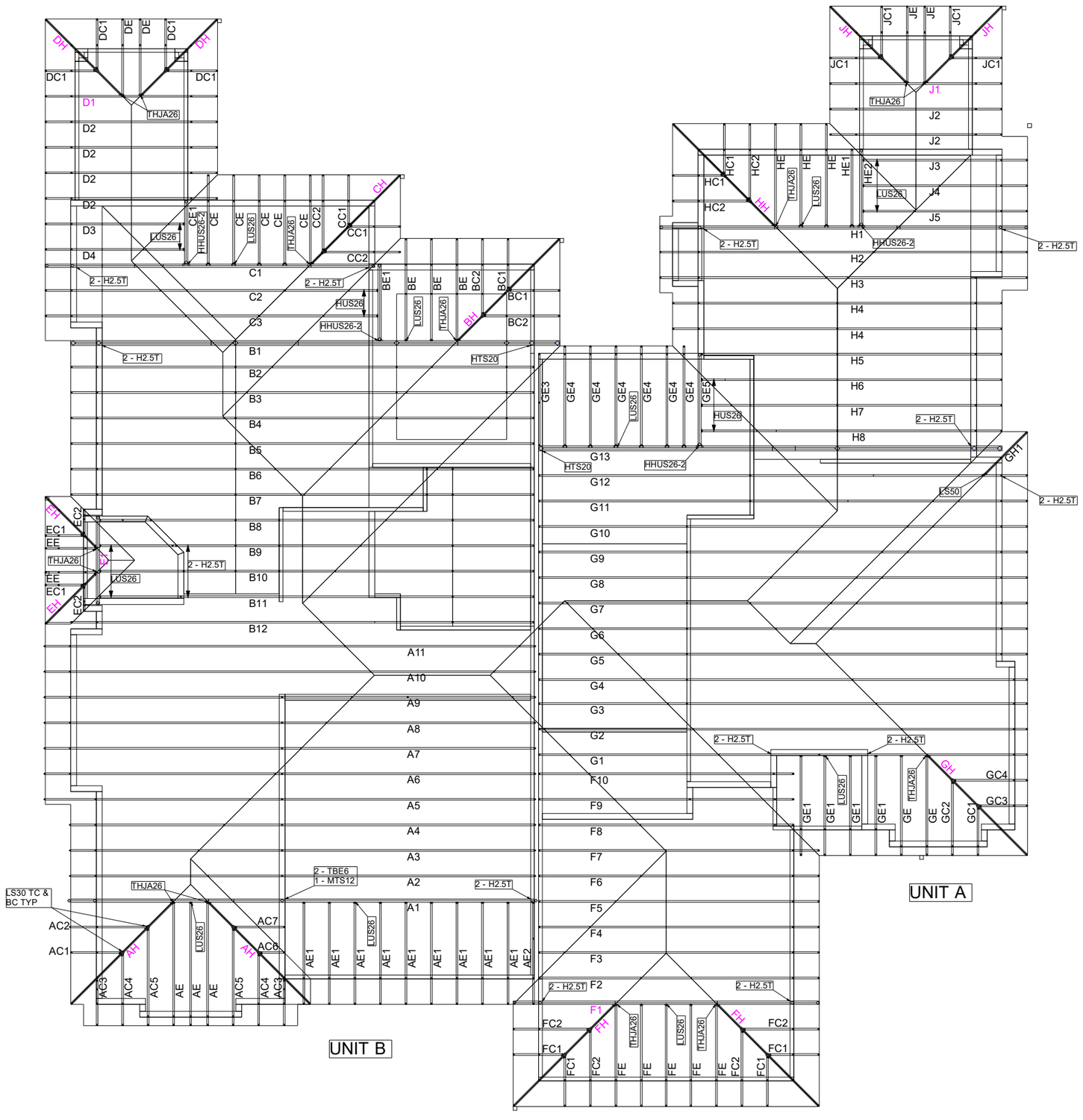

CREEKSIDE HOMES

SUNRISE VILLAGE DUPLEXES
BUILDING TYPE 1 - HIP ROOF
06-12548-A

1 - H2.5T AT EACH TRUSS BEARING LOCATION UNLESS NOTED OTHERWISE.

HANGERS

270 - H2.5T
4 - HHUS26-2
2 - HTS20
5 - HUS26
88 - LS30
1 - LS50
41 - LUS26
1 - MTS12
2 - TBE6
14 - THJA26

CITY OF ARVADA
ANY CHANGE OR DEVIATION FROM THESE PLANS MUST BE APPROVED BY ARVADA BUILDING DEPARTMENT

SHOP DRAWING APROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Approved by:_____ Date:_____

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive; Madison, WI 53719.

PLACEMENT PLAN

Builder:	CREEKSIDE HOMES
Designer:	LC
Address:	WEST 72ND AVE & KELLY ST
Model:	BUILDING TYPE 1 / HIP ROOF
Project:	SUNRISE VILLAGE DULPEXES
Job No.:	LC_CSSRV-TYHIP

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A1	Roof Special Girder	1	2	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:04 2021 Page 1
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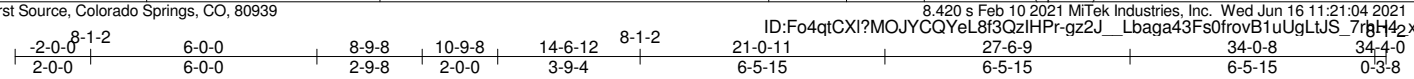

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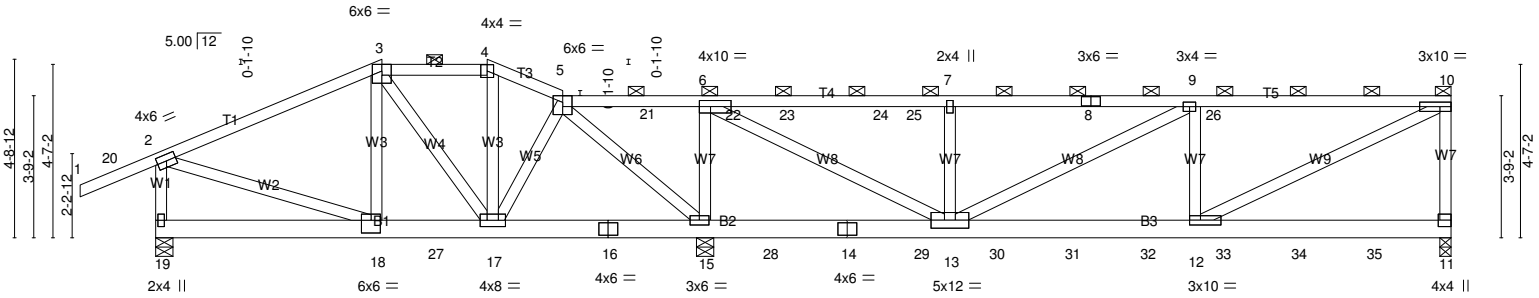

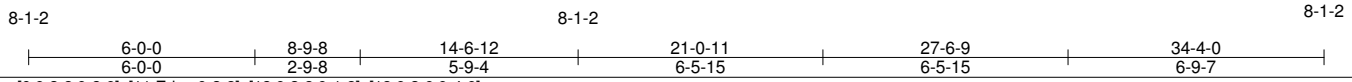

Plate Offsets (X,Y)-- [6:0-3-8,0-2-0], [11:Edge,0-3-8], [12:0-3-8,0-1-8], [18:0-3-0,0-4-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.11 12-13 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.16 12-13 >999 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.73	Horz(CT) 0.00 11 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 347 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 3-4, 5-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 11=2261/0-3-8 (min. 0-1-11), 19=1901/0-5-8 (min. 0-1-8), 15=6358/0-5-8 (min. 0-4-8)
Max Horz 19=200(LC 9)
Max Uplift11=-507(LC 7), 19=-408(LC 10), 15=-1334(LC 10)
Max Grav 11=2638(LC 31), 19=2252(LC 32), 15=7080(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2342/398, 3-4=-1448/271, 4-5=-1621/281, 5-21=-553/2975, 6-21=-554/2969, 6-22=-2335/485, 22-23=-2335/485, 23-24=-2335/485, 24-25=-2335/485, 7-25=-2335/485, 7-8=-2335/485, 8-9=-2335/485, 9-26=-3566/728, 10-26=-3566/728, 10-11=-2203/439, 2-19=-2189/432
BOT CHORD 18-27=-352/1993, 17-27=-352/1993, 16-17=-353/476, 15-16=-353/476, 15-28=-2973/651, 14-28=-2973/651, 14-29=-2973/651, 13-29=-2973/651, 13-30=-725/3566, 30-31=-725/3566, 31-32=-725/3566, 12-32=-725/3566
WEBS 3-18=-213/1216, 3-17=-983/221, 4-17=-258/487, 5-17=-417/2339, 5-15=-4086/794, 6-15=-3551/706, 6-13=-1160/5987, 7-13=-869/197, 9-13=-1388/274, 9-12=-624/357, 10-12=-747/3870, 2-18=-309/2030

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: 2x6 - 2 rows staggered at 0-6-0 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 507 lb uplift at joint 11, 408 lb uplift at joint 19 and 1334 lb uplift at joint 15.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 38 lb up at 34-2-4 on top chord, and 1302 lb down and 280 lb up at 6-0-0, 615 lb down and 118 lb up at 7-4-12, 1302 lb down and 280 lb up at 8-8-12, 367 lb down and 100 lb up at 16-3-4, 367 lb down and 100 lb up at 18-3-4, 367 lb down and 100 lb up at 20-3-4, 367 lb down and 100 lb up at 22-3-4, 367 lb down and 100 lb up at 24-3-4, 367 lb down and 100 lb up at 26-3-4, 367 lb down and 100 lb up at 28-3-4, and 367 lb down and 100 lb up at 30-3-4, and 367 lb down and 100 lb up at 32-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-90, 3-4=-90, 4-5=-90, 5-10=-90, 11-19=-20

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 10=-62 18=-1302(F) 17=-1302(F) 14=-367(F) 27=-615(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-367(F) 32=-367(F) 33=-367(F) 34=-367(F) 35=-367(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A2	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:06 2021 Page 1

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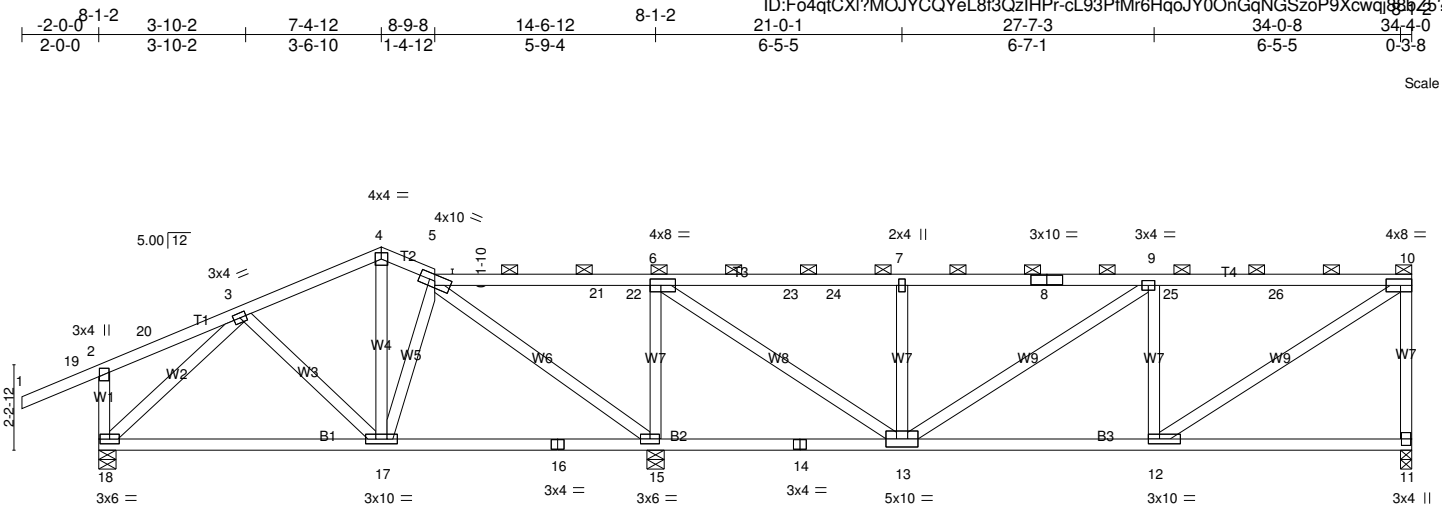

Plate Offsets (X,Y)-- [6:0-3-8,0-2-0], [12:0-3-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.08	12-13	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	17-18	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 156 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* T3,T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-13 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15.

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

REACTIONS. (lb/size) 11=927/0-3-8 (min. 0-2-2), 15=2217/0-5-8 (min. 0-4-9), 18=793/0-5-8 (min. 0-1-11)
Max Horz 18=239(LC 13)
Max Uplift 11=-175(LC 11), 15=-428(LC 14), 18=-214(LC 14)
Max Grav 11=1339(LC 33), 15=2903(LC 33), 18=1063(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-520/124, 4-5=-430/141, 5-21=-179/774, 21-22=-179/768, 6-22=-179/768, 6-23=-1050/219, 23-24=-1050/219, 7-24=-1050/219, 7-8=-1050/219, 8-9=-1050/219, 9-25=-1410/279, 25-26=-1410/279, 10-26=-1410/279, 10-11=-1276/232, 2-18=-478/259
BOT CHORD 17-18=-312/540, 16-17=-182/305, 15-16=-182/305, 14-15=-771/223, 13-14=-771/223, 12-13=-248/1410
WEBS 5-15=-1073/334, 6-15=-2119/386, 6-13=-322/2190, 7-13=-860/197, 9-13=-429/78, 9-12=-750/195, 10-12=-230/1625, 3-18=-746/100

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 7-4-12, Exterior(2E) 7-4-12 to 8-9-8, Interior(1) 8-9-8 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 175 lb uplift at joint 11, 428 lb uplift at joint 15 and 214 lb uplift at joint 18.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A3	Half Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:07 2021 Page 1

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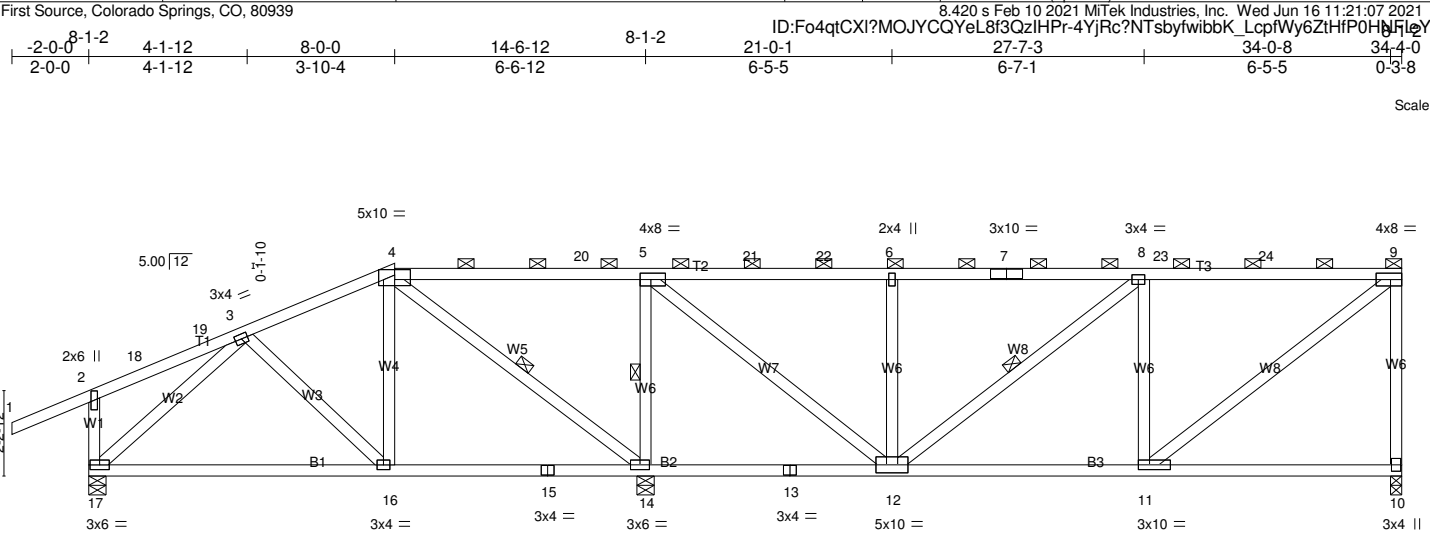

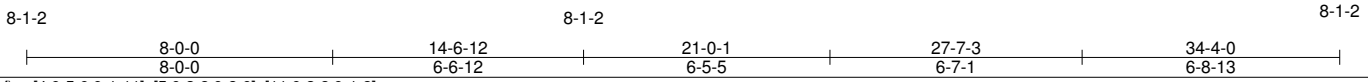

Plate Offsets (X,Y)-- [4:0-5-0,0-1-11], [5:0-3-8,0-2-0], [11:0-3-8,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.94	Vert(LL)	-0.09	16-17	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.42	Vert(CT)	-0.18	16-17	>953	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.47	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 159 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
T1: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-14.
WEBS 1 Row at midpt 4-14, 5-14, 8-12

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

REACTIONS. (lb/size) 10=937/0-3-8 (min. 0-2-2), 14=2194/0-5-8 (min. 0-4-9), 17=806/0-5-8 (min. 0-1-13)
Max Horz 17=263(LC 13)
Max Uplift10=-176(LC 11), 14=-426(LC 14), 17=-214(LC 14)
Max Grav 10=1351(LC 29), 14=2914(LC 29), 17=1172(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-517/134, 4-20=-148/589, 5-20=-148/582, 5-21=-908/215, 21-22=-908/215, 6-22=-908/215, 6-7=-908/215, 7-8=-908/215, 8-23=-1200/266, 23-24=-1200/266, 9-24=-1200/266, 9-10=-1289/234, 2-17=-575/264
BOT CHORD 16-17=-327/558, 15-16=-203/379, 14-15=-203/379, 13-14=-585/209, 12-13=-585/209, 11-12=-231/1200
WEBS 4-16=-44/319, 4-14=-990/305, 5-14=-2165/409, 5-12=-275/1910, 6-12=-840/190, 8-12=-369/66, 8-11=-767/201, 9-11=-212/1472, 3-17=-774/107

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 8-0-0, Exterior(2R) 8-0-0 to 12-10-4, Interior(1) 12-10-4 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 176 lb uplift at joint 10, 426 lb uplift at joint 14 and 214 lb uplift at joint 17.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A4	Half Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:08 2021 Page 1

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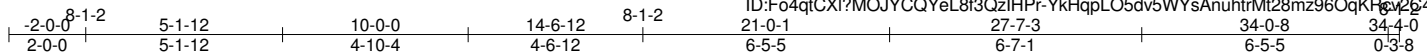

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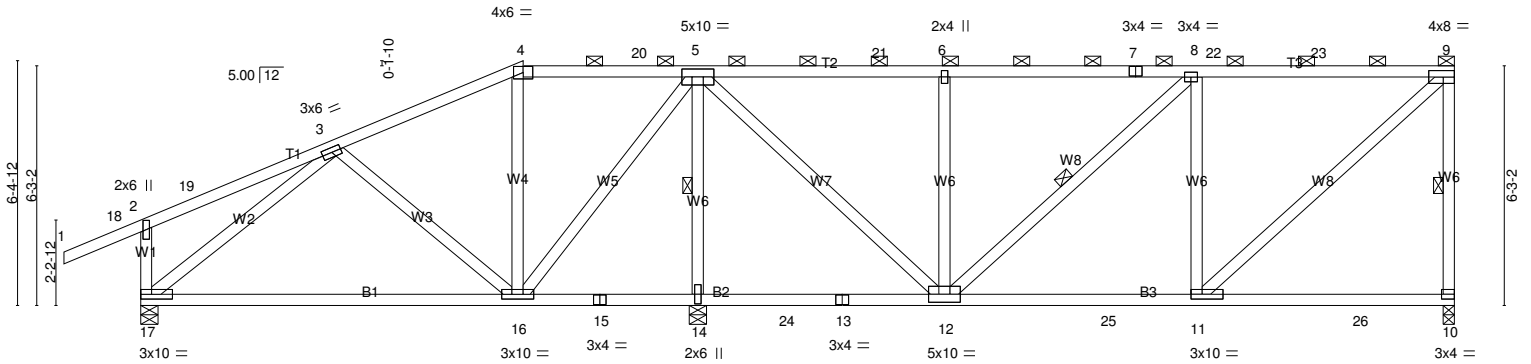

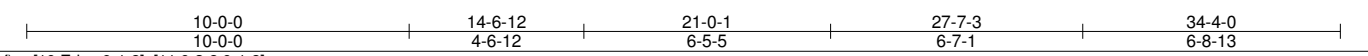

Plate Offsets (X,Y)-- [10:Edge,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.24	16-17	>726	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.48	16-17	>360	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 167 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T3: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-1 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-10, 5-14, 8-12

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

REACTIONS. (lb/size) 10=979/0-3-8 (min. 0-2-4), 14=2095/0-5-8 (min. 0-4-3), 17=864/0-5-8 (min. 0-2-0)
Max Horz 17=304(LC 13)
Max Uplift 10=-185(LC 14), 14=-402(LC 14), 17=-227(LC 14)
Max Grav 10=1417(LC 29), 14=2650(LC 29), 17=1268(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-495/137, 4-20=-341/159, 5-20=-343/158, 5-21=-965/246, 6-21=-965/246, 6-7=-965/246, 7-8=-965/246, 8-22=-1135/275, 22-23=-1135/275, 9-23=-1135/275, 9-10=-1355/244, 2-17=-635/267
BOT CHORD 16-17=-366/714, 15-16=-390/174, 14-15=-390/174, 14-24=-390/174, 13-24=-390/174, 12-13=-390/174, 12-25=-228/1104, 11-25=-228/1104
WEBS 3-16=-468/238, 4-16=-296/141, 5-16=-271/1000, 5-14=-2554/560, 5-12=-242/1709, 6-12=-878/202, 8-11=-834/213, 9-11=-211/1448, 3-17=-852/143

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 10-0-0, Exterior(2R) 10-0-0 to 14-6-12, Interior(1) 14-6-12 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 185 lb uplift at joint 10, 402 lb uplift at joint 14 and 227 lb uplift at joint 17.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A5	Half Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:10 2021 Page 1

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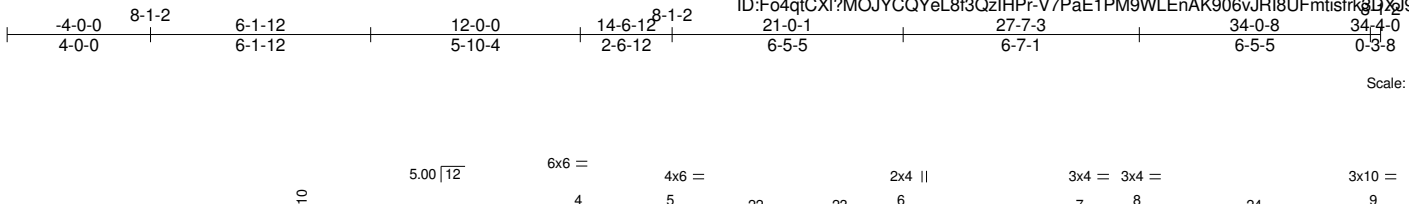
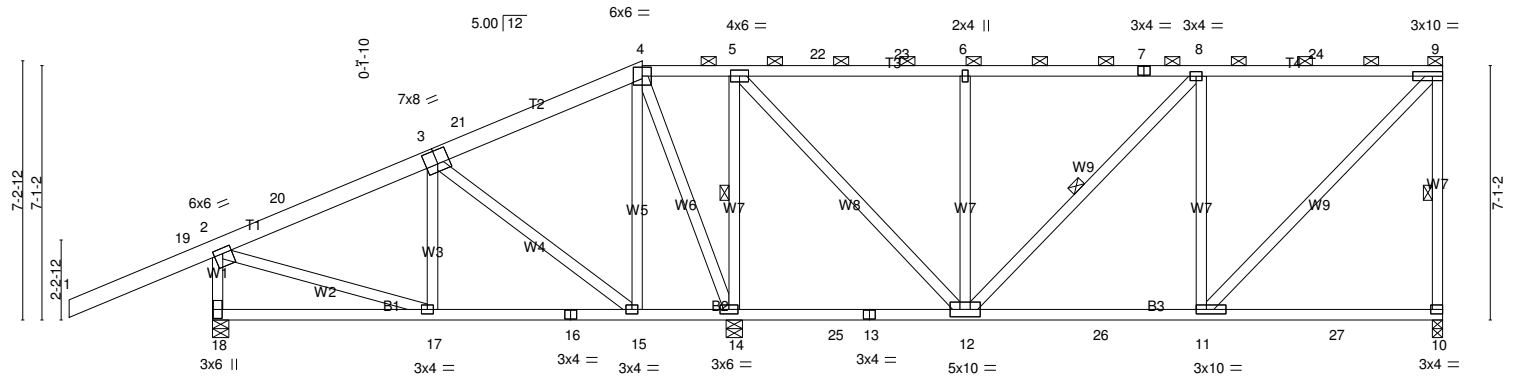


Scale: 3/16"=1'



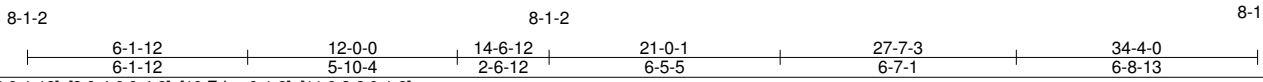


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-4-0,0-4-8], [10:Edge,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.88	Vert(LL)	-0.07	10-11	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.50	Vert(CT)	-0.13	10-11	>999	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.91	Horz(CT)	-0.01	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 193 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E *Except*
T3: 2x4 SPF No.2, T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-1 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-10, 5-14, 8-12

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

REACTIONS. (lb/size) 10=926/0-3-8 (min. 0-2-2), 18=1011/0-5-8 (min. 0-2-8), 14=2180/0-5-8 (min. 0-4-3)
Max Horz 18=361(LC 11)
Max Uplift 10=-181(LC 11), 18=-332(LC 14), 14=-406(LC 14)
Max Grav 10=1359(LC 29), 18=1578(LC 30), 14=2676(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-799/67, 3-20=-697/86, 4-21=-91/296, 4-5=-128/480, 5-22=-756/230, 22-23=-756/230, 6-23=-756/230, 6-7=-756/230, 7-8=-756/230, 8-24=-966/263, 9-24=-966/263, 9-10=-1298/239, 2-18=-1527/484
BOT CHORD 17-18=-426/313, 16-17=-312/620, 15-16=-312/620, 14-15=-353/176, 14-25=-542/219, 13-25=-542/219, 12-13=-542/219, 12-26=-214/924, 11-26=-214/924
WEBS 3-15=-761/240, 4-15=-113/566, 4-14=-994/277, 5-14=-1967/368, 5-12=-248/1691, 6-12=-892/211, 8-12=-302/48, 8-11=-776/213, 9-11=-193/1275, 2-17=0/669

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -4-0-0 to -0-6-13, Interior(1) -0-6-13 to 12-0-0, Exterior(2R) 12-0-0 to 16-10-4, Interior(1) 16-10-4 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 181 lb uplift at joint 10, 332 lb uplift at joint 18 and 406 lb uplift at joint 14.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A6	Half Hip	1	1	Job Reference (optional)

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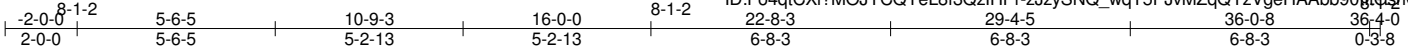
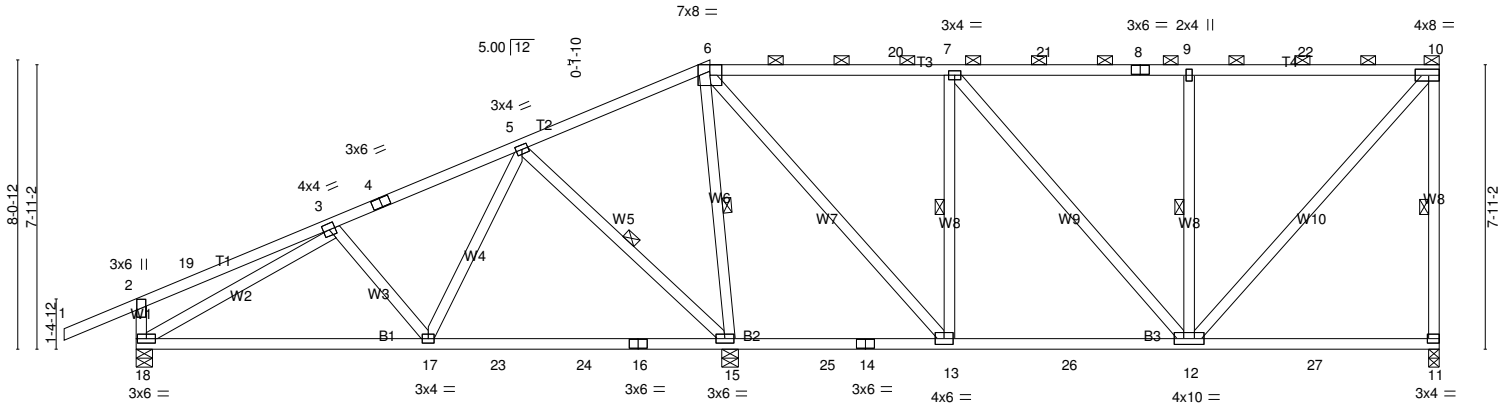


Scale: 3/16"=1'



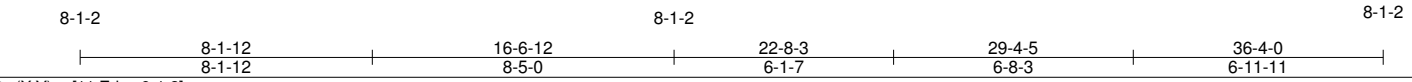


Plate Offsets (X,Y)-- [11:Edge,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.93	Vert(LL)	-0.12	15-17	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.65	Vert(CT)	-0.20	15-17	>973	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.72	Horz(CT)	0.02	15	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 182 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* T3,T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-11, 5-15, 6-15, 7-13, 9-12

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

REACTIONS. (lb/size) 11=930/0-3-8 (min. 0-2-4), 15=2297/0-5-8 (min. 0-4-1), 18=931/0-5-8 (min. 0-1-15)
Max Horz 18=388(LC 13)
Max Uplift 11=-185(LC 11), 15=-427(LC 14), 18=-246(LC 14)
Max Grav 11=1433(LC 29), 15=2608(LC 33), 18=1255(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-320/89, 3-4=-916/176, 4-5=-711/193, 5-6=-195/623, 6-20=-791/260, 7-20=-795/260, 7-21=-946/277, 8-21=-946/277, 8-9=-946/277, 9-22=-946/277, 10-22=-946/277, 10-11=-1370/239, 2-18=-619/270
BOT CHORD 17-18=-424/1076, 17-23=-260/481, 23-24=-260/481, 16-24=-260/481, 15-16=-260/481, 15-25=-605/231, 14-25=-605/231, 13-14=-605/231, 13-26=-175/742, 12-26=-175/742
WEBS 3-17=-497/204, 5-17=-85/748, 5-15=-1252/306, 6-15=-1881/458, 6-13=-275/1664, 7-13=-1143/266, 7-12=-48/329, 9-12=-995/250, 10-12=-179/1301, 3-18=-1050/179

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-10, Interior(1) 1-7-10 to 16-0-0, Exterior(2R) 16-0-0 to 21-1-11, Interior(1) 21-1-11 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 185 lb uplift at joint 11, 427 lb uplift at joint 15 and 246 lb uplift at joint 18.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A7	Half Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:12 2021 Page 1

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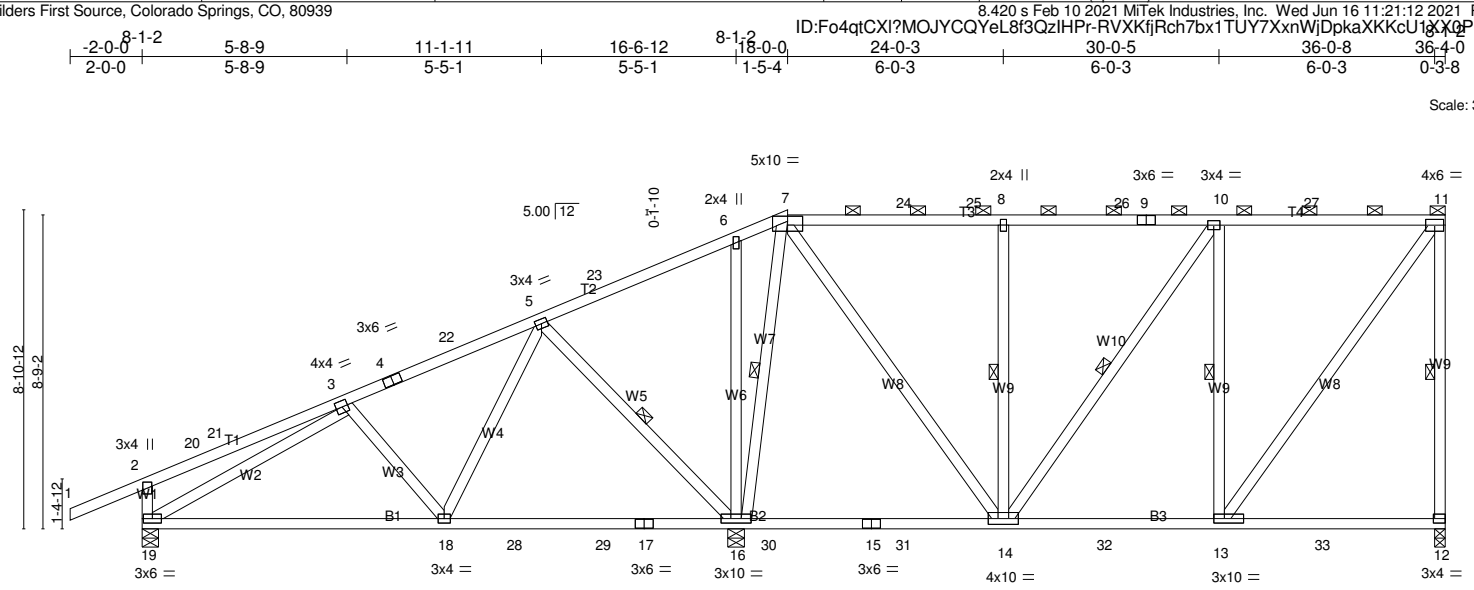

Plate Offsets (X,Y)-- [7:0-5-0,0-1-11], [12:Edge,0-1-8], [13:0-3-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.11	18-19	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.22	18-19	>911	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	16	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 196 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-12, 5-16, 7-16, 8-14, 10-14, 10-13

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

REACTIONS. (lb/size) 12=871/0-3-8 (min. 0-2-2), 16=2427/0-5-8 (min. 0-4-7), 19=860/0-5-8 (min. 0-1-12)
Max Horz 19=429(LC 13)
Max Uplift 12=-178(LC 11), 16=-478(LC 14), 19=-216(LC 14)
Max Grav 12=1359(LC 29), 16=2830(LC 34), 19=1101(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-286/88, 3-4=-780/114, 4-22=-666/121, 5-22=-648/131, 5-23=-280/565, 6-23=-270/772, 6-7=-185/613, 7-24=-717/245, 24-25=-718/245, 8-25=-720/244, 8-26=-717/243, 9-26=-717/243, 9-10=-717/243, 10-27=-788/261, 11-27=-788/261, 11-12=-1301/223, 2-19=-531/272
BOT CHORD 18-19=-407/964, 18-28=-217/318, 28-29=-217/318, 17-29=-217/318, 16-17=-217/318, 16-30=-474/231, 15-30=-474/231, 15-31=-474/231, 14-31=-474/231, 14-32=-192/728, 13-32=-192/728
WEBS 3-18=-544/228, 5-18=-107/782, 5-16=-1237/300, 6-16=-629/205, 7-16=-1688/306, 7-14=-226/1323, 8-14=-867/227, 10-13=-817/208, 11-13=-164/1166, 3-19=-930/121

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-10, Interior(1) 1-7-10 to 18-0-0, Exterior(2R) 18-0-0 to 23-1-11, Interior(1) 23-1-11 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 178 lb uplift at joint 12, 478 lb uplift at joint 16 and 216 lb uplift at joint 19.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A8	Half Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:14 2021 Page 1

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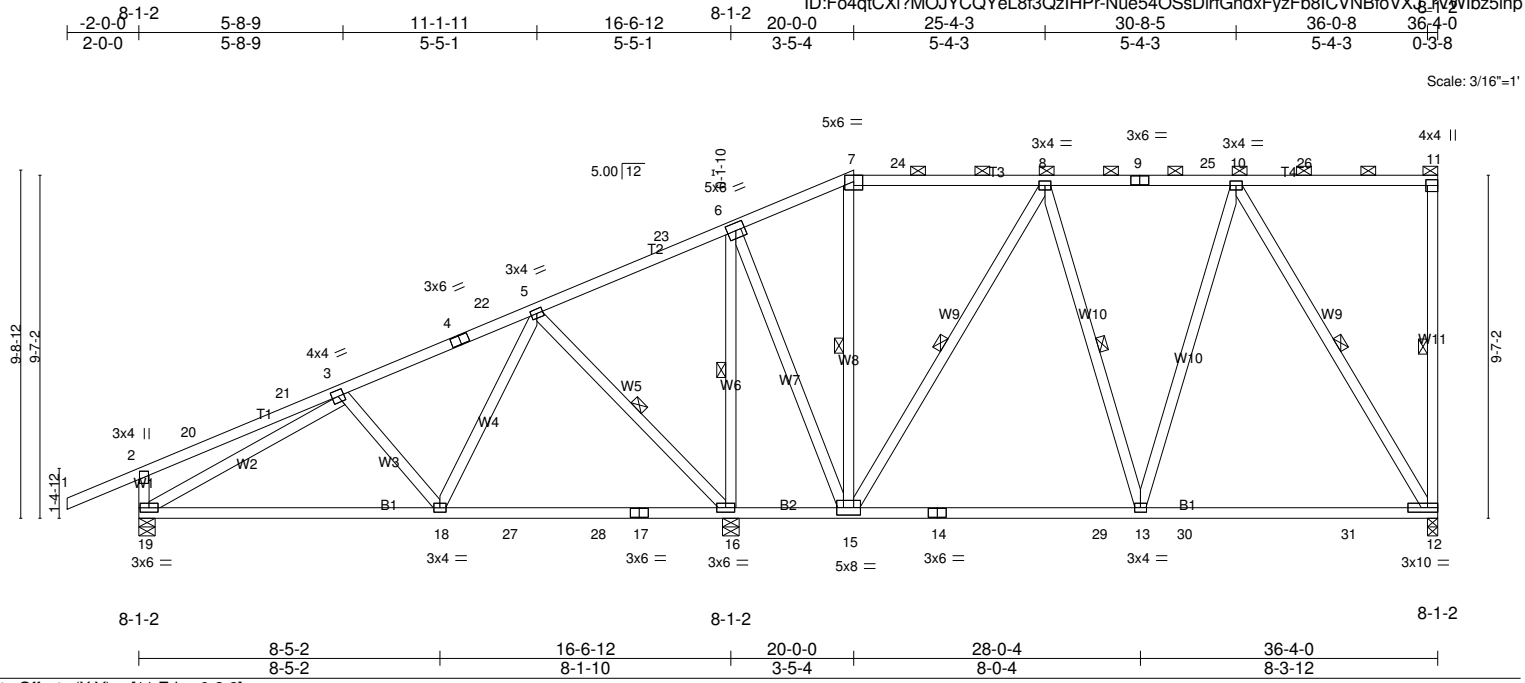

