-6=-650/511, 3-5=-1447/660

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 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 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 Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 6-11-5, Interior(1) 6-11-5 to 7-3-4 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
4) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 606 lb uplift at joint 5 and 517 lb uplift at joint 8.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 977 lb down and 254 lb up at 1-9-12, and 1016 lb down and 223 lb up at 3-9-12, and 1005 lb down and 209 lb up at 5-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60, 2-4=-60, 5-8=-20
   Concentrated Loads (lb)
      Vert: 6=-955(B) 11=-955(B) 12=-955(B)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	HB	Half Hip	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:50 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-WCOX5uJme6mNqXFo3xS0fzT0siYlhStYL15XeBy9PjZ

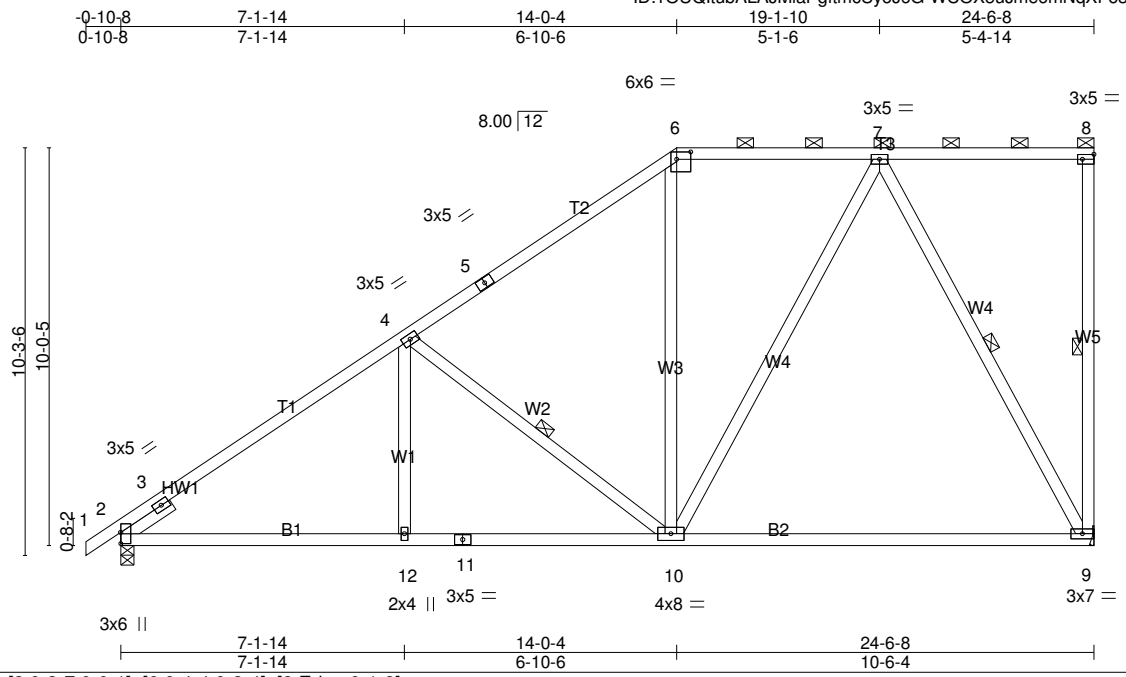


Plate Offsets (X,Y)-- [2:0-3-7,0-0-1], [6:0-4-4,0-2-4], [8:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.48	9-10	>607	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.76	9-10	>385	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 129 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B2: 2x4 SP DSS
WEBS 2x4 SPF Stud *Except*
W5: 2x4 SPF No.2
SLIDER Left 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 9-1-8 oc bracing.
WEBS 1 Row at midpt 8-9, 4-10, 7-9

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

REACTIONS. (lb/size) 9=975/Mechanical, 2=1029/0-4-0 (min. 0-1-10)
Max Horz 2=295(LC 11)
Max Uplift 9=-234(LC 9), 2=-186(LC 12)
Max Grav 9=1006(LC 20), 2=1044(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-622/0, 3-17=-1313/240, 4-17=-1158/263, 4-5=-944/234, 5-18=-871/243, 6-18=-838/263, 6-19=-701/273, 7-19=-701/273, 7-20=-166/167, 8-20=-166/167, 8-9=-135/88
BOT CHORD 2-12=-397/1124, 11-12=-397/1124, 10-11=-397/1124, 10-21=-165/414, 21-22=-165/414, 9-22=-165/414
WEBS 4-12=0/221, 4-10=-569/279, 6-10=0/224, 7-10=-111/590, 7-9=-851/296

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-4, Exterior(2) 14-0-4 to 18-3-3, Interior(1) 18-3-3 to 24-4-12 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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 234 lb uplift at joint 9 and 186 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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	Barnes - Beverly A
BARNES FILE 2	HC	Half Hip	1	1	Job Reference (optional)

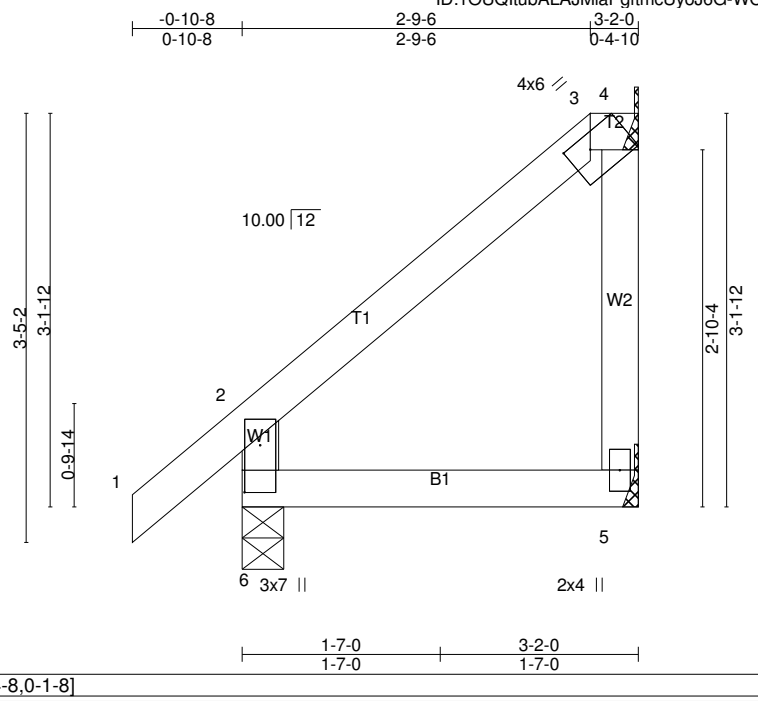


Plate Offsets (X,Y)-- [3:0-2-3,0-1-6], [6:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	5-6	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MR							Weight: 13 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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) 4=72/Mechanical, 5=32/Mechanical, 6=187/0-4-0 (min. 0-1-8)
Max Horz 6=94(LC 11)
Max Uplift 4=-57(LC 9), 6=-27(LC 12)
Max Grav 4=88(LC 20), 5=59(LC 3), 6=187(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/65, 2-7=-98/49, 3-7=-61/63, 3-4=-68/64, 4-5=0/0, 2-6=-162/101
BOT CHORD 5-6=-42/50

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-6, Exterior(2) 2-9-6 to 3-0-4 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 4 and 27 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	HD	Half Hip Girder	1	1	Job Reference (optional)

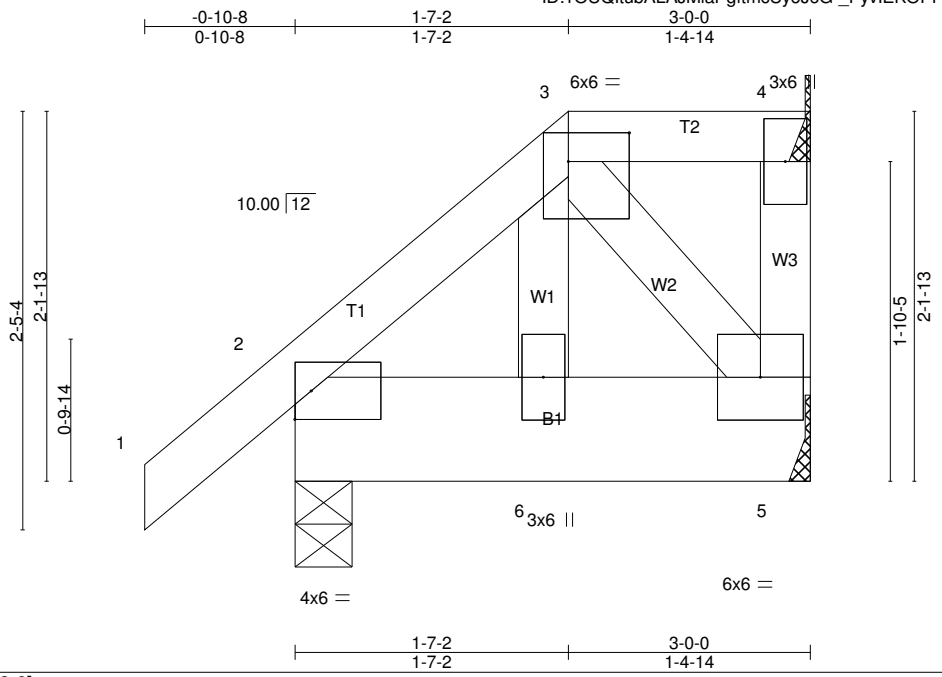


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	6	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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) 4=38/Mechanical, 2=177/0-4-0 (min. 0-1-8), 5=71/Mechanical
Max Horz 2=60(LC 11)
Max Uplift 4=-19(LC 8), 2=-49(LC 12), 5=-33(LC 9)
Max Grav 4=38(LC 1), 2=177(LC 1), 5=86(LC 39)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-94/42, 3-4=-32/34, 4-5=0/0
BOT CHORD 2-6=-47/64, 5-6=-47/62
WEBS 3-6=-11/45, 3-5=-85/63

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 4, 49 lb uplift at joint 2 and 33 lb uplift at joint 5.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 79 lb up at 1-7-2 on top chord, and 16 lb down and 14 lb up at 1-7-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) 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

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-4=-60, 5-7=-20
   Concentrated Loads (lb)
      Vert: 6=-5(B)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	HE	Half Hip Girder	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:51 2021 Page 1
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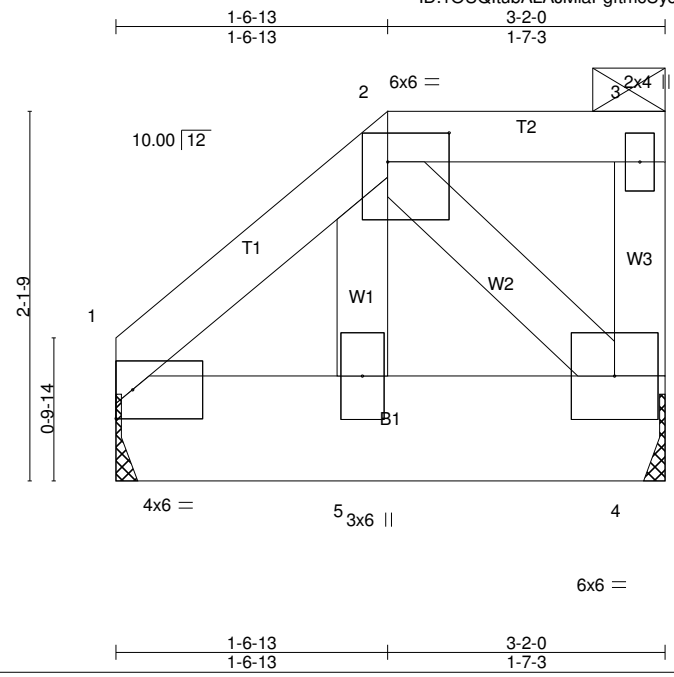

Scale = 1:13.3

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	8	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
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) 1=124/Mechanical, 4=123/Mechanical
Max Horz 1=50(LC 11)
Max Uplift 1=-33(LC 12), 4=-52(LC 9)
Max Grav 1=131(LC 41), 4=123(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-106/52, 2-3=-32/34, 3-4=-44/35
BOT CHORD 1-5=-54/76, 4-5=-53/73
WEBS 2-5=-12/46, 2-4=-94/68

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1 and 52 lb uplift at joint 4.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 79 lb up at 1-6-13 on top chord, and 16 lb down and 14 lb up at 1-7-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-5(B)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	HF	Half Hip	2	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:51 2021 Page 1
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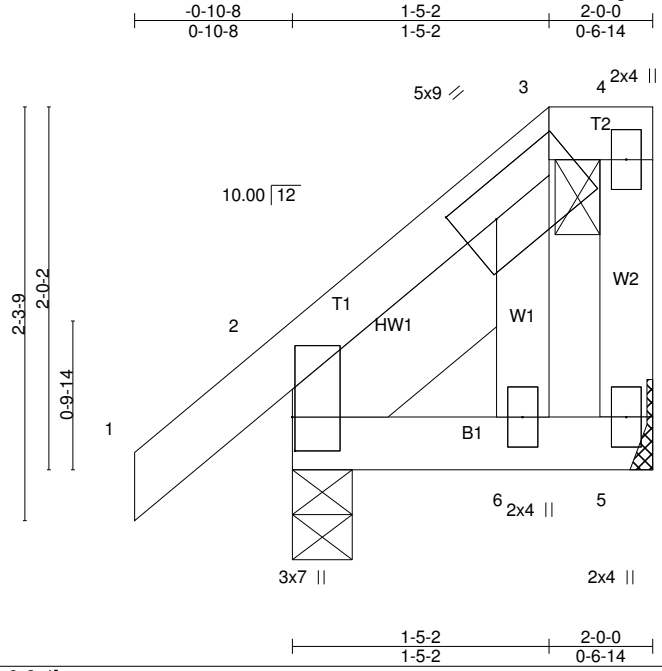

Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [3:0-2-8,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	9	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Left 2x6 SP DSS -ð 1-6-14

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=62/Mechanical, 2=139/0-4-0 (min. 0-1-8)
Max Horz 2=61(LC 11)
Max Uplift5=-32(LC 9), 2=-25(LC 12)
Max Grav 5=68(LC 20), 2=145(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-91/45, 3-4=-32/34, 4-5=-13/11
BOT CHORD 2-6=-37/36, 5-6=-32/34
WEBS 3-6=-113/96

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 25 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) 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	Barnes - Beverly A
BARNES FILE 2	HG	Half Hip Girder	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:52 2021 Page 1
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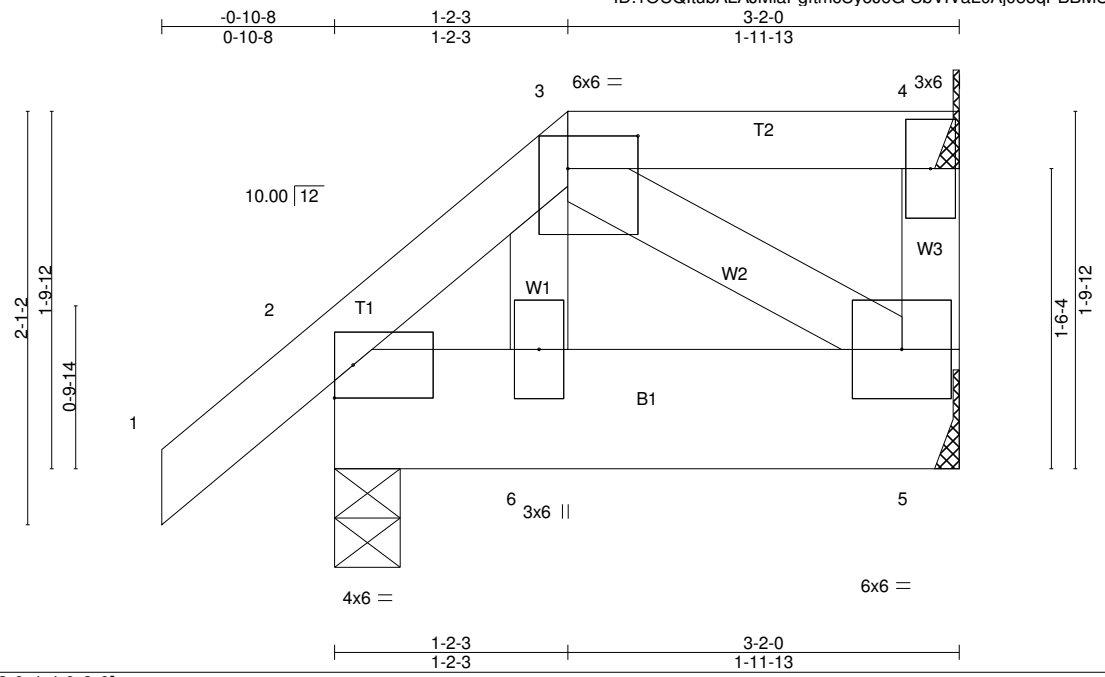