Plate Offsets (X,Y)-- [11:Edge,0-3-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.19	12-13	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	12-13	>781	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 200 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-12, 5-16, 6-16, 7-15, 8-15, 8-13, 10-12

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

REACTIONS. (lb/size) 12=962/0-3-8 (min. 0-2-4), 16=2227/0-5-8 (min. 0-4-5), 19=969/0-5-8 (min. 0-1-12)
Max Horz 19=469(LC 13)
Max Uplift 12=-207(LC 11), 16=-433(LC 14), 19=-240(LC 14)
Max Grav 12=1443(LC 29), 16=2739(LC 34), 19=1128(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-962/173, 4-22=-752/181, 5-22=-728/183, 5-23=-241/364, 6-23=-228/555, 6-7=-445/216, 7-24=-386/219, 8-24=-391/219, 8-9=-827/282, 9-25=-827/282, 10-25=-827/282, 10-12=-319/105, 2-19=-484/273
BOT CHORD 18-19=-483/1092, 18-27=-297/514, 27-28=-297/514, 17-28=-297/514, 16-17=-297/514, 15-16=-457/219, 14-15=-235/755, 14-29=-235/755, 13-29=-235/755, 13-30=-219/672, 30-31=-219/672, 12-31=-219/672
WEBS 3-18=-457/225, 5-18=-101/733, 5-16=-1211/285, 6-16=-1646/437, 6-15=-208/1238, 7-15=-300/149, 8-15=-825/167, 10-13=-10/381, 10-12=-1225/232, 3-19=-1092/168

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-10, Interior(1) 1-7-10 to 20-0-0, Exterior(2R) 20-0-0 to 25-4-3, Interior(1) 25-4-3 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 207 lb uplift at joint 12, 433 lb uplift at joint 16 and 240 lb uplift at joint 19.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A9	Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:15 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-r4CTHkTU_2zWuxC7ofVU8LrLpnZjXzWTDVE3q1z5ino

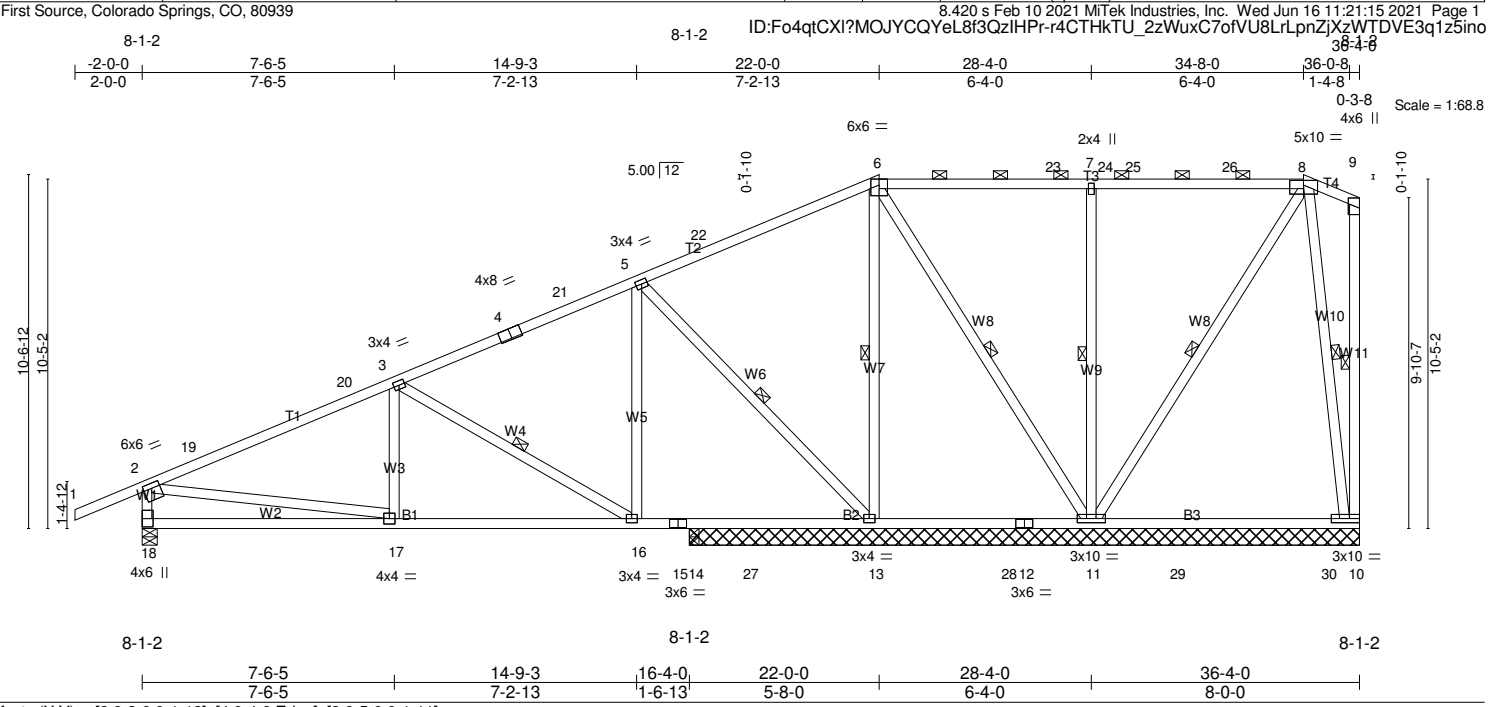

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-4-0,Edge], [8:0-5-0,0-1-11]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.89	Vert(LL)	-0.19	10-11	>494	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.64	Vert(CT)	-0.30	10-11	>319	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.76	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 204 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
T2: 2x4 DF 2400F 2.0E, T3: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins, except end verticals, and 2-0-0 oc purlins (9-8-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-16, 5-13, 6-13, 6-11, 7-11, 8-11, 9-10, 8-10

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

REACTIONS. All bearings 20-0-0 except (jt=length) 18=0-5-8, 14=0-3-8.
(lb) - Max Horz 18=499(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-294(LC 14), 13=-322(LC 14), 11=-255(LC 11), 10=-188(LC 35)
Max Grav All reactions 250 lb or less at joint(s) 10, 14 except 18=1357(LC 33), 13=2314(LC 41), 11=1573(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-1642/266, 19-20=-1517/276, 3-20=-1403/289, 3-4=-790/214, 4-21=-642/214, 5-21=-512/227, 5-22=-211/487, 6-22=-197/757, 6-23=-149/429, 23-24=-149/427, 7-24=-149/427, 7-25=-149/427, 25-26=-149/428, 8-26=-149/429, 8-9=-240/269, 2-18=-1289/416
BOT CHORD 17-18=-662/586, 16-17=-552/1509, 15-16=-331/616, 14-15=-331/616, 14-27=-331/616, 13-27=-331/616, 13-28=-612/269, 12-28=-612/269, 11-12=-612/269
WEBS 3-16=-1034/256, 5-16=-67/614, 5-13=-1592/385, 6-13=-1008/239, 6-11=-17/257, 7-11=-996/246, 8-11=-688/165, 2-17=-149/1220, 8-10=-168/383

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-10, Interior(1) 1-7-10 to 22-0-0, Exterior(2R) 22-0-0 to 27-1-11, Interior(1) 27-1-11 to 34-8-0, Exterior(2E) 34-8-0 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 294 lb uplift at joint 18, 322 lb uplift at joint 13, 255 lb uplift at joint 11 and 188 lb uplift at joint 10.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A10	Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:17 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-nTKDiQVlWgDE7EMWw4XyDmwhYb9v?rDmgpjAuwz5inm

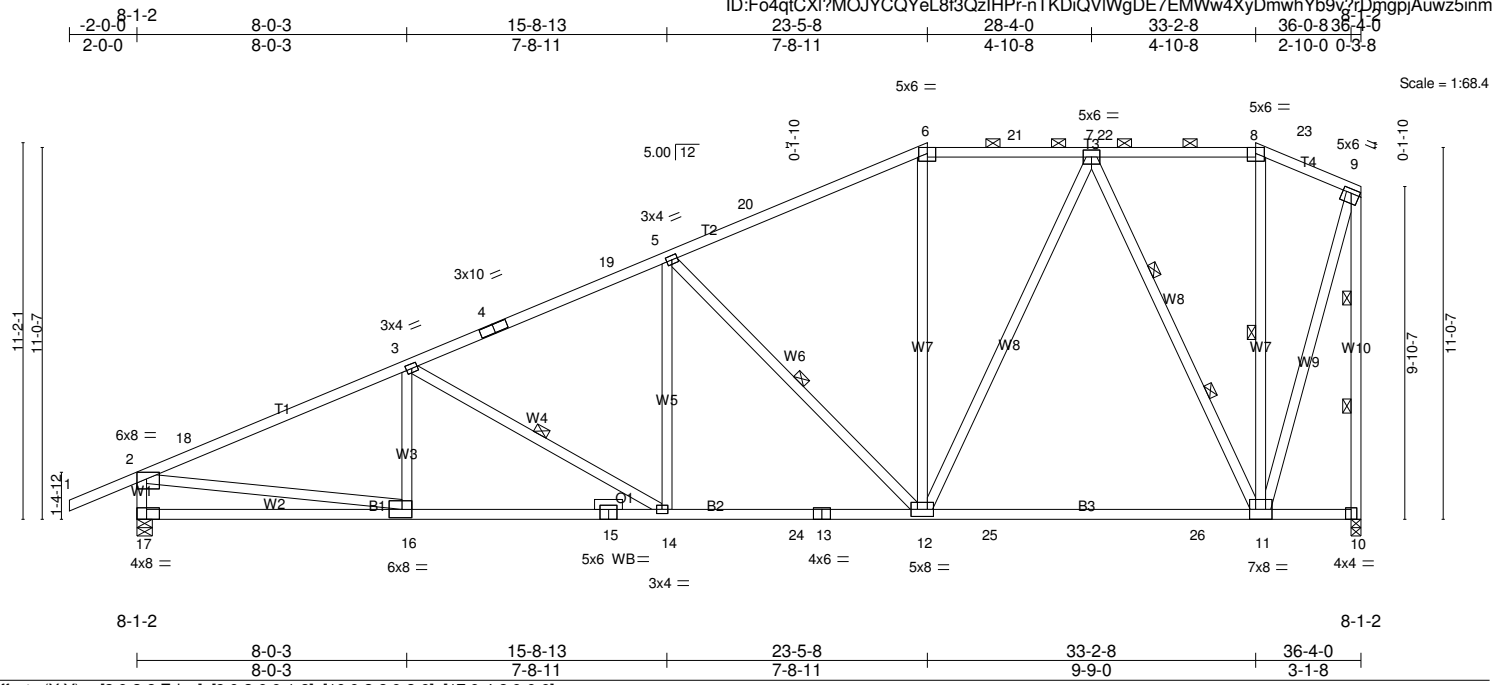

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [9:0-3-0,0-1-8], [16:0-3-8,0-3-0], [17:0-4-8,0-0-0]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.88	Vert(LL)	-0.39	11-12	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.91	Vert(CT)	-0.64	11-12	>676	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.87	Horz(CT)	0.10	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 209 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T2: 2x4 DF 2400F 2.0E, T1: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W10: 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-14, 5-12, 8-11
2 Rows at 1/3 pts 7-11, 9-10

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

REACTIONS. (lb/size) 17=2181/0-5-8 (min. 0-1-8), 10=1977/0-3-8 (min. 0-1-8)
Max Horz 17=515(LC 13)
Max Uplift17=-475(LC 14), 10=-380(LC 14)
Max Grav 17=2575(LC 41), 10=2251(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-3949/648, 3-18=-3836/672, 3-4=-3377/634, 4-19=-3226/644, 5-19=-3082/658, 5-20=-2187/527, 6-20=-2003/550, 6-21=-1863/553, 21-22=-1865/552, 7-22=-1865/552, 7-8=-649/330, 8-23=-682/350, 9-23=-761/341, 2-17=-2442/618, 9-10=-2299/512
BOT CHORD 16-17=-684/650, 15-16=-991/3703, 14-15=-991/3703, 14-24=-822/3109, 13-24=-822/3109, 12-13=-822/3109, 12-25=-448/1334, 25-26=-448/1334, 11-26=-448/1334
WEBS 3-16=-305/149, 3-14=-684/195, 5-14=-34/623, 5-12=-1645/369, 6-12=-11/294, 7-12=-272/1451, 7-11=-1693/474, 2-16=-476/3209, 9-11=-490/2044

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-10, Interior(1) 1-7-10 to 23-5-8, Exterior(2R) 23-5-8 to 28-4-0, Interior(1) 28-4-0 to 33-2-8, Exterior(2E) 33-2-8 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 17 and 380 lb uplift at joint 10.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	A11	Hip	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:19 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-krS_76W?2HTyNYWu1VZQIB??AOr1TmS386CHzoz5ink

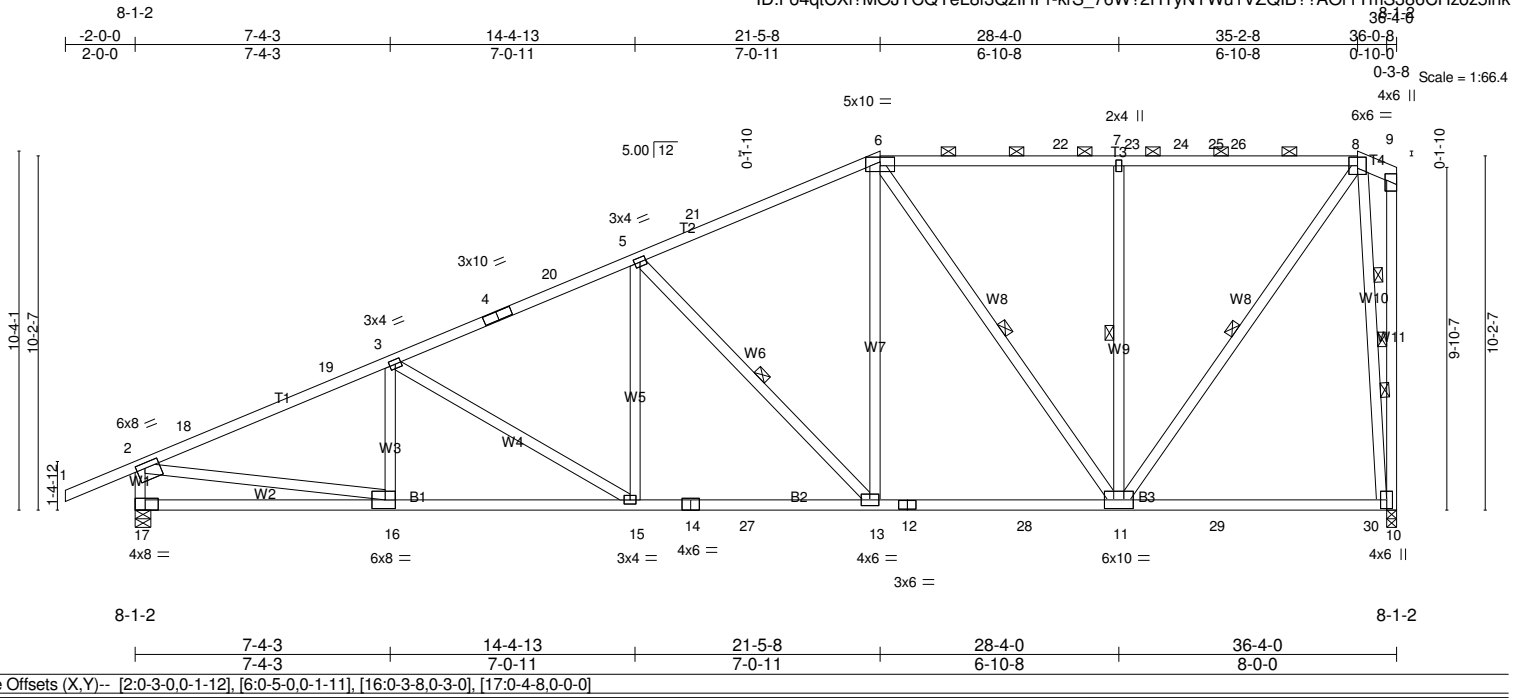

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [6:0-5-0,0-1-11], [16:0-3-8,0-3-0], [17:0-4-8,0-0-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.23	13-15	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.38	13-15	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 203 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
T3: 2x4 DF 2400F 2.0E, T4: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-13, 6-11, 7-11, 8-11, 9-10
2 Rows at 1/3 pts 8-10

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

REACTIONS. (lb/size) 17=2181/0-5-8 (min. 0-1-8), 10=1977/0-3-8 (min. 0-1-8)
Max Horz 17=491(LC 13)
Max Uplift17=-475(LC 14), 10=-380(LC 14)
Max Grav 17=2586(LC 41), 10=2335(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-3922/643, 18-19=-3817/654, 3-19=-3723/666, 3-4=-3452/656, 4-20=-3312/657, 5-20=-3183/670, 5-21=-2381/564, 6-21=-2215/585, 6-22=-1474/486, 22-23=-1477/485, 7-23=-1477/485, 7-24=-1474/484, 24-25=-1474/484, 25-26=-1474/484, 8-26=-1474/484, 8-9=-263/289, 2-17=-2461/615, 9-10=-247/269
BOT CHORD 16-17=-663/604, 15-16=-995/3669, 14-15=-852/3176, 14-27=-852/3176, 13-27=-852/3176, 12-13=-624/2120, 12-28=-624/2120, 11-28=-624/2120, 11-29=-173/297, 29-30=-173/297, 10-30=-173/297
WEBS 3-16=-371/151, 3-15=-572/166, 5-15=-21/575, 5-13=-1485/324, 6-13=-177/1351, 6-11=-1244/293, 7-11=-1099/261, 8-11=-500/2213, 2-16=-499/3254, 8-10=-2331/765

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-10, Interior(1) 1-7-10 to 21-5-8, Exterior(2R) 21-5-8 to 26-7-3, Interior(1) 26-7-3 to 35-2-8, Exterior(2E) 35-2-8 to 36-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 17 and 380 lb uplift at joint 10.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC1	Jack-Open	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:20 2021 Page 1
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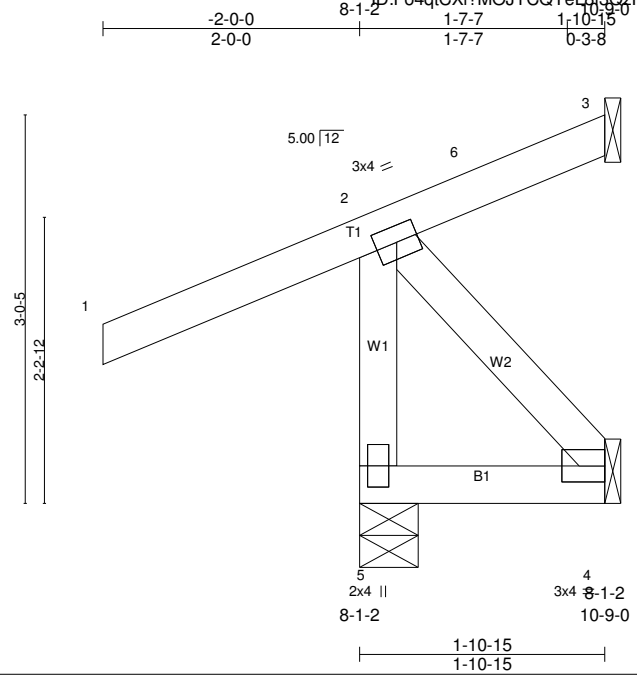


Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=408/0-5-8 (min. 0-1-8), 3=-39/Mechanical, 4=18/Mechanical
Max Horz 5=144(LC 14)
Max Uplift 5=-87(LC 10), 3=-92(LC 18), 4=-119(LC 14)
Max Grav 5=558(LC 19), 3=48(LC 14), 4=67(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-541/272

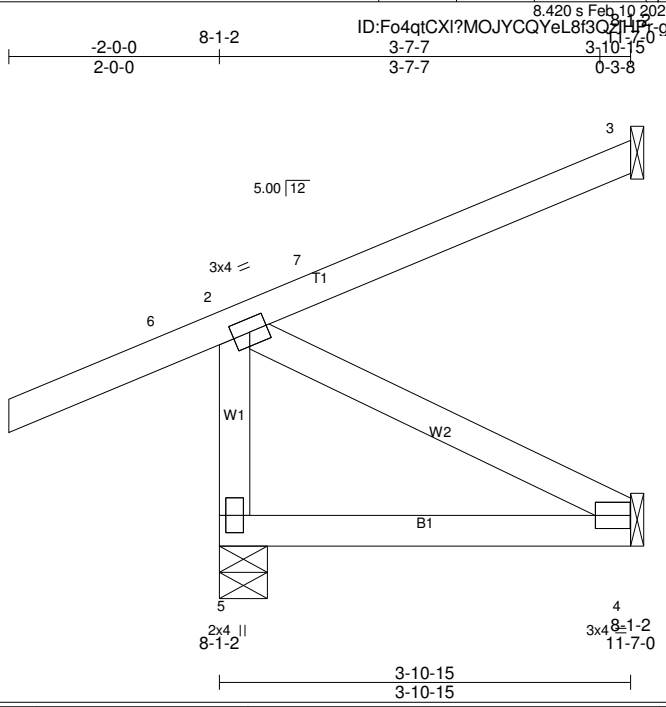
NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 zone; cantilever left and right exposed ; end vertical left 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 87 lb uplift at joint 5, 92 lb uplift at joint 3 and 119 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC2	Jack-Open	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:21 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3O2HHPr-gEZkYoYFZujgcsgH9wbuNc5SqCjsxs1LbQhO1hz5ini



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.01 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02 4-5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 18 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=453/0-5-8 (min. 0-1-8), 3=111/Mechanical, 4=38/Mechanical
Max Horz 5=176(LC 14)
Max Uplift 5=-95(LC 14), 3=-35(LC 11), 4=-59(LC 14)
Max Grav 5=634(LC 19), 3=159(LC 19), 4=75(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-596/282
WEBS 2-4=-146/279

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 95 lb uplift at joint 5, 35 lb uplift at joint 3 and 59 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC3	Monopitch Supported Gable	2	1	Job Reference (optional)

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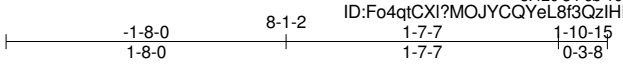

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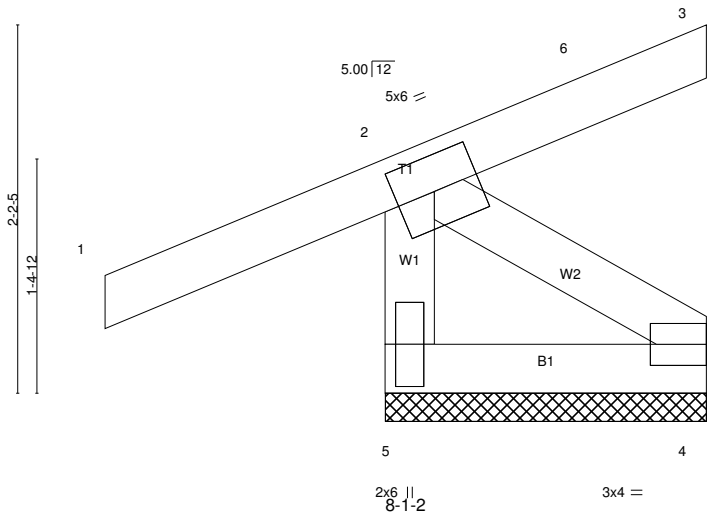

Plate Offsets (X,Y)-- [2:0-2-12,0-2-8], [4:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	3	n/r	120	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.01	3	n/r	120		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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) 5=344/1-10-15 (min. 0-1-8), 4=13/1-10-15 (min. 0-1-8)
Max Horz 5=167(LC 14)
Max Uplift 5=-179(LC 14), 4=-84(LC 14)
Max Grav 5=465(LC 19), 4=34(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-444/514

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-8-0 to 1-4-0, Exterior(2N) 1-4-0 to 1-10-15 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) 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 1-4-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 5 and 84 lb uplift at joint 4.
13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC4	Jack-Open	2	1	Job Reference (optional)

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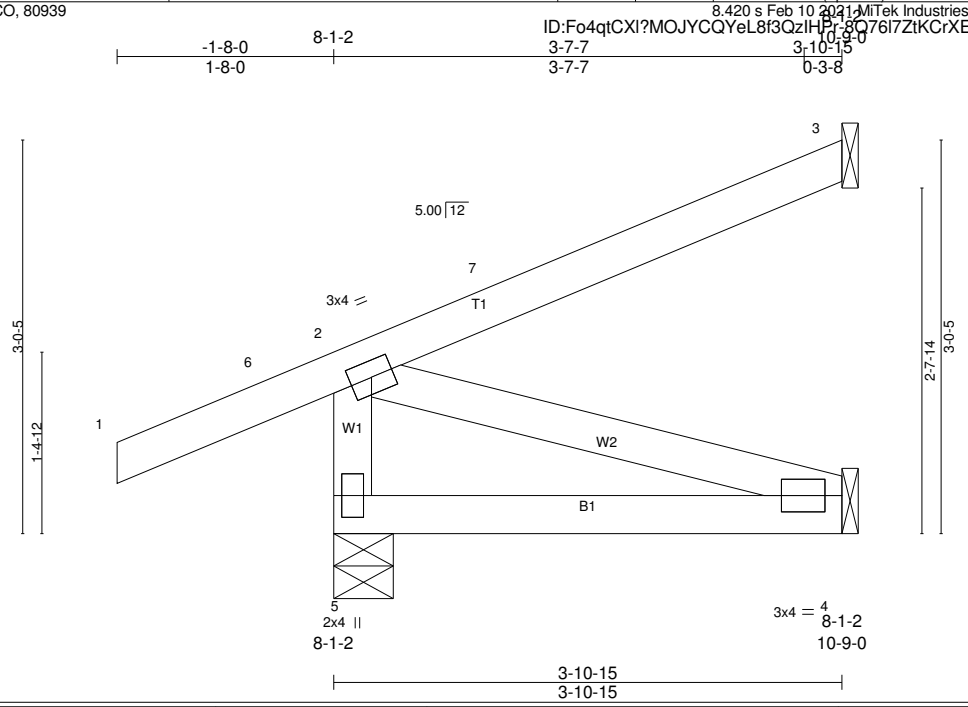

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=407/0-5-8 (min. 0-1-8), 3=127/Mechanical, 4=38/Mechanical
Max Horz 5=141(LC 14)
Max Uplift 5=-106(LC 14), 3=-41(LC 14), 4=-21(LC 14)
Max Grav 5=568(LC 19), 3=182(LC 19), 4=75(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-530/273

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 106 lb uplift at joint 5, 41 lb uplift at joint 3 and 21 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC5	Jack-Partial	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:23 2021 Page 1
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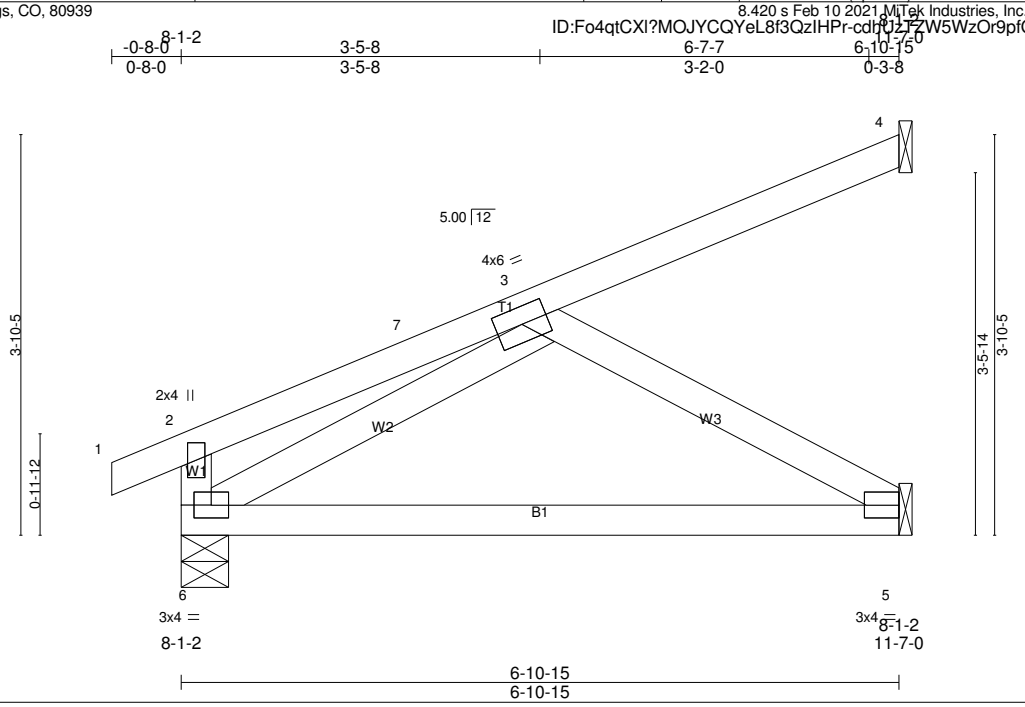

Plate Offsets (X,Y)-- [5:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.13	5-6	>646	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.25	5-6	>323	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 27 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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=124/Mechanical, 6=448/0-5-8 (min. 0-1-8), 5=239/Mechanical
Max Horz 6=152(LC 14)
Max Uplift 4=-51(LC 14), 6=-76(LC 14), 5=-53(LC 14)
Max Grav 4=177(LC 19), 6=580(LC 19), 5=316(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-315/423
WEBS 3-6=-504/81, 3-5=-491/366

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 6-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 51 lb uplift at joint 4, 76 lb uplift at joint 6 and 53 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC6	Jack-Open	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:24 2021 Page 1

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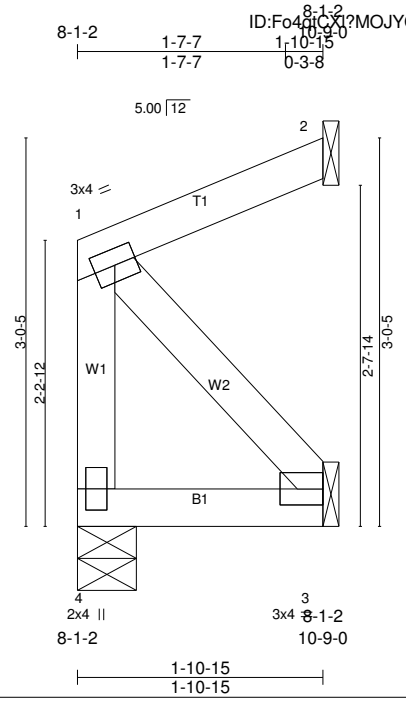

Plate Offsets (X,Y)-- [3:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	4	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	2	n/a	n/a		
BCLL	0.0 *	Code IRC2018/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 No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=97/0-5-8 (min. 0-1-8), 2=79/Mechanical, 3=18/Mechanical
Max Horz 4=91(LC 14)
Max Uplift 4=-5(LC 10), 2=-32(LC 14), 3=-59(LC 14)
Max Grav 4=117(LC 18), 2=99(LC 18), 3=65(LC 12)

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

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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 5 lb uplift at joint 4, 32 lb uplift at joint 2 and 59 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AC7	Jack-Open	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939

8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:25 2021 Page 1
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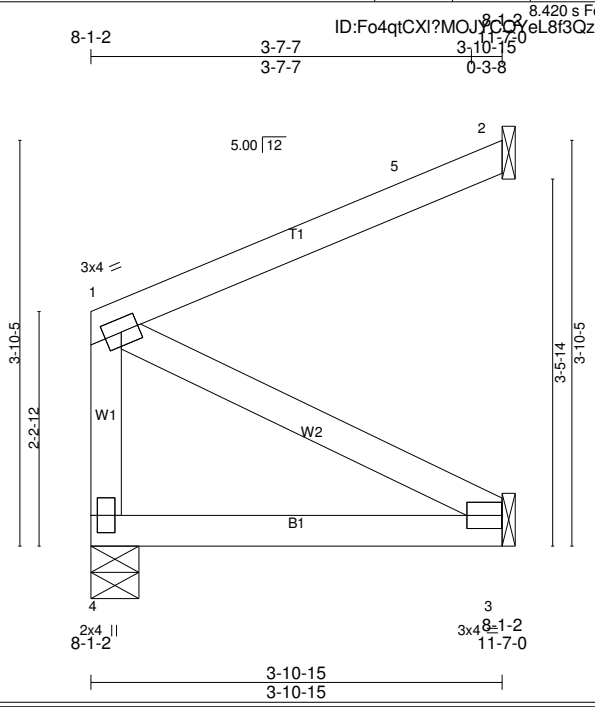

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.01	3-4	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	2	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=204/0-5-8 (min. 0-1-8), 2=167/Mechanical, 3=38/Mechanical
Max Horz 4=123(LC 14)
Max Uplift 2=-68(LC 14), 3=-31(LC 14)
Max Grav 4=267(LC 18), 2=229(LC 18), 3=75(LC 5)

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

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12 , Interior(1) 3-1-12 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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 68 lb uplift at joint 2 and 31 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AE	Jack-Closed	3	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:26 2021 Page 1

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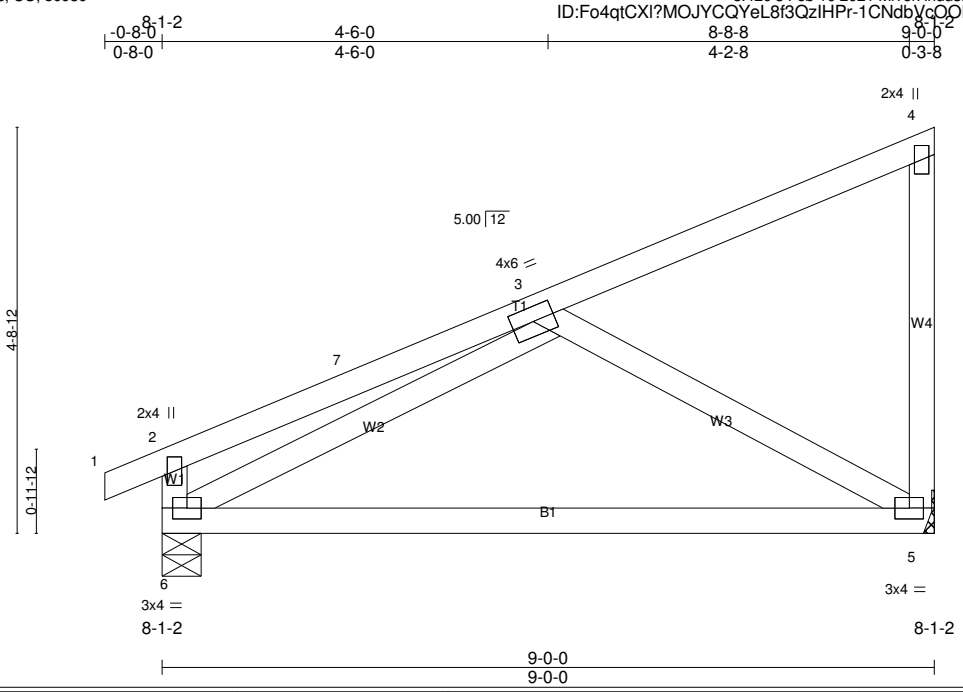

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.24	5-6	>433	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.48	5-6	>216	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 41 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 DF 2400F 2.0E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 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) 6=555/0-5-8 (min. 0-1-8), 5=476/Mechanical
Max Horz 6=217(LC 13)
Max Uplift 6=-124(LC 14), 5=-98(LC 11)
Max Grav 6=652(LC 19), 5=635(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-429/569
WEBS 3-6=-661/177, 3-5=-654/417

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 8-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 124 lb uplift at joint 6 and 98 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AE1	Jack-Partial	9	1	Job Reference (optional)

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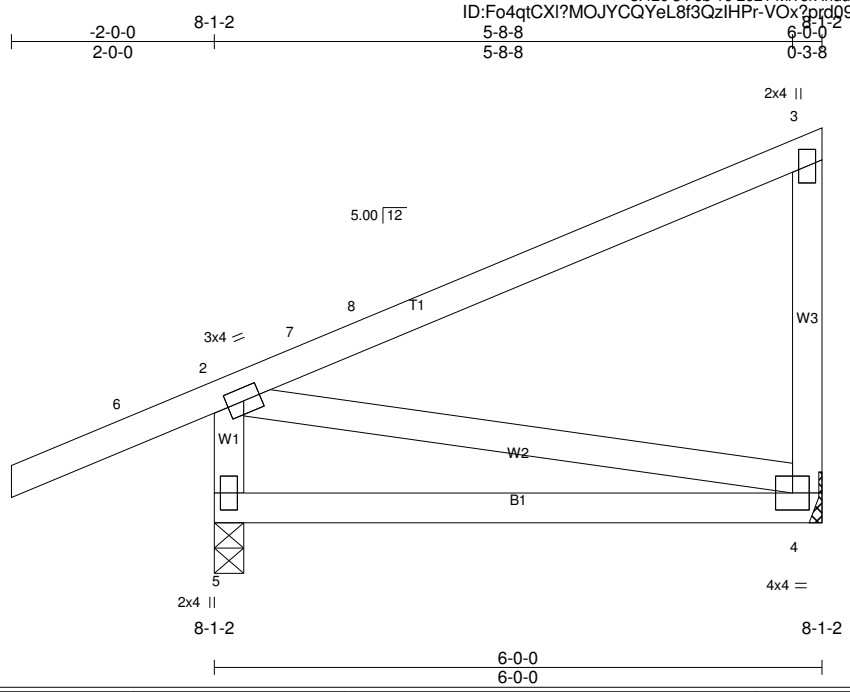

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.06 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.13 4-5 >538 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00 4 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 28 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-15 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=543/0-3-8 (min. 0-1-8), 4=278/Mechanical
Max Horz 5=187(LC 11)
Max Uplift 5=-174(LC 14), 4=-80(LC 11)
Max Grav 5=691(LC 19), 4=387(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-633/394, 3-4=-330/262
BOT CHORD 4-5=-388/266
WEBS 2-4=-204/336

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 174 lb uplift at joint 5 and 80 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AE2	GABLE	1	1	Job Reference (optional)

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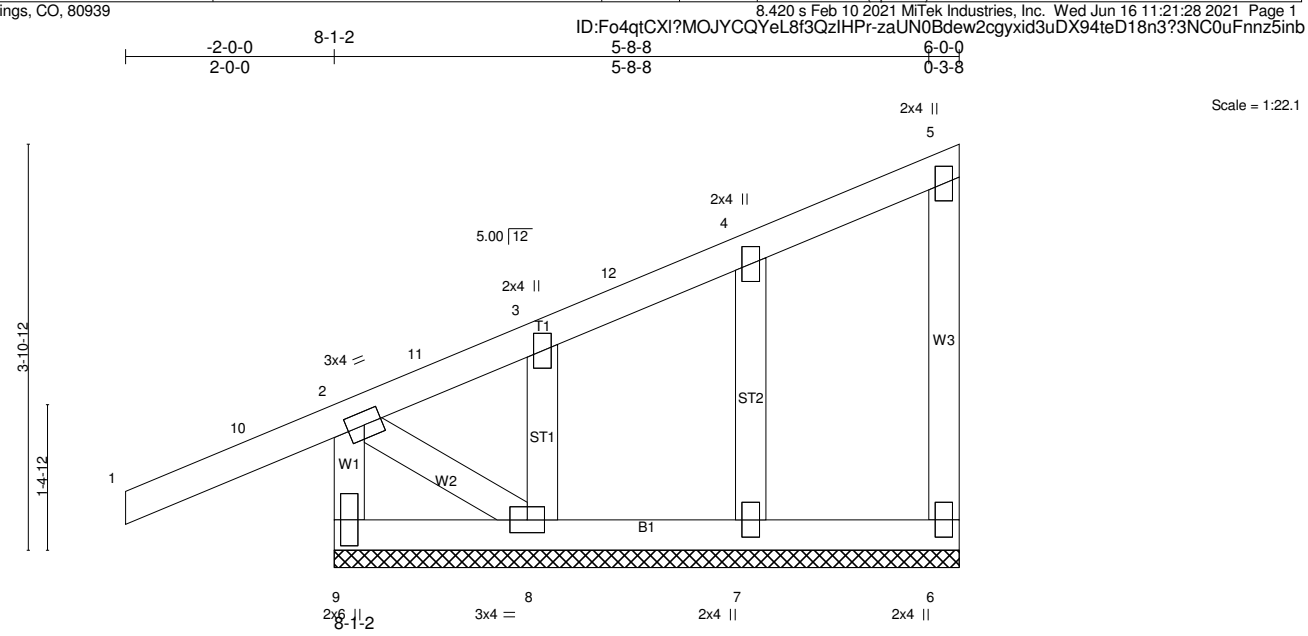

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) 0.01 1 n/r 120	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.03 1 n/r 120	
TCDL 15.0	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 6 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-P		Weight: 28 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-8 oc bracing.