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	6	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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) 4=55/Mechanical, 2=183/0-4-0 (min. 0-1-8), 5=59/Mechanical
Max Horz 2=50(LC 11)
Max Uplift 4=-28(LC 9), 2=-47(LC 12), 5=-12(LC 9)
Max Grav 4=55(LC 1), 2=183(LC 1), 5=71(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-92/40, 3-4=-26/27, 4-5=0/0
BOT CHORD 2-6=-46/66, 5-6=-48/65
WEBS 3-6=-9/37, 3-5=-70/50

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4, 47 lb uplift at joint 2 and 12 lb uplift at joint 5.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 68 lb up at 1-2-3 on top chord, and 10 lb down and 11 lb up at 1-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) 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

Continued on page 2

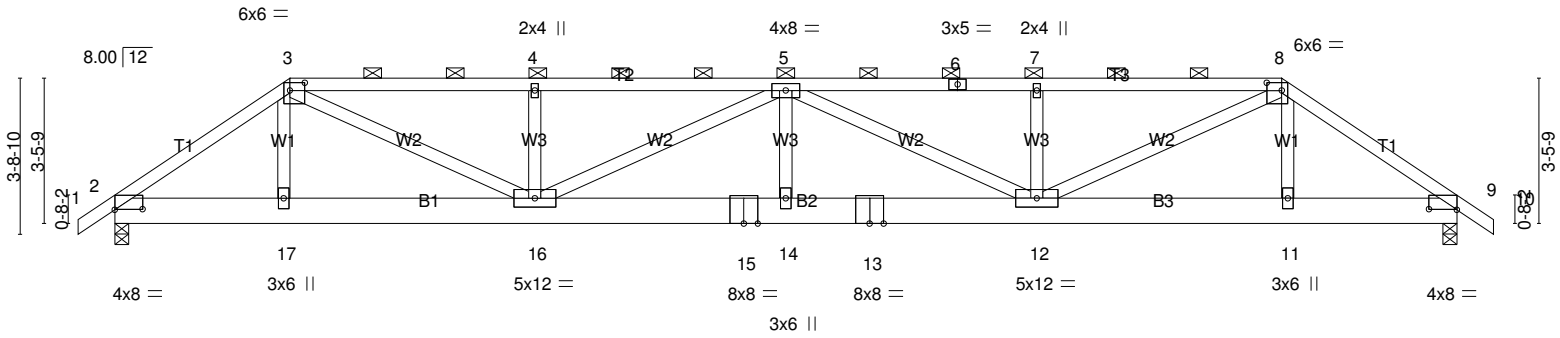
LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-4=-60, 5-7=-20
   Concentrated Loads (lb)
      Vert: 6=-3(F)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	HH	Hip Girder	1	1	Job Reference (optional)

-0-10-8	4-2-2	10-0-3	16-0-0	21-11-13	27-9-14	32-0-0	32-10-8
0-10-8	4-2-2	5-10-1	5-11-13	5-11-13	5-10-1	4-2-2	0-10-8

Scale = 1:54.9



4-2-2	10-0-3	16-0-0	21-11-13	27-9-14	32-0-0
4-2-2	5-10-1	5-11-13	5-11-13	5-10-1	4-2-2

Plate Offsets (X,Y)-- [2:0-8-0,0-0-2], [3:0-4-4,0-2-4], [8:0-4-4,0-2-4], [9:0-8-0,0-0-2]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.30	14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.40	14	>954	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 191 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except* T2,T3: 2x4 SP DSS
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except 2-0-0 oc purlins (3-3-1 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 6-1-11 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=1739/0-4-0 (min. 0-2-13), 9=1645/0-4-0 (min. 0-2-11)
Max Horz 2=66(LC 31)
Max Uplift 2=-737(LC 9), 9=-684(LC 8)
Max Grav 2=1785(LC 38), 9=1708(LC 40)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=0/29, 2-24=0/49, 2-25=-2699/1187, 3-25=-2604/1203, 3-26=-4071/1880, 26-27=-4071/1880, 27-28=-4071/1880, 4-28=-4071/1880, 4-29=-4071/1880, 29-30=-4071/1880, 5-30=-4071/1880, 5-31=-4011/1839, 6-31=-4011/1839, 6-7=-4011/1839, 7-32=-4011/1839, 32-33=-4011/1839, 33-34=-4011/1839, 8-34=-4011/1839, 8-35=-2492/1106, 35-36=-2548/1115, 36-37=-2551/1114, 9-37=-2605/1107, 9-38=0/49, 10-38=0/29
BOT CHORD 2-39=-990/2231, 17-39=-990/2231, 17-40=-986/2219, 40-41=-986/2219, 16-41=-986/2219, 16-42=-2154/4759, 42-43=-2154/4759, 15-43=-2154/4759, 14-15=-2154/4759, 13-14=-2154/4759, 13-44=-2154/4759, 12-44=-2154/4759, 12-45=-883/2115, 45-46=-883/2115, 11-46=-883/2115, 11-47=-882/2123, 9-47=-882/2123
WEBS 3-17=-98/265, 3-16=-1014/2145, 4-16=-374/218, 5-16=-742/359, 5-14=-123/342, 5-12=-807/396, 7-12=-375/221, 8-12=-1033/2164, 8-11=-19/236

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-3-14, Interior(1) 2-3-14 to 4-2-2, Exterior(2) 4-2-2 to 8-8-7, Interior(1) 8-8-7 to 27-9-14, Exterior(2) 27-9-14 to 32-4-3, Interior(1) 32-4-3 to 32-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 737 lb uplift at joint 2 and 684 lb uplift at joint 9.
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.

Continued on page 2

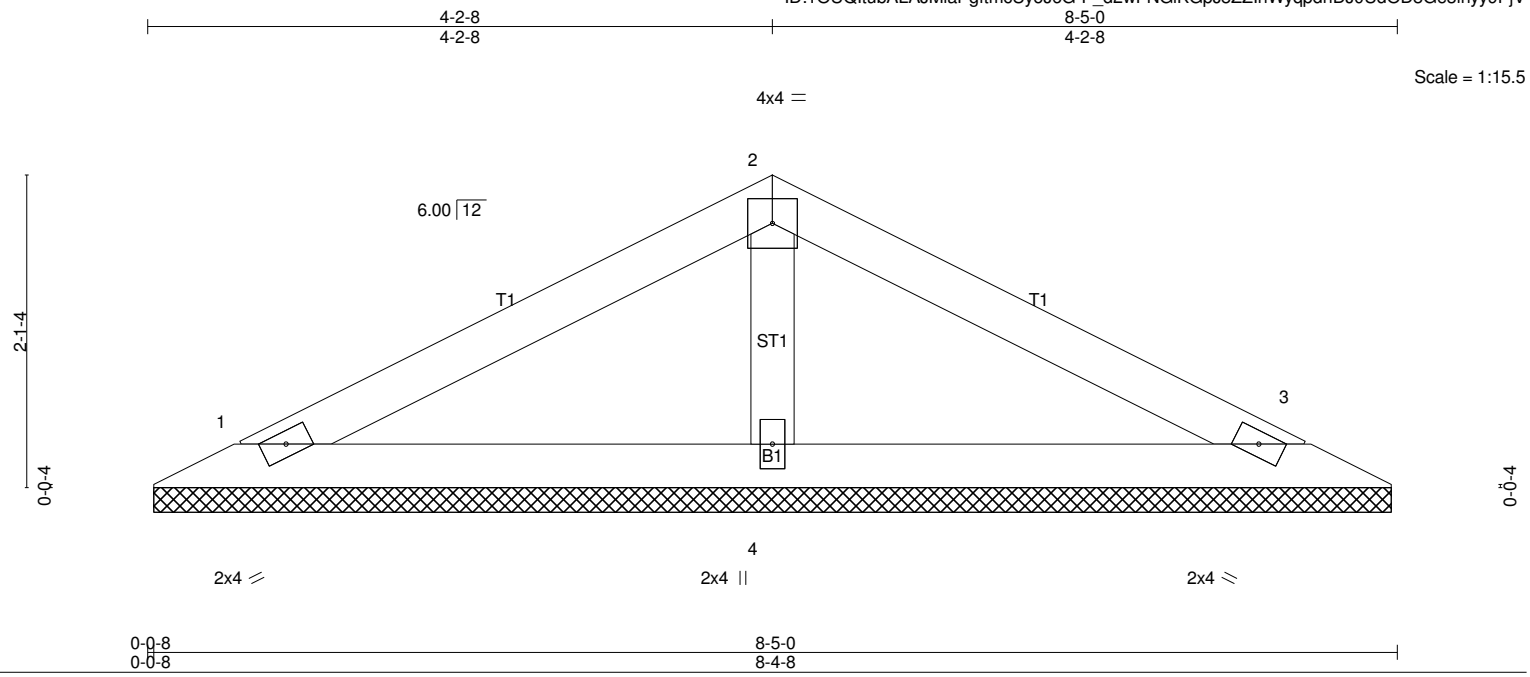
NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 71 lb up at 4-2-2, 70 lb down and 64 lb up at 6-2-14, 69 lb down and 64 lb up at 8-2-14, 69 lb down and 64 lb up at 10-2-14, 71 lb down and 66 lb up at 12-2-14, 71 lb down and 66 lb up at 14-2-14, 71 lb down and 66 lb up at 16-2-14, 71 lb down and 66 lb up at 18-2-14, 71 lb down and 66 lb up at 20-2-14, 71 lb down and 66 lb up at 22-2-14, 71 lb down and 66 lb up at 24-2-14, 71 lb down and 66 lb up at 26-2-14, and 91 lb down and 95 lb up at 28-2-14, and 36 lb down and 69 lb up at 30-2-14 on top chord, and 103 lb down and 72 lb up at 2-2-14, 71 lb down and 69 lb up at 4-2-14, 71 lb down and 69 lb up at 6-2-14, 71 lb down and 69 lb up at 8-2-14, 71 lb down and 69 lb up at 10-2-14, 68 lb down and 66 lb up at 12-2-14, 68 lb down and 66 lb up at 14-2-14, 68 lb down and 66 lb up at 16-2-14, 68 lb down and 66 lb up at 18-2-14, 68 lb down and 66 lb up at 20-2-14, 68 lb down and 66 lb up at 22-2-14, 68 lb down and 66 lb up at 24-2-14, 68 lb down and 66 lb up at 26-2-14, and 28 lb down at 28-2-14, and 44 lb down and 32 lb up at 30-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-8=-60, 8-10=-60, 18-21=-20
   Concentrated Loads (lb)
      Vert: 17=-55(F) 16=-55(F) 14=-41(F) 12=-41(F) 11=-12(F) 13=-41(F) 35=-12(F) 39=-103(F) 40=-55(F) 41=-55(F) 42=-41(F) 43=-41(F) 44=-41(F) 45=-41(F) 46=-41(F) 47=-39(F)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	HV	Valley	1	1	Job Reference (optional)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-P							Weight: 20 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 1=146/8-4-0 (min. 0-1-8), 3=146/8-4-0 (min. 0-1-8), 4=281/8-4-0 (min. 0-1-8)
Max Horz 1=23(LC 18)
Max Uplift1=-44(LC 14), 3=-48(LC 15), 4=-17(LC 14)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-65/32, 5-6=-30/37, 2-6=-17/42, 2-7=-17/42, 7-8=-28/37, 3-8=-65/32
BOT CHORD 1-4=0/26, 3-4=0/26
WEBS 2-4=-191/109

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-2-8, Exterior(2) 4-2-8 to 7-2-8, Interior(1) 7-2-8 to 7-9-7 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
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 44 lb uplift at joint 1, 48 lb uplift at joint 3 and 17 lb uplift at joint 4.
8) 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

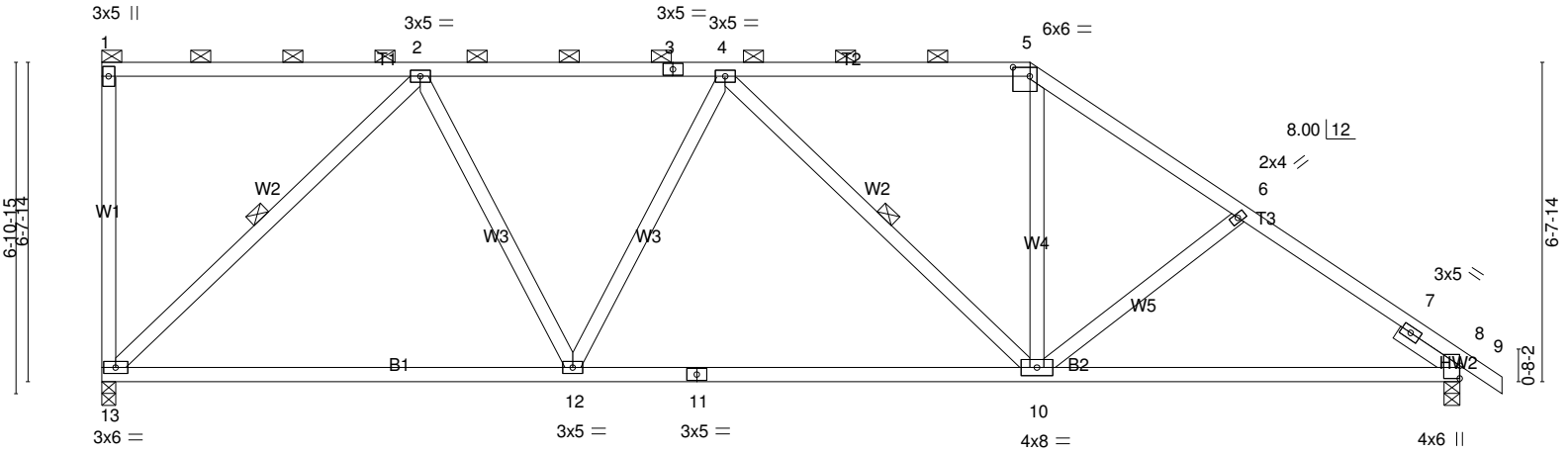
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	I	Roof Special	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:54 2021 Page 1
ID:1OUQItubALAJMlaPgftmcUyoJ6G-P_d2wFNGiKGpJ8ZZInWyqpdjEJpHdFP8Ge3Inyy9PjV

6-7-13	13-0-1	19-4-6	23-8-7	28-4-0	29-2-8
6-7-13	6-4-5	6-4-5	4-4-1	4-7-9	0-10-8

Scale: 1/4"=1'



9-9-15	19-4-6	28-4-0
9-9-15	9-6-7	8-11-10

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.22	12-13	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.46	12-13	>740	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF Stud
SLIDER	Right 2x4 SPF Stud -ð 1-6-0

BRACING-

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

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

REACTIONS. (lb/size) 13=1127/0-3-8 (min. 0-1-12), 8=1181/0-4-0 (min. 0-1-14)
Max Horz 13=-196(LC 10)
Max Uplift 13=-267(LC 8), 8=-184(LC 13)
Max Grav 13=1130(LC 2), 8=1181(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-13=-169/92, 1-18=-116/109, 2-18=-116/109, 2-3=-1233/294, 3-4=-1233/294, 4-19=-1110/301, 5-19=-1110/301, 5-20=-1351/315, 6-20=-1416/301, 6-21=-1553/336, 7-21=-1589/320, 7-8=-791/0, 8-9=0/49
BOT CHORD	13-22=-205/976, 22-23=-205/976, 12-23=-205/976, 12-24=-227/1309, 11-24=-227/1309, 11-25=-227/1309, 10-25=-227/1309, 8-10=-181/1263
WEBS	2-13=-1253/331, 2-12=-24/598, 4-12=-273/169, 4-10=-303/179, 5-10=-28/484, 6-10=-252/186

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 19-4-6, Exterior(2) 19-4-6 to 22-4-6, Interior(1) 22-4-6 to 29-2-8 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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 267 lb uplift at joint 13 and 184 lb uplift at joint 8.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	IH	Hip Girder	1	1	Job Reference (optional)

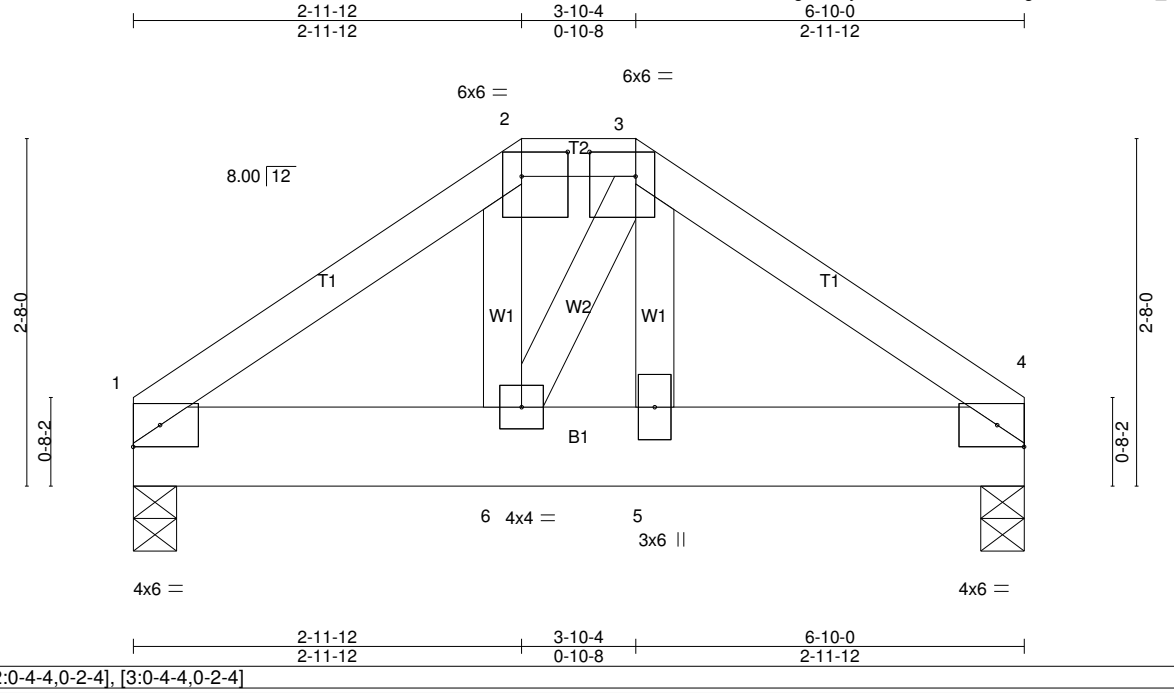


Plate Offsets (X,Y)-- [2:0-4-4,0-2-4], [3:0-4-4,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	6	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 37 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 2-3.
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) 1=412/0-4-0 (min. 0-1-8), 4=411/0-4-0 (min. 0-1-8)
Max Horz 1=-39(LC 27)
Max Uplift1=-71(LC 12), 4=-71(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-461/125, 2-3=-340/128, 3-4=-450/125
BOT CHORD 1-13=-56/347, 6-13=-56/347, 6-14=-50/325, 5-14=-50/325, 5-15=-49/331, 4-15=-49/331
WEBS 2-6=-6/142, 3-6=-22/37, 3-5=-11/121

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 1 and 71 lb uplift at joint 4.
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.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 83 lb up at 2-11-12, and 84 lb down and 83 lb up at 3-10-4 on top chord, and 92 lb down at 1-4-12, 23 lb down and 26 lb up at 3-0-8, 92 lb down at 3-4-12, and 23 lb down and 26 lb up at 3-9-8, and 92 lb down at 5-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 7-10=-20
Concentrated Loads (lb)
Vert: 6=-1(B) 5=-1(B) 13=-92(F) 14=-92(F) 15=-92(F)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	J	Common	4	1	Job Reference (optional)

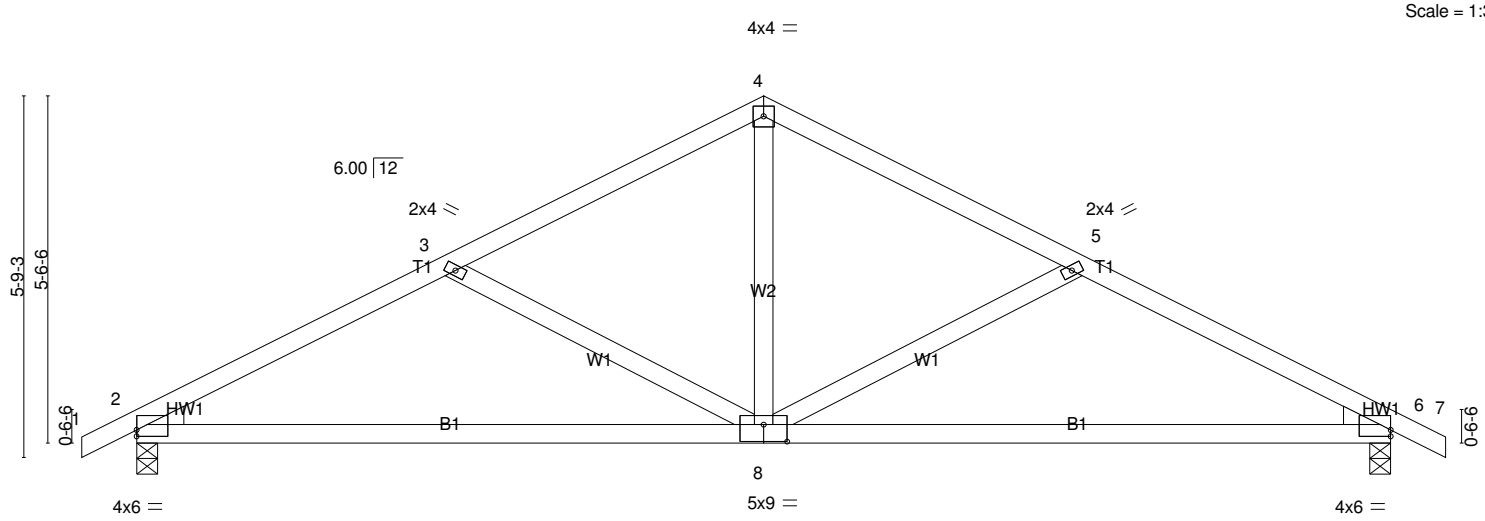
84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:55 2021 Page 1

ID:1OUQltubALAJMlaPgftmcUyoJ6G-tABQ8bNvTeOgwI8msU1BM0AxAjB7Mn2IVIoIJPy9PjU

0-10-8	5-1-0	10-0-0	14-11-0	20-0-0	20-10-8
0-10-8	5-1-0	4-11-0	4-11-0	5-1-0	0-10-8

Scale = 1:36.7



10-0-0	20-0-0
10-0-0	10-0-0

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.15	8-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.31	8-14	>764	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 70 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
WEDGE
Left: 2x4 SPF Stud , Right: 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-5 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=853/0-4-0 (min. 0-1-8), 6=852/0-4-0 (min. 0-1-8)
Max Horz 2=71(LC 14)
Max Uplift2=-162(LC 14), 6=-162(LC 15)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-15=-1302/273, 3-15=-1241/289, 3-16=-974/198, 16-17=-918/199, 4-17=-901/210, 4-18=-901/210, 18-19=-918/199, 5-19=-974/198, 5-20=-1241/289, 6-20=-1302/273, 6-7=0/39
BOT CHORD 2-8=-246/1110, 6-8=-194/1110
WEBS 4-8=-34/566, 5-8=-386/220, 3-8=-386/220

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
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 162 lb uplift at joint 2 and 162 lb uplift at joint 6.
8) 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	Barnes - Beverly A
BARNES FILE 2	JA	Jack-Open	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:55 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-tABQ8bNvTeOgwI8msU1BM0A_vjNlMr8IVIoIJPy9PjU

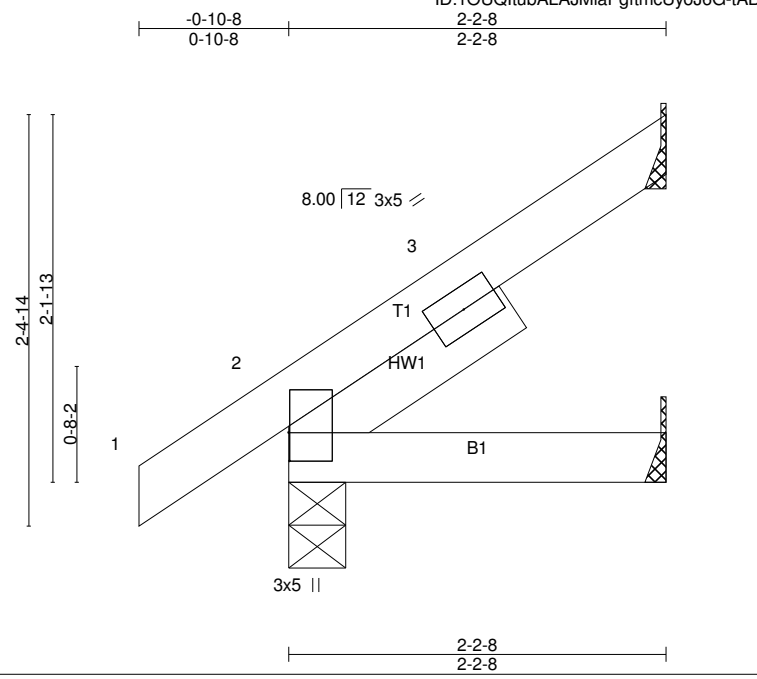


Plate Offsets (X,Y)-- [2:0-2-0,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	8	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 9 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=50/Mechanical, 2=149/0-4-0 (min. 0-1-8), 5=25/Mechanical
Max Horz 2=71(LC 12)
Max Uplift4=-43(LC 12), 2=-10(LC 12), 5=-3(LC 12)
Max Grav 4=63(LC 20), 2=149(LC 1), 5=37(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-56/23, 3-4=-30/37
BOT CHORD 2-5=0/0

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 4, 10 lb uplift at joint 2 and 3 lb uplift at joint 5.
8) 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	Barnes - Beverly A
BARNES FILE 2	JB	Jack-Open	1	1	Job Reference (optional)

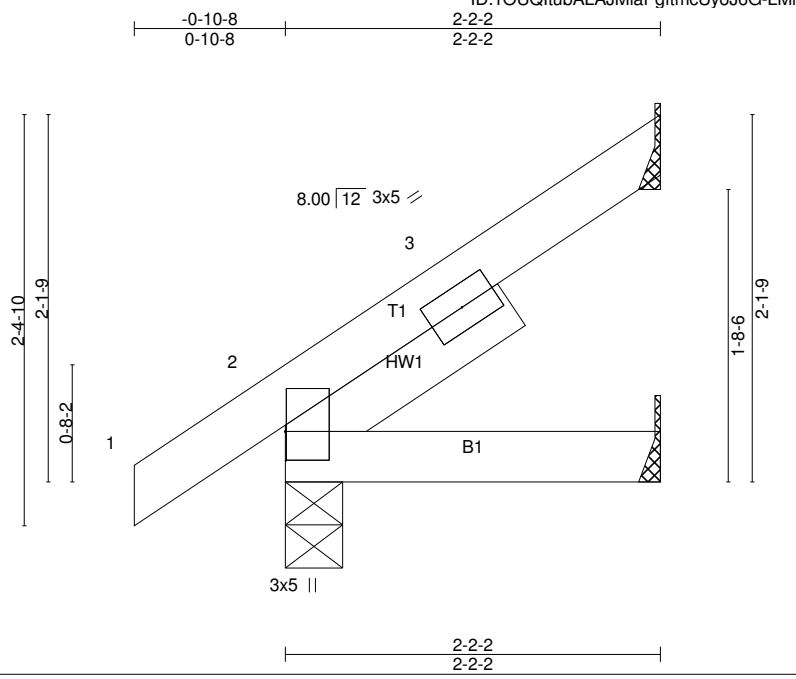


Plate Offsets (X,Y)-- [2:0-2-0,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	8	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 9 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF Stud -ð 1-6-0

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

REACTIONS. (lb/size) 4=49/Mechanical, 2=148/0-4-0 (min. 0-1-8), 5=25/Mechanical
Max Horz 2=70(LC 12)
Max Uplift4=-42(LC 12), 2=-10(LC 12), 5=-3(LC 12)
Max Grav 4=62(LC 20), 2=148(LC 1), 5=36(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-55/19, 3-4=-30/37
BOT CHORD 2-5=0/0

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4, 10 lb uplift at joint 2 and 3 lb uplift at joint 5.
8) 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	Barnes - Beverly A
BARNES FILE 2	JC	Jack-Open	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:06:56 2021 Page 1
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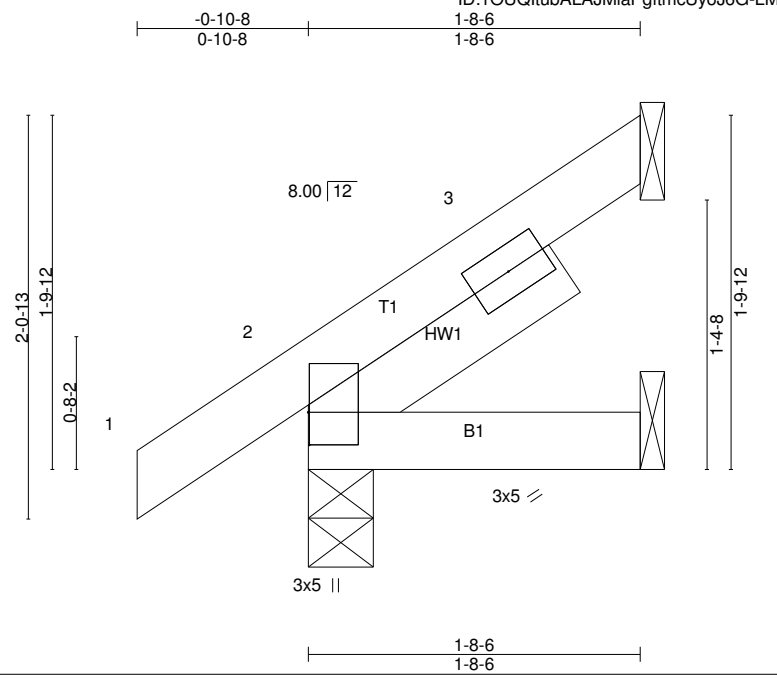