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

REACTIONS. All bearings 6-0-0.
(lb) - Max Horz 9=187(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8 except 9=-139(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 6, 8 except 9=483(LC 19), 7=355(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-468/432, 2-11=-264/128, 3-11=-261/148
BOT CHORD 8-9=-515/307
WEBS 4-7=-312/330, 2-8=-260/538

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 5-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8 except (jt=lb) 9=139.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	AH	Diagonal Hip Girder	2	1	Job Reference (optional)

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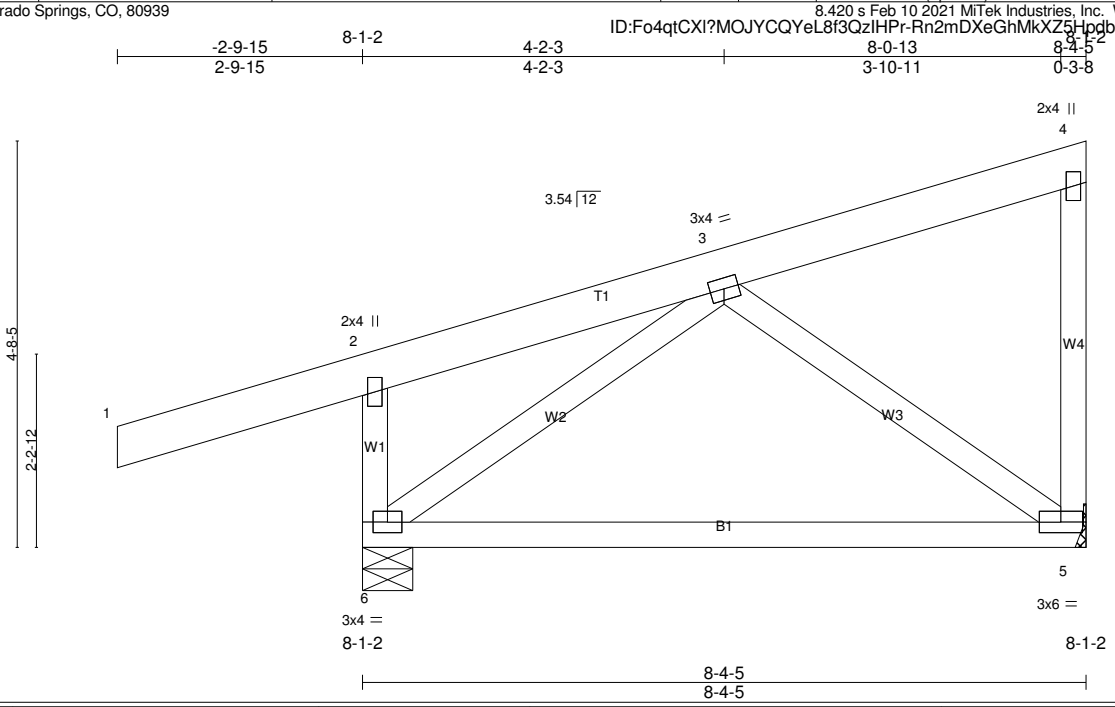

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.23	Vert(LL) -0.25 5-6 >381 240	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.86	Vert(CT) -0.52 5-6 >185 180		
TCDL 15.0	Lumber DOL 1.15	WB 0.18	Horz(CT) 0.00 5 n/a n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP		Weight: 48 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014				

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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) 6=640/0-7-0 (min. 0-1-8), 5=583/Mechanical
Max Horz 6=222(LC 7)
Max Uplift 6=-212(LC 10), 5=-134(LC 7)
Max Grav 6=772(LC 15), 5=715(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-468/253, 4-5=-354/103
BOT CHORD 5-6=-152/325
WEBS 3-6=-409/4, 3-5=-409/136

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 100 lb uplift at joint(s) except (jt=lb) 6=212, 5=134.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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=-90
Trapezoidal Loads (plf)
Vert: 2=-3(F=43, B=43)-to-4=-191(F=-50, B=-50), 6=0(F=10, B=10)-to-5=-42(F=-11, B=-11)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B1	Roof Special Girder	1	3	Job Reference (optional)

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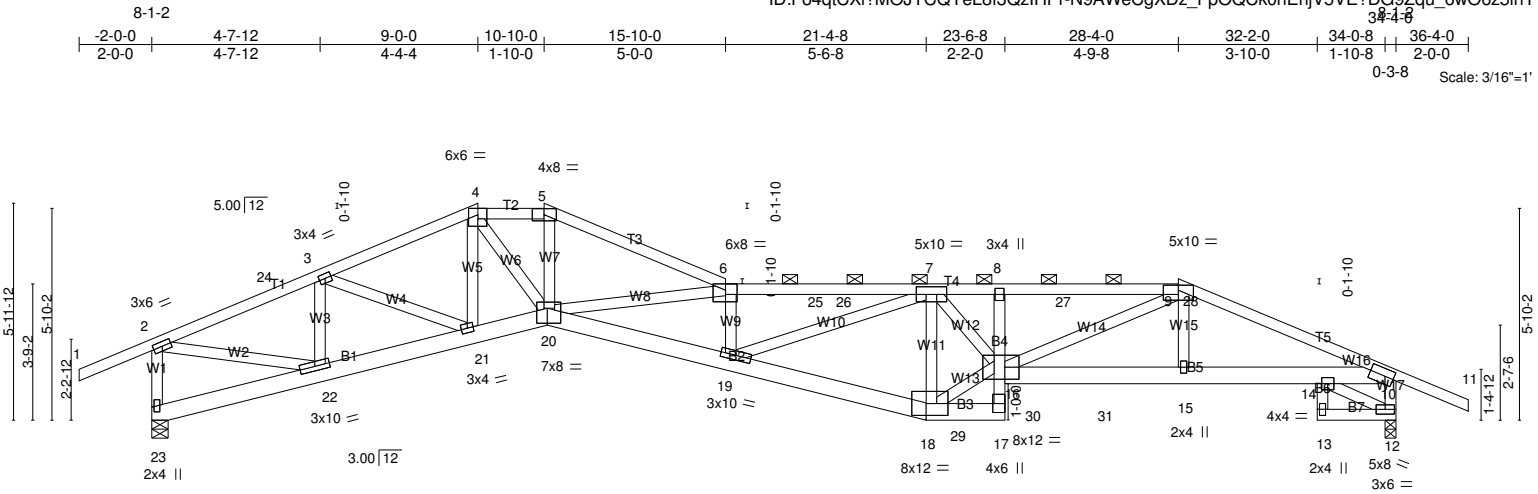

8-1-2 8-1-2

4-7-12 9-0-0 10-11-0 15-10-0 21-4-8 23-6-8 28-4-0 32-2-0 34-4-0

4-7-12 4-4-4 1-11-0 4-11-0 5-6-8 2-2-0 4-9-8 3-10-0 2-2-0

Plate Offsets (X,Y)-- [6:0-3-14,Edge], [9:0-5-0,0-1-11], [10:0-2-12,0-2-8], [16:0-4-12,0-4-0], [17:Edge,0-3-8], [18:0-7-4,0-4-0], [20:0-3-8,0-5-0]

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.48 18-19 >851 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.79 18-19 >516 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.94	Horz(CT) 0.28 12 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 520 lb FT = 20%
BCDL 10.0				

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E *Except*
B4,B6,B7: 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-7 max.): 4-5, 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 22-23,13-14,12-13.

REACTIONS. (lb/size) 23=3070/0-5-8 (min. 0-1-8), 12=4655/0-3-8 (min. 0-2-8)
Max Horz 23=-209(LC 8)
Max Uplift 23=-664(LC 10), 12=-994(LC 10)
Max Grav 23=3457(LC 34), 12=4791(LC 34)

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

TOP CHORD 2-24=-5045/878, 3-24=-4832/892, 3-4=-6951/1267, 4-5=-8636/1607, 5-6=-9539/1723, 6-25=-15248/2851, 25-26=-15249/2851, 7-26=-15253/2851, 7-8=-14986/2813, 8-27=-15246/2861, 27-28=-15243/2861, 9-28=-15240/2861, 9-10=-11141/2074, 2-23=-3367/659, 10-12=-4819/1002

BOT CHORD 21-22=-680/4696, 20-21=-980/6581, 19-20=-2807/15965, 18-19=-2056/11706, 18-29=-243/1365, 17-29=-243/1365, 16-17=-150/824, 8-16=-327/118, 16-30=-1759/10191, 30-31=-1759/10191, 15-31=-1759/10191, 14-15=-1771/10272, 10-14=-1779/10178

WEBS 3-22=-1978/370, 3-21=-307/2224, 4-21=-1253/209, 4-20=-722/4309, 5-20=-546/3314, 6-20=-6960/1367, 6-19=-2933/556, 7-19=-714/4459, 7-18=-6657/1194, 16-18=-2018/11511, 7-16=-941/5343, 9-16=-1028/5635, 9-15=-220/1409, 2-22=-724/4587

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc, 2x4 - 1 row 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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.
11) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=664, 12=994.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1808 lb down and 358 lb up at 22-2-8, 367 lb down and 98 lb up at 24-3-4, and 367 lb down and 98 lb up at 26-3-4, and 1054 lb down and 242 lb up at 28-3-4 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=-90, 2-4=-90, 4-5=-90, 5-6=-90, 6-9=-90, 9-10=-90, 10-11=-90, 20-23=-20, 18-20=-20, 17-18=-20, 14-16=-20, 12-13=-20
   Concentrated Loads (lb)
      Vert: 15=-1054(B) 29=-1808(B) 30=-367(B) 31=-367(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B2	Roof Special	1	1	Job Reference (optional)

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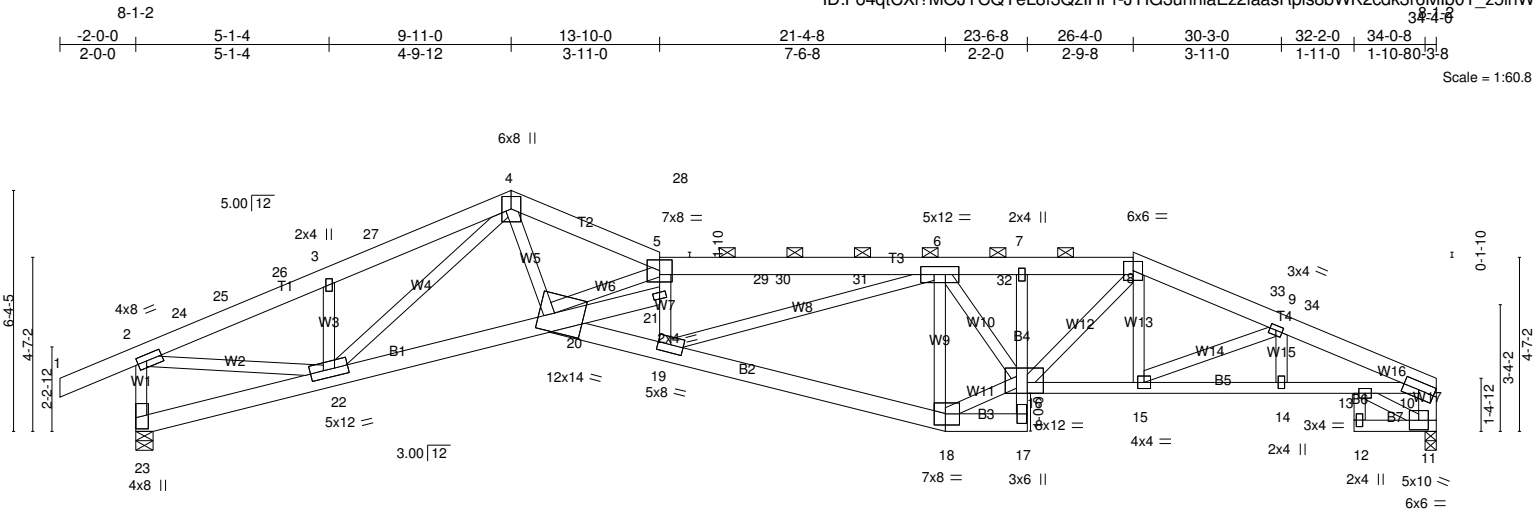

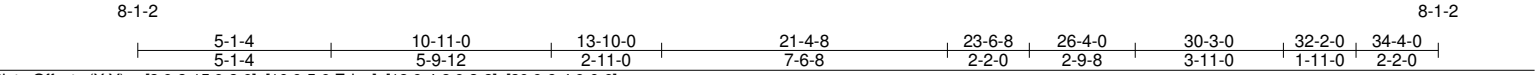

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [16:0-5-0,Edge], [18:0-4-8,0-3-8], [20:0-9-4,0-6-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.39	21	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.71	18-19	>578	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.37	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 199 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
B1,B2,B3: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
W5,W11: 2x4 SPF 1650F 1.5E, W17: 2x6 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-4 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

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

REACTIONS. (lb/size) 23=2067/0-5-8 (min. 0-2-10), 11=1862/0-3-8 (min. 0-3-0)
Max Horz 23=-198(LC 12)
Max Uplift23=-461(LC 14), 11=-351(LC 14)
Max Grav 23=2178(LC 37), 11=1904(LC 20)

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

TOP CHORD 2-24=-3464/793, 24-25=-3381/799, 25-26=-3367/800, 3-26=-3302/808, 3-27=-3487/895, 4-27=-3367/907, 4-28=-6048/1465, 5-28=-6072/1452, 5-29=-6732/1585, 29-30=-6732/1585, 30-31=-6732/1584, 6-31=-6735/1584, 6-32=-4535/1079, 7-32=-4535/1079, 7-8=-4584/1091, 8-33=-3987/961, 9-33=-3994/950, 9-34=-3976/983, 10-34=-4095/979, 2-23=-2135/596, 10-11=-2013/515

BOT CHORD 20-22=-839/3900, 20-21=-98/389, 19-20=-1564/7113, 18-19=-916/4348, 17-18=-76/325, 15-16=-808/3706, 14-15=-879/3678, 13-14=-879/3678, 10-13=-787/3407

WEBS 3-22=-629/213, 4-22=-1309/192, 4-20=-938/4445, 5-20=-1942/469, 19-21=-2128/542, 5-21=-2028/510, 6-19=-614/2946, 6-18=-2632/619, 16-18=-865/4169, 6-16=-184/776, 8-16=-254/1312, 8-15=-19/304, 9-15=-433/135, 2-22=-622/3079, 11-13=-104/311

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 9-11-0, Exterior(2R) 9-11-0 to 13-4-3, Interior(1) 13-4-3 to 26-4-0, Exterior(2R) 26-4-0 to 29-9-3, Interior(1) 29-9-3 to 34-1-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=461, 11=351.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B3	Roof Special	1	1	Job Reference (optional)

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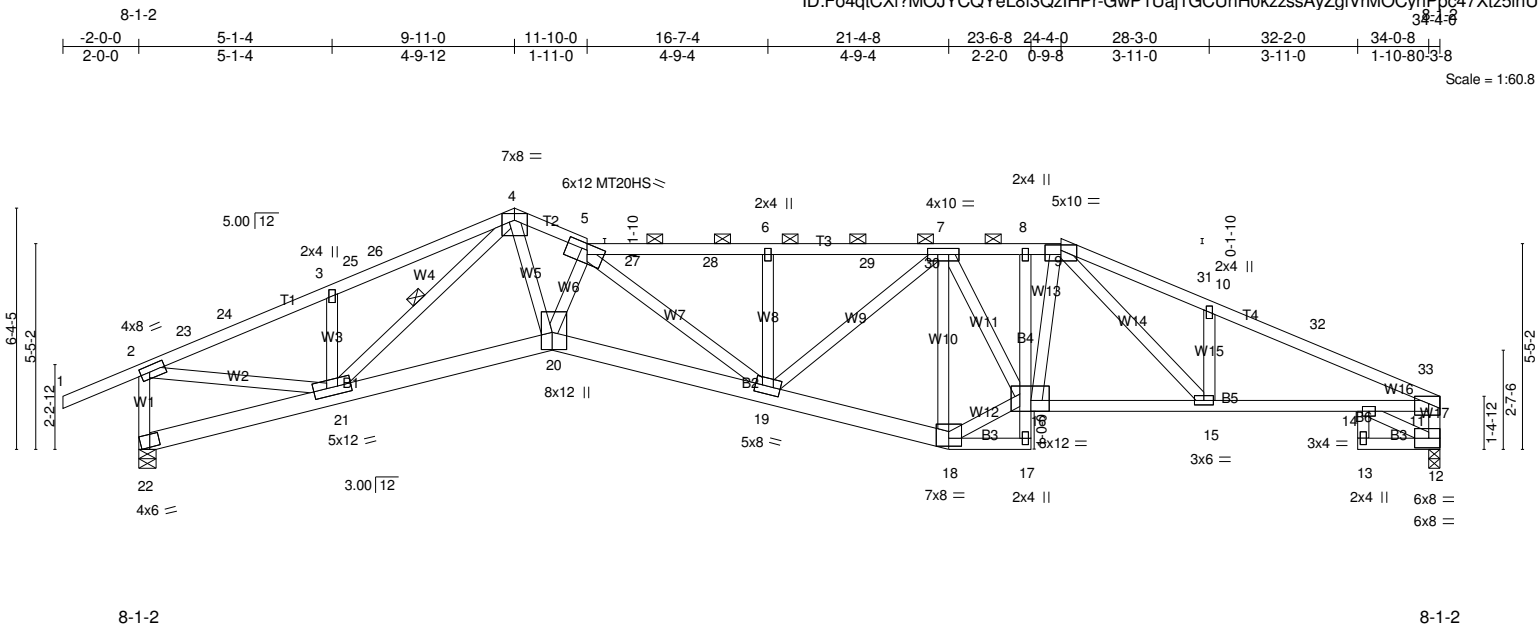

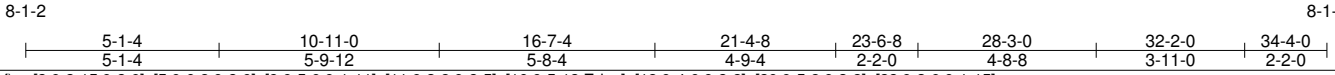

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [5:0-6-8,0-2-0], [9:0-5-0,0-1-11], [11:0-3-8,0-2-5], [16:0-5-12,Edge], [18:0-4-0,0-2-8], [20:0-5-8,0-3-8], [22:0-3-0,0-1-15]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.91	Vert(LL)	-0.37	19-20	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.76	Vert(CT)	-0.65	19-20	>626	180	MT20HS	148/108
TCDL	15.0	Rep Stress Incr YES	WB	0.99	Horz(CT)	0.34	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 176 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T3: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B1,B2: 2x6 SPF 2100F 1.8E, B5: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W5: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-5 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-21

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

REACTIONS. (lb/size) 22=2072/0-5-8 (min. 0-1-8), 12=1866/0-3-8 (min. 0-3-1)
Max Horz 22=-202(LC 12)
Max Uplift 22=-462(LC 14), 12=-352(LC 14)
Max Grav 22=2143(LC 37), 12=1956(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-3276/778, 23-24=-3194/785, 3-24=-3122/794, 3-25=-3296/881, 25-26=-3242/884, 4-26=-3189/896, 4-5=-5342/1339, 5-27=-4573/1087, 27-28=-4575/1087, 6-28=-4579/1086, 6-29=-4574/1085, 29-30=-4574/1085, 7-30=-4574/1085, 7-8=-3528/898, 8-9=-3552/903, 9-31=-3901/1039, 10-31=-3975/1028, 10-32=-3919/955, 32-33=-4018/945, 11-33=-4038/935, 2-22=-2079/567, 11-12=-2031/504
BOT CHORD 20-21=-836/3841, 19-20=-1249/5664, 18-19=-712/3382, 15-16=-712/3302, 14-15=-836/3623, 11-14=-738/3417
WEBS 3-21=-665/223, 4-21=-1357/162, 4-20=-893/4287, 5-20=-1831/427, 5-19=-1390/343, 6-19=-767/175, 7-19=-329/1707, 7-18=-2302/518, 16-18=-710/3434, 7-16=-173/920, 9-16=-203/1138, 10-15=-645/208, 2-21=-617/2948, 12-14=-94/254, 9-15=-195/997

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 9-11-0, Exterior(2E) 9-11-0 to 11-10-0, Interior(1) 11-10-0 to 24-4-0, Exterior(2R) 24-4-0 to 27-9-3 , Interior(1) 27-9-3 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=462, 12=352.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B4	Roof Special	1	1	Job Reference (optional)

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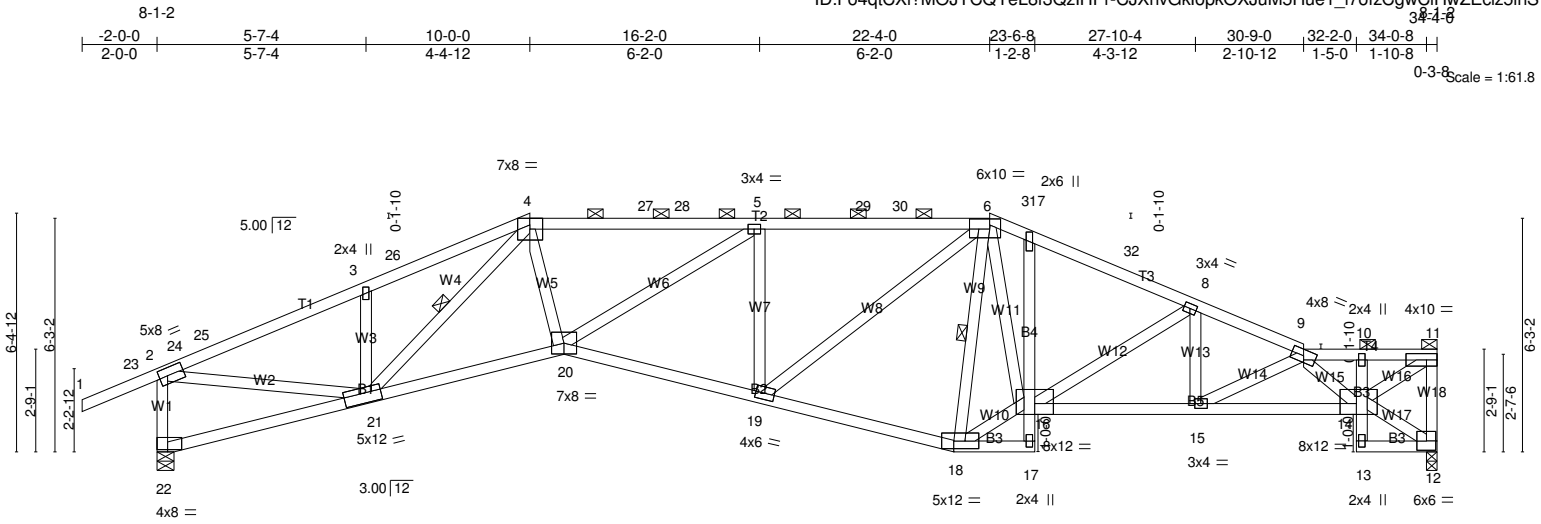

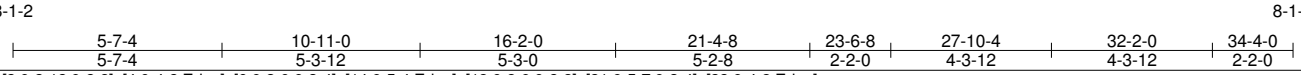

Plate Offsets (X,Y)-- [2:0-2-12,0-2-8], [4:0-4-2,Edge], [6:0-3-0,0-3-4], [14:0-5-4,Edge], [18:0-8-0,0-2-8], [21:0-5-7,0-3-4], [22:0-4-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.31	19-20	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.55	19-20	>742	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.38	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS							Weight: 172 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T2: 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
B2: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-14 max.): 4-6, 9-11.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-21, 6-18

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

REACTIONS. (lb/size) 12=1866/0-3-8 (min. 0-3-1), 22=2072/0-5-8 (min. 0-1-8)
Max Horz 22=224(LC 13)
Max Uplift 12=-352(LC 14), 22=-462(LC 14)
Max Grav 12=1960(LC 34), 22=2377(LC 35)

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

TOP CHORD 2-24=-3441/847, 24-25=-3411/847, 3-25=-3291/864, 3-26=-3402/945, 4-26=-3273/958, 4-27=-4320/1130, 27-28=-4321/1130, 5-28=-4325/1130, 5-29=-3904/968, 29-30=-3900/968, 6-30=-3899/969, 6-31=-3198/872, 7-31=-3225/869, 7-32=-3362/862, 8-32=-3428/854, 8-9=-4030/938, 9-10=-2345/546, 10-11=-2230/522, 11-12=-1878/463, 2-22=-2331/607

BOT CHORD 20-21=-993/3973, 19-20=-914/4028, 18-19=-606/2586, 7-16=-175/258, 15-16=-887/3657, 14-15=-970/3888, 10-14=-334/95

WEBS 3-21=-653/211, 4-21=-1417/193, 4-20=-328/1826, 5-20=-192/788, 5-19=-1314/356, 6-19=-373/1766, 6-18=-1879/488, 16-18=-682/2941, 6-16=-391/1879, 8-16=-812/169, 8-15=0/276, 9-15=-333/94, 9-14=-2222/519, 11-14=-691/2803, 2-21=-668/3015

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 10-0-0, Exterior(2R) 10-0-0 to 13-5-3, Interior(1) 13-5-3 to 22-4-0, Exterior(2R) 22-4-0 to 25-9-3, Interior(1) 25-9-3 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=352, 22=462.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B5	Roof Special	1	1	Job Reference (optional)

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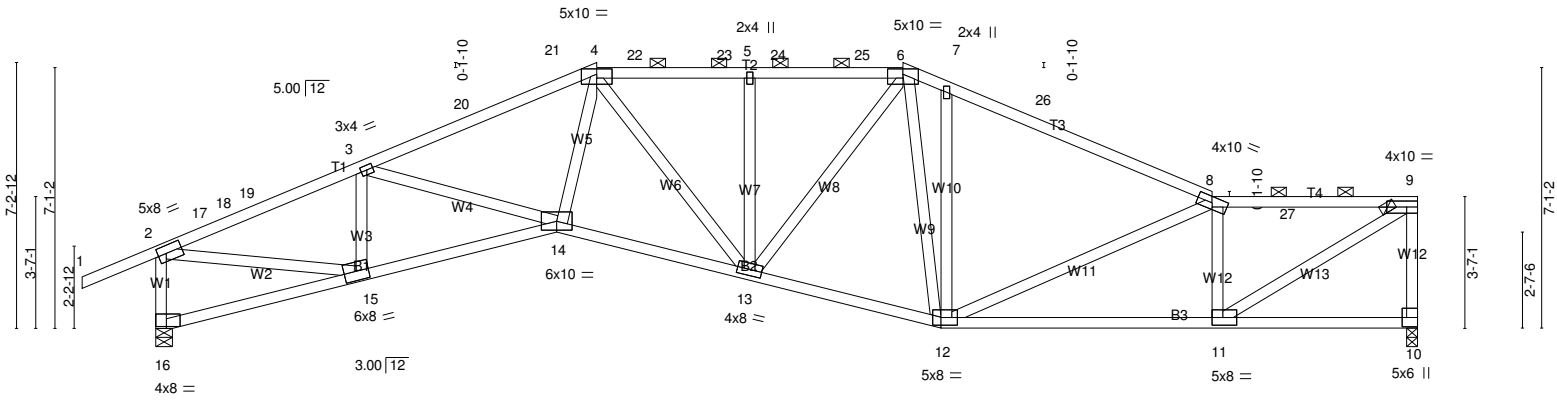
-2-0-0	8-1-2	5-7-4	12-0-0	16-2-0	20-4-0	21-4-8	28-9-0	34-0-8	8-1-2 34-4-0
2-0-0		5-7-4	6-4-12	4-2-0	4-2-0	1-0-8	7-4-8	5-3-8	0-3-8

Scale = 1:62.7



8-1-2	5-7-4	10-11-0	16-2-0	21-4-8	28-9-0	34-4-0	8-1-2
	5-7-4	5-3-12	5-3-0	5-2-8	7-4-8	5-7-0	

Plate Offsets (X,Y)-- [2:0-2-12,0-2-8], [4:0-5-0,0-1-11], [6:0-5-0,0-1-11], [10:Edge,0-3-8], [11:0-3-8,0-2-8], [12:0-5-4,0-2-8], [16:0-4-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.24	13-14	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	13-14	>962	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.23	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 169 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 DF 2400F 2.0E *Except*
T2: 2x4 SPF No.2, T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-1 max.): 4-6, 8-9.
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) 10=1866/0-3-8 (min. 0-3-1), 16=2072/0-5-8 (min. 0-1-8)
Max Horz 16=265(LC 13)
Max Uplift 10=-353(LC 14), 16=-461(LC 14)
Max Grav 10=1947(LC 35), 16=2542(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-3817/879, 17-18=-3715/883, 18-19=-3682/885, 3-19=-3559/896, 3-20=-4337/1100, 20-21=-4155/1102, 4-21=-4056/1112, 4-22=-2990/862, 22-23=-2990/862, 5-23=-2992/862, 5-24=-2993/862, 24-25=-2991/862, 6-25=-2991/862, 6-7=-2913/835, 7-26=-2616/718, 8-26=-2965/704, 8-27=-2734/652, 9-27=-2736/652, 9-10=-1898/477, 2-16=-2491/607
BOT CHORD 14-15=-961/3513, 13-14=-948/3541, 12-13=-653/2549, 11-12=-672/2802
WEBS 3-15=-1165/324, 3-14=-92/882, 4-14=-404/1716, 4-13=-723/202, 5-13=-719/185, 6-13=-275/1154, 6-12=-250/623, 7-12=-980/331, 8-12=-392/91, 8-11=-1554/451, 9-11=-711/3196, 2-15=-711/3400

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 12-0-0, Exterior(2R) 12-0-0 to 15-5-3, Interior(1) 15-5-3 to 20-4-0, Exterior(2R) 20-4-0 to 23-9-3, Interior(1) 23-9-3 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=353, 16=461.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B6	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:40 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-cuDwXHnA5k7zOndwmPRLfcNbds0ItFY8zuouC4z5inP

-2-0-0	5-7-4	10-11-0	14-0-0	18-4-0	21-4-8	25-11-0	26-9-0	30-4-12	34-0-8	34-4-0
2-0-0	5-7-4	5-3-12	3-1-0	4-4-0	3-0-8	4-6-8	0-10-0	3-7-12	3-7-12	0-3-8

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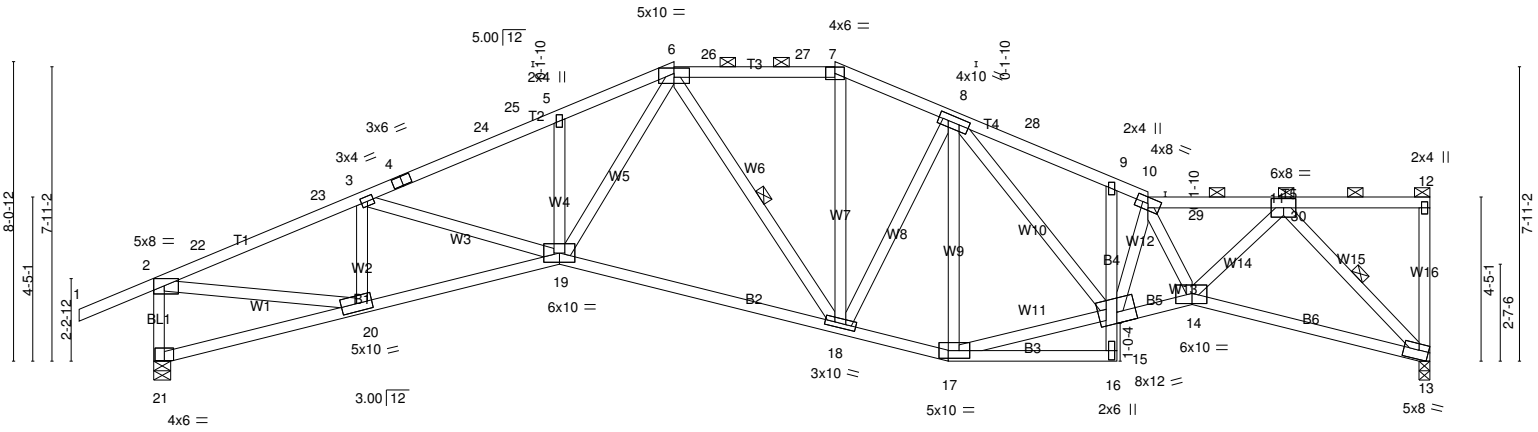

8-1-2	5-7-4	10-11-0	18-4-0	21-4-8	25-11-0	27-11-4	34-4-0	8-1-2
	5-7-4	5-3-12	7-5-0	3-0-8	4-6-8	2-0-4	6-4-12	

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-5-0,0-1-11], [13:0-3-2,Edge], [14:0-4-12,0-3-4], [17:0-7-0,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.33	18-19	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.61	18-19	>666	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.35	13	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 183 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x4 DF 2400F 2.0E, B5: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-7-11 max.): 6-7, 10-12.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 6-18, 11-13

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

REACTIONS. (lb/size) 13=1866/0-3-8 (min. 0-2-14), 21=2072/0-5-8 (min. 0-1-8)
Max Horz 21=307(LC 13)
Max Uplift 13=-354(LC 14), 21=-460(LC 14)
Max Grav 13=1924(LC 35), 21=2696(LC 36)

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

TOP CHORD 2-22=-4081/876, 22-23=-3935/884, 3-23=-3823/893, 3-4=-4841/1133, 4-24=-4693/1141, 24-25=-4659/1148, 5-25=-4561/1149, 5-6=-4754/1225, 6-26=-2646/712, 26-27=-2646/712, 7-27=-2646/712, 7-8=-2960/742, 8-28=-3971/948, 9-28=-4106/941, 9-10=-4082/909, 10-29=-3957/870, 11-29=-3959/870, 2-21=-2644/606
BOT CHORD 20-21=-294/254, 19-20=-1006/3758, 18-19=-834/3170, 17-18=-675/2801, 9-15=-275/89, 14-15=-1023/4254, 13-14=-596/2148
WEBS 3-20=-1258/316, 3-19=-151/801, 5-19=-512/173, 6-19=-605/2450, 6-18=-813/269, 7-18=-124/773, 8-17=-1228/330, 15-17=-640/2561, 8-15=-368/1551, 10-15=-1530/328, 10-14=-418/133, 11-14=-562/2741, 11-13=-3052/783, 2-20=-695/3614

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 14-0-0, Exterior(2R) 14-0-0 to 17-5-3, Interior(1) 17-5-3 to 18-4-0, Exterior(2R) 18-4-0 to 21-6-4, Interior(1) 21-6-4 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 13, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=354, 21=460.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B7	Roof Special	1	1	Job Reference (optional)

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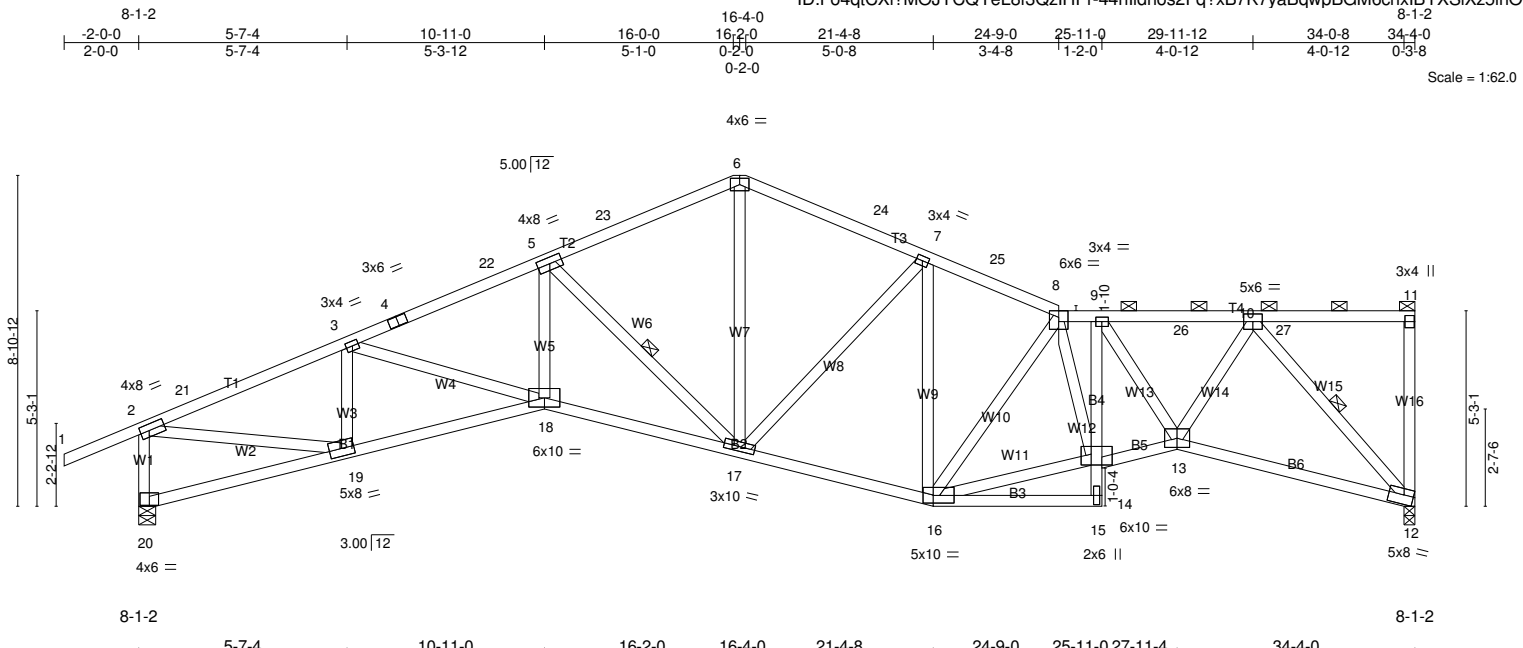

8-1-2 — 5-7-4 — 10-11-0 — 16-2-0 — 16-4-0 — 21-4-8 — 24-9-0 — 25-11-0 — 27-11-4 — 34-4-0 — 8-1-2

5-7-4 — 5-3-12 — 5-3-0 — 0-2-0 — 5-0-8 — 3-4-8 — 1-2-0 — 2-0-4 — 6-4-12

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [12:0-3-2,Edge], [14:0-6-12,0-3-8], [16:0-6-12,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.25	18	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.46	17-18	>881	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.31	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 179 lb	FT = 20%
BCDL	10.0											

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-15 max.): 8-11.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-17, 10-12

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

REACTIONS. (lb/size) 12=1866/0-3-8 (min. 0-2-13), 20=2072/0-5-8 (min. 0-1-8)
Max Horz 20=350(LC 13)
Max Uplift 12=-354(LC 14), 20=-460(LC 14)
Max Grav 12=1876(LC 33), 20=2072(LC 1)

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

TOP CHORD 2-21=-3244/818, 3-21=-3144/835, 3-4=-3982/1062, 4-22=-3892/1068, 5-22=-3817/1078, 5-23=-2451/658, 6-23=-2355/670, 6-24=-2355/685, 7-24=-2446/673, 7-25=-2459/668, 8-25=-2560/659, 8-9=-3071/742, 9-26=-2756/639, 10-26=-2756/639, 2-20=-2025/581