Plate Offsets (X,Y)-- [2:0-2-0,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	8	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=36/Mechanical, 2=134/0-4-0 (min. 0-1-8), 5=18/Mechanical
Max Horz 2=59(LC 12)
Max Uplift4=-34(LC 12), 2=-10(LC 12), 5=-2(LC 12)
Max Grav 4=47(LC 20), 2=144(LC 18), 5=27(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-46/29, 3-4=-24/30
BOT CHORD 2-5=0/0

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 4, 10 lb uplift at joint 2 and 2 lb uplift at joint 5.
8) 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	Barnes - Beverly A
BARNES FILE 2	JD	Jack-Partial	8	1	Job Reference (optional)

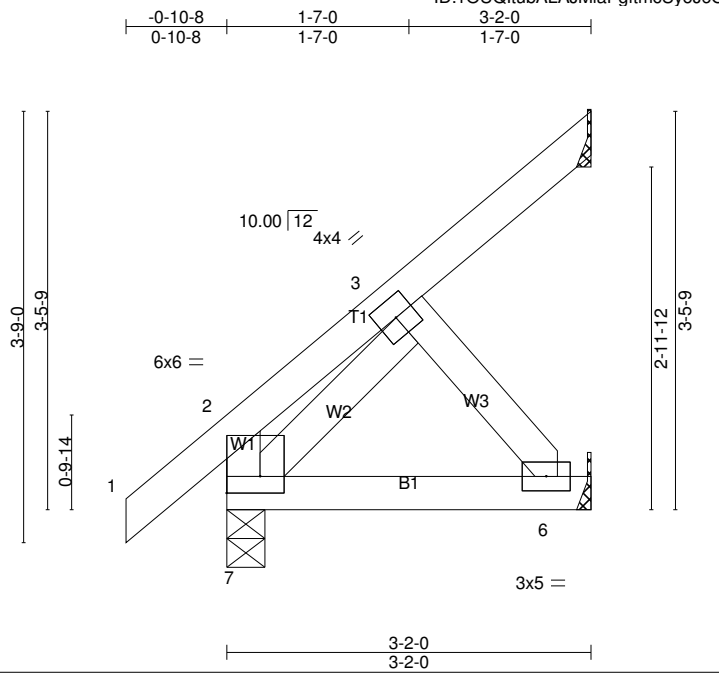


Plate Offsets (X,Y)-- [2:Edge,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	6-7	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=46/Mechanical, 5=61/Mechanical, 7=190/0-4-0 (min. 0-1-8)
Max Horz 7=118(LC 12)
Max Uplift4=-41(LC 12), 5=-46(LC 12)
Max Grav 4=57(LC 20), 5=84(LC 20), 7=190(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-161/135, 1-2=0/65, 2-3=-81/96, 3-8=-37/25, 4-8=-32/36
BOT CHORD 6-7=-66/73, 5-6=0/0
WEBS 3-7=-134/81, 3-6=-112/101

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-1-4 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4 and 46 lb uplift at joint 5.
8) 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	Barnes - Beverly A
BARNES FILE 2	JE	Jack-Partial	4	1	Job Reference (optional)

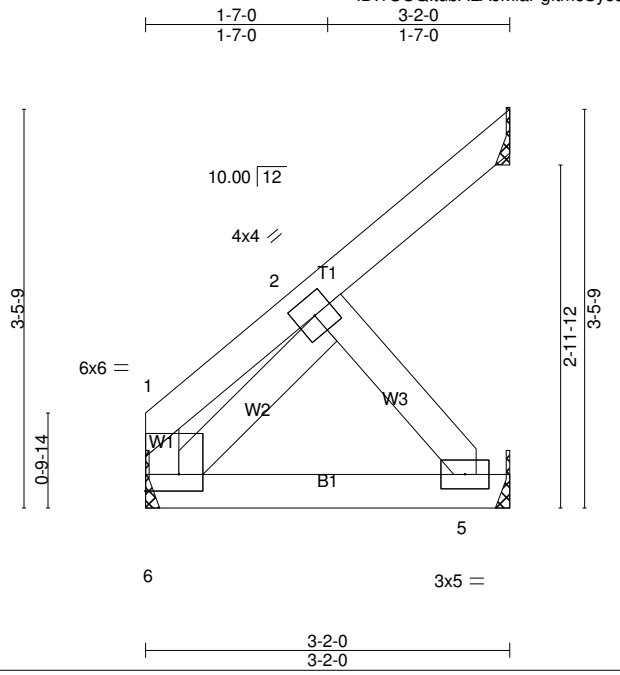


Plate Offsets (X,Y)-- [1:Edge,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	5-6	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 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.

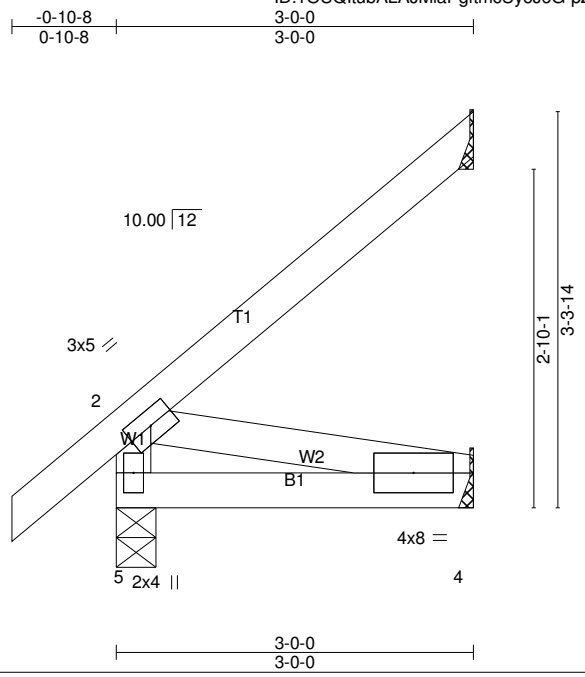
REACTIONS. (lb/size) 3=43/Mechanical, 4=75/Mechanical, 6=118/Mechanical
Max Horz 6=96(LC 12)
Max Uplift 3=-39(LC 12), 4=-49(LC 12)
Max Grav 3=53(LC 19), 4=96(LC 19), 6=118(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-47/38, 1-2=-38/40, 2-3=-37/34
BOT CHORD 5-6=-70/76, 4-5=0/0
WEBS 2-6=-77/37, 2-5=-116/107

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 49 lb uplift at joint 4.
7) 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	Barnes - Beverly A
BARNES FILE 2	JF	Jack-Open	9	1	Job Reference (optional)



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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) 5=185/0-4-0 (min. 0-1-8), 3=73/Mechanical, 4=29/Mechanical
Max Horz 5=112(LC 12)
Max Uplift3=-74(LC 12), 4=-7(LC 12)
Max Grav 5=185(LC 1), 3=94(LC 20), 4=57(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-156/34, 1-2=0/65, 2-6=-67/55, 3-6=-56/69
BOT CHORD 4-5=-135/112
WEBS 2-4=-114/138

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-4 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3 and 7 lb uplift at joint 4.
8) 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	Barnes - Beverly A
BARNES FILE 2	JG	Jack-Open	3	1	Job Reference (optional)

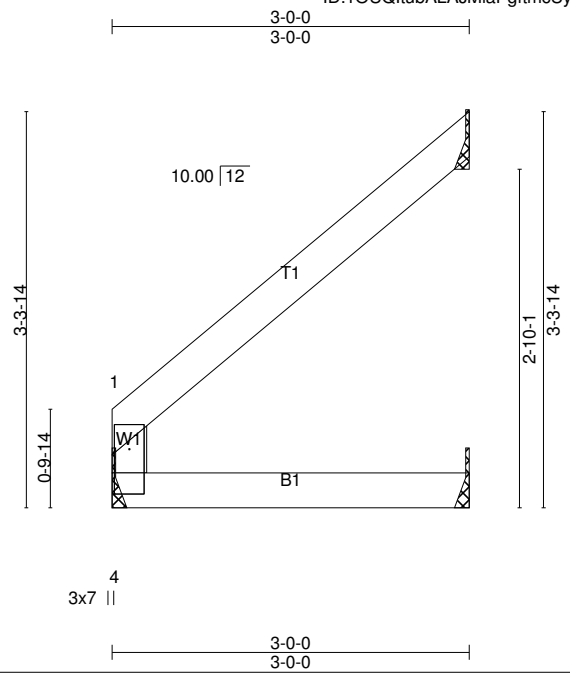


Plate Offsets (X,Y)-- [4:0-4-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.01	3-4	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MR							Weight: 9 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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) 4=112/Mechanical, 2=77/Mechanical, 3=35/Mechanical
Max Horz 4=90(LC 12)
Max Uplift2=-80(LC 12), 3=-4(LC 12)
Max Grav 4=112(LC 1), 2=100(LC 19), 3=54(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-90/8, 1-2=-70/67
BOT CHORD 3-4=0/0

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 4 lb uplift at joint 3.
7) 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	Barnes - Beverly A
BARNES FILE 2	JGE	Common Supported Gable	1	1	Job Reference (optional)

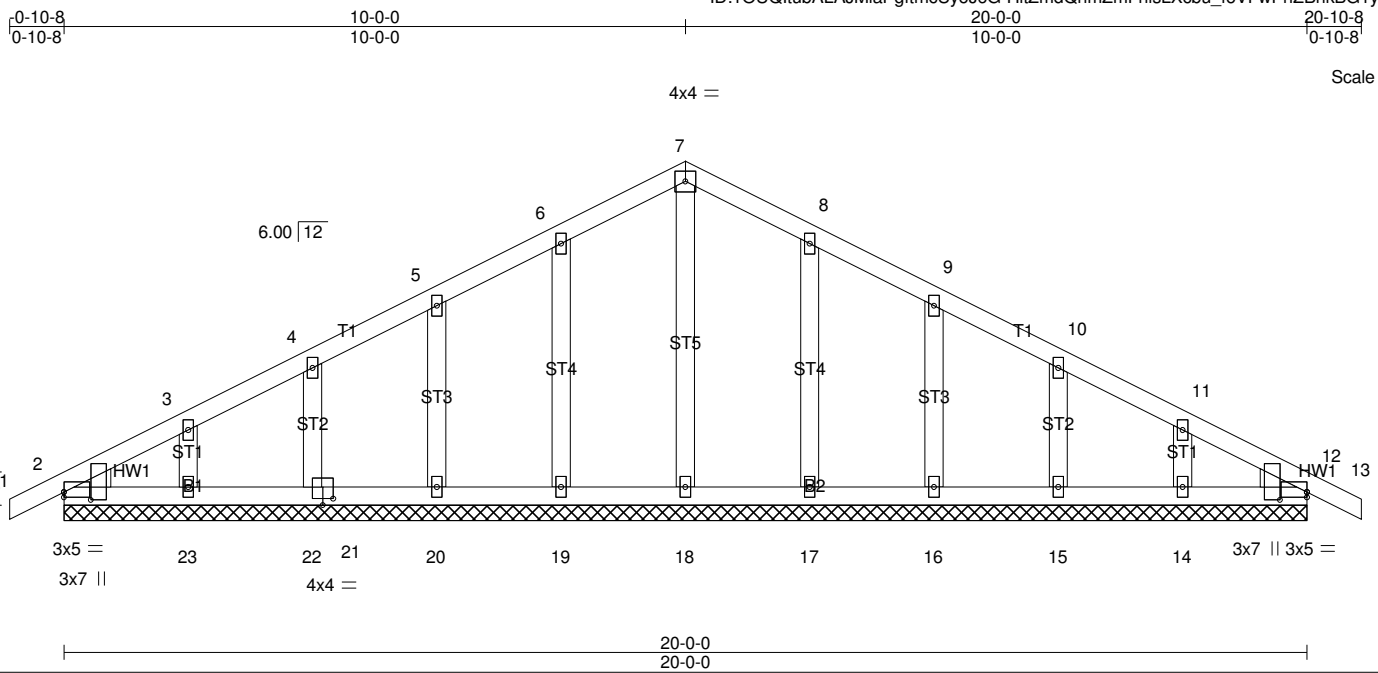


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-1-8,0-5-3], [12:0-1-8,0-5-3], [12:0-0-0,0-1-0], [21:0-2-0,0-1-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	12	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	12	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-S							Weight: 81 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF Stud
WEDGE
Left: 2x4 SPF Stud , Right: 2x4 SPF Stud

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.

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

REACTIONS. (lb/size) 2=138/20-0-0 (min. 0-2-11), 18=137/20-0-0 (min. 0-2-11), 19=166/20-0-0 (min. 0-2-11), 20=159/20-0-0 (min. 0-2-11), 22=160/20-0-0 (min. 0-2-11), 23=161/20-0-0 (min. 0-2-11), 17=166/20-0-0 (min. 0-2-11), 16=159/20-0-0 (min. 0-2-11), 15=160/20-0-0 (min. 0-2-11), 14=161/20-0-0 (min. 0-2-11), 12=138/20-0-0 (min. 0-2-11)
Max Horz 2=71(LC 14)
Max Uplift 2=-13(LC 15), 19=-59(LC 14), 20=-58(LC 14), 22=-56(LC 14), 23=-71(LC 14), 17=-58(LC 15), 16=-58(LC 15), 15=-56(LC 15), 14=-68(LC 15), 12=-2(LC 11)
Max Grav 2=146(LC 20), 18=137(LC 1), 19=215(LC 21), 20=167(LC 21), 22=160(LC 1), 23=165(LC 24), 17=215(LC 22), 16=167(LC 22), 15=160(LC 1), 14=164(LC 25), 12=146(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-97/52, 3-4=-63/46, 4-5=-55/76, 5-24=-61/118, 24-25=-53/121, 6-25=-53/124, 6-7=-86/171, 7-8=-86/171, 8-26=-53/125, 26-27=-53/121, 9-27=-61/118, 9-10=-41/77, 10-11=-41/31, 11-12=-68/34, 12-13=0/21
BOT CHORD 2-23=-31/86, 22-23=-31/86, 21-22=-31/86, 20-21=-31/86, 19-20=-31/86, 18-19=-31/86, 17-18=-31/86, 16-17=-31/86, 15-16=-31/86, 14-15=-31/86, 12-14=-31/86
WEBS 7-18=-97/0, 6-19=-175/136, 5-20=-127/94, 4-22=-120/87, 3-23=-121/121, 8-17=-175/137, 9-16=-127/94, 10-15=-120/87, 11-14=-119/121

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 20-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	JGE	Common Supported Gable	1	1	Job Reference (optional)

NOTES-

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 2, 59 lb uplift at joint 19, 58 lb uplift at joint 20, 56 lb uplift at joint 22, 71 lb uplift at joint 23, 58 lb uplift at joint 17, 58 lb uplift at joint 16, 56 lb uplift at joint 15, 68 lb uplift at joint 14 and 2 lb uplift at joint 12.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
13) 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	Barnes - Beverly A
BARNES FILE 2	JH	Jack-Open Supported Gable	1	1	Job Reference (optional)

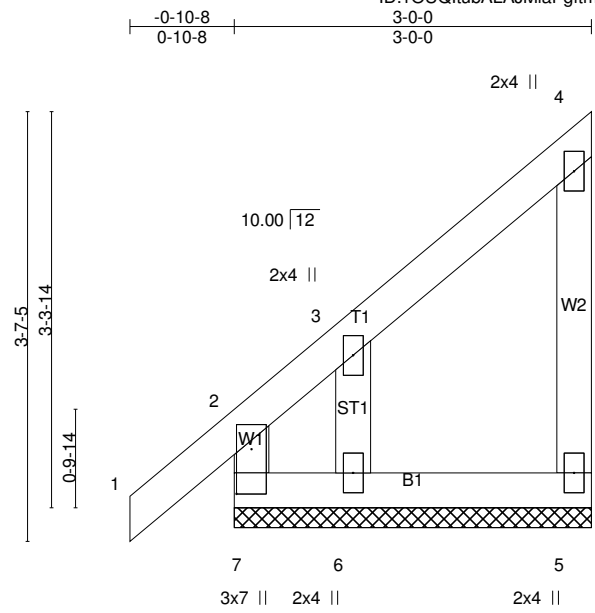


Plate Offsets (X,Y)-- [7:0-4-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	1	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-R							Weight: 14 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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.

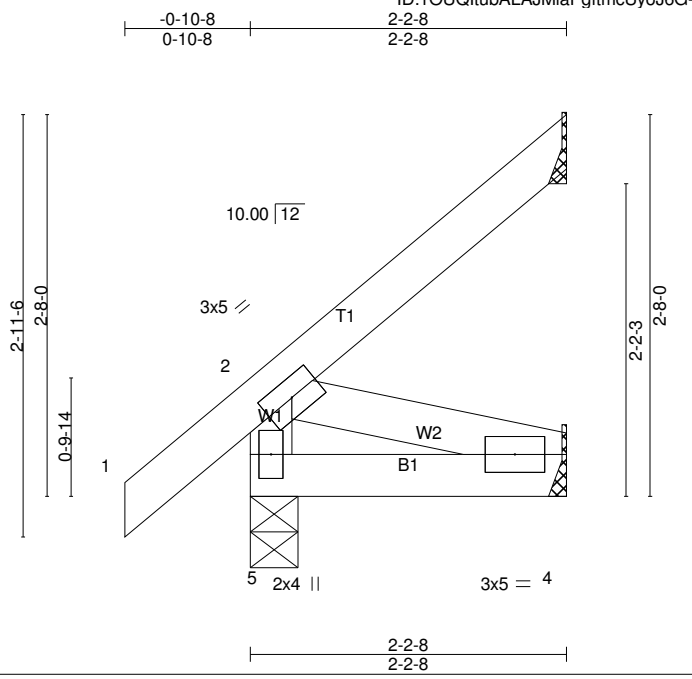
REACTIONS. (lb/size) 7=113/3-0-0 (min. 0-1-8), 5=66/3-0-0 (min. 0-1-8), 6=99/3-0-0 (min. 0-1-8)
Max Horz 7=95(LC 11)
Max Uplift7=-30(LC 8), 5=-22(LC 9), 6=-117(LC 12)
Max Grav 7=175(LC 18), 5=75(LC 20), 6=161(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-159/61, 1-2=0/65, 2-3=-160/157, 3-4=-72/69, 4-5=-82/59
BOT CHORD 6-7=-51/66, 5-6=-51/66
WEBS 3-6=-171/154

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 2-10-4 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) 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 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 30 lb uplift at joint 7, 22 lb uplift at joint 5 and 117 lb uplift at joint 6.
11) 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	Barnes - Beverly A
BARNES FILE 2	JI	Jack-Open	2	1	Job Reference (optional)



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 10 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-8 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.

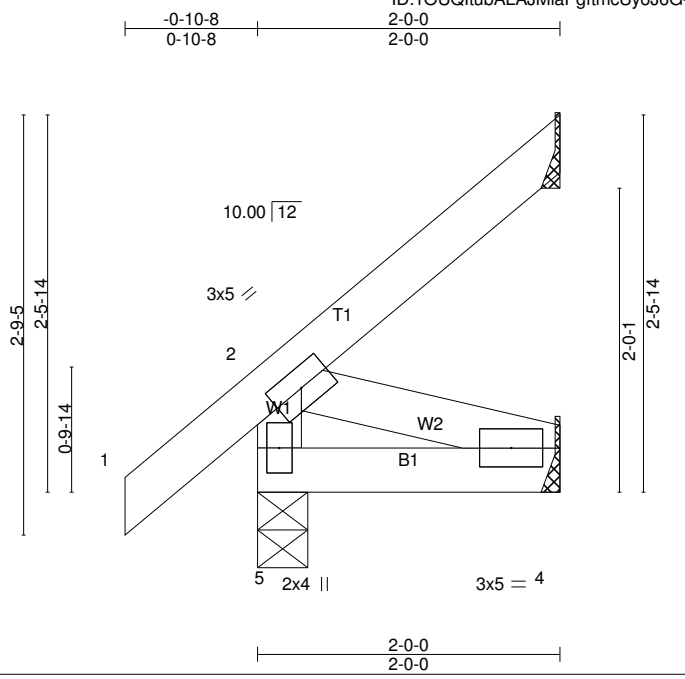
REACTIONS. (lb/size) 5=158/0-4-0 (min. 0-1-8), 3=44/Mechanical, 4=21/Mechanical
Max Horz 5=86(LC 12)
Max Uplift3=-49(LC 12), 4=-13(LC 12)
Max Grav 5=169(LC 18), 3=60(LC 20), 4=41(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-148/32, 1-2=0/65, 2-3=-48/51
BOT CHORD 4-5=-108/88
WEBS 2-4=-92/113

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3 and 13 lb uplift at joint 4.
8) 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	Barnes - Beverly A
BARNES FILE 2	JJ	Jack-Open	4	1	Job Reference (optional)



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 9 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 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.

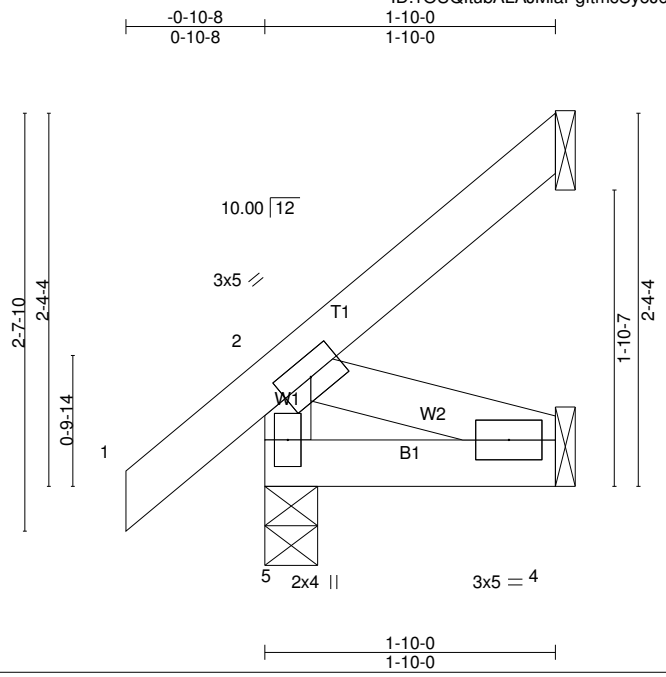
REACTIONS. (lb/size) 5=152/0-4-0 (min. 0-1-8), 4=19/Mechanical, 3=38/Mechanical
Max Horz 5=81(LC 12)
Max Uplift4=-16(LC 12), 3=-43(LC 12)
Max Grav 5=167(LC 18), 4=37(LC 3), 3=53(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-149/32, 1-2=0/65, 2-3=-46/48
BOT CHORD 4-5=-103/84
WEBS 2-4=-88/108

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 4 and 43 lb uplift at joint 3.
8) 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	Barnes - Beverly A
BARNES FILE 2	JK	Jack-Open	3	1	Job Reference (optional)



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 9 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-0 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) 5=147/0-4-0 (min. 0-1-8), 3=32/Mechanical, 4=17/Mechanical
Max Horz 5=76(LC 12)
Max Uplift3=-38(LC 12), 4=-17(LC 12)
Max Grav 5=167(LC 18), 3=45(LC 20), 4=34(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-150/32, 1-2=0/65, 2-3=-44/44
BOT CHORD 4-5=-97/79
WEBS 2-4=-84/103

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 3 and 17 lb uplift at joint 4.
8) 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

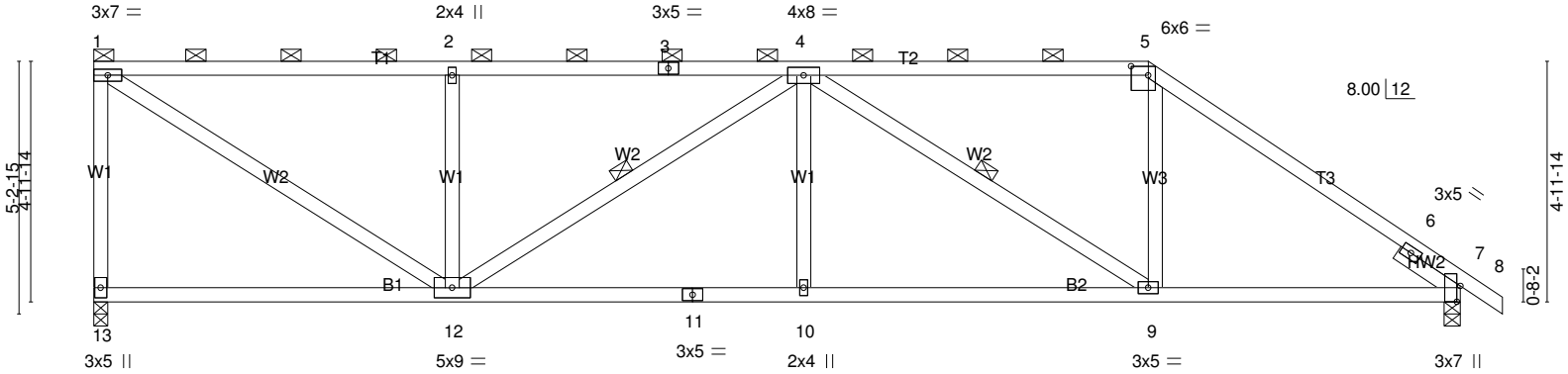
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	K	Roof Special	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:00 2021 Page 1
ID:1OUQItubALAJMlaPgftmcUyoJ6G-D8_JBJR1IA0y130jf1dM34thckx91yc1eaW3_cy9PjP

7-5-3	14-8-11	21-10-6	28-4-0	29-2-8
7-5-3	7-3-7	7-1-11	6-5-10	0-10-8

Scale = 1:47.3



7-5-3	14-8-11	21-10-6	28-4-0
7-5-3	7-3-7	7-1-11	6-5-10

Plate Offsets (X,Y)-- [5:0-4-4,0-2-4], [7:0-3-15,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.09	9-10	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.21	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 118 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 1-5.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.
WEBS 1 Row at midpt 4-12, 4-9

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

REACTIONS. (lb/size) 13=1127/0-3-8 (min. 0-1-12), 7=1181/0-4-0 (min. 0-1-14)
Max Horz 13=-146(LC 10)
Max Uplift13=-267(LC 8), 7=-182(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-1060/302, 1-18=-1377/335, 2-18=-1377/335, 2-3=-1377/335, 3-4=-1377/335, 4-19=-1216/312, 5-19=-1216/312, 5-20=-1483/313, 20-21=-1496/299, 6-21=-1578/293, 6-7=-585/48, 7-8=0/49
BOT CHORD 12-13=-149/168, 11-12=-346/1762, 10-11=-346/1762, 9-10=-346/1762, 7-9=-164/1230
WEBS 1-12=-380/1604, 2-12=-468/242, 4-12=-459/113, 4-10=0/292, 4-9=-726/232, 5-9=-29/520

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 21-10-6, Exterior(2) 21-10-6 to 24-10-6, Interior(1) 24-10-6 to 29-2-8 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 13 and 182 lb uplift at joint 7.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	KH	Hip Girder	1	1	Job Reference (optional)

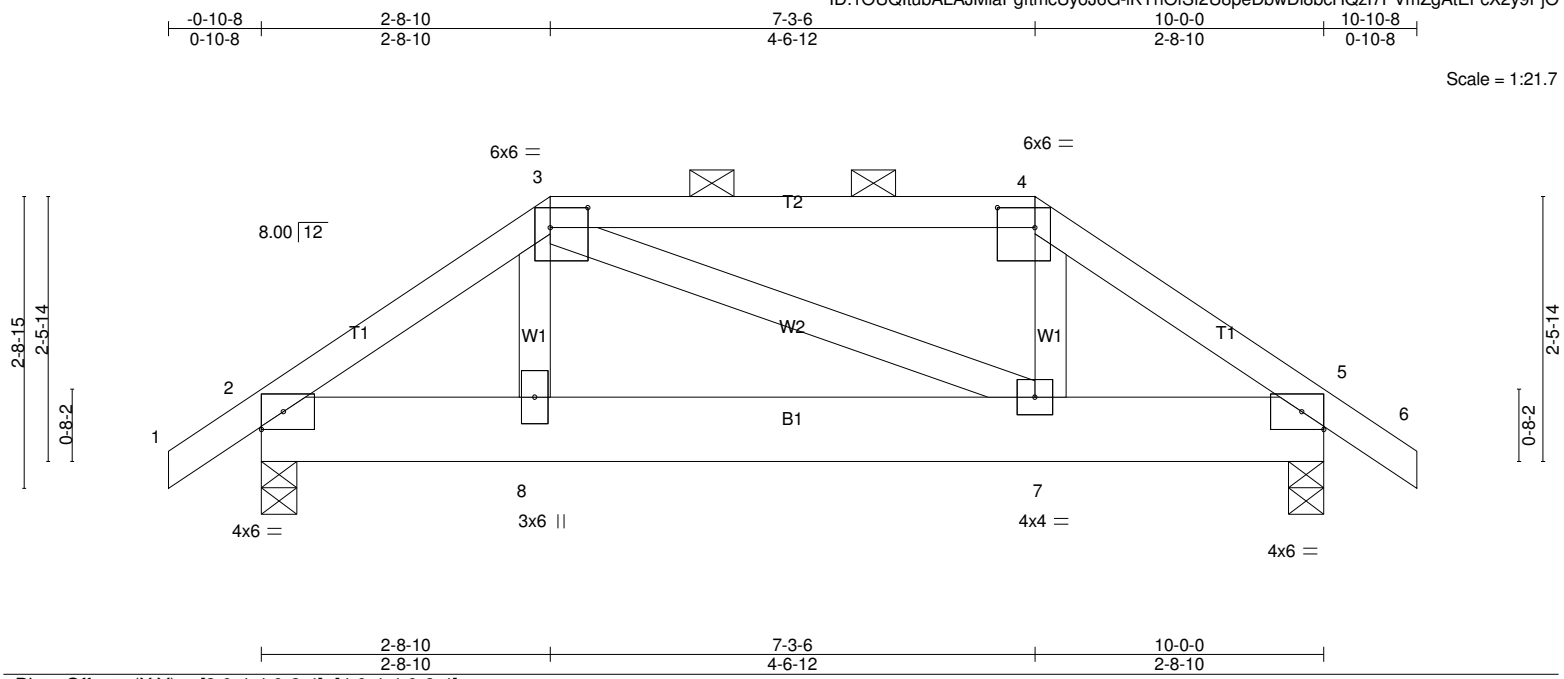


Plate Offsets (X,Y)-- [3:0-4-4,0-2-4], [4:0-4-4,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.01	7-8	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 55 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
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=498/0-4-0 (min. 0-1-8), 5=498/0-4-0 (min. 0-1-8)
Max Horz 2=47(LC 11)
Max Uplift2=-201(LC 12), 5=-214(LC 13)
Max Grav 2=523(LC 38), 5=533(LC 39)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-15=-610/301, 3-15=-551/308, 3-16=-489/287, 16-17=-489/287, 17-18=-489/287, 4-18=-489/287, 4-19=-553/312, 5-19=-612/306, 5-6=0/49
BOT CHORD 2-20=-214/509, 8-20=-214/509, 8-21=-212/502, 21-22=-212/502, 7-22=-212/502, 7-23=-204/504, 5-23=-204/504
WEBS 3-8=-33/156, 3-7=-46/54, 4-7=-29/152