BOT CHORD 19-20=-349/295, 18-19=-1005/3001, 17-18=-1146/3710, 16-17=-670/2410, 9-14=-250/291, 13-14=-838/3152, 12-13=-533/1837

WEBS 3-19=-968/296, 3-18=-144/747, 5-18=-433/1499, 5-17=-2127/668, 7-17=-423/168, 7-16=-278/151, 8-16=-1326/310, 14-16=-806/2947, 8-14=-87/428, 9-13=-685/196, 10-13=-434/1932, 10-12=-2717/709, 2-19=-639/2886, 6-17=-318/1351

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 16-2-0, Exterior(2R) 16-2-0 to 19-7-3, Interior(1) 19-7-3 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 12, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=354, 20=460.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B8	Roof Special	1	1	Job Reference (optional)

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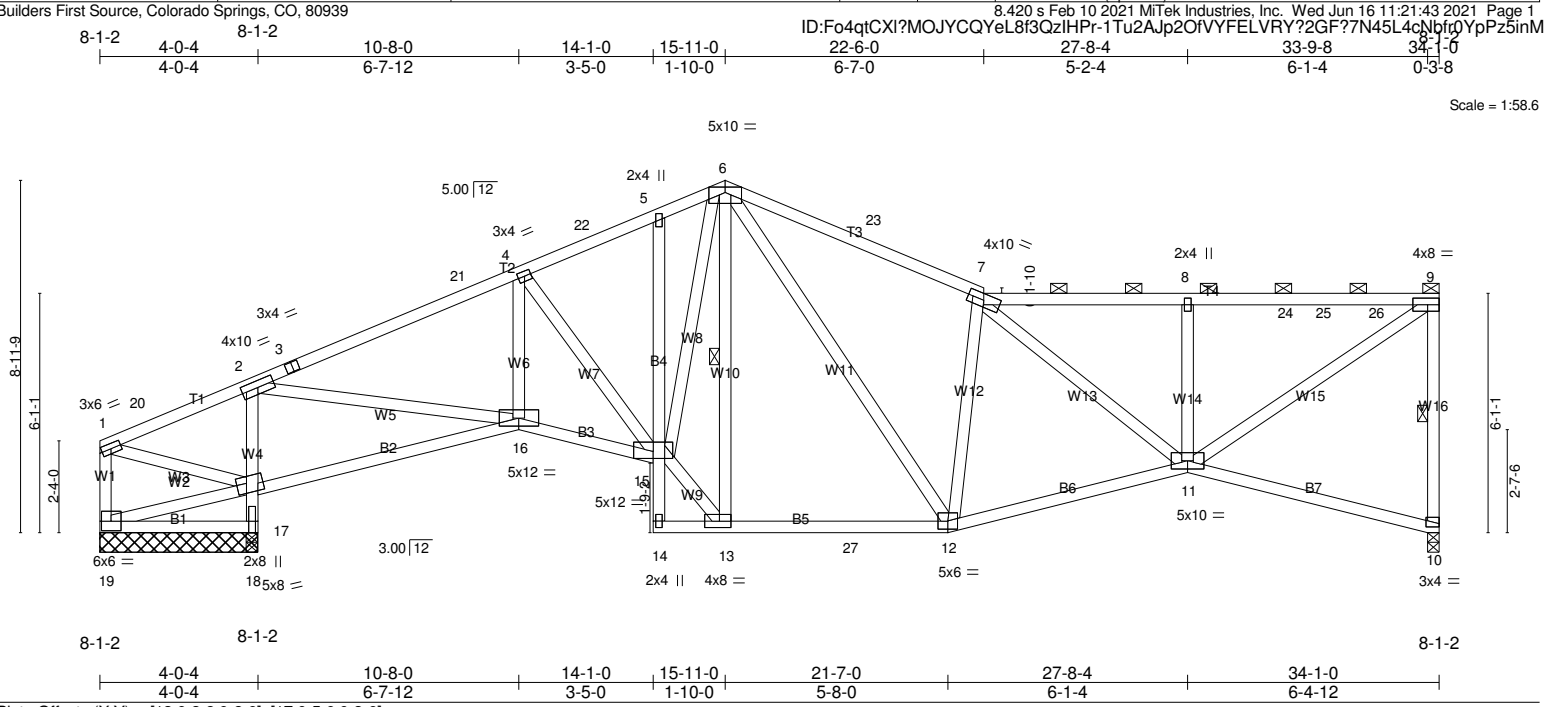

8-1-2	4-0-4	10-8-0	14-1-0	15-11-0	21-7-0	27-8-4	34-1-0	8-1-2
	4-0-4	6-7-12	3-5-0	1-10-0	5-8-0	6-1-4	6-4-12	

Plate Offsets (X,Y)-- [13:0-3-8,0-2-0], [17:0-5-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.15	11-12	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.28	16-17	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.13	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 188 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T3: 2x4 DF 2400F 2.0E, T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

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

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

REACTIONS. All bearings 4-0-4 except (jt=length) 10=0-3-8.
(lb) - Max Horz 19=350(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 10=-296(LC 14), 18=-521(LC 14), 19=-773(LC 21)
Max Grav All reactions 250 lb or less at joint(s) except 10=1756(LC 32), 18=3055(LC 21), 18=2836(LC 1), 19=262(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-465/1374, 2-20=-454/1384, 2-3=-1999/427, 3-21=-1897/437, 4-21=-1822/448, 4-22=-1718/490, 5-22=-1640/500, 5-6=-1607/502, 6-23=-1995/614, 7-23=-2094/602, 7-8=-2024/482, 8-24=-2020/481, 24-25=-2020/481, 25-26=-2020/481, 9-26=-2020/481, 9-10=-1698/403, 1-19=-290/790
BOT CHORD 16-17=-1254/307, 15-16=-590/1930, 13-27=-366/1283, 12-27=-366/1283, 11-12=-537/2080
WEBS 17-18=-2993/883, 2-17=-2210/643, 2-16=-723/2972, 4-15=-516/169, 13-15=-500/1796, 6-15=-414/1263, 6-13=-1066/405, 6-12=-281/1174, 7-12=-1315/371, 7-11=-278/276, 8-11=-933/220, 9-11=-538/2381, 1-17=-1290/501, 17-19=-353/291

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-6-10, Interior(1) 3-6-10 to 15-11-0, Exterior(2R) 15-11-0 to 19-3-14, Interior(1) 19-3-14 to 33-11-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 10, 521 lb uplift at joint 18 and 773 lb uplift at joint 19.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B9	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:45 2021 Page 1

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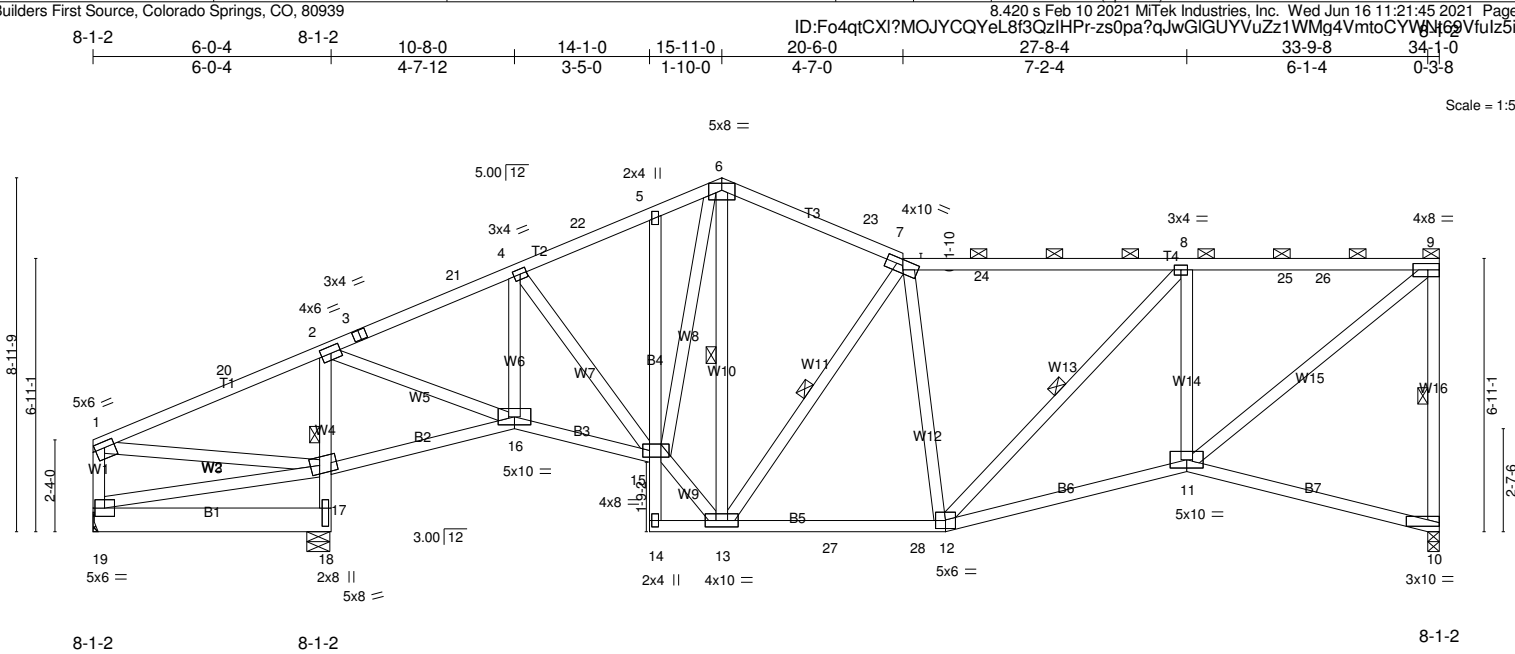

8-1-2	5-4-14	6-0-4	10-8-0	14-1-0	15-11-0	21-7-0	27-8-4	34-1-0
	5-4-14	0-7-6	4-7-12	3-5-0	1-10-0	5-8-0	6-1-4	6-4-12

Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [7:0-5-12,0-3-0], [15:0-2-0,0-2-0], [17:0-5-4,0-2-8], [18:0-5-8,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.10	11-12	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.20	11-12	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 205 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* T4: 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except* B1: 2x8 DF 1950F 1.7E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-15 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 5-6-7 oc bracing.
WEBS 1 Row at midpt 9-10, 2-18, 6-13, 7-13, 8-12

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

REACTIONS. (lb/size) 10=1446/0-3-8 (min. 0-2-13), 19=-162/Mechanical, 18=2433/0-7-0 (min. 0-3-0)
Max Horz 19=370(LC 13)
Max Uplift 10=-483(LC 14), 19=-274(LC 40), 18=-756(LC 14)
Max Grav 10=1873(LC 40), 19=180(LC 11), 18=2841(LC 21)

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

TOP CHORD 1-20=-472/1015, 2-20=-460/1108, 2-3=-1376/488, 3-21=-1351/490, 4-21=-1276/503, 4-22=-1532/643, 5-22=-1475/649, 5-6=-1475/693, 6-23=-1286/625, 7-23=-1358/613, 7-24=-1756/708, 8-24=-1761/708, 8-25=-1899/659, 25-26=-1899/659, 9-26=-1899/659, 9-10=-1771/578, 1-19=-128/339
BOT CHORD 16-17=-1060/392, 15-16=-541/1281, 5-15=-319/159, 13-27=-585/1664, 27-28=-585/1664, 12-28=-585/1664, 11-12=-601/1916
WEBS 17-18=-2743/1064, 2-17=-2275/887, 2-16=-738/2240, 4-16=-617/299, 4-15=-74/374, 13-15=-557/1562, 6-15=-446/944, 6-13=-307/323, 7-13=-1192/421, 7-12=-267/179, 8-12=-369/173, 8-11=-828/397, 9-11=-709/2333, 1-17=-1066/566, 17-19=-409/338

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-6-10, Interior(1) 3-6-10 to 15-11-0, Exterior(2R) 15-11-0 to 19-3-14, Interior(1) 19-3-14 to 33-11-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 483 lb uplift at joint 10, 274 lb uplift at joint 19 and 756 lb uplift at joint 18.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B10	Roof Special	1	1	Job Reference (optional)

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ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-R2aBoLrxhat76i447gYlutdfzH9BHyMdLpzFCQkz5inJ

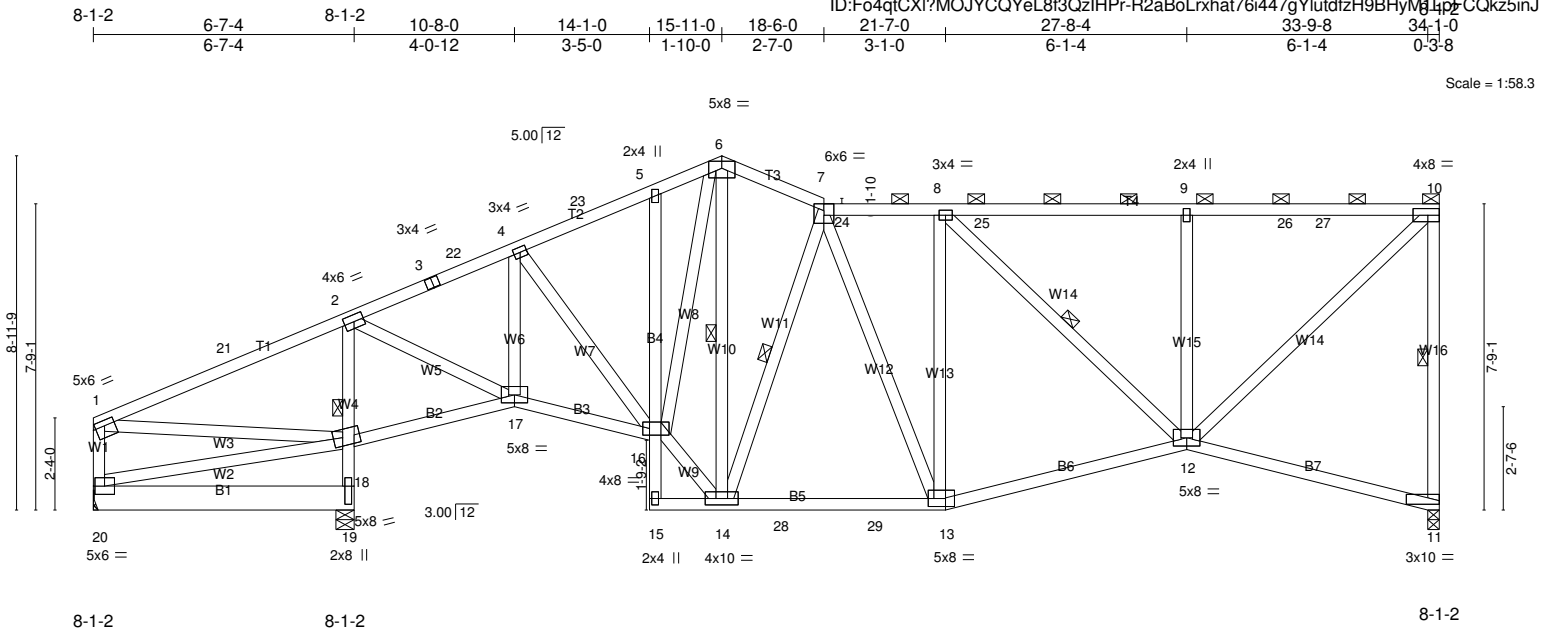

Plate Offsets (X,Y)-- [1:0-3-0,0-1-8], [13:0-5-4,0-2-8], [16:0-2-0,0-2-0], [18:0-5-4,0-2-8], [19:0-5-8,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.10	12-13	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.19	12-13	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.07	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 215 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x8 DF 1950F 1.7E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-3 max.): 7-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-11, 2-19, 6-14, 7-14, 8-12

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

REACTIONS. (lb/size) 11=1425/0-3-8 (min. 0-2-14), 20=-28/Mechanical, 19=2320/0-5-8 (min. 0-2-15)
Max Horz 20=389(LC 13)
Max Uplift 11=-478(LC 14), 20=-153(LC 40), 19=-715(LC 14)
Max Grav 11=1921(LC 40), 20=155(LC 11), 19=2726(LC 21)

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

TOP CHORD 1-21=-424/844, 2-21=-412/939, 2-3=-1221/438, 3-22=-1141/446, 4-22=-1137/451, 4-23=-1457/592, 5-23=-1404/598, 5-6=-1419/658, 6-7=-1274/608, 7-24=-1720/675, 8-24=-1726/674, 8-25=-1674/585, 9-25=-1674/585, 9-26=-1674/585, 26-27=-1674/585, 10-27=-1674/585, 10-11=-1816/578
BOT CHORD 17-18=-909/318, 16-17=-525/1127, 5-16=-355/193, 14-28=-512/1428, 28-29=-512/1428, 13-29=-512/1428, 12-13=-543/1678
WEBS 18-19=-2619/1029, 2-18=-2244/879, 2-17=-651/1989, 4-17=-690/285, 4-16=-101/506, 14-16=-566/1529, 6-16=-457/863, 6-14=-245/444, 7-14=-1176/408, 7-13=-86/545, 8-13=-760/233, 9-12=-965/342, 10-12=-640/2171, 1-18=-926/537, 18-20=-472/391

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-6-10, Interior(1) 3-6-10 to 15-11-0, Exterior(2E) 15-11-0 to 18-6-0, Interior(1) 18-6-0 to 33-11-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 478 lb uplift at joint 11, 153 lb uplift at joint 20 and 715 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B11	Roof Special	1	1	Job Reference (optional)

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ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-NRixD0tBDB7rL?ETE5aDzIi?v5mklqPKe7kJUdz5inH

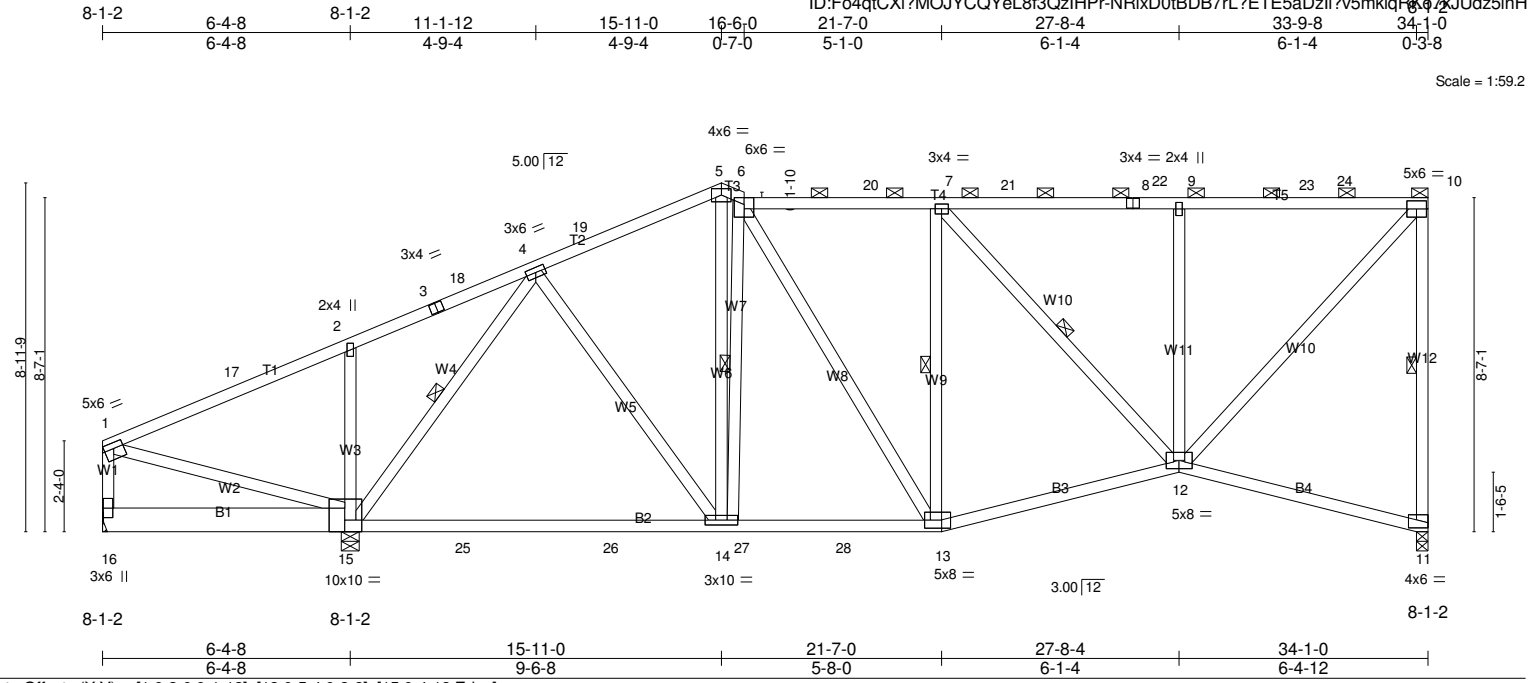

Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [13:0-5-4,0-2-8], [15:0-4-12,Edge]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.24 14-15 >999 240	MT20 197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC 0.87	Vert(CT) -0.39 14-15 >852 180	
TCDL	15.0	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.06 11 n/a n/a	
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 198 lb FT = 20%
BCDL	10.0				

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T5: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x8 DF 1950F 1.7E
WEBS 2x4 SPF No.2 *Except*
W12: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-0 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.
WEBS 1 Row at midpt 10-11, 4-15, 7-13, 7-12, 6-14

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

REACTIONS. (lb/size) 11=1451/0-3-8 (min. 0-3-0), 16=1/Mechanical, 15=2265/0-5-8 (min. 0-4-0)
Max Horz 16=409(LC 13)
Max Uplift 11=-482(LC 11), 16=-190(LC 44), 15=-766(LC 14)
Max Grav 11=2007(LC 40), 16=96(LC 11), 15=2751(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-280/535, 2-17=-268/593, 2-3=-116/442, 3-18=-107/482, 4-18=-101/514, 4-19=-1405/545, 5-19=-1363/557, 5-6=-1373/572, 6-20=-1645/635, 7-20=-1649/634, 7-21=-1532/542, 21-22=-1532/542, 8-22=-1532/542, 8-9=-1532/542, 9-23=-1532/542, 23-24=-1532/542, 10-24=-1532/542, 10-11=-1902/620
BOT CHORD 15-16=-519/411, 15-25=-478/818, 25-26=-478/818, 14-26=-478/818, 14-27=-527/1328, 27-28=-527/1328, 13-28=-527/1328, 12-13=-564/1645
WEBS 2-15=-624/360, 4-15=-2004/602, 4-14=-58/844, 5-14=-267/908, 6-13=-130/589, 7-13=-769/227, 9-12=-945/336, 10-12=-657/2148, 1-15=-635/431, 6-14=-1249/389

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-6-10, Interior(1) 3-6-10 to 15-11-0, Exterior(2E) 15-11-0 to 16-6-0, Interior(1) 16-6-0 to 33-11-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 482 lb uplift at joint 11, 190 lb uplift at joint 16 and 766 lb uplift at joint 15.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	B12	Half Hip	1	1	Job Reference (optional)

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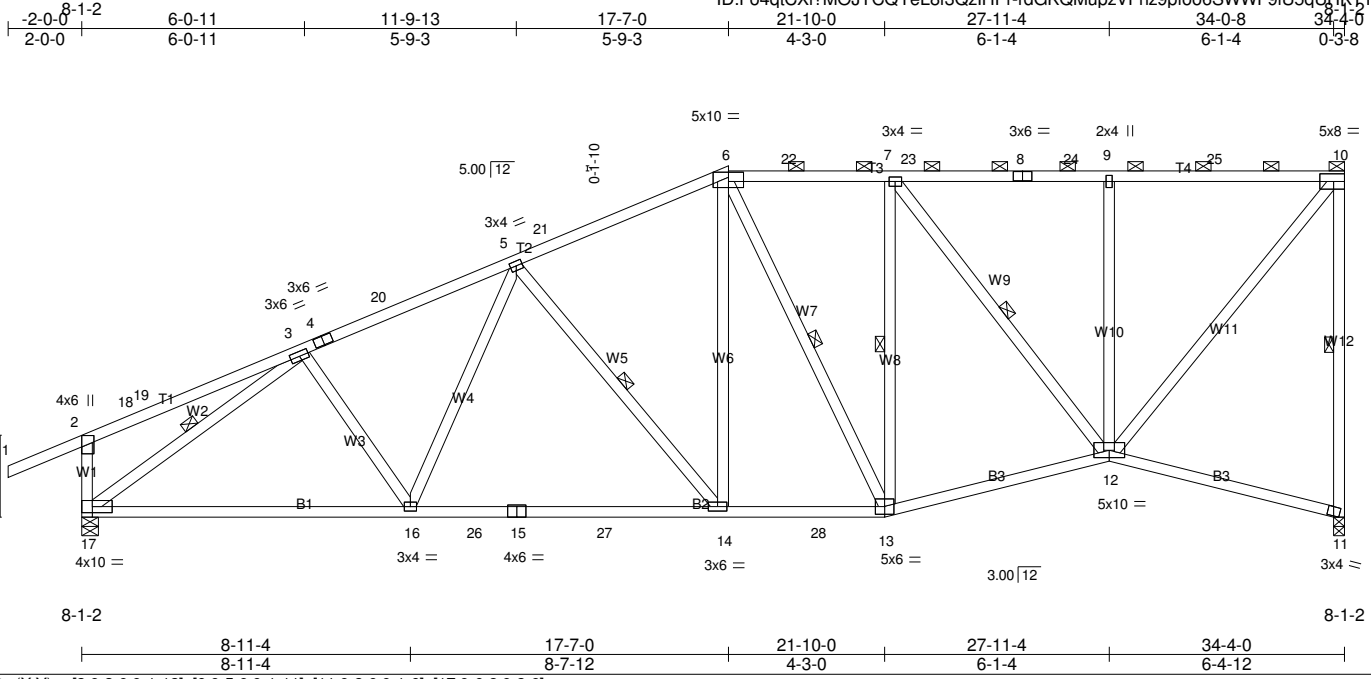

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [6:0-5-0,0-1-11], [11:0-2-0,0-1-6], [17:0-6-8,0-2-0]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.86	Vert(LL)	-0.25	14-16	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.88	Vert(CT)	-0.42	14-16	>983	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.99	Horz(CT)	0.11	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 188 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W12: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-7-6 oc bracing.
WEBS 1 Row at midpt 10-11, 5-14, 6-13, 7-13, 7-12, 3-17

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

REACTIONS. (lb/size) 17=2072/0-5-8 (min. 0-1-8), 11=1866/0-3-8 (min. 0-1-8)
Max Horz 17=459(LC 13)
Max Uplift 17=-454(LC 14), 11=-360(LC 14)
Max Grav 17=2468(LC 34), 11=2283(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-280/126, 3-4=-2964/566, 4-20=-2865/572, 5-20=-2741/585, 5-21=-2243/553, 6-21=-2108/570, 6-22=-1863/544, 7-22=-1867/543, 7-23=-1540/427, 8-23=-1540/427, 8-24=-1540/427, 9-24=-1540/427, 9-25=-1540/427, 10-25=-1540/427, 10-11=-2210/540, 2-17=-565/294
BOT CHORD 16-17=-861/2661, 16-26=-795/2618, 15-26=-795/2618, 15-27=-795/2618, 14-27=-795/2618, 14-28=-633/2016, 13-28=-633/2016, 12-13=-590/2022
WEBS 3-16=0/397, 5-16=-54/285, 5-14=-942/253, 6-14=-135/1009, 6-13=-660/158, 7-13=-416/323, 7-12=-701/188, 9-12=-936/245, 10-12=-587/2455, 3-17=-2979/508

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-5-3, Interior(1) 1-5-3 to 17-7-0, Exterior(2R) 17-7-0 to 22-5-4, Interior(1) 22-5-4 to 34-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 17, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint 17 and 360 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	BC1	Jack-Open	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 16 11:21:50 2021 Page 1
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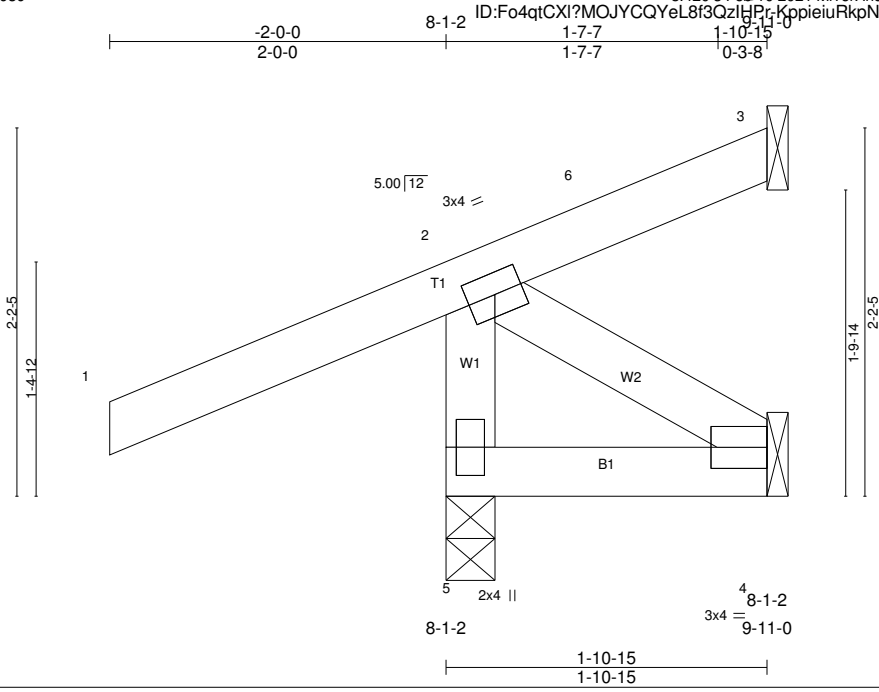

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=408/0-3-8 (min. 0-1-8), 3=-39/Mechanical, 4=18/Mechanical
Max Horz 5=69(LC 13)
Max Uplift 5=-158(LC 14), 3=-92(LC 18), 4=-33(LC 14)
Max Grav 5=558(LC 19), 3=48(LC 14), 4=35(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-541/324

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 158 lb uplift at joint 5, 92 lb uplift at joint 3 and 33 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	BC2	Jack-Open	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:51 2021 Page 1

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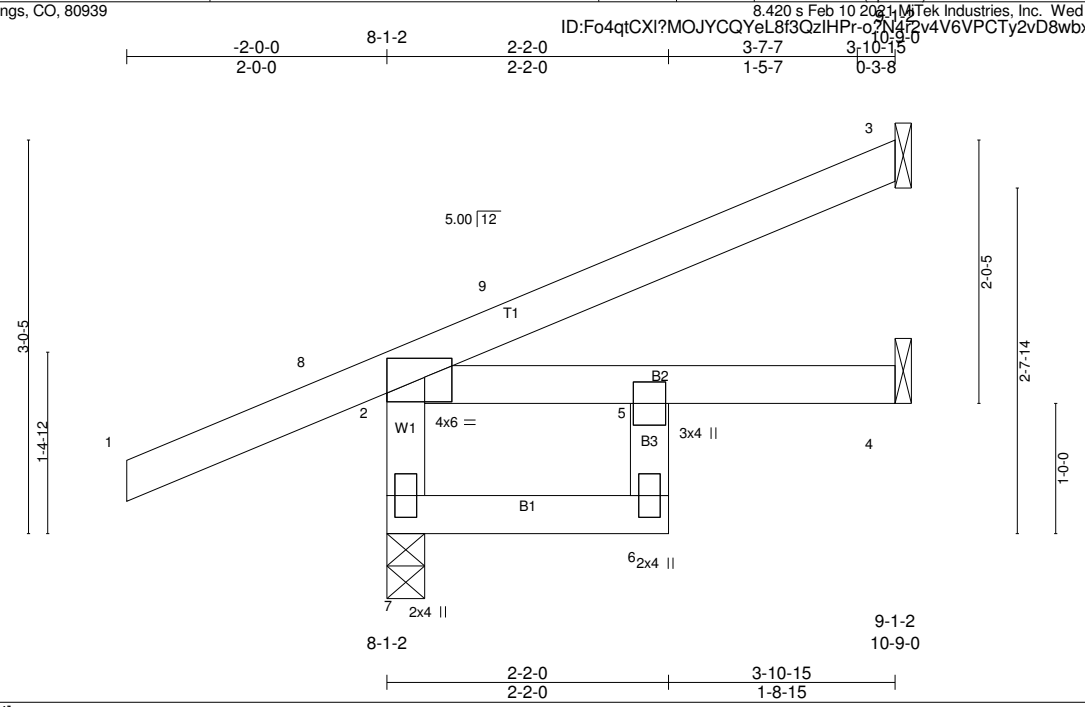

Plate Offsets (X,Y)-- [2:0-2-8,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.01	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MR							Weight: 16 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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) 7=481/0-3-8 (min. 0-1-8), 3=125/Mechanical, 4=32/Mechanical
Max Horz 7=149(LC 14)
Max Uplift 7=-118(LC 14), 3=-49(LC 14), 4=-3(LC 11)
Max Grav 7=661(LC 19), 3=178(LC 19), 4=82(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-633/331

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 118 lb uplift at joint 7, 49 lb uplift at joint 3 and 3 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	BE	Jack-Partial	3	1	Job Reference (optional)

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ID:Fo4qtCXl?MOJYCQYeL8f3QzIHPr-GCxS2OwiGQdGqdXETxf988tjziFphtTvjliXeOz5inD

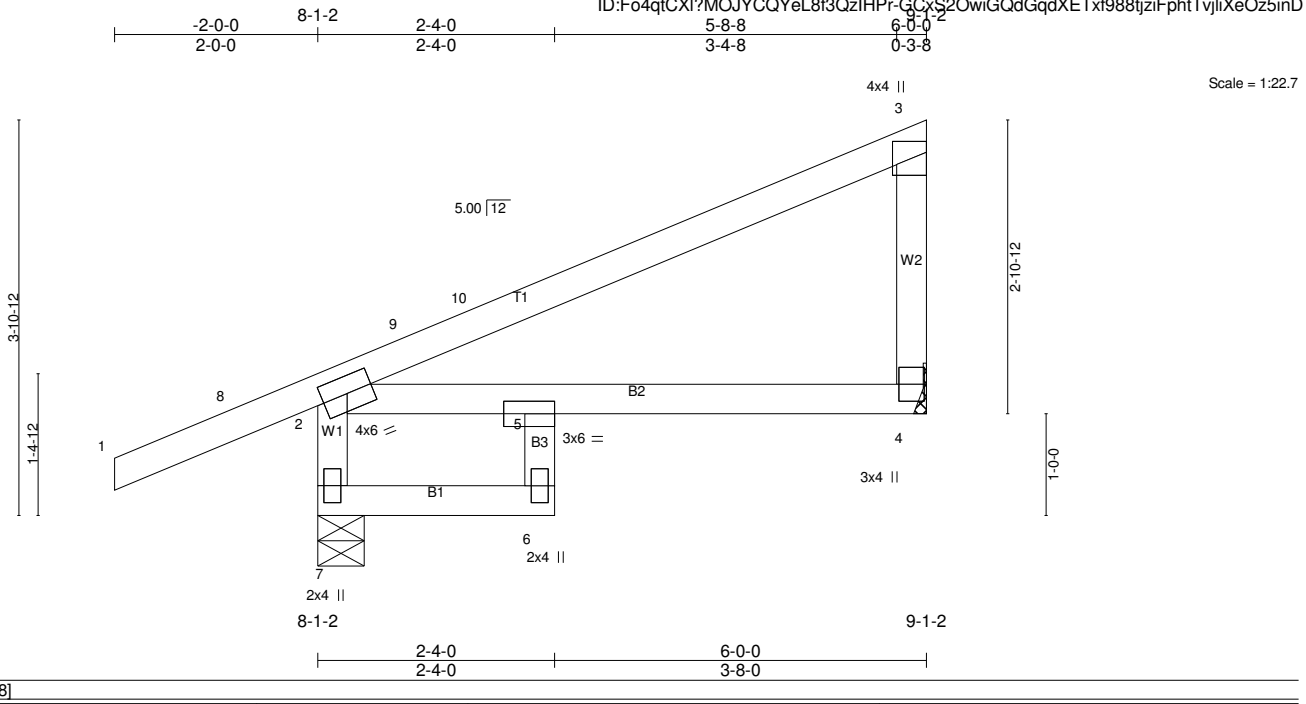

Plate Offsets (X,Y)-- [5:0-2-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.07	4-5	>980	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.08	4-5	>900	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MR							Weight: 24 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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) 7=543/0-5-8 (min. 0-1-8), 4=278/Mechanical
Max Horz 7=166(LC 11)
Max Uplift 7=-171(LC 14), 4=-78(LC 11)
Max Grav 7=691(LC 19), 4=387(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-670/388, 2-9=-250/22, 3-4=-293/232
BOT CHORD 6-7=-283/191

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 171 lb uplift at joint 7 and 78 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	BE1	Jack-Partial Girder	1	2	Job Reference (optional)

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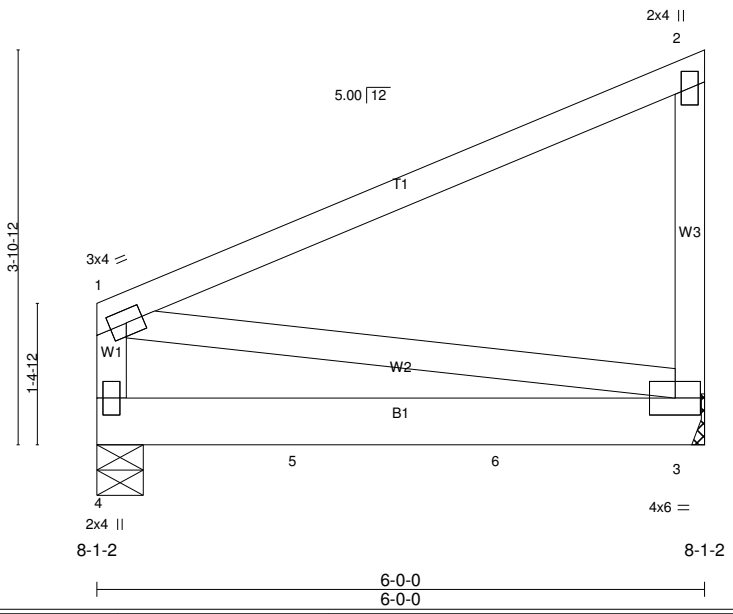

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.12 3-4 >567 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.21 3-4 >322 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.01	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 58 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

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

REACTIONS. (lb/size) 4=1664/0-5-8 (min. 0-1-8), 3=1716/Mechanical
Max Horz 4=164(LC 9)
Max Uplift 4=-299(LC 10), 3=-338(LC 7)
Max Grav 4=1776(LC 14), 3=1828(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-368/78, 2-3=-368/84

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: 2x6 - 2 rows staggered at 0-6-0 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 4 and 338 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1387 lb down and 263 lb up at 2-0-12, and 1366 lb down and 263 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-1387(F) 6=-1366(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	BH	Diagonal Hip Girder	1	1	Job Reference (optional)

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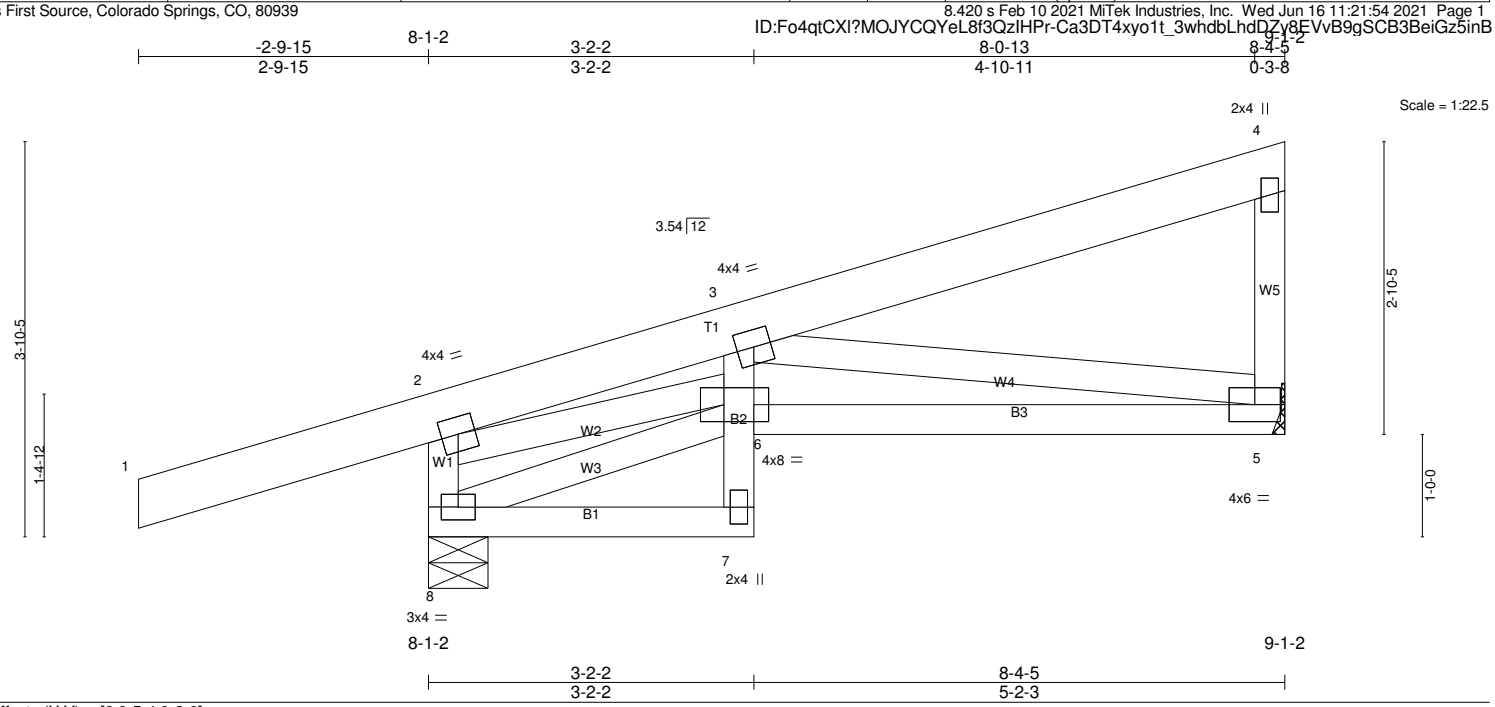

Plate Offsets (X,Y)-- [6:0-5-4,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.05	5-6	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.12	5-6	>826	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 48 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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=583/Mechanical, 8=640/0-7-0 (min. 0-1-8)
Max Horz 8=163(LC 7)
Max Uplift 5=-116(LC 10), 8=-218(LC 10)
Max Grav 5=715(LC 15), 8=772(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-747/251, 2-3=-1023/102, 4-5=-457/130
BOT CHORD 5-6=-220/987
WEBS 2-6=-59/930, 3-5=-1002/198

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 116 lb uplift at joint 5 and 218 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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=-90
Trapezoidal Loads (plf)
Vert: 2=-3(F=43, B=43)-to-4=-191(F=-50, B=-50), 8=0(F=10, B=10)-to-7=-15(F=2, B=2), 6=-15(F=2, B=2)-to-5=-42(F=-11, B=-11)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	C1	Hip Girder	1	2	Job Reference (optional)

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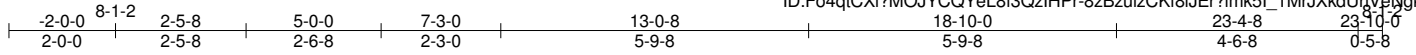

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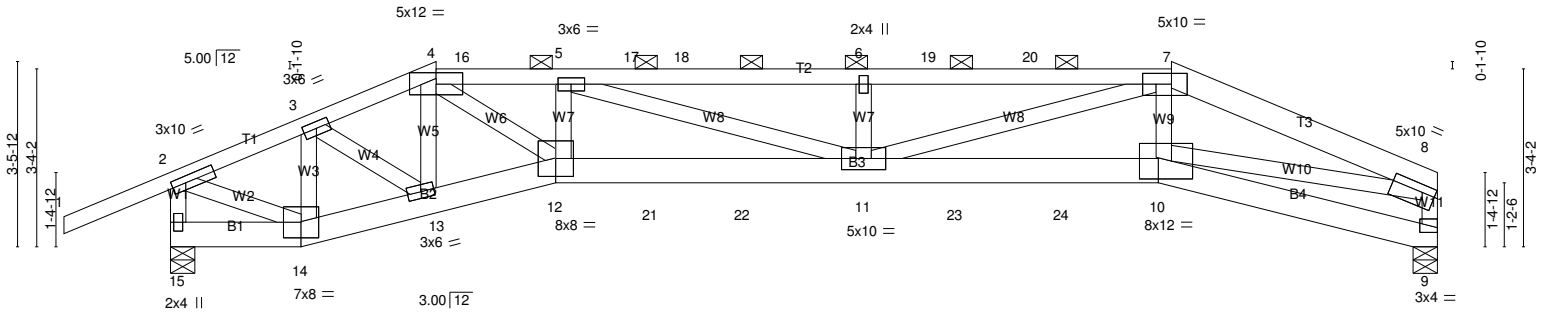

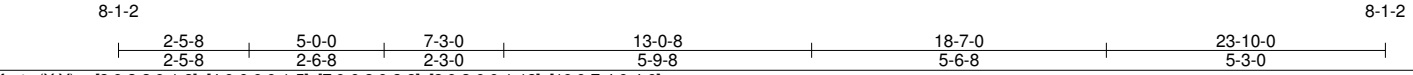

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-6-0,0-1-5], [7:0-6-8,0-2-8], [8:0-3-0,0-1-12], [10:0-7-4,0-4-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.36 11-12 >791 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.54 11-12 >523 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.88	Horz(CT) 0.19 9 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 237 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except* T2: 2x4 DF 2400F 2.0E, T3: 2x6 SPF 2100F 1.8E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-14 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. (lb/size) 15=2670/0-5-8 (min. 0-1-12), 9=2814/0-5-8 (min. 0-1-13)
Max Horz 15=112(LC 9)
Max Uplift 15=-643(LC 10), 9=-626(LC 10)
Max Grav 15=2750(LC 15), 9=2938(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3039/615, 3-4=-5123/1024, 4-16=-9488/1879, 5-16=-9494/1878, 5-17=-11779/2398, 17-18=-11779/2398, 6-18=-11779/2398, 6-19=-11779/2398, 19-20=-11779/2398, 7-20=-11779/2398, 7-8=-8264/1700, 2-15=-2672/647, 8-9=-2948/659
BOT CHORD 13-14=-550/2994, 12-13=-917/5066, 12-21=-1794/9611, 21-22=-1794/9611, 11-22=-1794/9611, 11-23=-1528/7800, 23-24=-1528/7800, 10-24=-1528/7800, 9-10=-99/509
WEBS 3-14=-1979/395, 3-13=-401/2236, 4-13=-1830/366, 4-12=-1142/5938, 5-12=-1525/334, 5-11=-533/2272, 6-11=-818/196, 7-11=-795/4162, 7-10=-262/1446, 2-14=-566/2953, 8-10=-1405/7132

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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.
11) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 643 lb uplift at joint 15 and 626 lb uplift at joint 9.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 916 lb down and 203 lb up at 9-0-8, 268 lb down and 91 lb up at 10-9-4, 268 lb down and 91 lb up at 12-9-4, 268 lb down and 91 lb up at 14-9-4, and 268 lb down and 91 lb up at 16-9-4, and 713 lb down and 189 lb up at 18-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-4=-90, 4-7=-90, 7-8=-90, 14-15=-20, 12-14=-20, 10-12=-20, 9-10=-20

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 11=-268(B) 10=-713(B) 21=-916(B) 22=-268(B) 23=-268(B) 24=-268(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	C2	Roof Special	1	1	Job Reference (optional)

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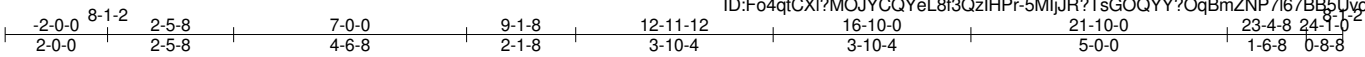

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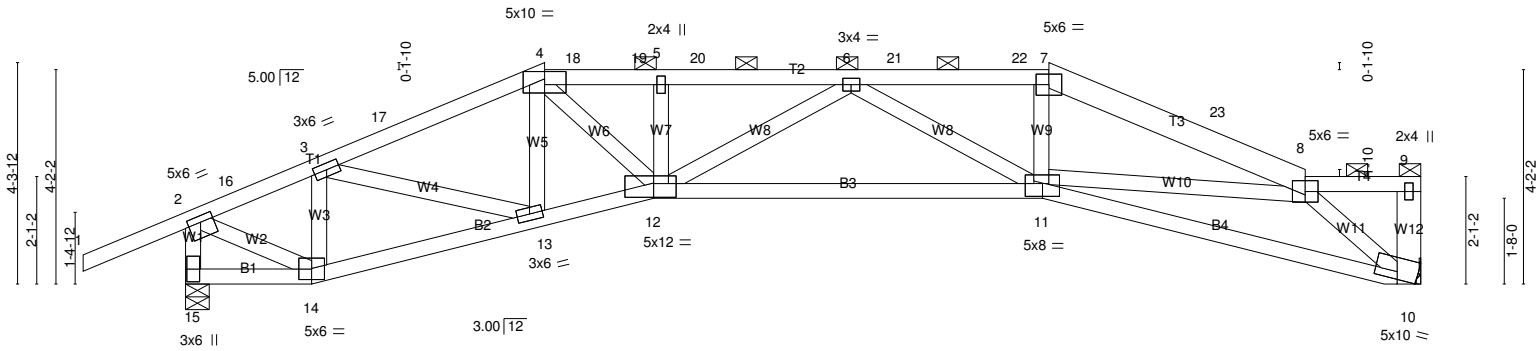

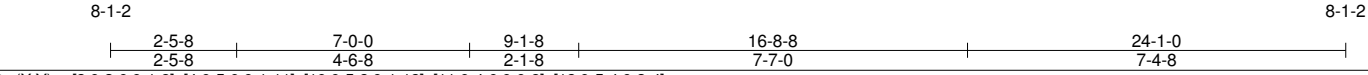

Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [4:0-5-0,0-1-11], [10:0-5-2,0-1-12], [11:0-4-0,0-0-8], [12:0-5-4,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.22	11-12	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.46	11-12	>623	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.22	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 105 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T3: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
B3: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W12: 2x6 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-15 max.): 4-7, 8-9.
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) 15=1506/0-5-8 (min. 0-2-11), 10=1295/Mechanical
Max Horz 15=155(LC 13)
Max Uplift 15=-357(LC 14), 10=-243(LC 14)
Max Grav 15=1718(LC 35), 10=1407(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-1490/407, 3-16=-1414/414, 3-17=-2690/733, 4-17=-2650/743, 4-18=-3742/996, 18-19=-3744/996, 5-19=-3748/995, 5-20=-3775/1001, 6-20=-3775/1001, 6-21=-3292/896, 21-22=-3292/896, 7-22=-3292/896, 7-23=-3506/917, 8-23=-3537/907, 2-15=-1696/527
BOT CHORD 13-14=-490/1455, 12-13=-708/2567, 11-12=-1040/4014, 10-11=-551/1858
WEBS 3-14=-987/321, 3-13=-215/1173, 4-13=-511/129, 4-12=-383/1842, 5-12=-492/139, 6-12=-296/100, 6-11=-841/222, 7-11=-169/976, 8-11=-312/1494, 8-10=-2392/704, 2-14=-380/1572

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 16-10-0, Exterior(2R) 16-10-0 to 19-10-0, Interior(1) 19-10-0 to 23-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 357 lb uplift at joint 15 and 243 lb uplift at joint 10.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	C3	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:21:59 2021 Page 1

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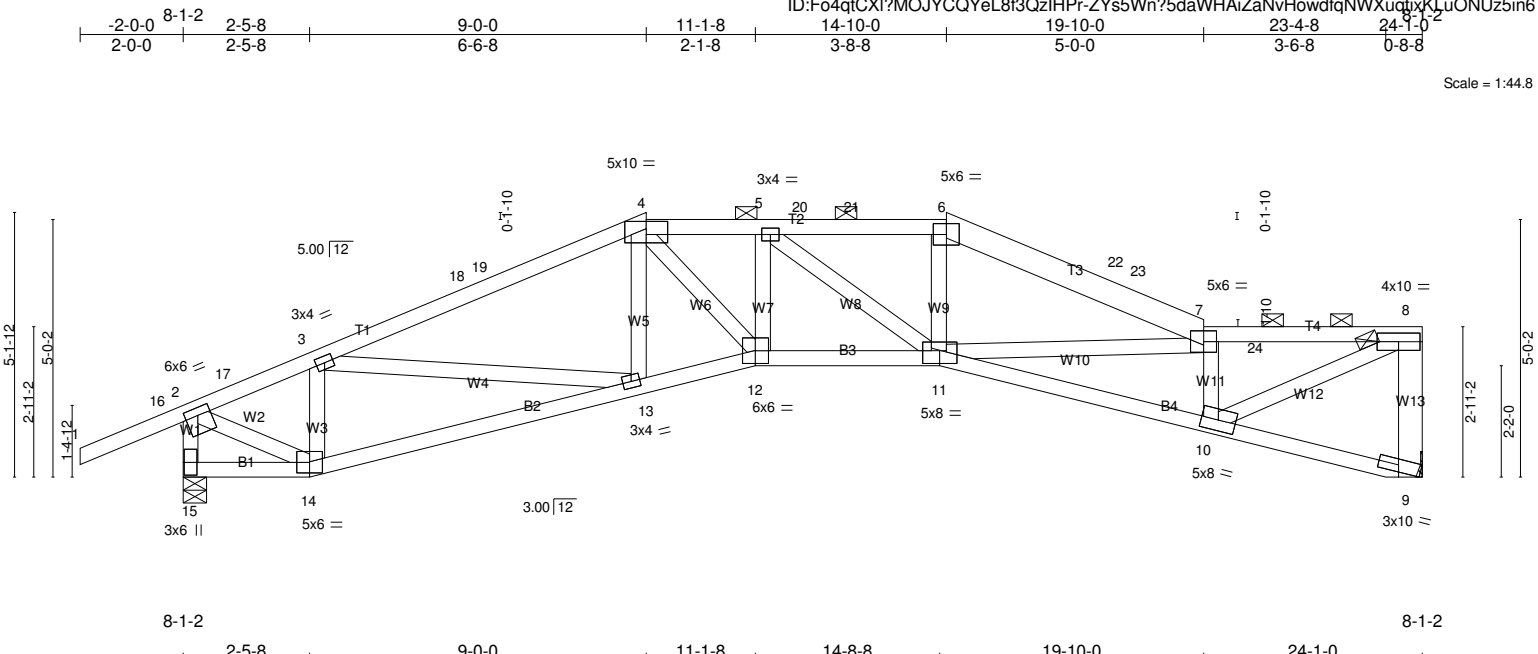

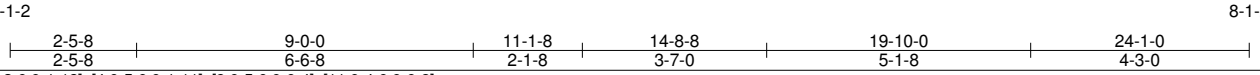

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-5-0,0-1-11], [9:0-5-0,0-0-4], [11:0-4-0,0-0-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.17 11-12 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.30 11-12 >951 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.19 9 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 109 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x4 SPF 1650F 1.5E, T3: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W13: 2x6 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-10-10 max.): 4-6, 7-8.
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) 15=1506/0-5-8 (min. 0-2-15), 9=1295/Mechanical
Max Horz 15=196(LC 13)
Max Uplift 15=-356(LC 14), 9=-243(LC 14)
Max Grav 15=1875(LC 36), 9=1386(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1719/421, 3-17=-1602/427, 3-18=-2851/781, 18-19=-2688/783, 4-19=-2681/793, 4-5=-3133/991, 5-20=-3092/935, 20-21=-3092/935, 6-21=-3092/935, 6-22=-3309/960, 22-23=-3331/950, 7-23=-3387/948, 7-24=-2538/663, 8-24=-2538/663, 8-9=-1353/388, 2-15=-1861/525
BOT CHORD 14-15=-257/118, 13-14=-583/1720, 12-13=-795/2567, 11-12=-967/3138, 10-11=-790/2774
WEBS 3-14=-1198/375, 3-13=-203/1089, 4-12=-311/1256, 5-12=-385/98, 5-11=-368/99, 6-11=-184/821, 7-11=-140/592, 7-10=-1729/543, 8-10=-735/2741, 2-14=-431/1956

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 23-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 15 and 243 lb uplift at joint 9.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	CC1	Jack-Open	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 5 2021 MiTek Industries, Inc. Wed Jun 16 11:22:00 2021 Page 1
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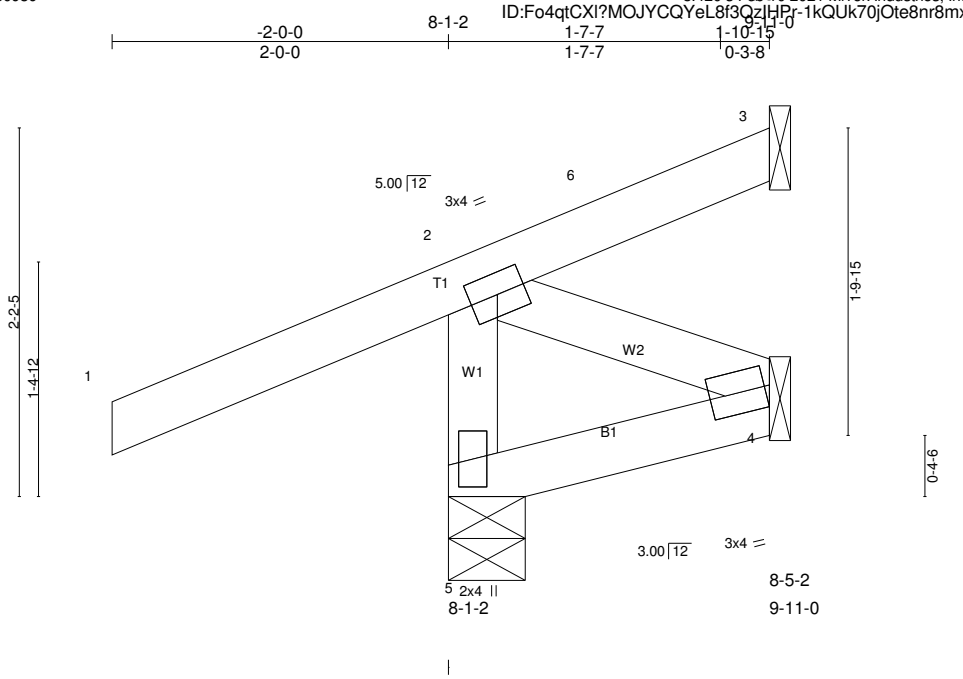

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.57	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/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 No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=408/0-5-8 (min. 0-1-8), 3=-39/Mechanical, 4=18/Mechanical
Max Horz 5=72(LC 13)
Max Uplift 5=-157(LC 14), 3=-92(LC 18), 4=-34(LC 14)
Max Grav 5=559(LC 19), 3=48(LC 14), 4=36(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-541/351

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 5, 92 lb uplift at joint 3 and 34 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	CC2	Jack-Open	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:01 2021 Page 1

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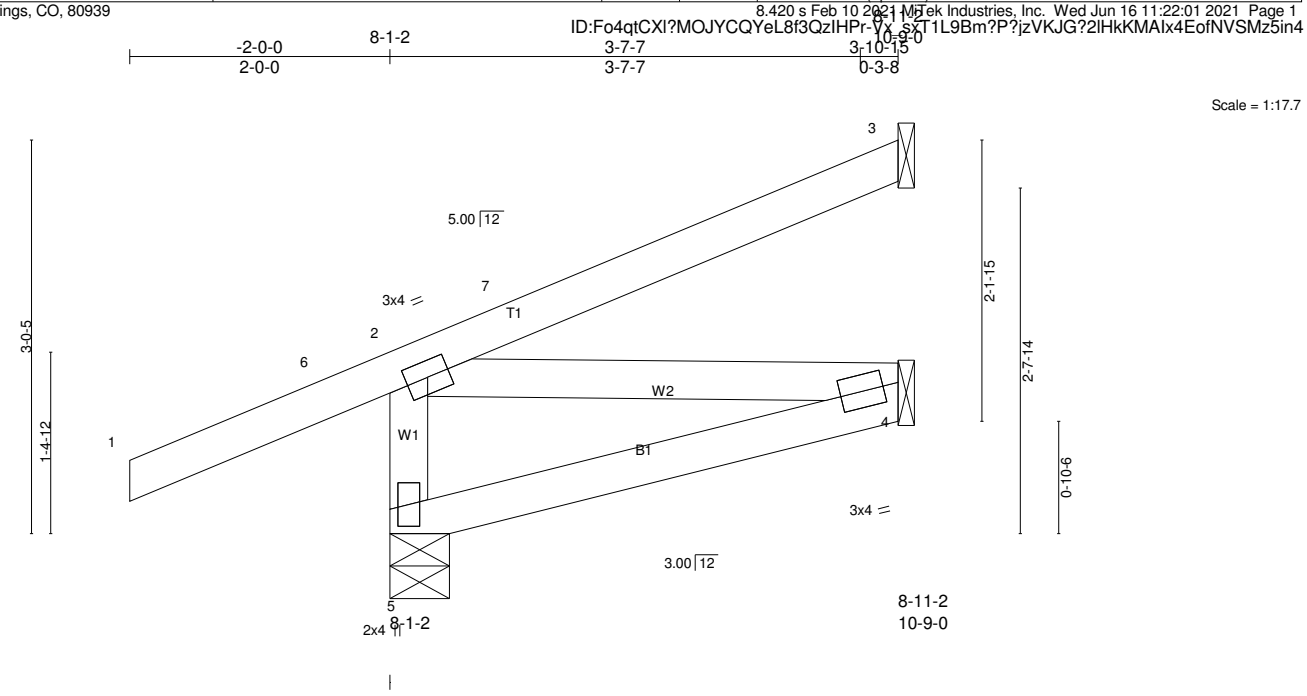

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.01 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.03 4-5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 17 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=454/0-5-8 (min. 0-1-8), 3=111/Mechanical, 4=38/Mechanical
Max Horz 5=152(LC 14)
Max Uplift 5=-128(LC 14), 3=-35(LC 11), 4=-26(LC 14)
Max Grav 5=634(LC 19), 3=159(LC 19), 4=76(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-596/357

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 5, 35 lb uplift at joint 3 and 26 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	CE	Jack-Open	5	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:02 2021 Page 1

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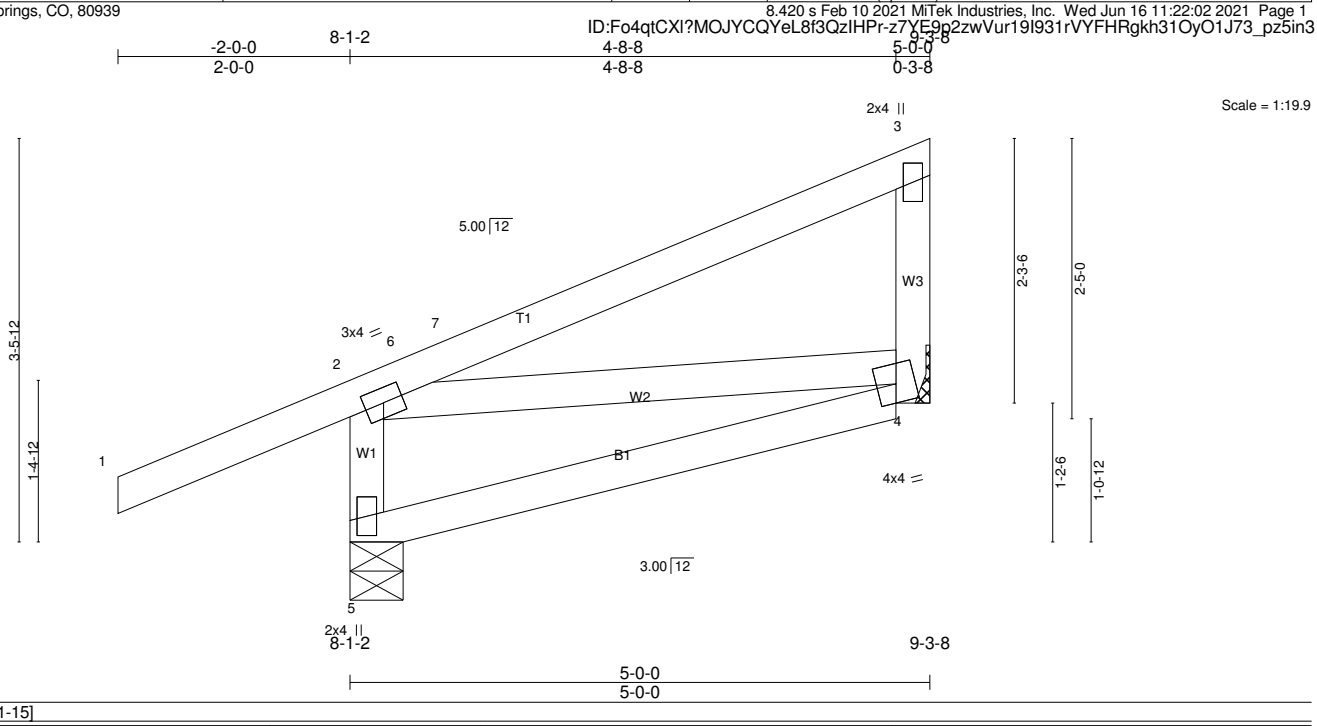

Plate Offsets (X,Y)-- [4:0-2-0,0-1-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.03	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	4-5	>930	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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=496/0-5-8 (min. 0-1-8), 4=215/Mechanical
Max Horz 5=146(LC 11)
Max Uplift 5=-161(LC 14), 4=-71(LC 11)
Max Grav 5=691(LC 19), 4=288(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-644/399
BOT CHORD 4-5=-336/217
WEBS 2-4=-164/288

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 5 and 71 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	CE1	Jack-Open Girder	1	**2**	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:03 2021 Page 1
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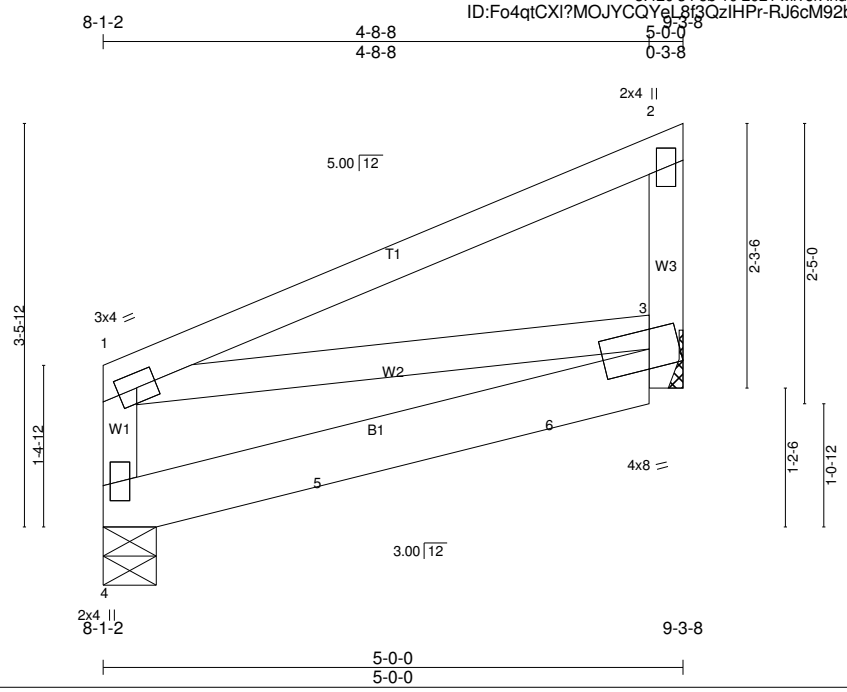

Plate Offsets (X,Y)-- [3:0-4-14,0-2-0]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.44	Vert(LL)	-0.02	3-4	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.23	Vert(CT)	-0.04	3-4	>999	180		
TCDL	15.0	Rep Stress Incr NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MP							Weight: 47 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 4=692/0-5-8 (min. 0-1-8), 3=847/Mechanical
Max Horz 4=123(LC 24)
Max Uplift 4=-117(LC 10), 3=-183(LC 7)
Max Grav 4=782(LC 14), 3=936(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-302/67, 2-3=-302/73

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: 2x6 - 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 4 and 183 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 510 lb down and 101 lb up at 1-10-4, and 510 lb down and 112 lb up at 3-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-510(F) 6=-510(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	CH	Diagonal Hip Girder	1	1	Job Reference (optional)

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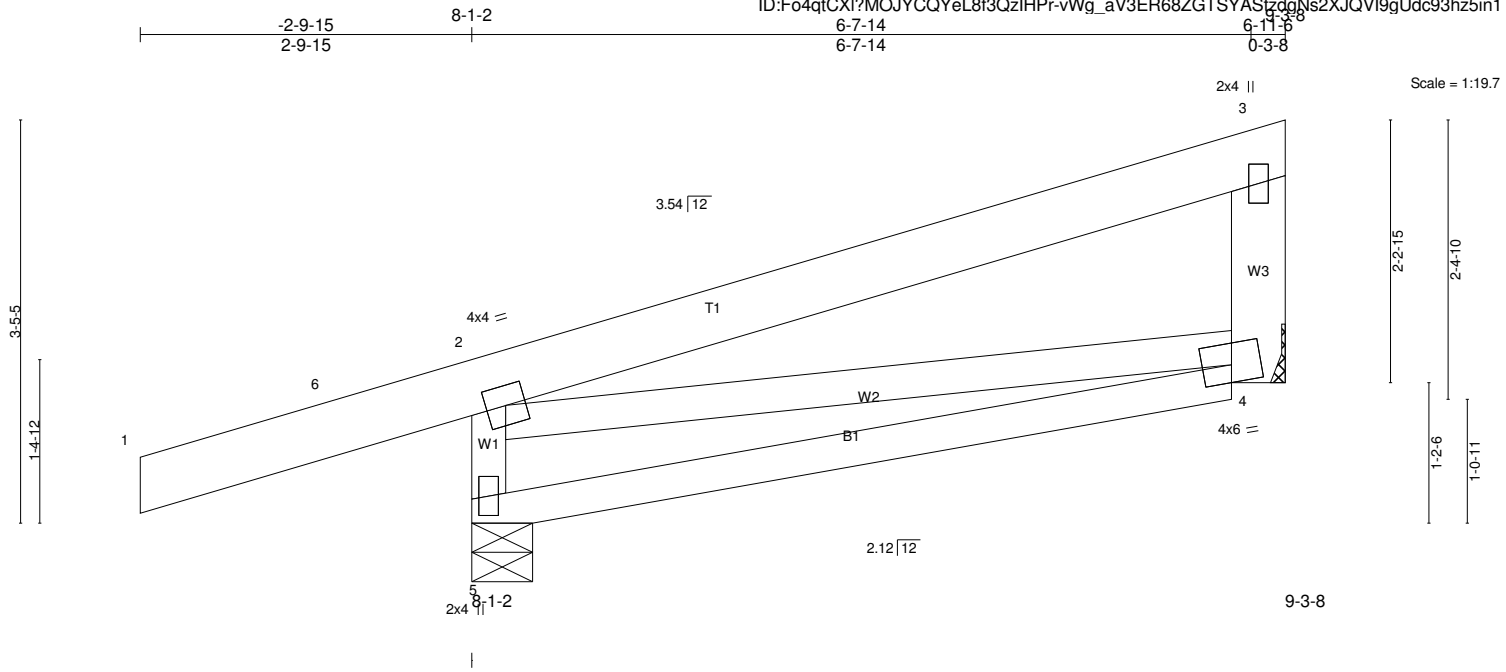

Plate Offsets (X,Y)-- [4:0-3-0,0-1-13]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.11	4-5	>694	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.21	4-5	>368	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 37 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W3: 2x6 SPF 2100F 1.8E

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

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

REACTIONS. (lb/size) 5=549/0-6-4 (min. 0-1-8), 4=369/Mechanical
Max Horz 5=126(LC 7)
Max Uplift 5=-208(LC 10), 4=-70(LC 7)
Max Grav 5=701(LC 15), 4=473(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-662/239, 3-4=-396/86

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 5 and 70 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) 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=-90
Trapezoidal Loads (plf)
Vert: 2=-3(F=43, B=43)-to-3=-159(F=-35, B=-35), 5=0(F=10, B=10)-to-4=-35(F=-8, B=-8)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	D1	Hip Girder	1	1	Job Reference (optional)

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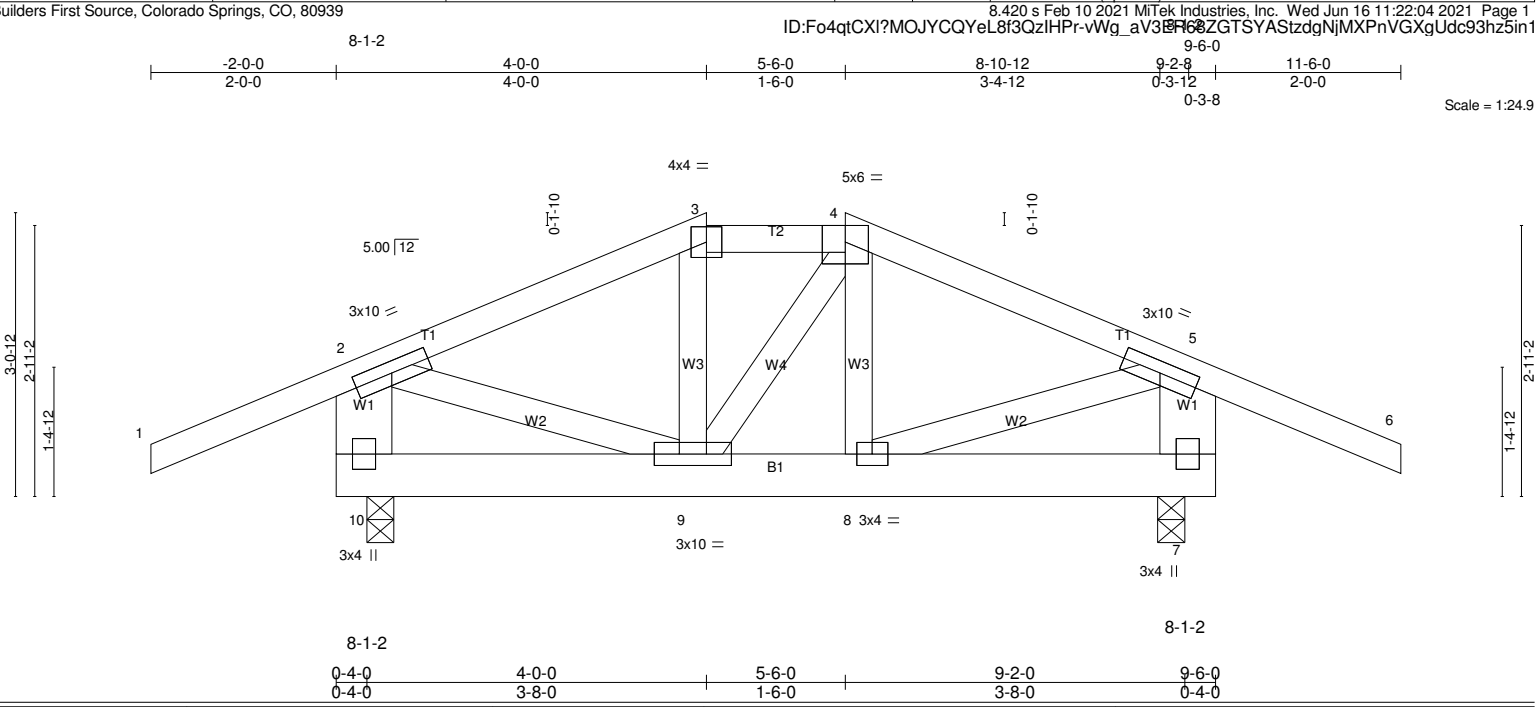

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.01 9 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.02 8-9 >999 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.19	Horz(CT) 0.00 7 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 54 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
W1: 2x8 DF 1950F 1.7E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 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) 10=928/0-3-8 (min. 0-1-8), 7=928/0-3-8 (min. 0-1-8)
Max Horz 10=-107(LC 8)
Max Uplift10=-370(LC 10), 7=-370(LC 10)
Max Grav 10=1178(LC 29), 7=1178(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-896/284, 3-4=-754/290, 4-5=-895/285, 2-10=-1115/377, 5-7=-1115/378
BOT CHORD 8-9=-162/748
WEBS 2-9=-205/782, 5-8=-206/783

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 370 lb uplift at joint 10 and 370 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Girder carries hip end with 4-0-0 end setback.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 243 lb down and 75 lb up at 5-6-0, and 243 lb down and 75 lb up at 4-0-0 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=-90, 2-3=-90, 3-4=-45(F=45), 4-5=-90, 5-6=-90, 9-10=-20, 8-9=-112(F=-92), 7-8=-20
Concentrated Loads (lb)
Vert: 9=-183(F) 8=-183(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	D2	Common	4	1	Job Reference (optional)

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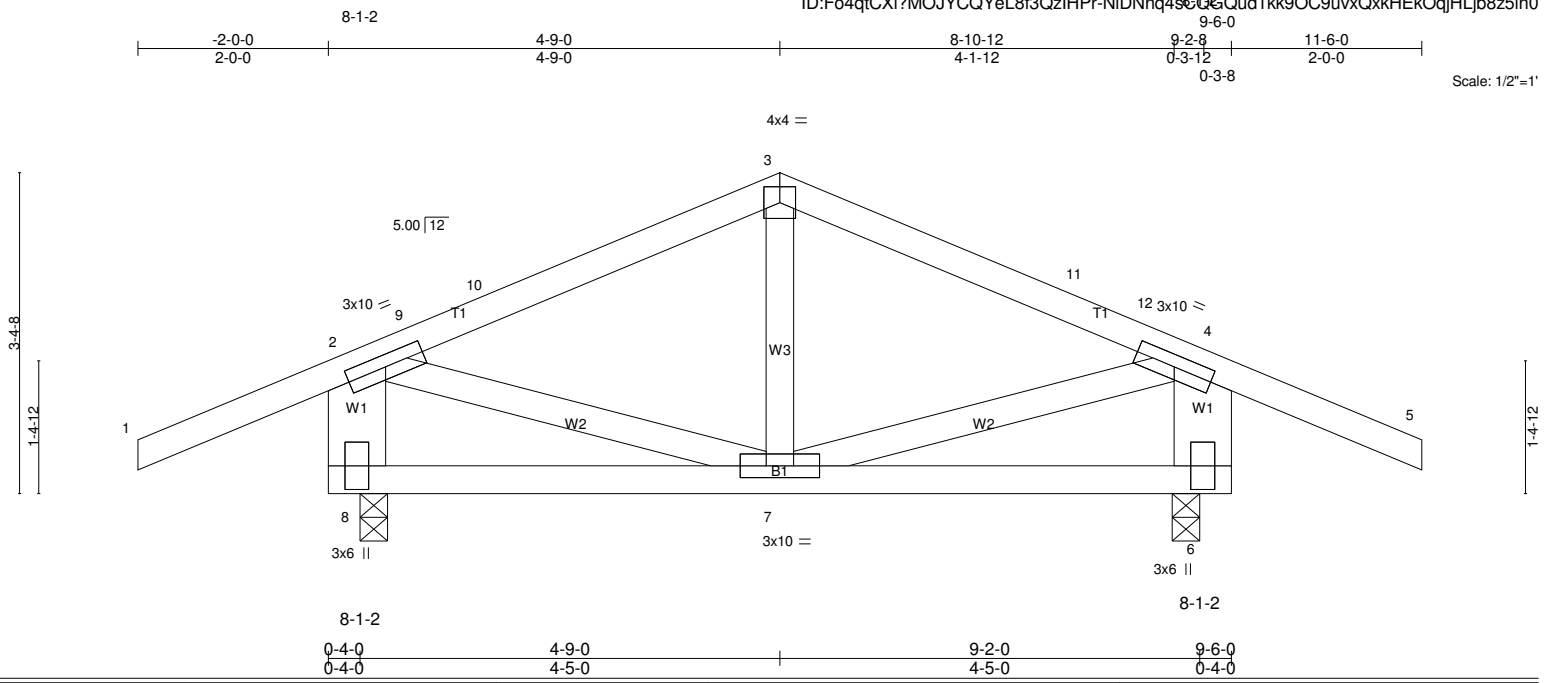
ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-NiDNnq4s8CQGQud1kk9OC9uvxQxkHEkOqjHLjb8z5in0