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-8-10, Exterior(2) 2-8-10 to 6-11-9, Interior(1) 6-11-9 to 7-3-6, Exterior(2) 7-3-6 to 10-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 2 and 214 lb uplift at joint 5.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 75 lb up at 2-8-10, 80 lb down and 68 lb up at 4-9-6, and 77 lb down and 72 lb up at 6-9-6, and 75 lb down and 75 lb up at 7-3-6 on top chord, and 46 lb down and 49 lb up at 2-0-12, 23 lb down and 27 lb up at 2-9-6, 23 lb down and 27 lb up at 4-9-6, 23 lb down and 27 lb up at 6-9-6, and 23 lb down and 27 lb up at 7-2-10, and 46 lb down and 49 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) 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

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	KH	Hip Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-4=-60, 4-6=-60, 9-12=-20
   Concentrated Loads (lb)
      Vert: 8=-1(F) 7=-1(F) 20=-44(F) 21=-1(F) 22=-1(F) 23=-44(F)

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	L	Common	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:01 2021 Page 1
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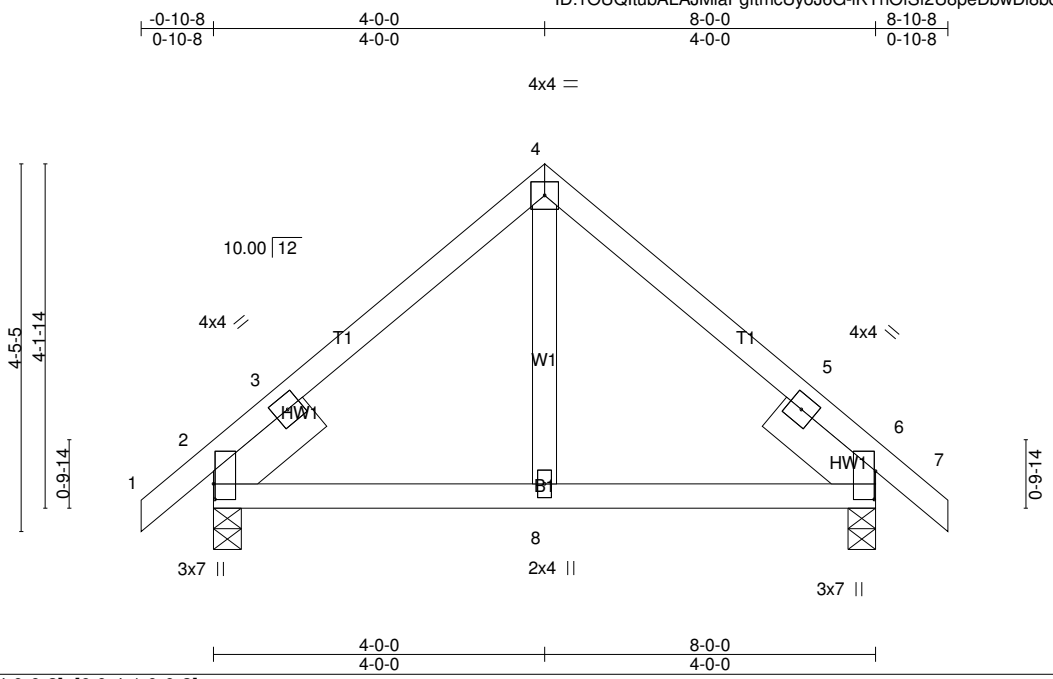

Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [6:0-4-1,0-0-3]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	8-11	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	8-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MP							Weight: 33 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Left 2x6 SPF 1650F 1.5E -ð 1-6-0, Right 2x6 SPF 1650F 1.5E -ð 1-6-0

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

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

REACTIONS. (lb/size) 2=372/0-4-0 (min. 0-1-8), 6=373/0-4-0 (min. 0-1-8)
Max Horz 2=79(LC 11)
Max Uplift2=-66(LC 12), 6=-66(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-126/0, 3-17=-300/94, 4-17=-257/103, 4-18=-257/103, 5-18=-300/94, 5-6=-126/0, 6-7=0/56
BOT CHORD 2-8=0/194, 6-8=0/194
WEBS 4-8=-28/170

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 8-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 66 lb uplift at joint 6.
7) 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	Barnes - Beverly A
BARNES FILE 2	LGE	Common Supported Gable	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:01 2021 Page 1
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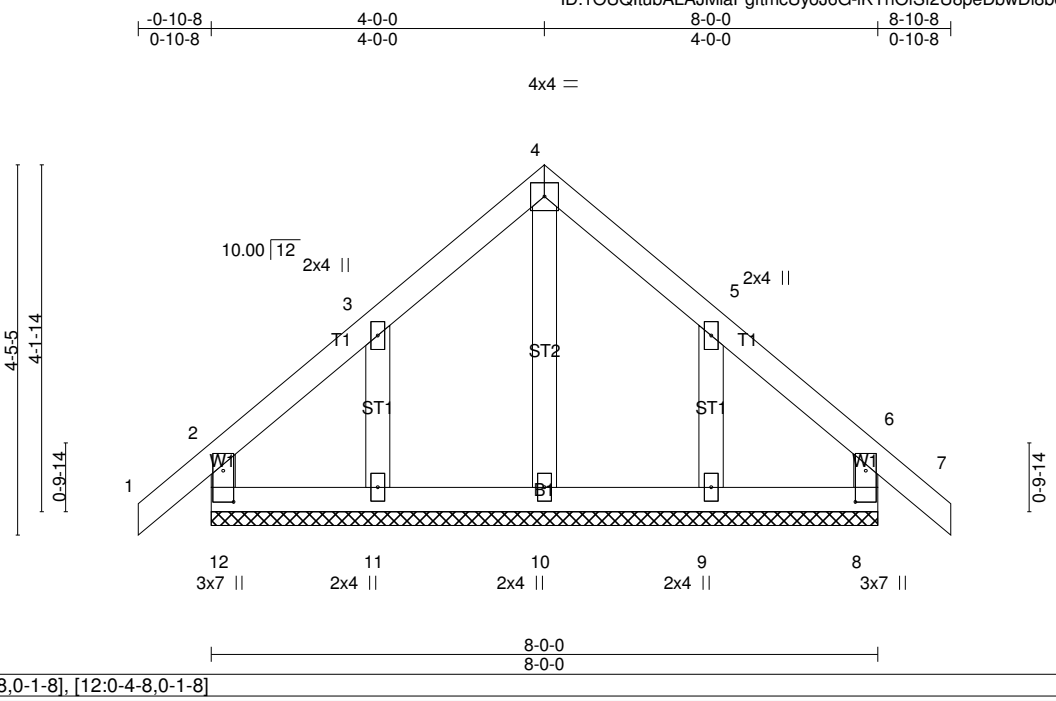

Plate Offsets (X,Y)-- [8:0-4-8,0-1-8], [12:0-4-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	7	n/r	120	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	6	n/r	90		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-R							Weight: 33 lb	FT = 20%
BCDL	10.0											

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

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.

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

REACTIONS. (lb/size) 12=137/8-0-0 (min. 0-1-8), 8=137/8-0-0 (min. 0-1-8), 10=155/8-0-0 (min. 0-1-8), 11=155/8-0-0 (min. 0-1-8), 9=155/8-0-0 (min. 0-1-8)
Max Horz 12=96(LC 11)
Max Uplift 12=-44(LC 13), 8=-41(LC 12), 11=-112(LC 12), 9=-110(LC 13)
Max Grav 12=141(LC 21), 8=137(LC 1), 10=155(LC 1), 11=208(LC 20), 9=205(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-12=-120/95, 1-2=0/65, 2-3=-71/61, 3-4=-126/130, 4-5=-125/131, 5-6=-62/53, 6-7=0/65, 6-8=-120/93
BOT CHORD 11-12=-47/54, 10-11=-47/54, 9-10=-47/54, 8-9=-47/54
WEBS 4-10=-115/42, 3-11=-167/127, 5-9=-169/127

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 4-0-0, Corner(3) 4-0-0 to 7-0-0, Exterior(2) 7-0-0 to 8-10-8 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; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 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 44 lb uplift at joint 12, 41 lb uplift at joint 8, 112 lb uplift at joint 11 and 110 lb uplift at joint 9.
11) 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	Barnes - Beverly A
BARNES FILE 2	TA	Piggyback Base	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:02 2021 Page 1
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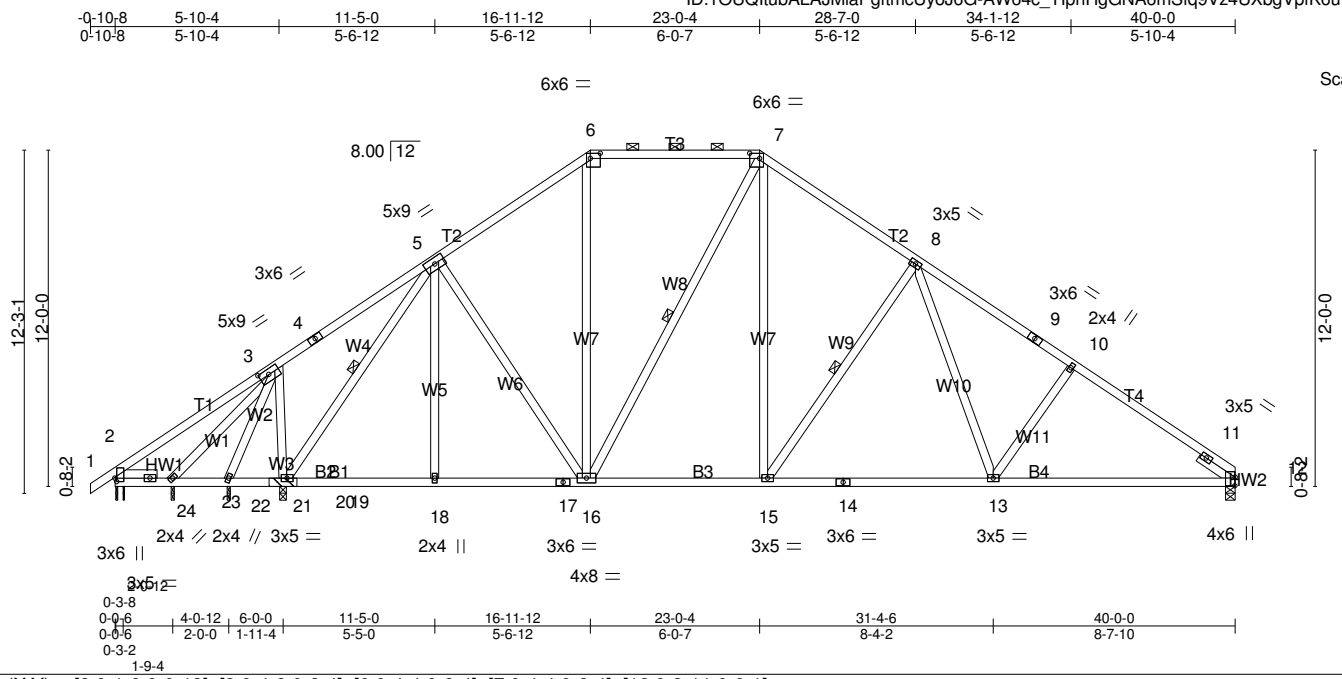

Plate Offsets (X,Y)-- [2:0-1-9,0-0-13], [3:0-4-2,0-2-4], [6:0-4-4,0-2-4], [7:0-4-4,0-2-4], [12:0-3-11,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.20	13-15	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.35	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 216 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except 2-0-0 oc purlins (5-5-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 7-16, 8-15

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

REACTIONS. (lb/size) 2=111/0-0-12 (min. 0-1-8), 2=111/0-0-12 (min. 0-1-8), 20=1673/(0-3-0 + bearing block) (req. 0-3-1), 12=1340/0-4-0 (min. 0-2-5), 23=92/0-1-8 (min. 0-1-8), 22=37/0-1-8 (min. 0-1-8)
Max Horz 2=227(LC 9)
Max Uplift 2=-17(LC 8), 20=-356(LC 12), 12=-235(LC 13), 23=-11(LC 12), 22=-30(LC 19)
Max Grav 2=120(LC 18), 2=111(LC 1), 20=1953(LC 20), 12=1469(LC 21), 23=100(LC 3), 22=37(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-33=-76/115, 3-33=-55/193, 3-4=-33/130, 4-5=-18/280, 5-6=-1229/361, 6-34=-946/353, 34-35=-946/353, 7-35=-946/353, 7-8=-1450/395, 8-9=-1928/410, 9-10=-1999/386, 10-36=-2017/386, 11-36=-2133/373, 11-12=-864/0
BOT CHORD 2-24=-299/388, 23-24=-202/192, 22-23=-230/196, 21-22=-219/192, 20-21=-219/192, 19-20=-84/887, 19-37=-84/887, 18-37=-84/887, 18-38=-84/887, 17-38=-84/887, 16-17=-84/887, 16-39=0/1063, 15-39=0/1063, 14-15=-123/1362, 14-40=-123/1362, 13-40=-123/1362, 12-13=-232/1679
WEBS 3-23=-88/133, 3-22=-64/42, 3-20=-377/248, 5-20=-1724/251, 5-18=0/274, 5-16=-44/220, 6-16=-70/391, 7-16=-427/113, 7-15=-154/854, 8-15=-667/296, 8-13=-84/486, 10-13=-285/216

NOTES-
1) 2x4 SPF No.2 bearing block 12" long at jt. 20 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 16-11-12, Exterior(2) 16-11-12 to 22-7-11, Interior(1) 22-7-11 to 23-0-4, Exterior(2) 23-0-4 to 28-7-0, Interior(1) 28-7-0 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 2, 23, 22.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 356 lb uplift at joint 20, 235 lb uplift at joint 12, 11 lb uplift at joint 23 and 30 lb uplift at joint 22.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	TA1	Piggyback Base	5	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:03 2021 Page 1
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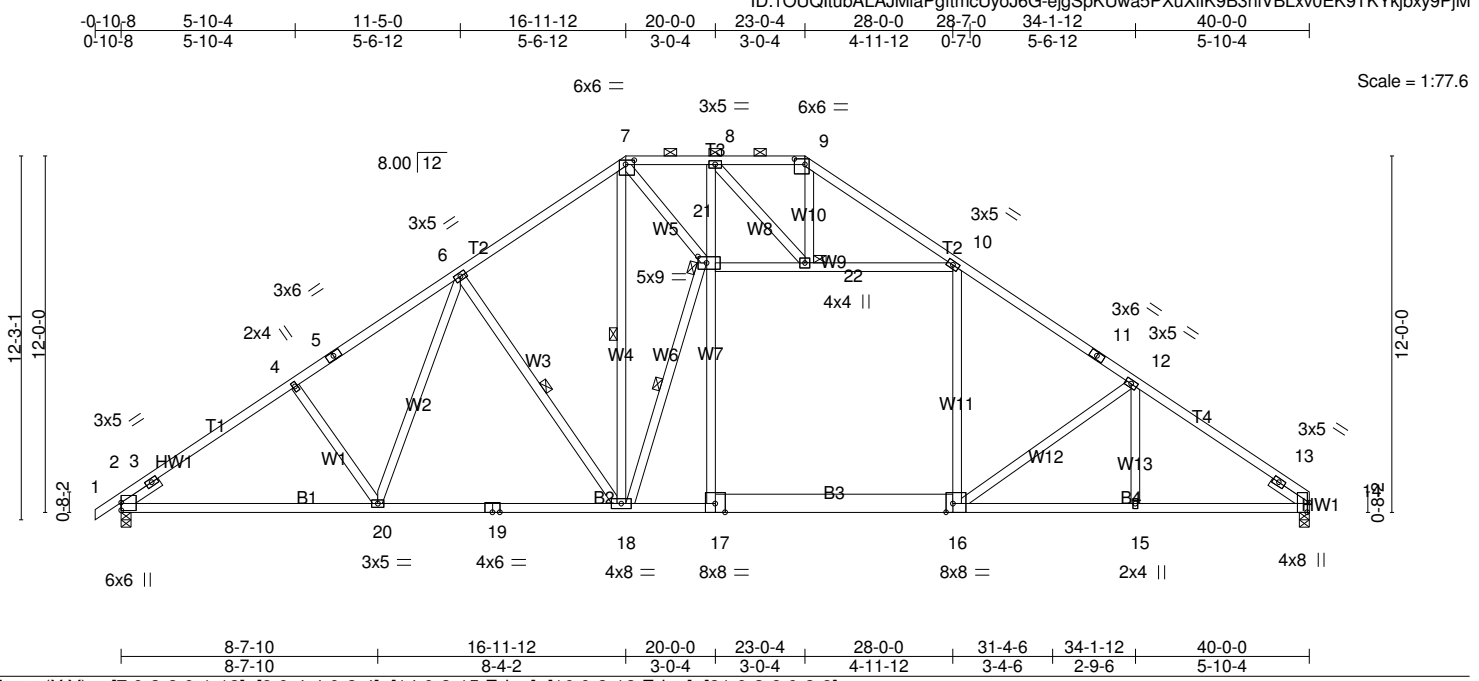