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.01 7-8 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 7-8 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.08	Horz(CT) -0.00 6 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 46 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x8 DF 1950F 1.7E

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) 8=696/0-3-8 (min. 0-1-8), 6=696/0-3-8 (min. 0-1-8)
Max Horz 8=-120(LC 12)
Max Uplift 8=-275(LC 14), 6=-275(LC 14)
Max Grav 8=894(LC 19), 6=894(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-461/282, 9-10=-427/283, 3-10=-362/296, 3-11=-361/296, 11-12=-427/283, 4-12=-461/282, 2-8=-852/540, 4-6=-852/541
WEBS 2-7=-182/340, 4-7=-184/340

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-9-0, Exterior(2R) 4-9-0 to 7-9-0, Interior(1) 7-9-0 to 11-6-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 275 lb uplift at joint 8 and 275 lb uplift at joint 6.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	D3	Roof Special	1	1	Job Reference (optional)

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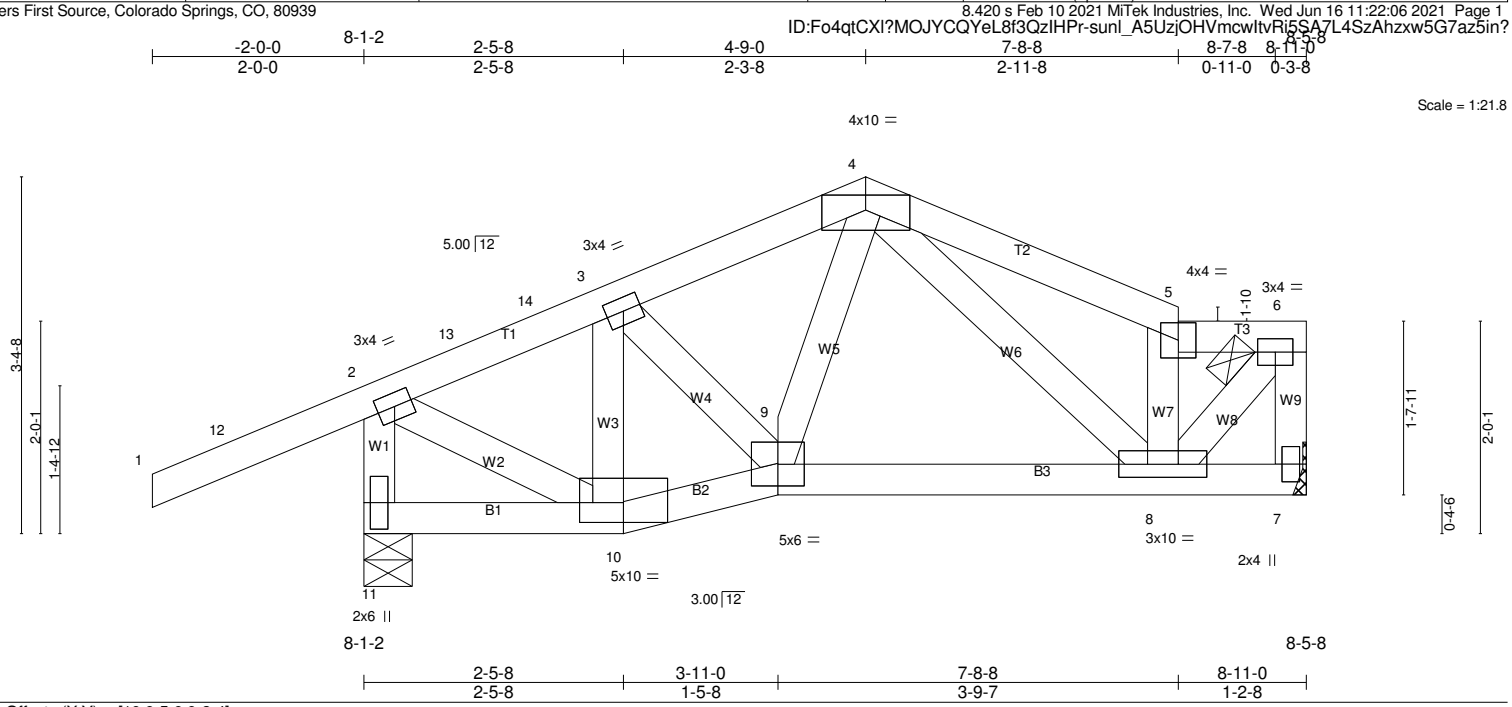

Plate Offsets (X,Y)-- [10:0-5-0,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01	8-9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	8-9	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 43 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
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) 7=450/Mechanical, 11=692/0-5-8 (min. 0-1-8)
Max Horz 11=116(LC 13)
Max Uplift 7=-81(LC 14), 11=-205(LC 14)
Max Grav 7=530(LC 20), 11=821(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-472/242, 13-14=-431/244, 3-14=-395/248, 3-4=-450/290, 4-5=-446/227, 5-6=-396/175, 6-7=-528/249, 2-11=-798/444
BOT CHORD 9-10=-285/350, 8-9=-237/338
WEBS 5-8=-396/211, 6-8=-275/589, 2-10=-107/394

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-9-0, Exterior(2E) 4-9-0 to 7-8-8, Interior(1) 7-8-8 to 8-9-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 7 and 205 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	D4	Roof Special	1	1	Job Reference (optional)

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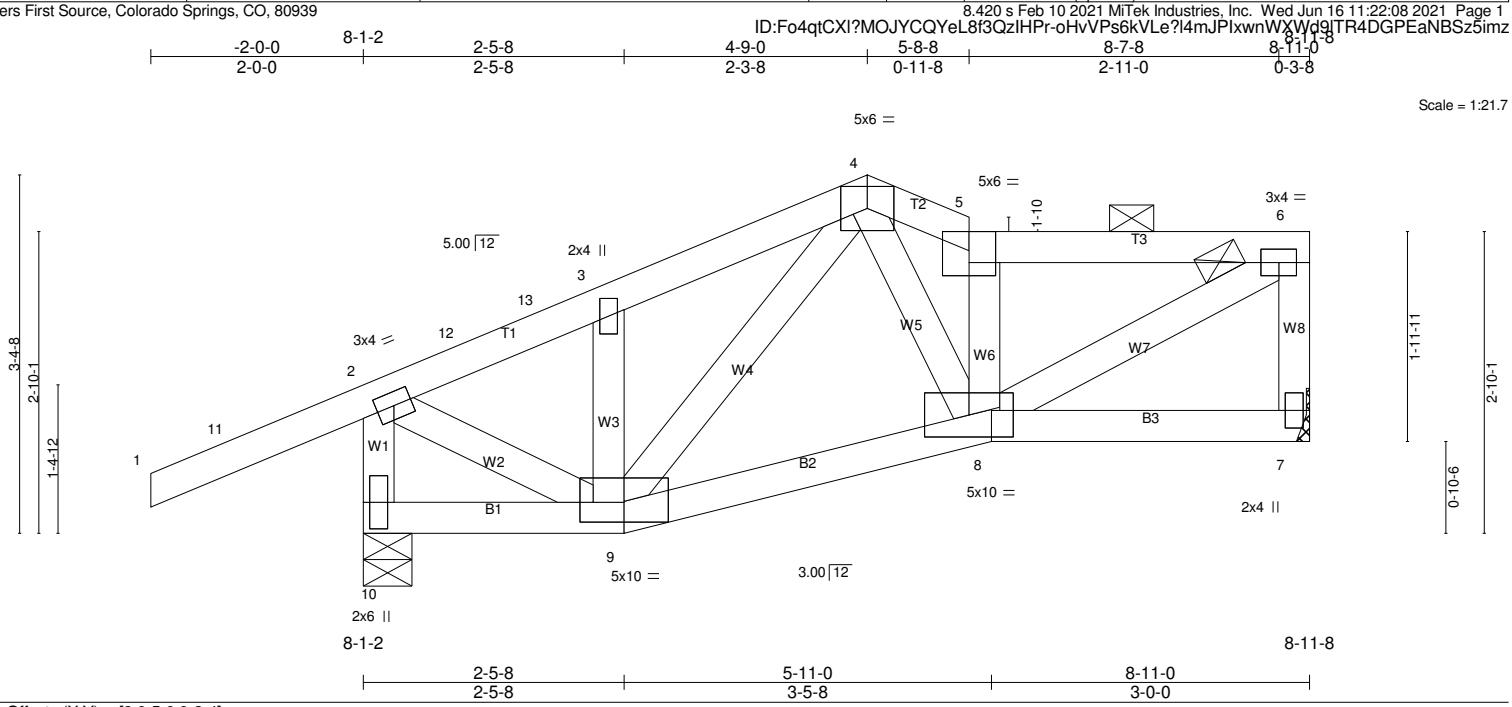

Plate Offsets (X,Y)-- [9:0-5-0,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01	8-9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	8-9	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 42 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 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) 7=450/Mechanical, 10=692/0-5-8 (min. 0-1-8)
Max Horz 10=124(LC 11)
Max Uplift 7=-92(LC 11), 10=-203(LC 14)
Max Grav 7=530(LC 20), 10=821(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-472/225, 12-13=-431/227, 3-13=-395/232, 3-4=-429/290, 4-5=-649/406, 5-6=-503/310, 6-7=-502/305, 2-10=-798/432
BOT CHORD 9-10=-255/145, 8-9=-326/378
WEBS 4-8=-175/434, 5-8=-529/304, 6-8=-387/580, 2-9=-90/394

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-9-0, Exterior(2E) 4-9-0 to 5-8-8, Interior(1) 5-8-8 to 8-9-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 7 and 203 lb uplift at joint 10.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	DC1	Jack-Open	4	1	Job Reference (optional)

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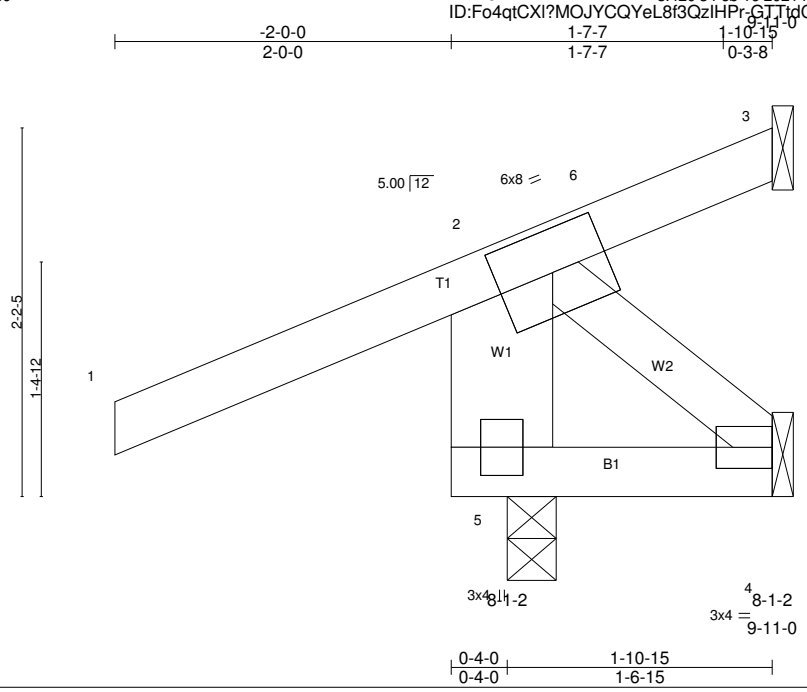

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 DF 1950F 1.7E *Except*
W2: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=-77/Mechanical, 4=16/Mechanical, 5=444/0-3-8 (min. 0-1-8)
Max Horz 5=80(LC 13)
Max Uplift 3=-125(LC 18), 4=-41(LC 14), 5=-189(LC 14)
Max Grav 3=57(LC 14), 4=32(LC 5), 5=610(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-594/369

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 125 lb uplift at joint 3, 41 lb uplift at joint 4 and 189 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	DE	Jack-Open	2	1	Job Reference (optional)

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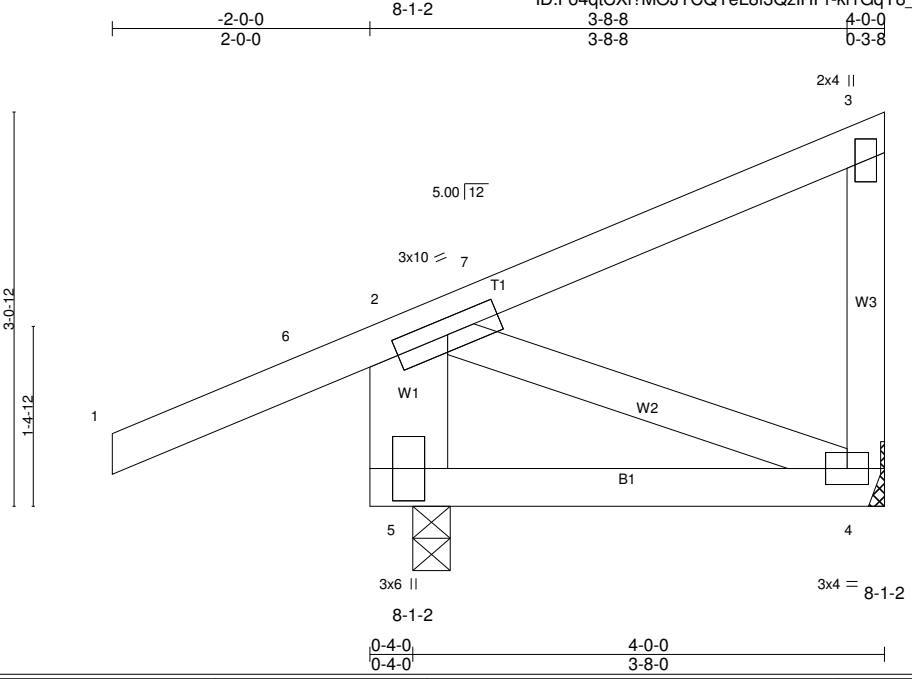

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.01 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02 4-5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 22 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x8 DF 1950F 1.7E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 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=470/0-3-8 (min. 0-1-8), 4=128/Mechanical
Max Horz 5=147(LC 11)
Max Uplift 5=-199(LC 14), 4=-90(LC 11)
Max Grav 5=658(LC 19), 4=168(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-623/411
BOT CHORD 4-5=-308/203
WEBS 2-4=-182/299

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 199 lb uplift at joint 5 and 90 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	DH	Diagonal Hip Girder	2	1	Job Reference (optional)

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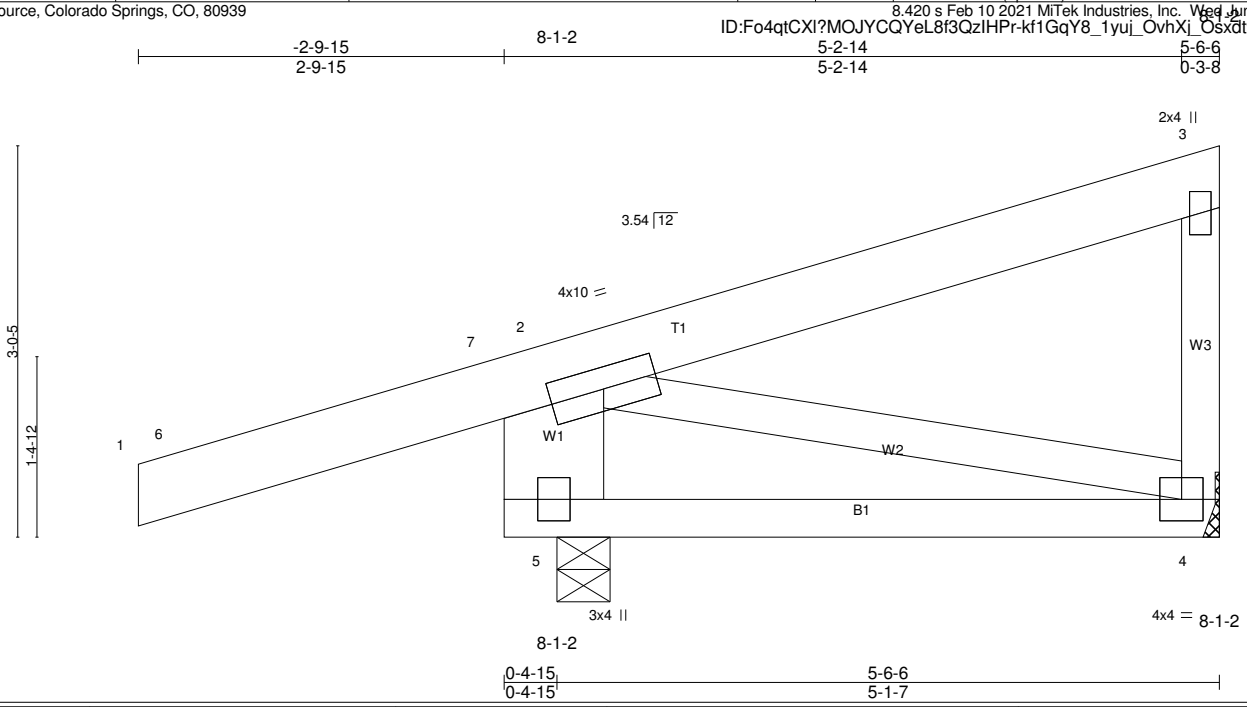

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.30	Vert(LL)	-0.04	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.25	Vert(CT)	-0.07	4-5	>910	180		
TCDL	15.0	Rep Stress Incr NO	WB	0.02	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MP							Weight: 33 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x10 DF 1950F 1.7E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 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=496/0-4-15 (min. 0-1-8), 4=177/Mechanical
Max Horz 5=143(LC 9)
Max Uplift 5=-233(LC 10), 4=-74(LC 7)
Max Grav 5=696(LC 15), 4=233(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-669/245

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 233 lb uplift at joint 5 and 74 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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=-90
Trapezoidal Loads (plf)
Vert: 7=0(F=45, B=45)-to-2=-9(F=40, B=40), 2=-9(F=40, B=40)-to-3=-127(F=-19, B=-19), 5=-2(F=9, B=9)-to-4=-28(F=-4, B=-4)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	E1	Hip Girder	1	2	Job Reference (optional)

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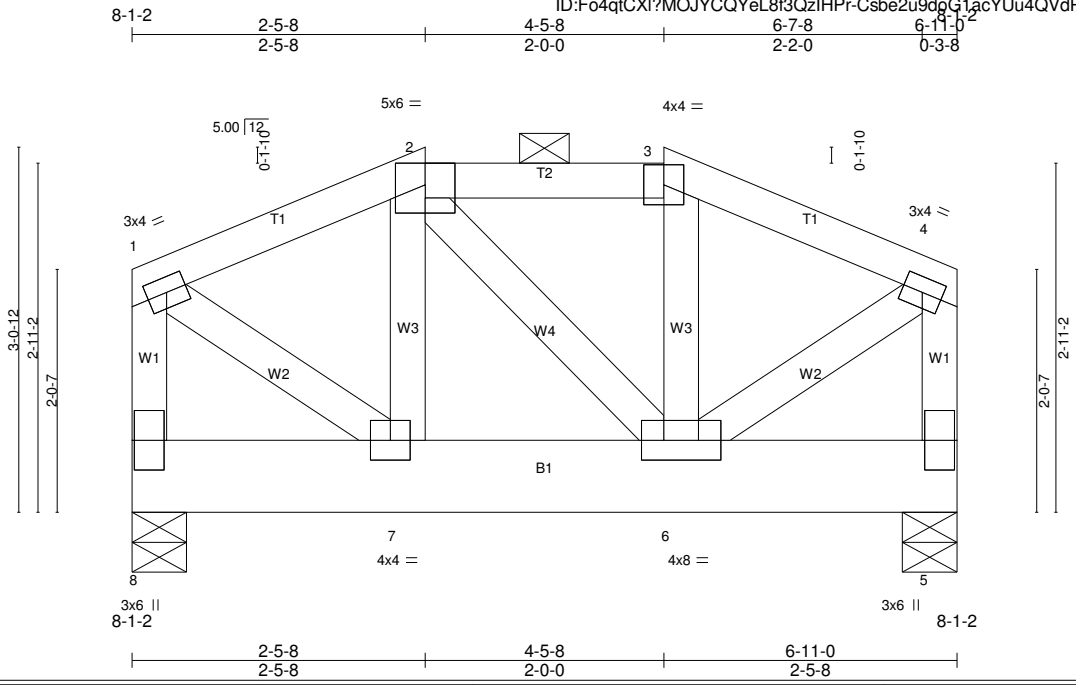

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00 7 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 7 >999 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.07	Horz(CT) 0.00 5 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 88 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 DF 1950F 1.7E
WEBS 2x4 SPF No.2

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

REACTIONS. (lb/size) 8=717/0-5-8 (min. 0-1-8), 5=717/0-5-8 (min. 0-1-8)
Max Horz 8=-95(LC 8)
Max Uplift 8=-231(LC 10), 5=-231(LC 10)
Max Grav 8=783(LC 28), 5=783(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-505/190, 2-3=-435/195, 3-4=-501/187, 1-8=-648/203, 4-5=-644/200
BOT CHORD 6-7=-142/430
WEBS 1-7=-160/540, 4-6=-157/535

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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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 231 lb uplift at joint 8 and 231 lb uplift at joint 5.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Girder carries tie-in span(s): 6-2-0 from 0-0-0 to 6-11-0
13) Girder carries hip end with 2-5-8 right side setback, 2-5-8 left side setback, and 2-0-0 end setback.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 9 lb up at 4-5-8, and 30 lb down and 9 lb up at 2-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-45(F=45), 3-4=-90, 7-8=-122(F=-102), 6-7=-154(F=-134), 5-6=-122(F=-102)
Concentrated Loads (lb)
Vert: 7=-23(F) 6=-23(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	EC1	Jack-Open	2	1	Job Reference (optional)

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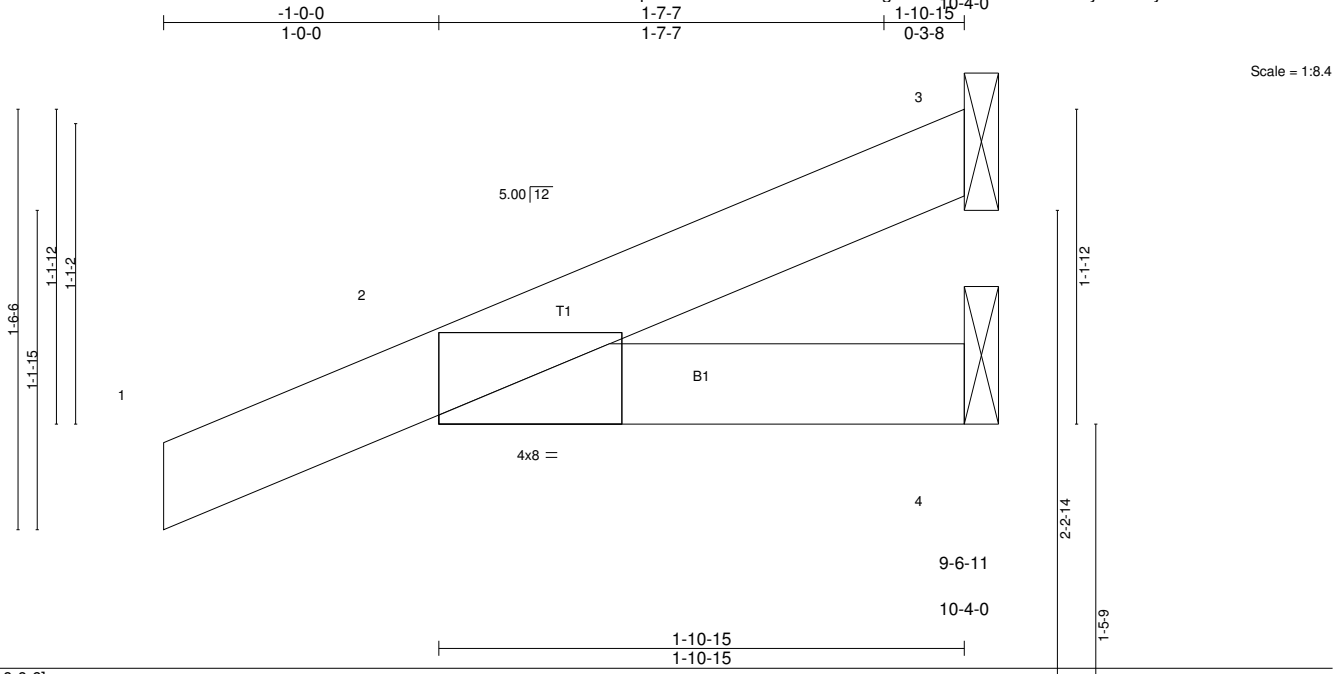


Plate Offsets (X,Y)-- [2:0-0-0,0-0-6]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.00	7	n/r	120	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.04	7	n/r	120		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 6 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 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-1-9 oc bracing.

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

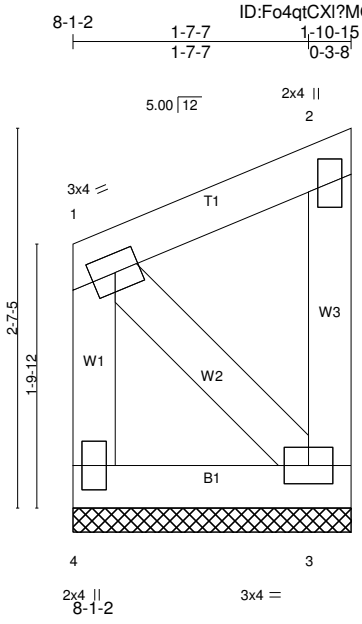
REACTIONS. (lb/size) 3=-0/Mechanical, 4=299/Mechanical
Max Horz 3=646(LC 19), 4=-646(LC 19)
Max Uplift4=-171(LC 14)
Max Grav 4=386(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-596/590
BOT CHORD 2-4=-646/766

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 171 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	EC2	Jack-Open Supported Gable	2	1	Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.08	Vert(LL) n/a - n/a 999	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999		
TCDL 15.0	Lumber DOL 1.15	WB 0.05	Horz(CT) -0.00 3 n/a n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P		Weight: 11 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=89/1-10-15 (min. 0-1-8), 3=89/1-10-15 (min. 0-1-8)
Max Horz 4=104(LC 11)
Max Uplift 4=-40(LC 10), 3=-82(LC 11)
Max Grav 4=124(LC 22), 3=120(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 1-3=-165/269

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 1-4-0 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 82 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	EE	Jack-Open	2	1	Job Reference (optional)

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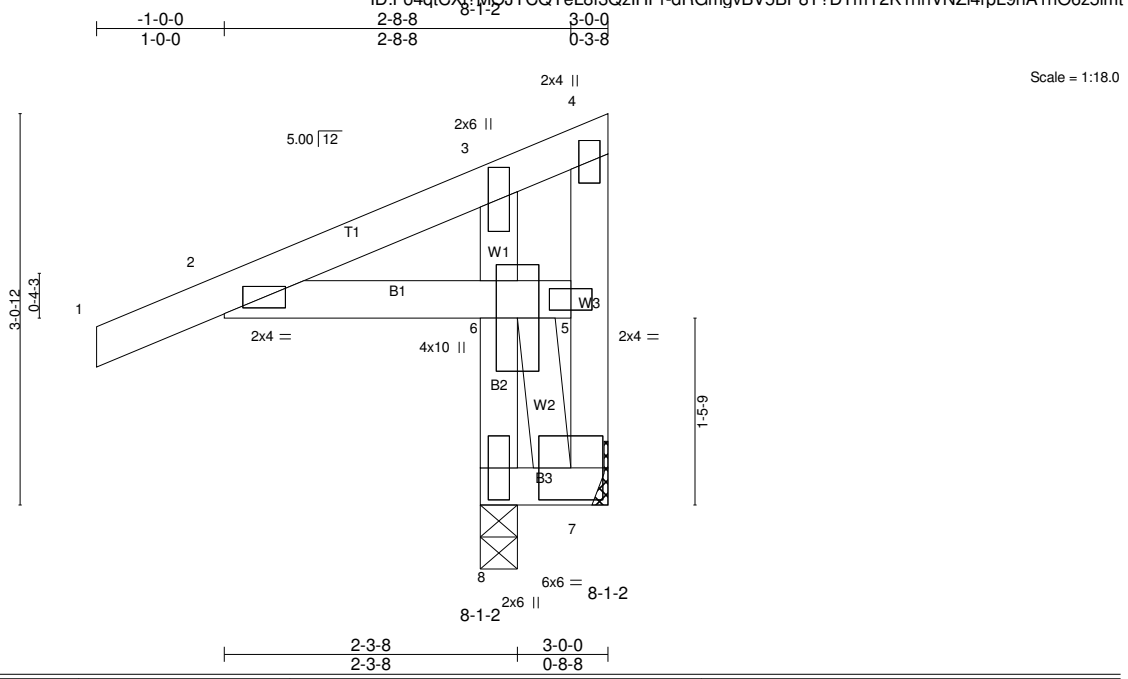

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.00 6 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.00 6 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.00 7 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 16 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-1 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=-655/Mechanical, 8=1059/0-3-8 (min. 0-2-4)
Max Horz 8=143(LC 13)
Max Uplift 7=-884(LC 19), 8=-600(LC 14)
Max Grav 7=388(LC 14), 8=1421(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-241/253, 5-7=-639/612, 4-5=-255/235
BOT CHORD 2-6=-160/279, 5-6=-295/389, 6-8=-1414/1414
WEBS 6-7=-251/372, 3-6=-597/577

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-1-12, Interior(1) 2-1-12 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 884 lb uplift at joint 7 and 600 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	EH	Diagonal Hip Girder	2	1	Job Reference (optional)

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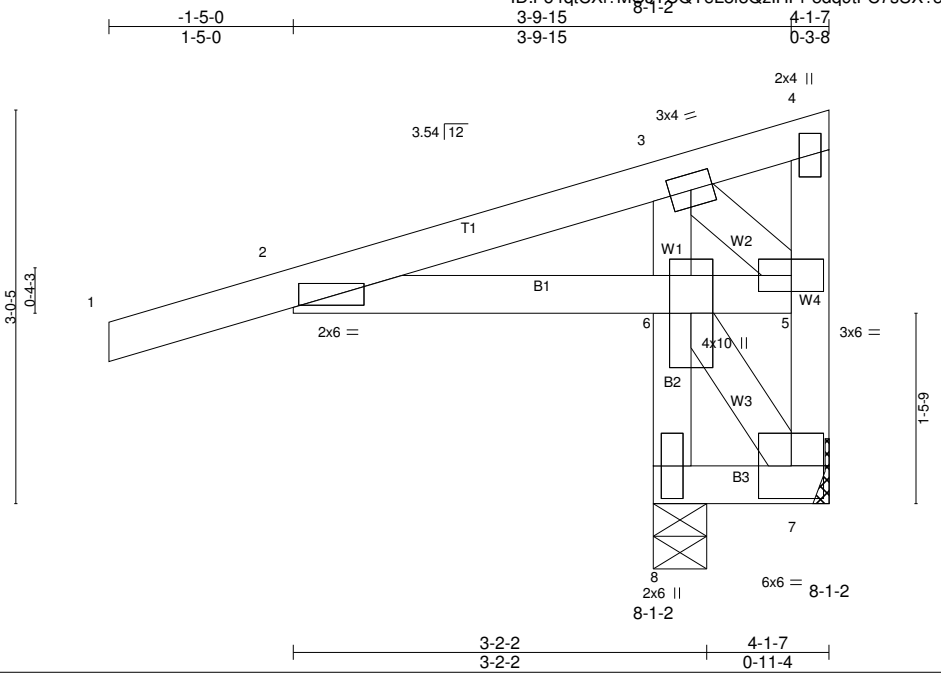

Plate Offsets (X,Y)-- [2:0-6-8,0-0-3]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.00	6	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	6	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-6 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=-396/Mechanical, 8=717/0-4-15 (min. 0-1-13)
Max Horz 8=148(LC 9)
Max Uplift 7=-669(LC 15), 8=-590(LC 10)
Max Grav 7=390(LC 10), 8=1167(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-333/804, 5-7=-292/659
BOT CHORD 6-8=-1158/594, 2-6=-744/328, 5-6=-758/395
WEBS 3-6=-1054/437, 3-5=-403/958

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 669 lb uplift at joint 7 and 590 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 42 lb down and 17 lb up at -1-4-15, and 42 lb down and 17 lb up at -1-4-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) 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
Concentrated Loads (lb)
Vert: 1=-63(F=-31, B=-31)
Trapezoidal Loads (plf)
Vert: 1=0(F=45, B=45)-to-2=-32(F=29, B=29), 2=-3(F=44, B=44)-to-4=-95(F=-3, B=-3), 8=-16(F=2, B=2)-to-7=-21(F=-1, B=-1), 9=0(F=10, B=10)-to-6=-16(F=2, B=2), 6=4(F=2, B=2)-to-5=-1(F=-1, B=-1)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F1	Hip Girder	1	2	Job Reference (optional)

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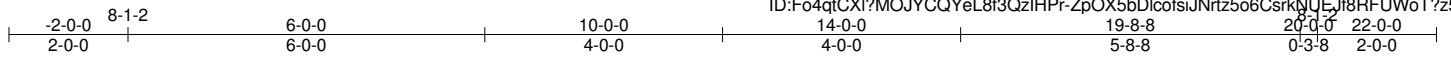

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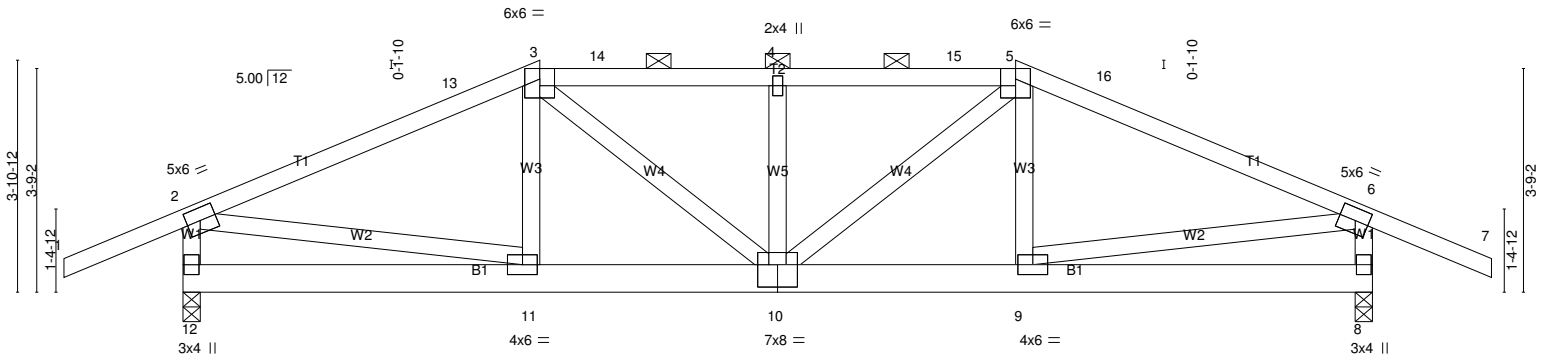

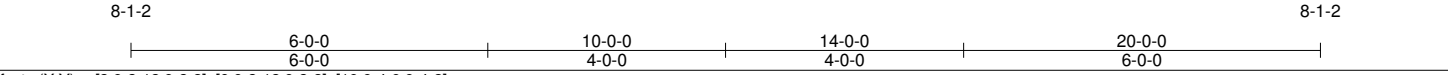

Plate Offsets (X,Y)-- [2:0-2-12,0-2-8], [6:0-2-12,0-2-8], [10:0-4-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.06	10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.10	9-10	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS							Weight: 202 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

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

REACTIONS. (lb/size) 12=2182/0-3-8 (min. 0-1-8), 8=2182/0-3-8 (min. 0-1-8)
Max Horz 12=-123(LC 8)
Max Uplift 12=-493(LC 10), 8=-493(LC 10)
Max Grav 12=2389(LC 29), 8=2389(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-3300/586, 3-13=-3145/604, 3-14=-3634/704, 4-14=-3638/704, 4-15=-3638/704, 5-15=-3634/704, 5-16=-3146/604, 6-16=-3300/586, 2-12=-2307/513, 6-8=-2307/513
BOT CHORD 11-12=-84/374, 10-11=-427/2941, 9-10=-410/2937, 8-9=-40/307
WEBS 3-11=-67/449, 3-10=-164/978, 4-10=-502/79, 5-10=-164/978, 5-9=-67/449, 2-11=-424/2755, 6-9=-424/2757

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: 2x6 - 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 493 lb uplift at joint 12 and 493 lb uplift at joint 8.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Girder carries hip end with 6-0-0 end setback.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 581 lb down and 103 lb up at 14-0-0, and 581 lb down and 103 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-90, 3-5=-45(F=45), 5-6=-90, 6-7=-90, 11-12=-20, 9-11=-162(F=-142), 8-9=-20
Concentrated Loads (lb)
Vert: 11=-495(F) 9=-495(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F2	Hip	1	1	Job Reference (optional)

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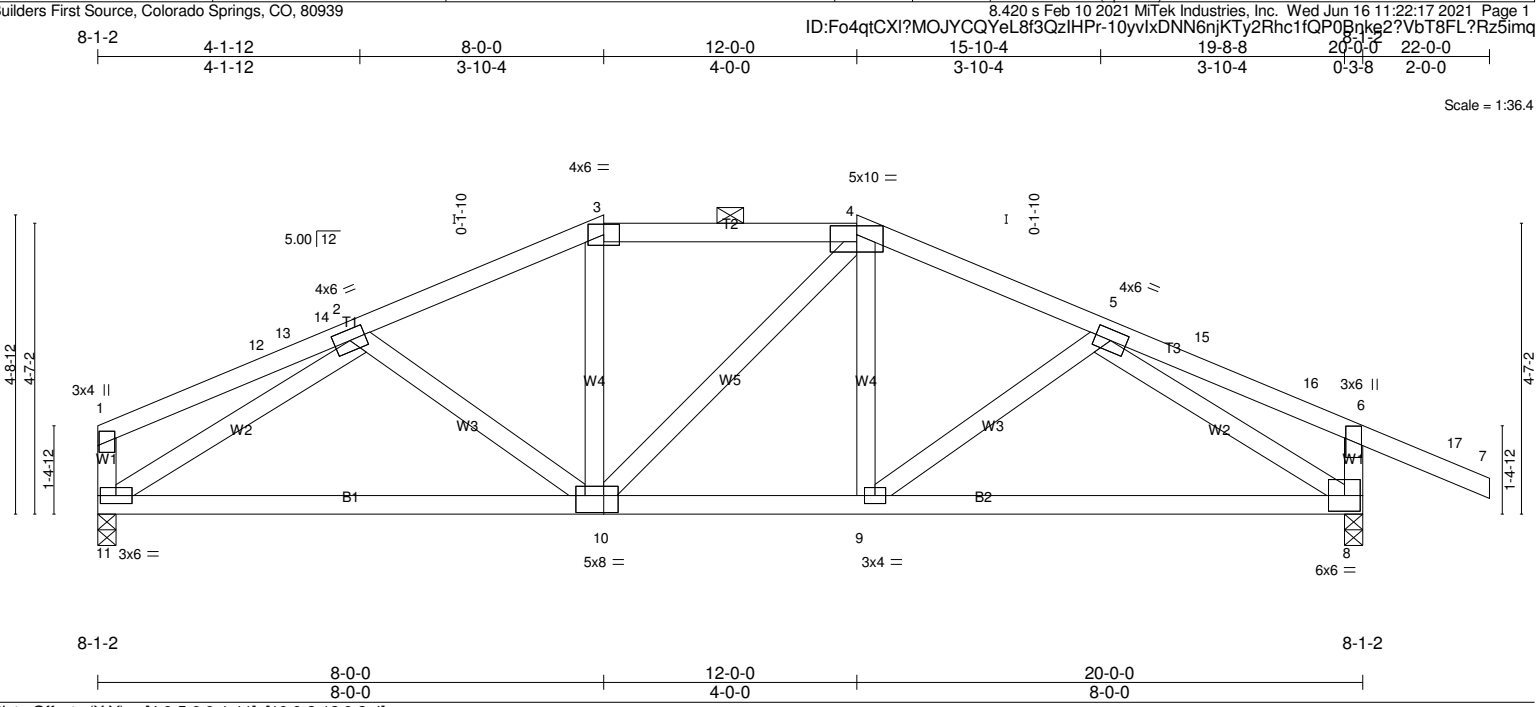

Plate Offsets (X,Y)-- [4:0-5-0,0-1-11], [10:0-2-12,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.11	10-11	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.23	10-11	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-1 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) 11=1073/0-3-8 (min. 0-2-2), 8=1288/0-3-8 (min. 0-2-10)
Max Horz 11=-144(LC 12)
Max Uplift 11=-200(LC 14), 8=-316(LC 14)
Max Grav 11=1352(LC 33), 8=1677(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1574/419, 3-4=-1357/417, 4-5=-1560/426, 1-11=-298/94, 6-8=-588/251
BOT CHORD 10-11=-327/1511, 9-10=-211/1342, 8-9=-271/1428
WEBS 2-11=-1682/417, 5-8=-1747/402

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-11-5, Interior(1) 15-11-5 to 22-0-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 200 lb uplift at joint 11 and 316 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F3	Roof Special	1	1	Job Reference (optional)

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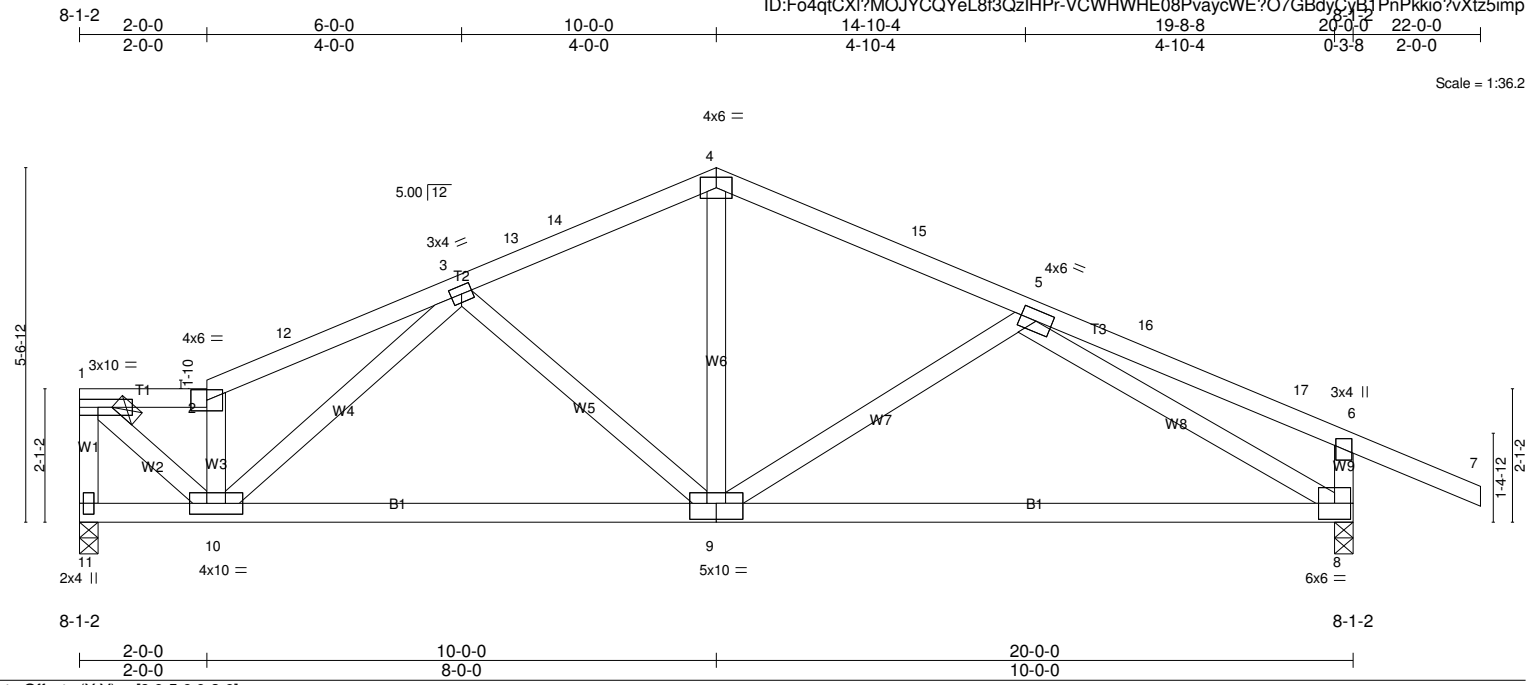

Plate Offsets (X,Y)-- [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.23	8-9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.46	8-9	>514	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 87 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-0 max.): 1-2.
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) 11=1073/0-3-8 (min. 0-1-13), 8=1288/0-3-8 (min. 0-2-2)
Max Horz 11=-181(LC 12)
Max Uplift 11=-201(LC 14), 8=-316(LC 14)
Max Grav 11=1164(LC 33), 8=1355(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1156/319, 1-2=-1230/337, 2-12=-1365/384, 3-12=-1274/393, 3-13=-1266/410, 13-14=-1177/414, 4-14=-1146/422, 4-15=-1146/413, 5-15=-1231/403, 6-8=-456/278
BOT CHORD 9-10=-317/1423, 8-9=-311/1331
WEBS 1-10=-415/1633, 2-10=-764/251, 3-10=-359/133, 3-9=-491/195, 4-9=-131/530, 5-9=-380/207, 5-8=-1494/469

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-0-0, Interior(1) 2-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 201 lb uplift at joint 11 and 316 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F4	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:19 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-zO4fjdFevj1RZm5QY6eVkrUHgaL3WsuuxSkS4Kz5imo

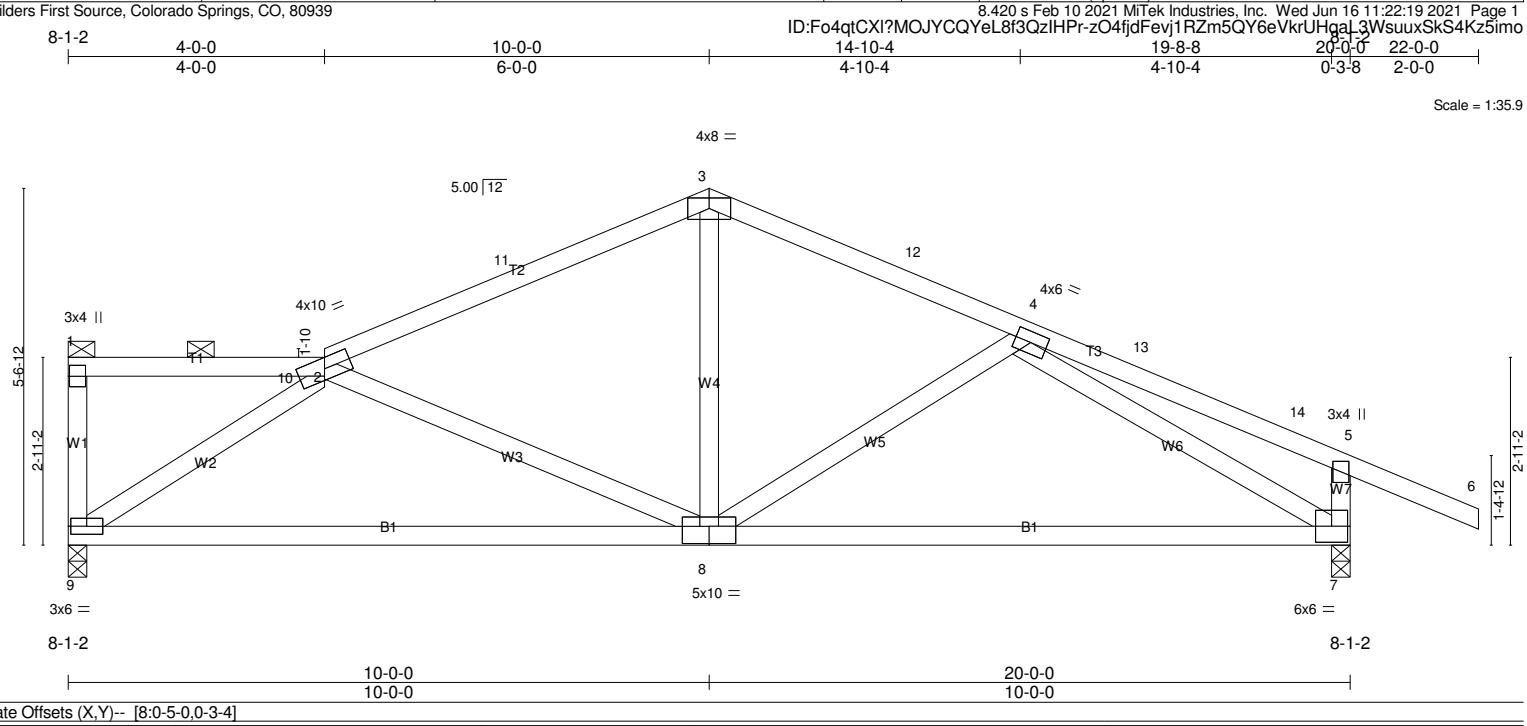

Plate Offsets (X,Y)-- [8:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.20	8-9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.41	8-9	>581	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 84 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except* T2: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.

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

REACTIONS. (lb/size) 9=1073/0-3-8 (min. 0-1-13), 7=1288/0-3-8 (min. 0-2-2)
Max Horz 9=-203(LC 12)
Max Uplift 9=-201(LC 14), 7=-315(LC 14)
Max Grav 9=1146(LC 19), 7=1355(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-259/69, 2-11=-1291/382, 3-11=-1154/392, 3-12=-1151/413, 4-12=-1241/403, 5-7=-460/285
BOT CHORD 8-9=-356/1364, 7-8=-304/1333
WEBS 2-9=-1616/547, 2-8=-352/197, 3-8=-62/448, 4-8=-368/199, 4-7=-1504/452

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 201 lb uplift at joint 9 and 315 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F5	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:20 2021 Page 1

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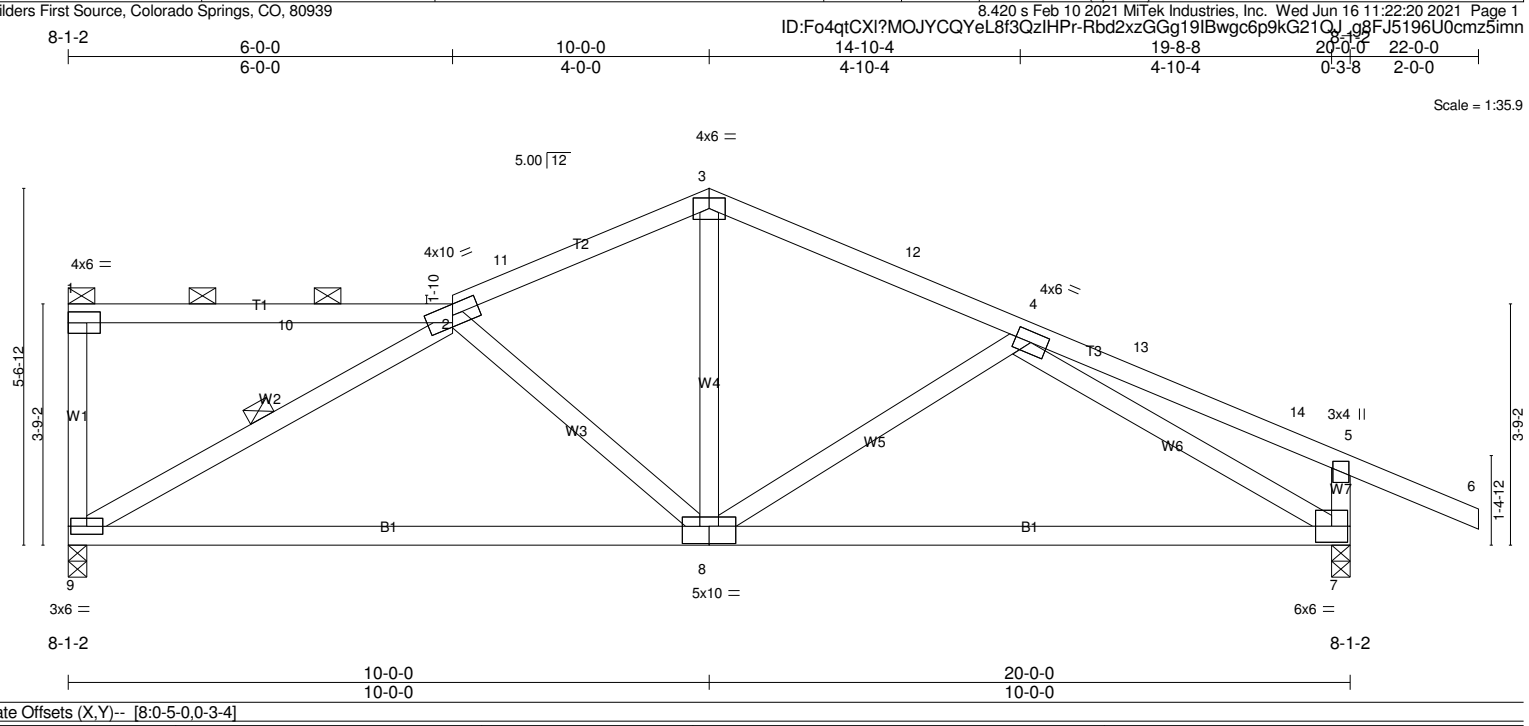

Plate Offsets (X,Y)-- [8:0-5-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.20	8-9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.41	8-9	>571	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 86 lb	FT = 20%
BCDL	10.0											

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

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

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

REACTIONS. (lb/size) 9=1073/0-3-8 (min. 0-1-13), 7=1288/0-3-8 (min. 0-2-2)
Max Horz 9=-224(LC 12)
Max Uplift 9=-202(LC 14), 7=-314(LC 14)
Max Grav 9=1146(LC 19), 7=1355(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-405/125, 2-11=-1227/396, 3-11=-1144/406, 3-12=-1137/408, 4-12=-1238/397, 5-7=-453/281
BOT CHORD 8-9=-322/1355, 7-8=-307/1335
WEBS 2-9=-1510/515, 2-8=-442/207, 3-8=-125/519, 4-8=-377/215, 4-7=-1509/458

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 202 lb uplift at joint 9 and 314 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F6	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:21 2021 Page 1

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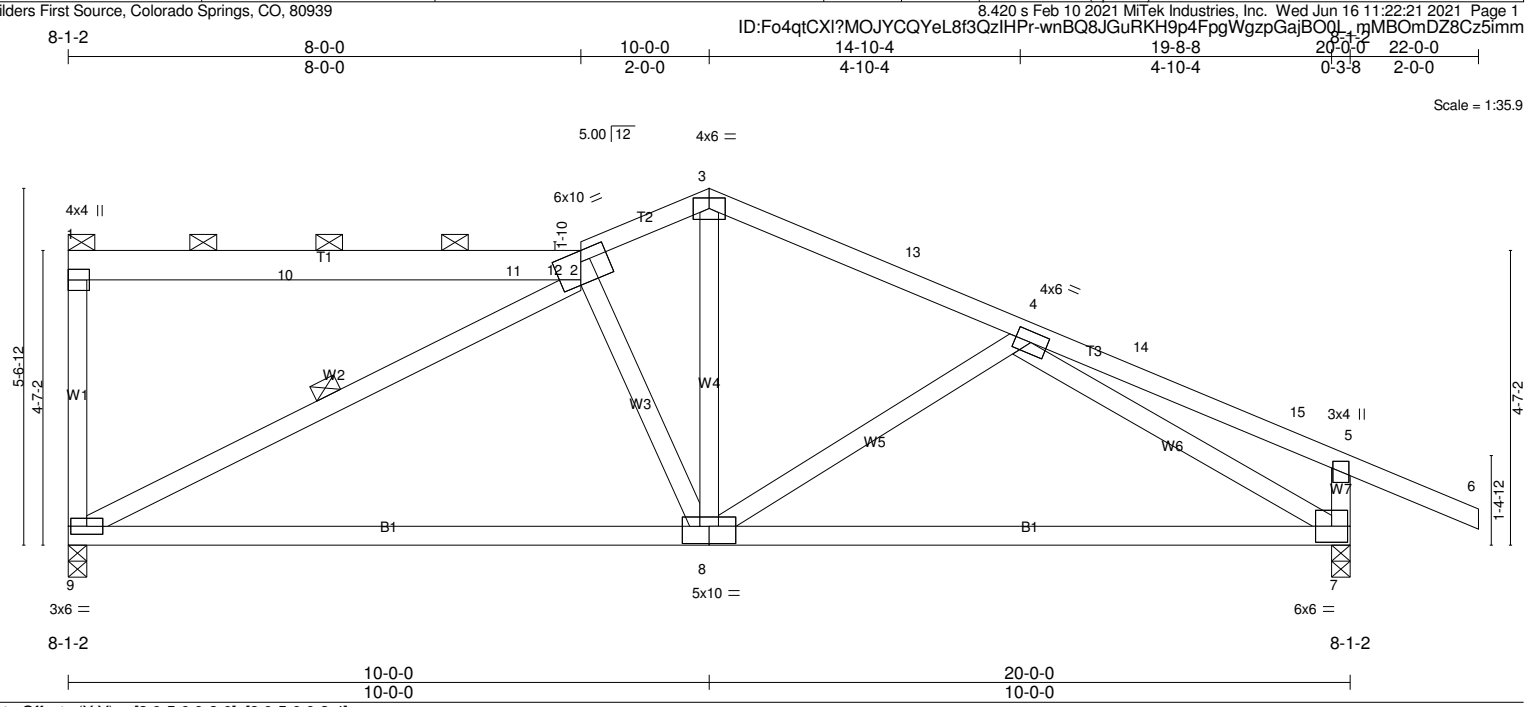

Plate Offsets (X,Y)-- [2:0-5-0,0-2-0], [8:0-5-0,0-3-4]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.51	Vert(LL)	-0.20	8-9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.88	Vert(CT)	-0.42	8-9	>563	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.92	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

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

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

REACTIONS. (lb/size) 9=1073/0-3-8 (min. 0-1-15), 7=1288/0-3-8 (min. 0-2-2)
Max Horz 9=-243(LC 12)
Max Uplift 9=-203(LC 14), 7=-313(LC 14)
Max Grav 9=1223(LC 33), 7=1355(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-534/163, 2-3=-1196/421, 3-13=-1134/396, 4-13=-1239/386, 5-7=-452/279
BOT CHORD 8-9=-246/1238, 7-8=-300/1334
WEBS 2-9=-1358/490, 2-8=-537/217, 3-8=-189/732, 4-8=-373/221, 4-7=-1507/452

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 203 lb uplift at joint 9 and 313 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F7	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:22 2021 Page 1

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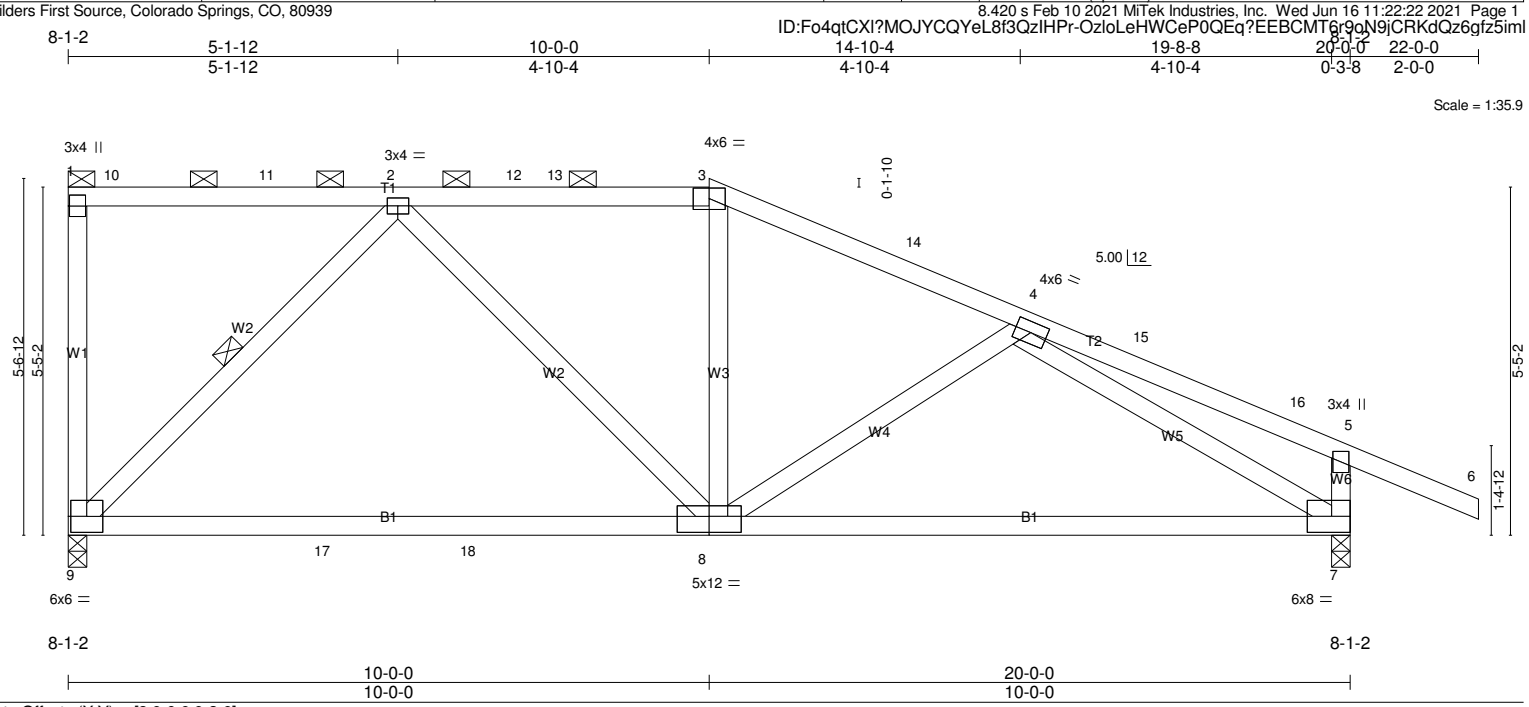

Plate Offsets (X,Y)-- [8:0-6-0,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.30	8-9	>776	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.51	8-9	>465	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 90 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-12 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9

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

REACTIONS. (lb/size) 9=1073/0-3-8 (min. 0-2-1), 7=1288/0-3-8 (min. 0-2-9)
Max Horz 9=-266(LC 12)
Max Uplift 9=-229(LC 10), 7=-312(LC 14)
Max Grav 9=1321(LC 29), 7=1636(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-285/91, 2-12=-1183/408, 12-13=-1180/408, 3-13=-1180/409, 3-14=-1264/401, 4-14=-1364/391, 5-16=-260/85, 5-7=-660/280
BOT CHORD 9-17=-131/993, 17-18=-131/993, 8-18=-131/993, 7-8=-300/1431
WEBS 2-9=-1327/457, 2-8=-119/657, 4-8=-419/222, 4-7=-1630/452

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 229 lb uplift at joint 9 and 312 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F8	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:24 2021 Page 1

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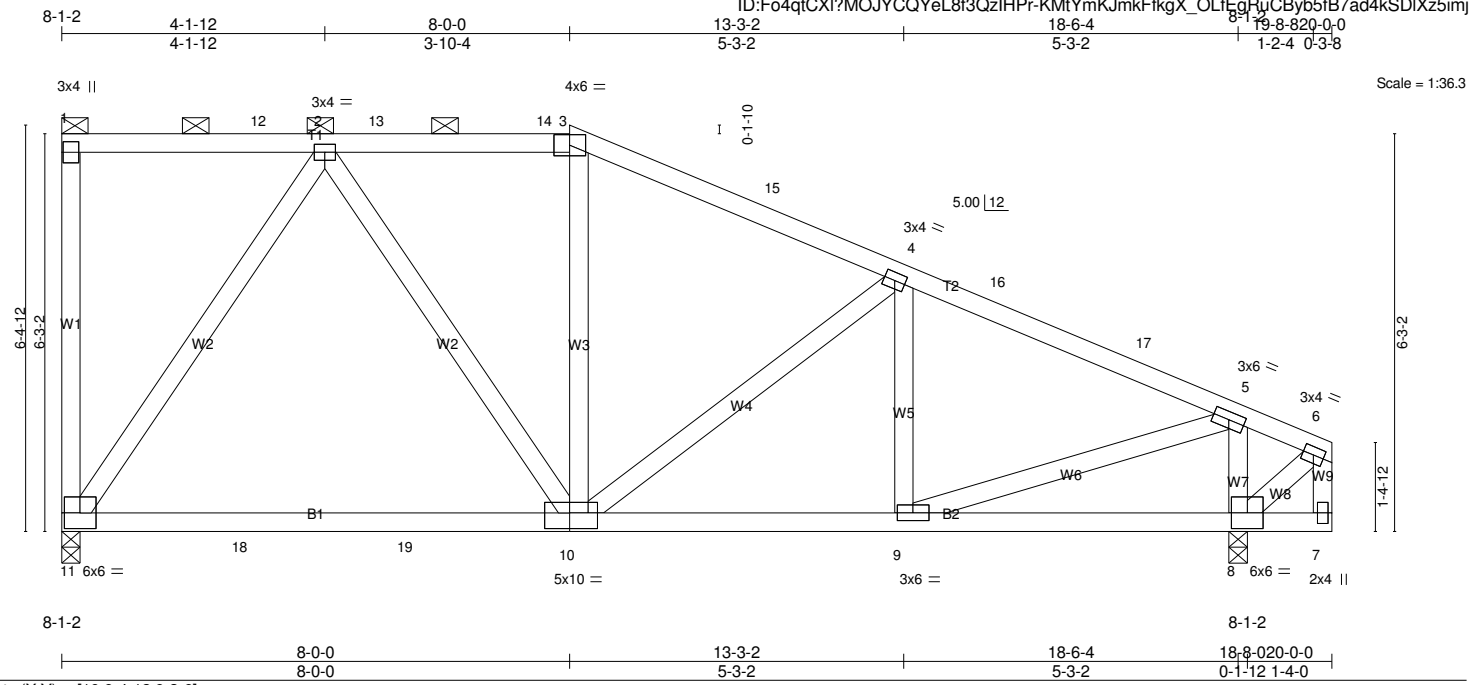

Plate Offsets (X,Y)-- [10:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.17	10-11	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.29	10-11	>762	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-8.

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

REACTIONS. (lb/size) 11=1005/0-3-8 (min. 0-1-14), 8=1163/0-3-8 (min. 0-2-6)
Max Horz 11=-288(LC 12)
Max Uplift 11=-226(LC 10), 8=-213(LC 14)
Max Grav 11=1201(LC 34), 8=1508(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-885/360, 13-14=-883/360, 3-14=-883/360, 3-15=-946/349, 4-15=-1070/339, 4-16=-1257/357, 16-17=-1364/347, 5-17=-1493/345
BOT CHORD 11-18=-93/672, 18-19=-93/672, 10-19=-93/672, 9-10=-267/1259
WEBS 2-11=-1054/414, 2-10=-175/692, 4-10=-522/208, 4-9=-298/135, 5-9=-280/1219, 5-8=-1483/436

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 226 lb uplift at joint 11 and 213 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F9	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:25 2021 Page 1

ID:Fo4qtCXl?MOJYCQYeL8f3QzIHPr-oYRx_gJPVZnbHhZavMlvz6klK?Xuwi2mJOBnHzz5imi

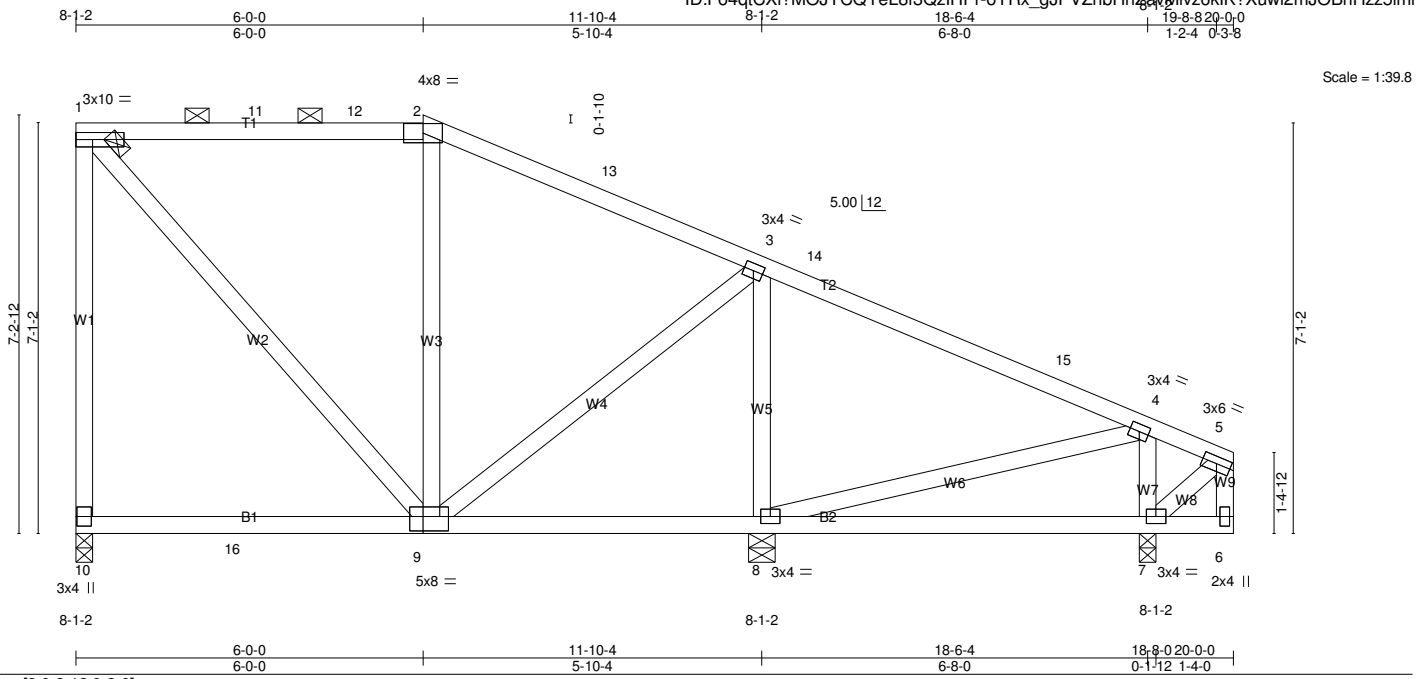

Plate Offsets (X,Y)-- [9:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.05	9-10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	9-10	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 6-7.

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

REACTIONS. (lb/size) 10=630/0-3-8 (min. 0-1-8), 8=1034/0-5-8 (min. 0-2-1), 7=504/0-3-8 (min. 0-1-8)
Max Horz 10=-329(LC 12)
Max Uplift 10=-198(LC 10), 8=-196(LC 14), 7=-86(LC 14)
Max Grav 10=811(LC 34), 8=1327(LC 29), 7=729(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-717/333, 1-11=-337/236, 11-12=-333/236, 2-12=-332/236, 2-13=-368/211, 3-13=-509/193, 4-15=-277/28
BOT CHORD 10-16=-248/420, 9-16=-248/420
WEBS 1-9=-290/499, 2-9=-426/239, 3-9=-38/427, 3-8=-1173/360, 4-7=-813/281, 5-7=-49/335

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 198 lb uplift at joint 10, 196 lb uplift at joint 8 and 86 lb uplift at joint 7.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	F10	Roof Special	1	1	Job Reference (optional)

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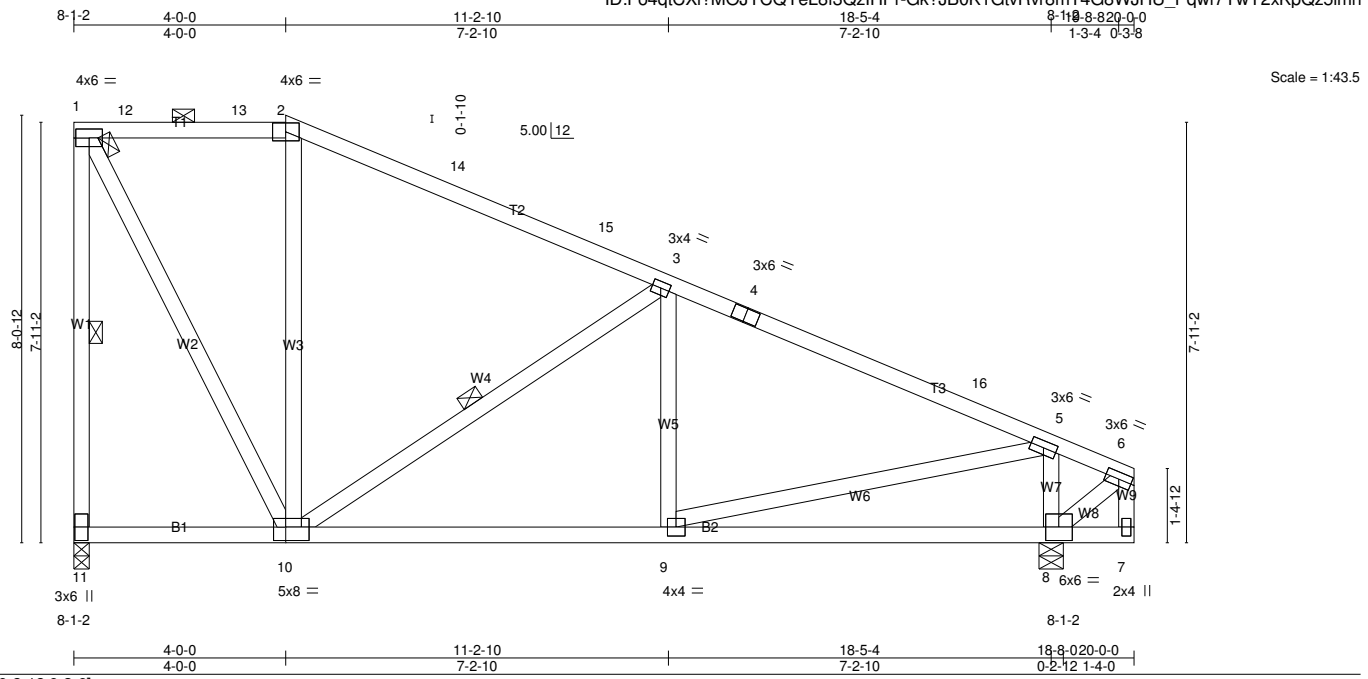

Plate Offsets (X,Y)-- [10:0-2-12,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.05	9-10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.12	9-10	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 102 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* T2: 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

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

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

REACTIONS. (lb/size) 11=1000/0-3-8 (min. 0-1-12), 8=1168/0-5-8 (min. 0-2-9)
Max Horz 11=-369(LC 12)
Max Uplift11=-219(LC 10), 8=-209(LC 14)
Max Grav 11=1119(LC 29), 8=1629(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1095/423, 1-12=-529/295, 12-13=-527/295, 2-13=-527/295, 2-14=-568/265, 14-15=-570/255, 3-15=-786/243, 3-4=-1368/355, 4-16=-1536/342, 5-16=-1710/333
BOT CHORD 10-11=-284/475, 9-10=-243/1418
WEBS 1-10=-418/1169, 2-10=-338/255, 3-10=-1065/356, 5-9=-223/1231, 5-8=-1694/478, 6-8=-51/360

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 219 lb uplift at joint 11 and 209 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	FC1	Jack-Open	4	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 5 2021 MiTek Industries, Inc. Wed Jun 16 11:22:27 2021 Page 1
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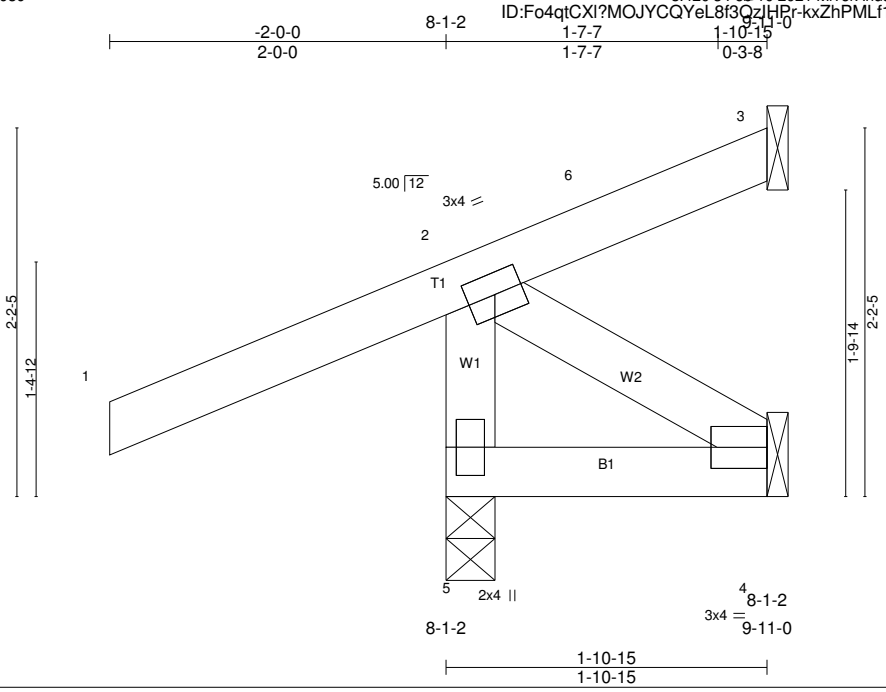

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=408/0-3-8 (min. 0-1-8), 3=-39/Mechanical, 4=18/Mechanical
Max Horz 5=69(LC 13)
Max Uplift 5=-158(LC 14), 3=-92(LC 18), 4=-33(LC 14)
Max Grav 5=558(LC 19), 3=48(LC 14), 4=35(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-541/324

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 158 lb uplift at joint 5, 92 lb uplift at joint 3 and 33 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	FC2	Jack-Open	4	1	Job Reference (optional)

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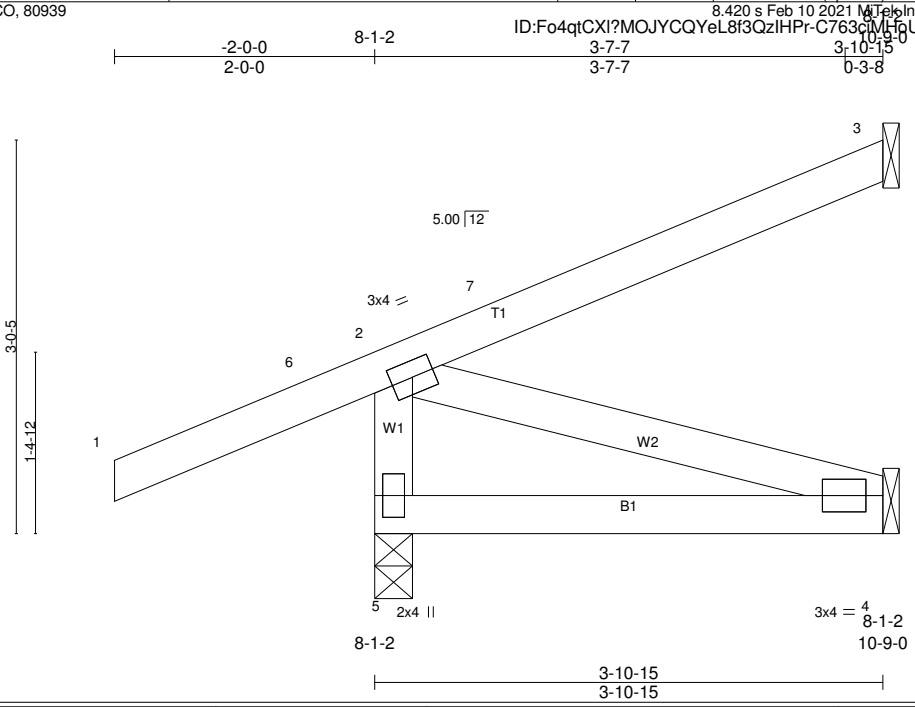


LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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.