Plate Offsets (X,Y)-- [7:0-3-8,0-1-12], [9:0-4-4,0-2-4], [14:0-3-15,Edge], [16:0-2-12,Edge], [21:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.25	18-20	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.44	18-20	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.11	14	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 225 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B3: 2x8 SP No.1, B2: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF Stud
SLIDER Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.
WEBS 1 Row at midpt 6-18, 7-18, 18-21
JOINTS 1 Brace at Jt(s): 21, 22

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

REACTIONS. (lb/size) 2=1653/0-4-0 (min. 0-2-13), 14=1599/0-4-0 (min. 0-2-11)
Max Horz 2=227(LC 9)
Max Uplift2=-282(LC 12), 14=-267(LC 13)
Max Grav 2=1776(LC 20), 14=1727(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-936/0, 3-31=-2562/447, 4-31=-2481/469, 4-5=-2428/470, 5-6=-2359/493, 6-7=-1898/488, 7-32=-937/315, 8-32=-937/315, 8-33=-705/243, 9-33=-705/243, 9-10=-947/259, 10-34=-2090/467, 11-34=-2178/465, 11-12=-2256/442, 12-35=-2445/462, 13-35=-2564/449, 13-14=-983/67
BOT CHORD 2-20=-401/2190, 20-36=-256/1894, 19-36=-256/1894, 19-37=-256/1894, 18-37=-256/1894, 17-18=-179/1768, 16-17=-179/1777, 15-16=-297/2034, 14-15=-297/2034
WEBS 4-20=-268/213, 6-20=-79/462, 6-18=-661/294, 7-18=-555/1838, 18-21=-1309/556, 9-22=-99/301, 12-15=0/192, 17-21=0/224, 8-21=-49/207, 10-16=-8/477, 12-16=-390/206, 21-22=-1258/515, 10-22=-1322/422, 8-22=-325/154, 7-21=-1315/544

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 16-11-12, Exterior(2) 16-11-12 to 22-7-11, Interior(1) 22-7-11 to 23-0-4, Exterior(2) 23-0-4 to 28-8-2, Interior(1) 28-8-2 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 282 lb uplift at joint 2 and 267 lb uplift at joint 14.
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.

LOAD CASE(S) Standard

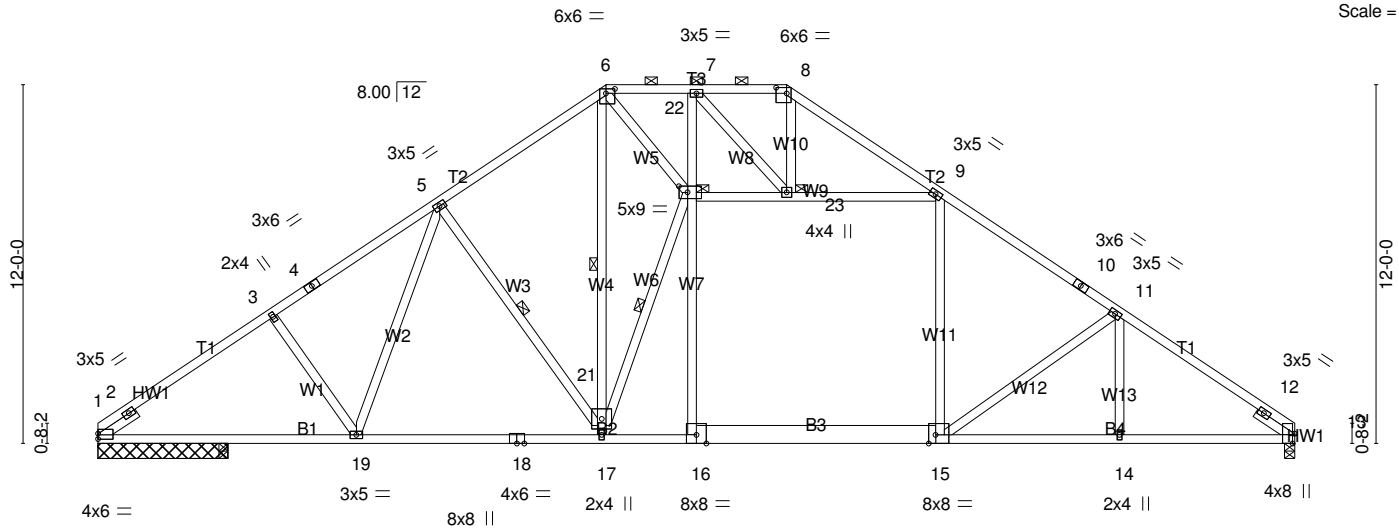
Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	TA2	Piggyback Base	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:03 2021 Page 1
ID:1OUQltubALAJMlaPgftmcUyoJ6G-ejgSpKUwa5PXuXIIK9B3hiVAlxv_EGrTKYkjbxy9PjM

5-10-4	11-5-0	16-11-12	20-0-0	23-0-4	28-0-0	28-7-0	34-1-12	40-0-0
5-10-4	5-6-12	5-6-12	3-0-4	3-0-4	4-11-12	0-7-0	5-6-12	5-10-4

Scale = 1:77.0



4-0-8	8-7-10	16-11-12	20-0-0	23-0-4	28-0-0	31-4-6	34-1-12	40-0-0
4-0-8	4-7-2	8-4-2	3-0-4	3-0-4	4-11-12	3-4-6	2-9-6	5-10-4

Plate Offsets (X,Y)-- [1:0-0-0,0-2-3], [6:0-3-8,0-1-12], [8:0-4-4,0-2-4], [13:0-3-15,Edge], [15:0-2-12,Edge], [22:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.24	17-19	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.45	17-19	>953	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.11	13	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 223 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except* B3: 2x8 SP No.1
WEBS	2x4 SPF Stud
SLIDER	Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 9-1-12 oc bracing.
WEBS	1 Row at midpt 5-21, 6-17, 21-22
JOINTS	1 Brace at Jt(s): 22, 23

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

REACTIONS. (lb/size) 1=1538/4-4-0 (min. 0-2-10), 13=1593/0-4-0 (min. 0-2-11), 20=69/0-3-8 (min. 0-1-8)
Max Horz 1=-220(LC 8)
Max Uplift1=-262(LC 12), 13=-271(LC 13), 20=-5(LC 12)
Max Grav 1=1675(LC 19), 13=1725(LC 20), 20=120(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-809/55, 2-32=-2517/463, 3-32=-2433/485, 3-4=-2383/486, 4-5=-2315/510, 5-6=-1856/483, 6-33=-921/299, 7-33=-921/299, 7-34=-687/243, 8-34=-687/243, 8-9=-925/249, 9-35=-2086/471, 10-35=-2173/468, 10-11=-2252/446, 11-36=-2443/464, 12-36=-2562/451, 12-13=-982/69
BOT CHORD	1-20=-399/2149, 19-20=-399/2149, 19-37=-252/1869, 18-37=-252/1869, 17-18=-252/1869, 16-17=-183/1765, 15-16=-183/1772, 14-15=-298/2032, 13-14=-298/2032
WEBS	3-19=-250/215, 5-19=-76/425, 5-21=-640/290, 17-21=0/276, 6-21=-520/1762, 21-22=-1256/522, 8-23=-98/291, 11-14=0/193, 16-22=0/221, 7-22=-37/193, 9-15=-7/479, 11-15=-388/207, 22-23=-1235/497, 9-23=-1321/418, 6-22=-1231/496, 7-23=-336/143

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 16-11-12, Exterior(2) 16-11-12 to 22-7-11, Interior(1) 22-7-11 to 23-0-4, Exterior(2) 23-0-4 to 28-8-2, Interior(1) 28-8-2 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 1, 271 lb uplift at joint 13 and 5 lb uplift at joint 20.
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	Barnes - Beverly A
BARNES FILE 2	TA3	Piggyback Base	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:04 2021 Page 1
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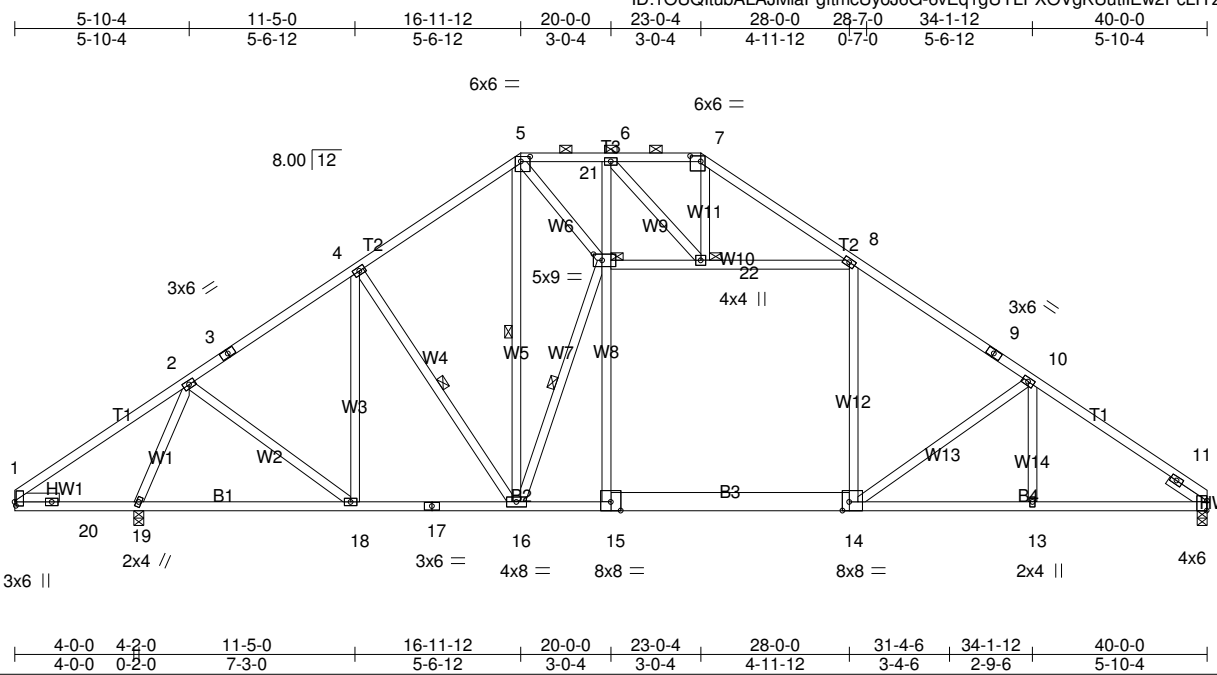

Plate Offsets (X,Y)-- [1:0-1-9,0-0-9], [5:0-3-12,0-2-0], [7:0-4-4,0-2-4], [12:0-3-15,Edge], [14:0-2-12,Edge], [21:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.14	13-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.27	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 231 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except*
	B3: 2x8 SP No.1
WEBS	2x4 SPF Stud
SLIDER	Left 2x4 SPF Stud -ð 1-6-0, Right 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-19.
WEBS	1 Row at midpt 4-16, 5-16, 16-21
JOINTS	1 Brace at Jt(s): 21, 22

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

REACTIONS. (lb/size) 19=1783/0-4-0 (min. 0-2-14), 12=1417/0-4-0 (min. 0-2-6)
Max Horz 19=220(LC 11)
Max Uplift19=-298(LC 12), 12=-246(LC 13)
Max Grav 19=1843(LC 19), 12=1532(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-31=-139/233, 2-31=-117/333, 2-3=-1419/278, 3-4=-1280/301, 4-5=-1391/398, 5-32=-490/293, 6-32=-490/293, 6-33=-426/202, 7-33=-426/202, 7-8=-600/246, 8-34=-1753/401, 9-34=-1839/399, 9-10=-1919/376, 10-35=-2127/399, 11-35=-2246/386, 11-12=-860/42
BOT CHORD	1-20=-262/433, 19-20=-203/175, 18-19=-198/644, 17-18=-135/1195, 16-17=-135/1195, 15-16=-123/1473, 14-15=-122/1484, 13-14=-246/1773, 12-13=-246/1773
WEBS	2-19=-1791/447, 2-18=-55/760, 4-18=-297/129, 4-16=-186/181, 5-16=-531/1588, 16-21=-1618/568, 7-22=-92/115, 10-13=0/204, 15-21=0/306, 6-21=-188/197, 8-14=-11/480, 10-14=-411/208, 21-22=-1390/527, 8-22=-1317/426, 5-21=-1348/548, 6-22=-157/167

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 16-11-12, Exterior(2) 16-11-12 to 22-7-11, Interior(1) 22-7-11 to 23-0-4, Exterior(2) 23-0-4 to 28-8-2, Interior(1) 28-8-2 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x5 MT20 unless otherwise indicated.
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 298 lb uplift at joint 19 and 246 lb uplift at joint 12.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	TA4	Piggyback Base	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:04 2021 Page 1
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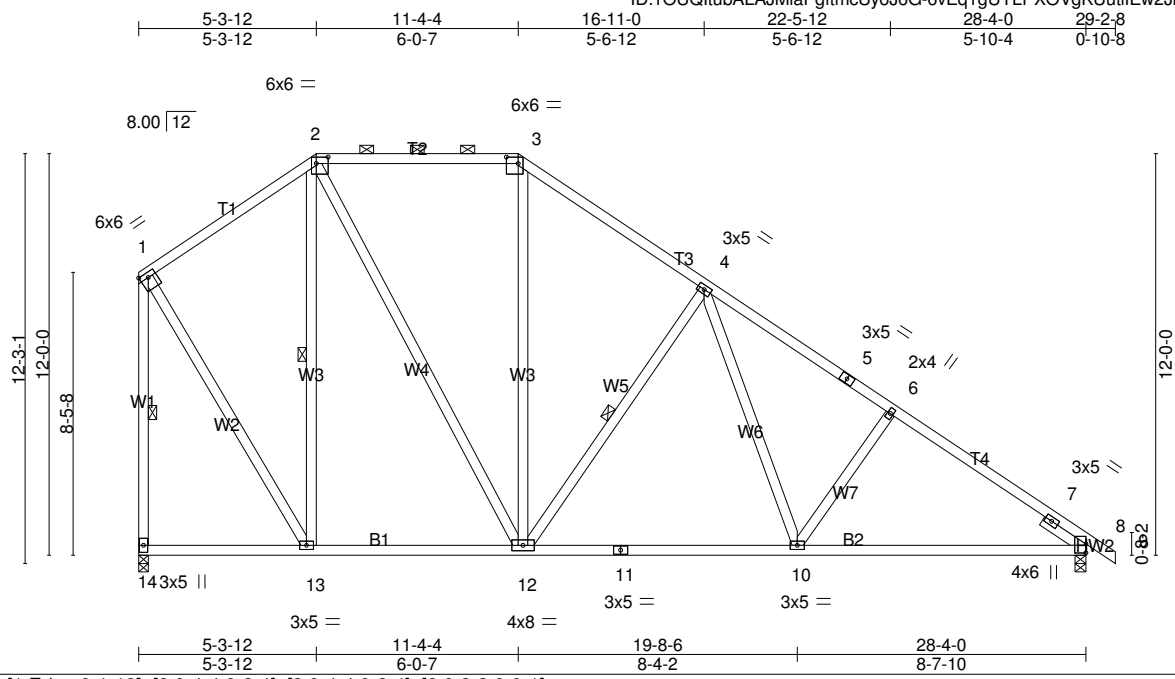

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-4-4,0-2-4], [3:0-4-4,0-2-4], [8:0-3-3,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.17	10-12	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.29	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 159 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-13, 4-12, 1-14

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

REACTIONS. (lb/size) 14=1127/0-3-8 (min. 0-2-0), 8=1181/0-4-0 (min. 0-2-0)
Max Horz 14=-318(LC 10)
Max Uplift 14=-182(LC 13), 8=-217(LC 13)
Max Grav 14=1276(LC 21), 8=1263(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=-674/261, 19-20=-601/272, 2-20=-590/283, 2-21=-783/320, 21-22=-783/320, 3-22=-783/320, 3-23=-917/332, 4-23=-1004/308, 4-5=-1430/343, 5-6=-1571/319, 6-24=-1640/318, 7-24=-1706/296, 7-8=-778/0, 8-9=0/49, 1-14=-1185/289
BOT CHORD 14-25=-290/295, 13-25=-290/295, 13-26=-61/536, 12-26=-61/536, 11-12=-42/1041, 11-27=-42/1041, 10-27=-42/1041, 8-10=-154/1327
WEBS 2-13=-552/214, 2-12=-149/656, 3-12=-23/260, 4-12=-675/297, 4-10=-87/508, 6-10=-300/218, 1-13=-162/876

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-3-12, Exterior(2) 5-3-12 to 9-6-11, Interior(1) 9-6-11 to 11-4-4, Exterior(2) 11-4-4 to 15-7-2, Interior(1) 15-7-2 to 29-2-8 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 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 182 lb uplift at joint 14 and 217 lb uplift at joint 8.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	TA5	Piggyback Base	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:05 2021 Page 1
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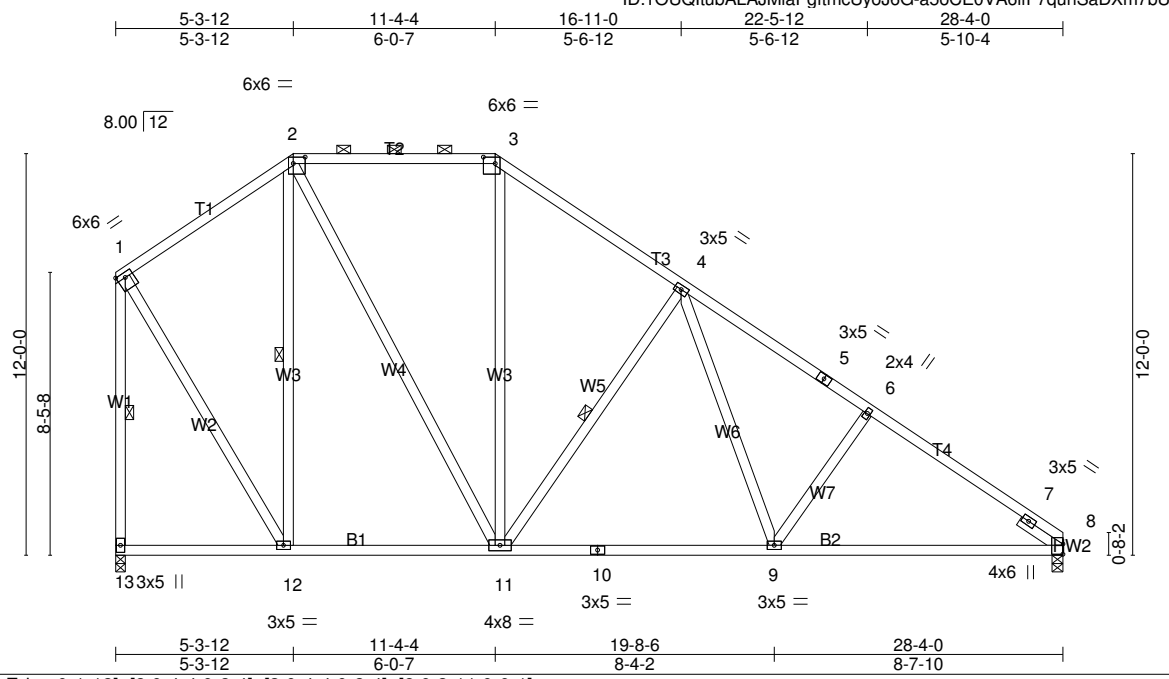

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-4-4,0-2-4], [3:0-4-4,0-2-4], [8:0-3-11,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.17	9-11	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.29	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 158 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud
SLIDER Right 2x4 SPF Stud -ð 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12, 4-11, 1-13

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

REACTIONS. (lb/size) 13=1128/0-3-8 (min. 0-2-0), 8=1128/0-4-0 (min. 0-1-14)
Max Horz 13=-310(LC 10)
Max Uplift 13=-182(LC 13), 8=-201(LC 13)
Max Grav 13=1276(LC 20), 8=1214(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-674/261, 18-19=-601/272, 2-19=-590/283, 2-20=-783/321, 20-21=-783/321, 3-21=-783/321, 3-22=-918/333, 4-22=-1004/309, 4-5=-1434/348, 5-6=-1575/324, 6-23=-1644/323, 7-23=-1710/311, 7-8=-795/0, 1-13=-1185/289
BOT CHORD 13-24=-279/288, 12-24=-279/288, 12-25=-66/525, 11-25=-66/525, 10-11=-67/1037, 10-26=-67/1037, 9-26=-67/1037, 8-9=-183/1335
WEBS 2-12=-552/214, 2-11=-149/657, 3-11=-24/260, 4-11=-677/297, 4-9=-88/512, 6-9=-301/219, 1-12=-162/876

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-3-12, Exterior(2) 5-3-12 to 9-6-11, Interior(1) 9-6-11 to 11-4-4, Exterior(2) 11-4-4 to 15-7-2, Interior(1) 15-7-2 to 28-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 13 and 201 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	Barnes - Beverly A
BARNES FILE 2	TA6	Piggyback Base	1	1	Job Reference (optional)

84 Lumber 0280, Coal Center, PA 15423, Marty Stiffler

Run: 8.500 s Apr 2 2021 Print: 8.500 s Apr 2 2021 MiTek Industries, Inc. Mon Dec 13 11:07:05 2021 Page 1
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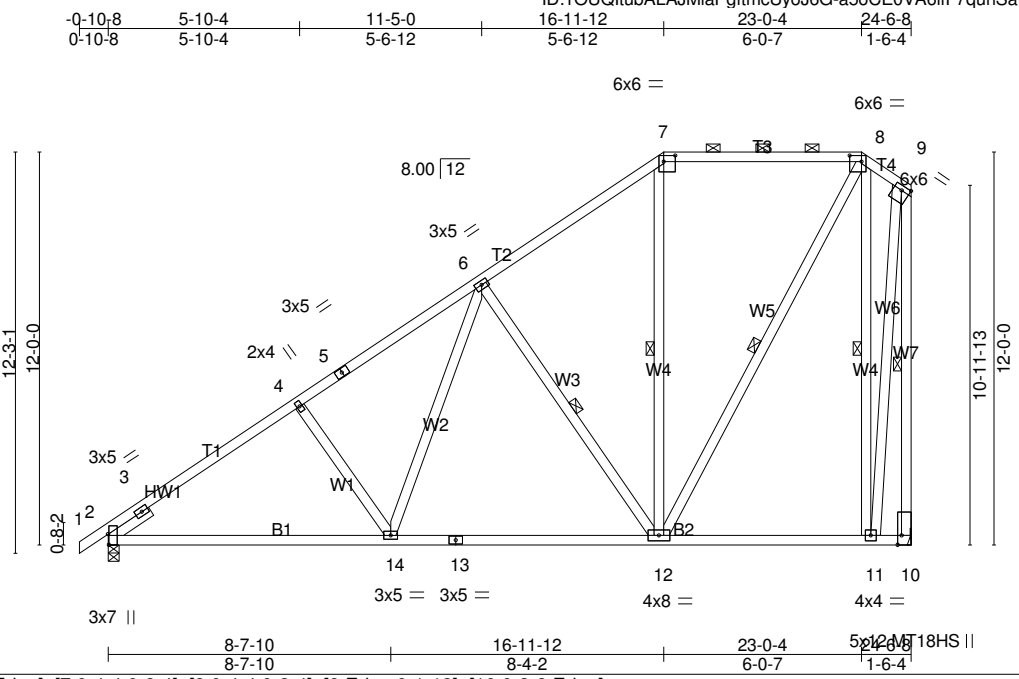

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [7:0-4-4,0-2-4], [8:0-4-4,0-2-4], [9:Edge,0-1-12], [10:0-3-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.18	12-14	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.28	12-14	>999	180	MT18HS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 158 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF Stud *Except* W7: 2x4 SP DSS
SLIDER	Left 2x4 SPF Stud -ð 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-7 oc bracing: 2-14.
WEBS	1 Row at midpt 6-12, 7-12, 8-12, 8-11, 9-10

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

REACTIONS. (lb/size) 2=1029/0-4-0 (min. 0-1-12), 10=975/Mechanical
Max Horz 2=344(LC 11)
Max Uplift2=-188(LC 12), 10=-189(LC 12)
Max Grav 2=1097(LC 20), 10=1105(LC 20)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/49, 2-3=-727/0, 3-19=-1429/247, 4-19=-1367/269, 4-5=-1294/270, 5-6=-1173/294, 6-20=-741/257, 7-20=-656/280, 7-21=-578/279, 21-22=-578/279, 8-22=-578/279, 8-9=-383/318, 9-10=-1130/345
BOT CHORD	2-14=-423/1260, 14-23=-305/914, 13-23=-305/914, 13-24=-305/914, 12-24=-305/914, 12-25=-134/180, 11-25=-134/180, 10-11=-169/186
WEBS	4-14=-313/220, 6-14=-90/525, 6-12=-680/297, 7-12=-35/144, 8-12=-238/874, 8-11=-843/357, 9-11=-242/1023

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-11-12, Exterior(2) 16-11-12 to 21-2-11, Interior(1) 21-2-11 to 23-0-4, Exterior(2) 23-0-4 to 24-4-12 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) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 189 lb uplift at joint 10.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Barnes - Beverly A
BARNES FILE 2	TB	Piggyback Base Girder	1	2	Job Reference (optional)

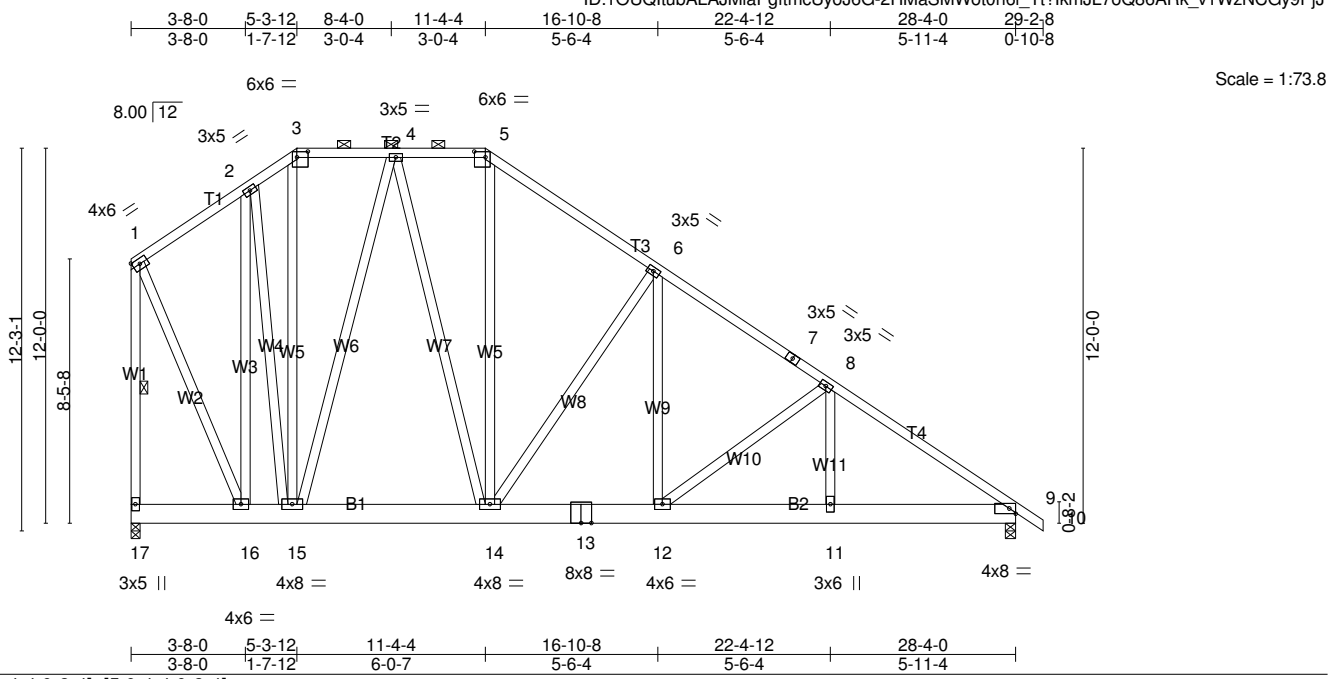

Plate Offsets (X,Y)-- [3:0-4-4,0-2-4], [5:0-4-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.03	12	>999	240	MT20	197/144
(Roof Snow=20.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.06	12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							Weight: 499 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x4 SPF Stud

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.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-17

REACTIONS. (lb/size) 17=2649/0-3-8 (min. 0-2-1), 9=1398/0-4-0 (min. 0-1-8)
Max Horz 17=-313(LC 10)
Max Uplift17=-722(LC 13), 9=-295(LC 13)
Max Grav 17=2655(LC 2), 9=1438(LC 39)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-1087/449, 21-22=-1031/459, 2-22=-1004/463, 2-3=-1110/504, 3-23=-904/435, 4-23=-904/435, 4-24=-1062/431, 5-24=-1062/431, 5-25=-1257/469, 6-25=-1343/445, 6-7=-1588/454, 7-8=-1726/430, 8-26=-1979/436, 9-26=-2056/413, 9-10=0/49, 1-17=-2526/778
BOT CHORD 16-17=-294/295, 15-16=-238/893, 15-27=-178/988, 27-28=-178/988, 14-28=-178/988, 13-14=-146/1335, 12-13=-146/1335, 11-12=-252/1612, 9-11=-252/1612
WEBS 3-15=-207/486, 4-15=-721/358, 4-14=-283/614, 5-14=-138/490, 6-14=-694/279, 6-12=-47/403, 8-12=-432/205, 8-11=0/194, 2-16=-637/298, 1-16=-606/2054, 2-15=-177/436

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 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 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 Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-3-12, Exterior(2) 5-3-12 to 9-6-11, Interior(1) 9-6-11 to 11-4-4, Exterior(2) 11-4-4 to 15-7-2, Interior(1) 15-7-2 to 29-2-8 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
4) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Fully Exp.; Ct=1.10
5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 722 lb uplift at joint 17 and 295 lb uplift at joint 9.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1780 lb down and 626 lb up at 3-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-5=-60, 5-10=-60, 17-18=-20
   Concentrated Loads (lb)
      Vert: 16=-1739(B)