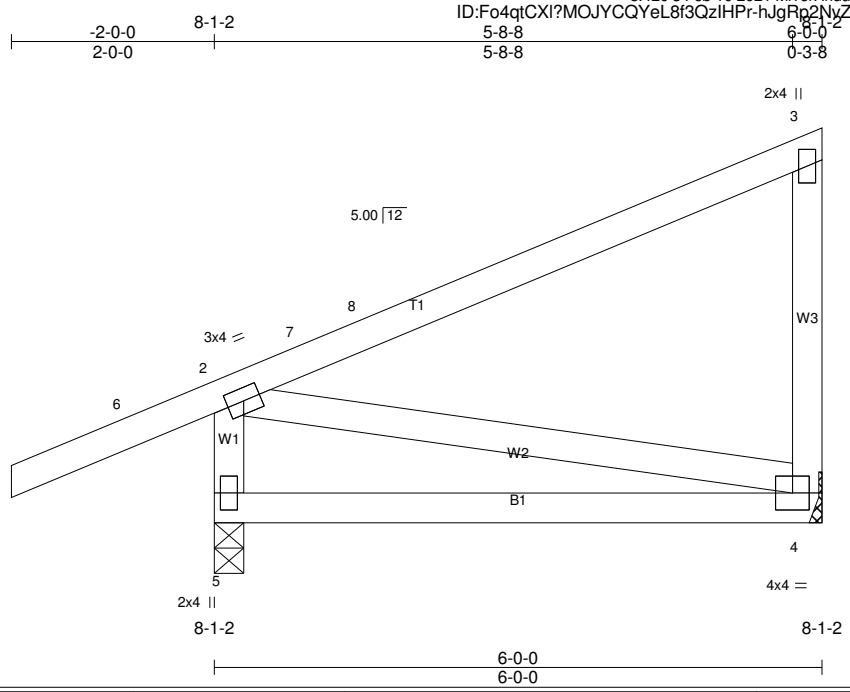
REACTIONS. (lb/size) 5=453/0-3-8 (min. 0-1-8), 3=111/Mechanical, 4=38/Mechanical
Max Horz 5=149(LC 14)
Max Uplift 5=-131(LC 14), 3=-35(LC 11), 4=-23(LC 14)
Max Grav 5=634(LC 19), 3=159(LC 19), 4=75(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-596/315

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 131 lb uplift at joint 5, 35 lb uplift at joint 3 and 23 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	FE	Jack-Partial	5	1	Job Reference (optional)



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.06	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	4-5	>538	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-15 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=543/0-3-8 (min. 0-1-8), 4=278/Mechanical
Max Horz 5=187(LC 11)
Max Uplift 5=-174(LC 14), 4=-80(LC 11)
Max Grav 5=691(LC 19), 4=387(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-633/394, 3-4=-330/262
BOT CHORD 4-5=-388/266
WEBS 2-4=-204/336

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 174 lb uplift at joint 5 and 80 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	FH	Diagonal Hip Girder	2	1	Job Reference (optional)

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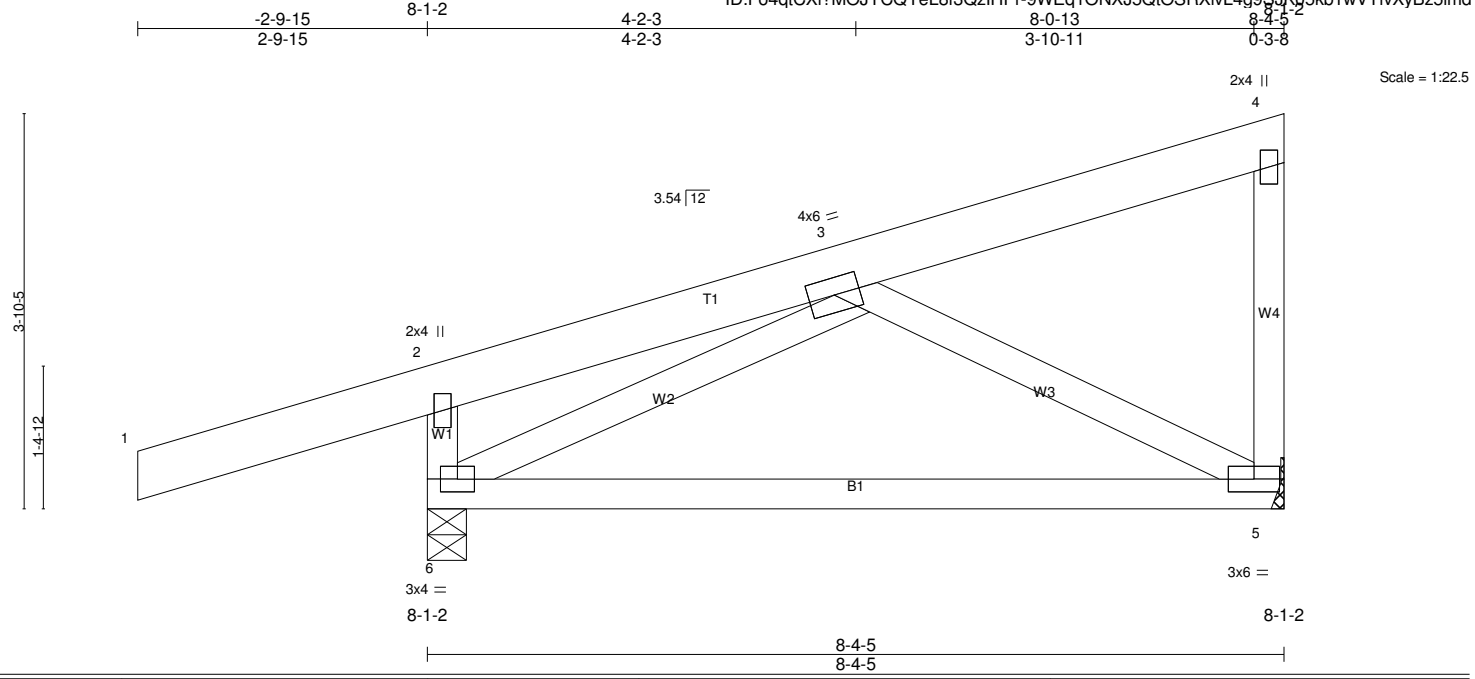

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.25 5-6 >381 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.52 5-6 >185 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.19	Horz(CT) 0.01 5 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 45 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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) 6=640/0-4-9 (min. 0-1-8), 5=583/Mechanical
Max Horz 6=184(LC 7)
Max Uplift 6=-220(LC 10), 5=-114(LC 10)
Max Grav 6=772(LC 15), 5=715(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-468/249, 4-5=-365/108
BOT CHORD 5-6=-150/440
WEBS 3-6=-504/0, 3-5=-499/130

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 220 lb uplift at joint 6 and 114 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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=-90
Trapezoidal Loads (plf)
Vert: 2=-3(F=43, B=43)-to-4=-191(F=-50, B=-50), 6=0(F=10, B=10)-to-5=-42(F=-11, B=-11)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G1	Roof Special Girder	1	1	Job Reference (optional)

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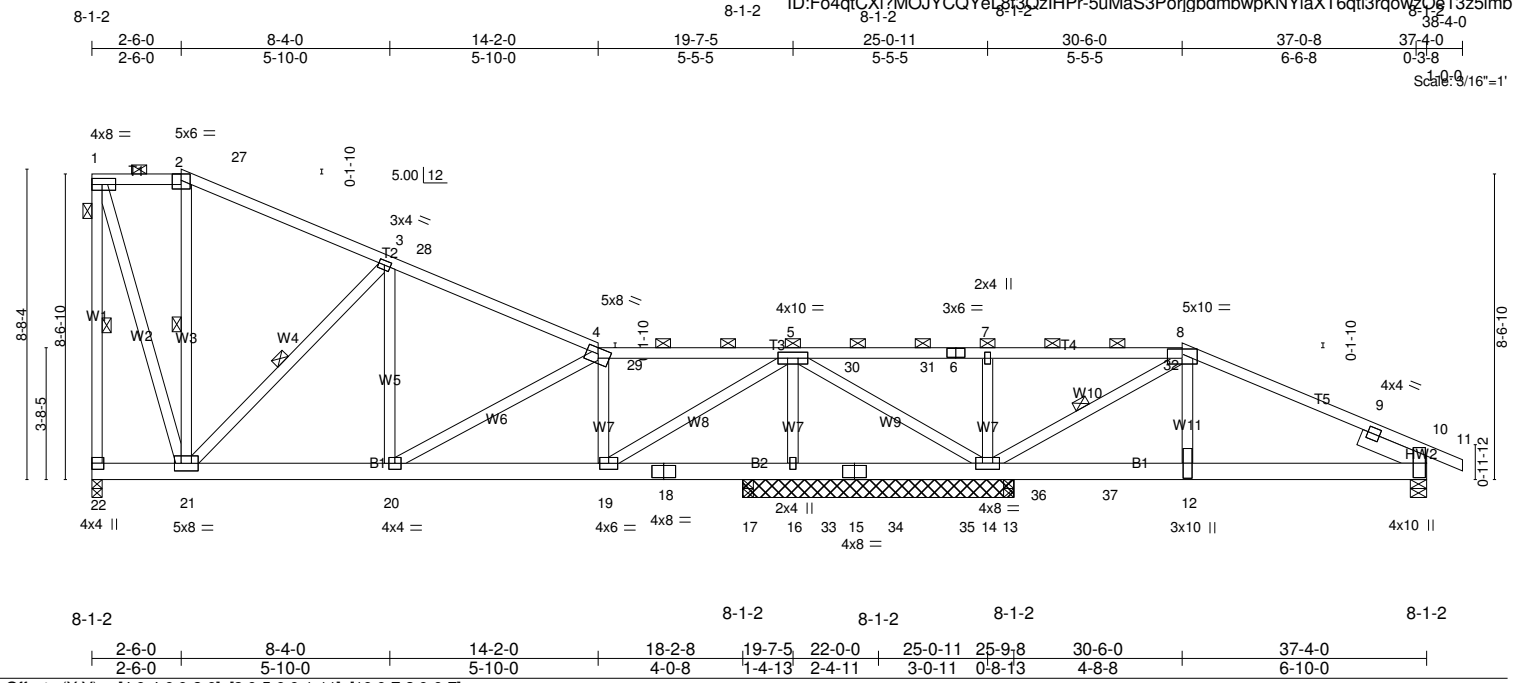

Plate Offsets (X,Y)-- [4:0-4-0,0-2-0], [8:0-5-0,0-1-11], [10:0-7-3,0-0-7]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.06 12-13 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.08 19-20 >999 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.02 10 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 200 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except* T2,T5: 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Right 2x6 SPF 2100F 1.8E -x 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-22, 2-21, 3-21, 8-14

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

REACTIONS. All bearings 0-3-8 except (jt=length) 16=7-7-0, 14=7-7-0, 10=0-5-8.
(lb) - Max Horz 22=-400(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 22=-217(LC 51), 16=-548(LC 10), 14=-607(LC 10), 10=-276(LC 10), 17=-287(LC 55), 13=-311(LC 44)
Max Grav All reactions 250 lb or less at joint(s) except 22=1124(LC 32), 16=2189(LC 31), 14=2192(LC 31), 10=1501(LC 32), 17=419(LC 44), 13=1349(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-1075/260, 1-2=-353/188, 2-27=-337/171, 3-27=-528/162, 3-28=-929/243, 4-28=-1244/241, 4-29=-869/255, 5-29=-871/254, 5-30=-74/697, 30-31=-74/697, 6-31=-74/697, 6-7=-74/697, 7-32=-73/699, 8-32=-73/700, 8-9=-1998/379, 9-10=-545/696
BOT CHORD 21-22=-141/304, 20-21=-39/1023, 19-20=-131/923, 18-19=-685/170, 17-18=-685/170, 16-17=-685/170, 16-33=-685/170, 15-33=-685/170, 15-34=-685/170, 34-35=-685/170, 14-35=-685/170, 13-14=-240/1656, 13-36=-240/1656, 36-37=-240/1656, 12-37=-240/1656, 10-12=-250/1722
WEBS 1-21=-202/1113, 2-21=-305/145, 3-21=-1007/246, 3-20=-19/258, 4-19=-957/200, 5-19=-258/1808, 5-16=-1381/388, 5-14=-220/498, 7-14=-798/169, 8-14=-2519/472, 8-12=-240/1568

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 217 lb uplift at joint 22, 548 lb uplift at joint 16, 607 lb uplift at joint 14, 276 lb uplift at joint 10, 287 lb uplift at joint 17 and 311 lb uplift at joint 13.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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) 352 lb down and 140 lb up at 20-6-13, 352 lb down and 140 lb up at 22-5-4, 352 lb down and 140 lb up at 24-5-4, 352 lb down and 140 lb up at 26-5-4, and 481 lb down and 98 lb up at 28-5-4, and 1246 lb down and 264 lb up at 30-5-4 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
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-4=-90, 4-8=-90, 8-11=-90, 22-23=-20

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 12=-1246(F) 33=-352(F) 34=-352(F) 35=-352(F) 36=-352(F) 37=-481(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G2	Roof Special	1	1	Job Reference (optional)

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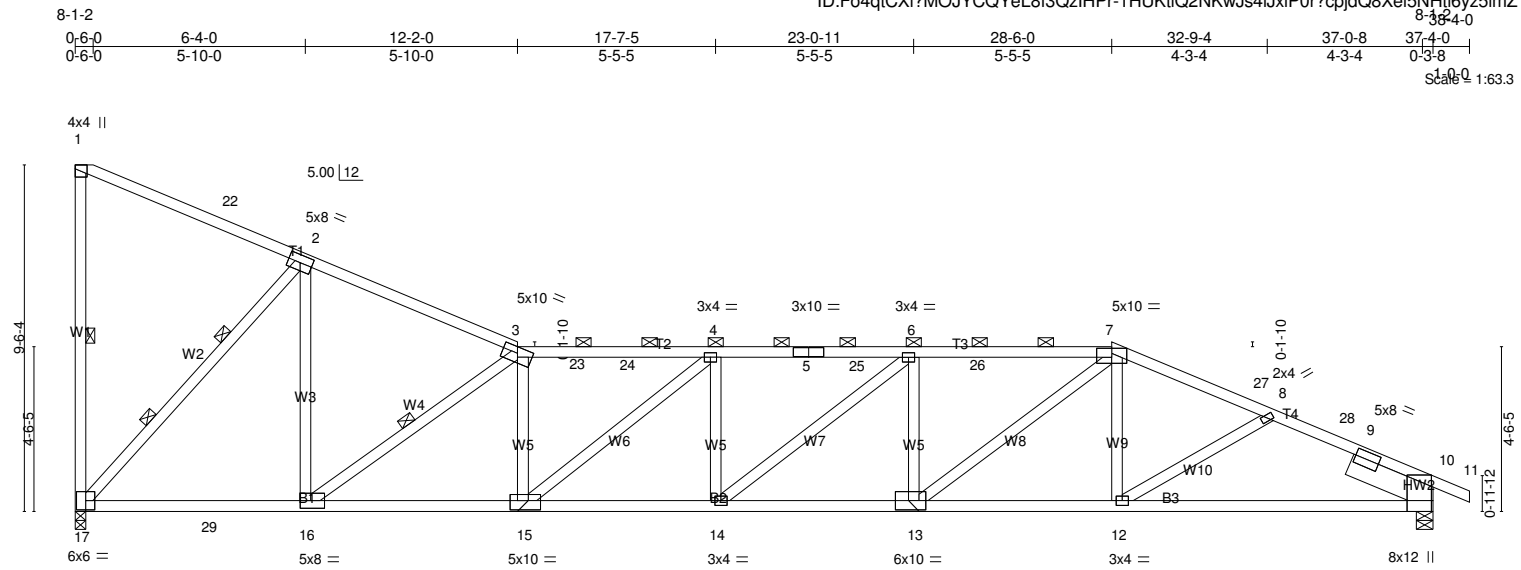

8-1-2 — 8-1-2

6-4-0	12-2-0	17-7-5	23-0-11	28-6-0	37-4-0
6-4-0	5-10-0	5-5-5	5-5-5	5-5-5	8-10-0

Plate Offsets (X,Y)-- [3:0-5-0,0-2-0], [7:0-5-0,0-1-11], [10:0-7-15,Edge], [13:0-4-4,0-3-0], [15:0-4-0,0-3-0], [16:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.44	13-14	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.73	13-14	>610	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.21	10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 180 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E *Except* T4: 2x4 DF 2400F 2.0E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 SPF No.2
SLIDER	Right 2x8 DF 1950F 1.7E -x 2-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 1-17, 3-16 2 Rows at 1/3 pts 2-17

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

REACTIONS. (lb/size) 10=2137/0-5-8 (min. 0-3-10), 17=2044/0-3-8 (min. 0-1-8)
Max Horz 17=-456(LC 12)
Max Uplift10=-428(LC 14), 17=-393(LC 14)
Max Grav 10=2311(LC 40), 17=2495(LC 20)

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

TOP CHORD	1-17=-341/147, 2-22=-306/140, 2-3=-2231/478, 3-23=-4510/925, 23-24=-4511/925, 4-24=-4513/925, 4-5=-5281/1074, 5-25=-5281/1074, 6-25=-5281/1074, 6-26=-5063/1059, 7-26=-5059/1060, 7-27=-3926/852, 8-27=-3933/839, 8-28=-3697/848, 9-28=-3710/840, 9-10=-265/246
BOT CHORD	17-29=-197/1938, 16-29=-197/1938, 15-16=-736/4494, 14-15=-888/5281, 13-14=-872/5059, 12-13=-641/3645, 10-12=-653/3245
WEBS	2-17=-2856/590, 2-16=-370/2218, 3-16=-3329/670, 3-15=-143/897, 4-15=-1237/296, 6-14=-40/453, 6-13=-994/224, 7-13=-294/1800, 8-12=-108/548

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-9, Interior(1) 3-10-9 to 28-6-0, Exterior(2R) 28-6-0 to 32-2-13, Interior(1) 32-2-13 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 10 and 393 lb uplift at joint 17.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G3	Roof Special	1	1	Job Reference (optional)

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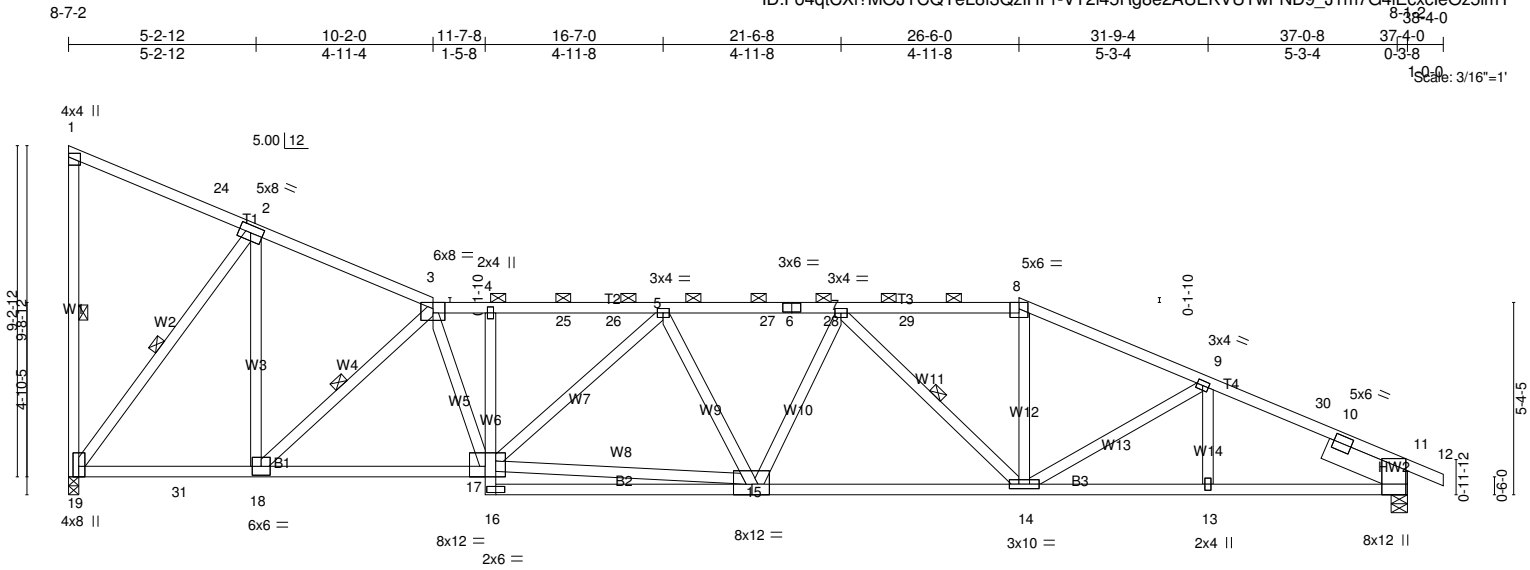

Plate Offsets (X,Y)-- [3:0-3-14,Edge], [11:0-7-15,Edge], [15:0-5-12,Edge], [17:0-5-4,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.38	15-16	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.67	15-16	>663	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.17	19	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 197 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T4: 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x4 SPF 1650F 1.5E, B3: 2x4 DF 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Right 2x8 DF 1950F 1.7E -x 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-10 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 1-19, 2-19, 3-18, 7-14

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

REACTIONS. (lb/size) 11=2136/0-5-8 (min. 0-2-6), 19=2042/0-3-8 (min. 0-1-8)
Max Horz 11=-439(LC 12)
Max Uplift 11=-429(LC 14), 19=-394(LC 14)
Max Grav 11=2374(LC 40), 19=2493(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-279/122, 2-24=-265/138, 2-3=-1905/424, 3-4=-4121/861, 4-25=-4081/853, 25-26=-4081/853, 5-26=-4081/853, 5-27=-4378/902, 6-27=-4378/902, 6-28=-4378/902, 7-28=-4378/902, 7-29=-3455/784, 8-29=-3452/784, 8-9=-3750/812, 9-30=-3718/805, 10-30=-3750/793, 10-11=-455/62
BOT CHORD 19-31=-403/1655, 18-31=-403/1655, 17-18=-780/3774, 15-16=-100/514, 14-15=-1049/4349, 13-14=-1108/3469, 11-13=-1108/3469
WEBS 4-17=-648/128, 2-19=-2734/551, 2-18=-394/2270, 3-18=-2994/624, 3-17=-288/1541, 15-17=-906/4008, 5-17=-645/197, 5-15=-345/91, 7-15=-17/283, 7-14=-1260/204, 8-14=-131/973, 9-14=-357/329

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-9, Interior(1) 3-10-9 to 26-6-0, Exterior(2R) 26-6-0 to 31-9-4, Interior(1) 31-9-4 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 11 and 394 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G4	Roof Special	1	1	Job Reference (optional)

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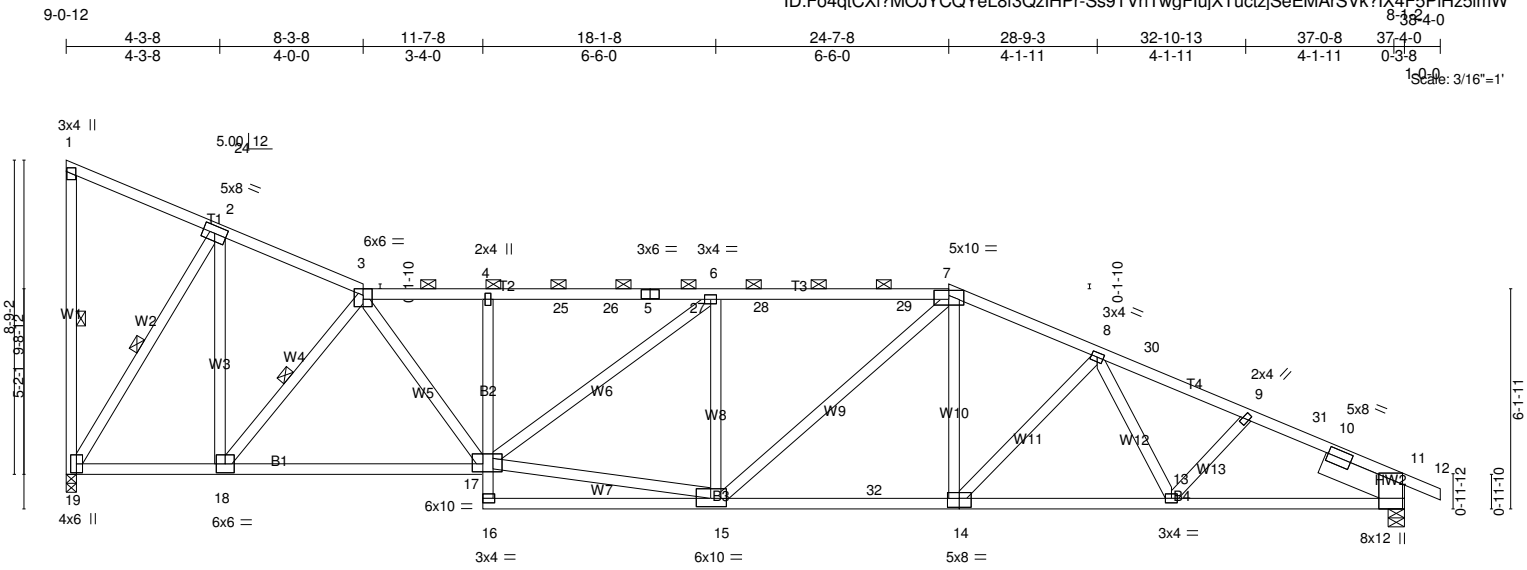

9-0-12 — 8-1-2

4-3-8	7-4-0	6-6-0	6-6-0	6-2-8	6-6-0
4-3-8	11-7-8	18-1-8	24-7-8	30-10-0	37-4-0

Plate Offsets (X,Y)-- [7:0-5-0,0-1-11], [11:0-7-15,Edge], [14:0-4-0,0-3-0], [15:0-4-12,0-2-12], [17:0-3-8,0-2-12]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.89	Vert(LL)	-0.29	14-15	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.98	Vert(CT)	-0.50	17-18	>897	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.92	Horz(CT)	-0.17	19	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 198 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 DF 2400F 2.0E *Except*
T1: 2x4 SPF No.2, T2: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B1,B4: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Right 2x8 DF 1950F 1.7E -x 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-2 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 1-19, 2-19, 3-18

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

REACTIONS. (lb/size) 11=2137/0-5-8 (min. 0-3-14), 19=2044/0-3-8 (min. 0-1-8)
Max Horz 11=-427(LC 10)
Max Uplift 11=-428(LC 14), 19=-394(LC 14)
Max Grav 11=2457(LC 40), 19=2495(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1617/379, 3-4=-3962/824, 4-25=-3939/823, 25-26=-3939/823, 5-26=-3939/823, 5-27=-3939/823, 6-27=-3939/823, 6-28=-3880/845, 28-29=-3875/845, 7-29=-3874/845, 7-8=-3589/799, 8-30=-3626/800, 9-30=-3769/791, 9-31=-3825/797, 10-31=-3856/789
BOT CHORD 18-19=-354/1407, 17-18=-665/3096, 4-17=-768/168, 15-32=-938/3384, 14-32=-938/3384, 13-14=-1067/3552, 11-13=-1087/3516
WEBS 2-19=-2652/525, 2-18=-424/2338, 3-18=-2739/580, 3-17=-354/1736, 15-17=-888/3811, 6-17=-111/284, 6-15=-1059/234, 7-15=-111/924, 7-14=-87/770, 8-14=-703/186, 9-13=0/385

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-9, Interior(1) 3-10-9 to 24-7-8, Exterior(2R) 24-7-8 to 29-10-14, Interior(1) 29-10-14 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 11 and 394 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G5	Roof Special	1	1	Job Reference (optional)

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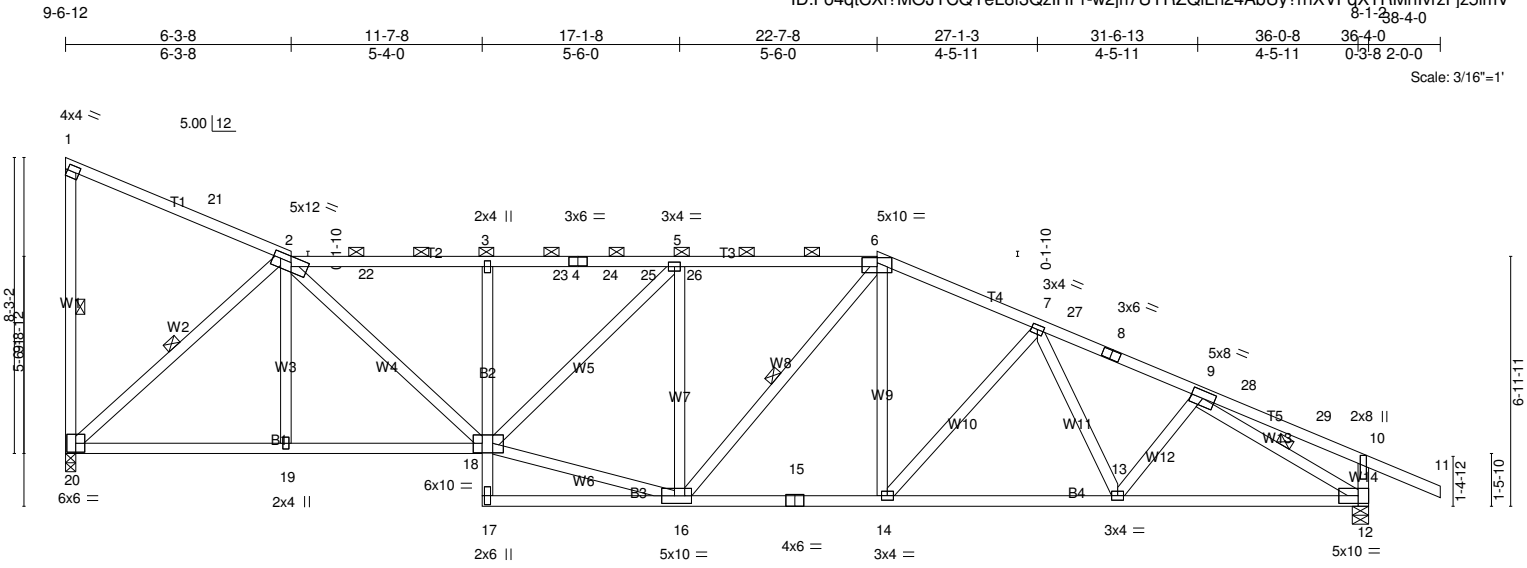
9-6-12
6-3-8
6-3-8
11-7-8
5-4-0
17-1-8
5-6-0
22-7-8
5-6-0
27-1-3
4-5-11
31-6-13
4-5-11
36-0-8
4-5-11
36-4-0
0-3-8
8-1-2
2-0-0
38-4-0
Scale: 3/16"=1'
4x4
5.00 12
T1
21
5x12
2x4 II
3x6
3x4
5x10
T2
T3
T4
T5
2x8 II
3x4
3x6
5x8
6x6
2x4 II
6x10
2x6 II
5x10
4x6
3x4
3x4
5x10
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
W13
W14
B1
B2
B3
B4
8-3-2
5-6-12
6-11-11
1-4-12
1-5-10
0-1-10
0-1-10

9-6-12 — 8-1-2

6-3-8	11-7-8	17-1-8	22-7-8	29-4-0	36-4-0
6-3-8	5-4-0	5-6-0	5-6-0	6-8-8	7-0-0

Plate Offsets (X,Y)-- [1:0-1-1,0-2-0], [2:0-6-4,0-2-0], [6:0-5-0,0-1-11], [12:0-6-8,0-2-8], [16:0-4-4,0-2-8], [18:0-3-0,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.22	14-16	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.37	14-16	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	-0.16	20	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 189 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except* T4,T5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-0 max.): 2-6.
BOT CHORD Rigid ceiling directly applied or 5-11-13 oc bracing.
WEBS 1 Row at midpt 1-20, 2-20, 6-16, 9-12

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

REACTIONS. (lb/size) 12=2181/0-5-8 (min. 0-1-8), 20=1977/0-3-8 (min. 0-1-8)
Max Horz 12=-442(LC 10)
Max Uplift 12=-474(LC 14), 20=-381(LC 14)
Max Grav 12=2552(LC 40), 20=2424(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-400/163, 2-21=-280/115, 2-22=-3606/757, 3-22=-3611/757, 3-23=-3583/753, 4-23=-3583/753, 4-24=-3583/753, 24-25=-3583/753, 5-25=-3583/753, 5-26=-3150/719, 6-26=-3149/720, 6-7=-3056/697, 7-27=-3157/679, 8-27=-3225/672, 8-9=-3331/671, 10-29=-269/91, 10-12=-674/266
BOT CHORD 19-20=-521/2351, 18-19=-523/2347, 3-18=-807/173, 15-16=-825/2889, 14-15=-825/2889, 13-14=-949/3064, 12-13=-974/2989
WEBS 2-20=-3067/609, 2-19=0/274, 2-18=-435/1894, 16-18=-804/3240, 5-18=-90/695, 5-16=-1259/246, 6-16=-75/682, 6-14=-87/712, 7-14=-657/184, 9-13=0/452, 9-12=-3268/638

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 22-7-8, Exterior(2R) 22-7-8 to 27-9-3, Interior(1) 27-9-3 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 12, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 12 and 381 lb uplift at joint 20.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G6	Roof Special	1	1	Job Reference (optional)

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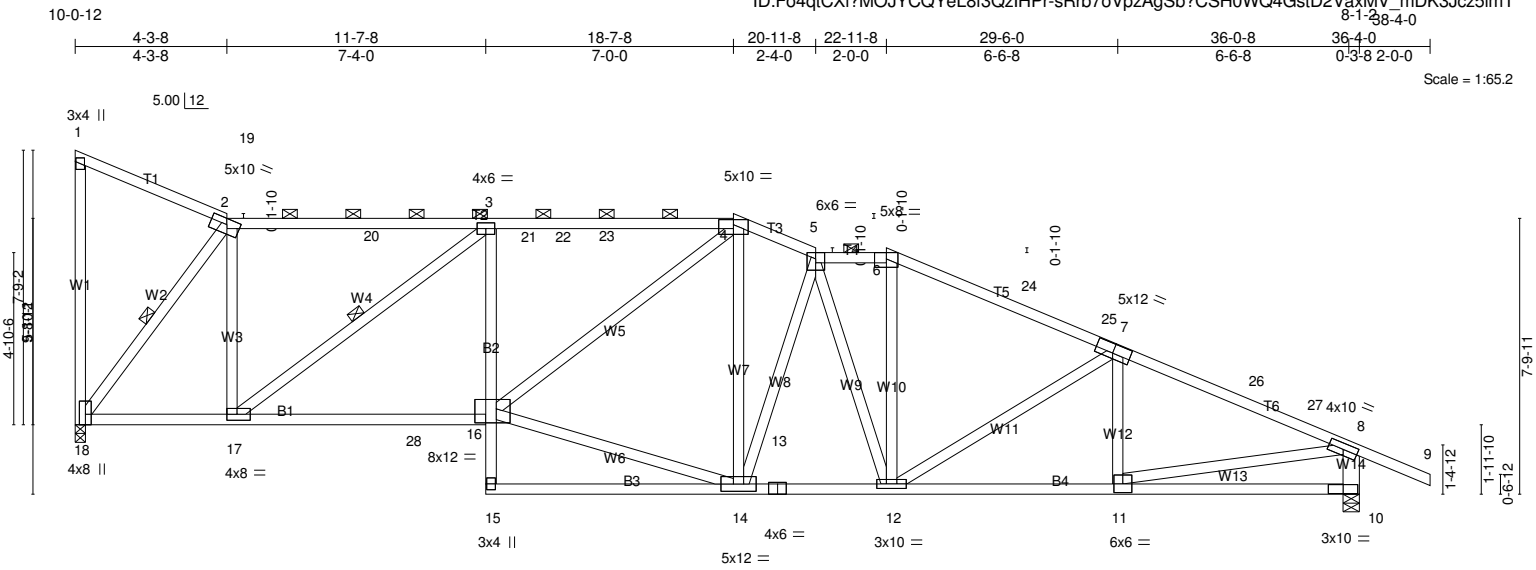

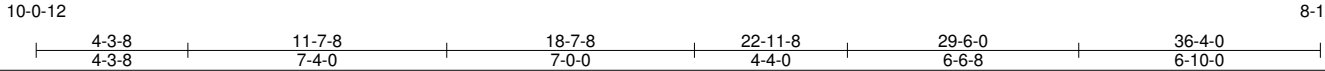

Plate Offsets (X,Y)-- [2:0-5-8,0-2-0], [4:0-5-0,0-1-11], [6:0-4-2,Edge], [7:0-6-0,0-3-4], [16:0-7-4,0-4-12], [17:0-3-8,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.24	14-15	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.45	14-15	>965	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.14	18	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 200 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T2: 2x4 DF 2400F 2.0E, T5,T6: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W14: 2x6 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-8 max.): 2-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 5-10-2 oc bracing.
WEBS 1 Row at midpt 2-18, 3-17

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

REACTIONS. (lb/size) 10=2185/0-5-8 (min. 0-1-8), 18=1971/0-3-8 (min. 0-1-8)
Max Horz 10=-432(LC 10)
Max Uplift 10=-477(LC 14), 18=-381(LC 14)
Max Grav 10=2626(LC 34), 18=2419(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-260/109, 2-20=-1654/417, 3-20=-1658/417, 3-21=-3501/818, 21-22=-3500/819, 22-23=-3498/819, 4-23=-3497/819, 4-5=-2852/744, 5-6=-2705/718, 6-24=-2935/736, 24-25=-3037/724, 7-25=-3055/714, 7-26=-3303/703, 26-27=-3428/690, 8-27=-3558/682, 8-10=-2555/647
BOT CHORD 17-18=-397/1617, 17-28=-897/3583, 16-28=-896/3587, 3-16=-113/777, 13-14=-868/2924, 12-13=-868/2924, 11-12=-1024/3280, 10-11=-614/514
WEBS 2-18=-2705/558, 2-17=-271/1632, 3-17=-2438/617, 14-16=-807/2792, 4-16=-157/1164, 4-14=-150/394, 5-14=-979/280, 5-12=-641/95, 6-12=-103/766, 7-12=-610/168, 7-11=-384/171, 8-11=-578/2914

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 18-7-8, Exterior(2E) 18-7-8 to 20-11-8, Interior(1) 20-11-8 to 22-11-8, Exterior(2R) 22-11-8 to 26-7-2, Interior(1) 26-7-2 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 10, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 10 and 381 lb uplift at joint 18.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G7	Roof Special	1	1	Job Reference (optional)

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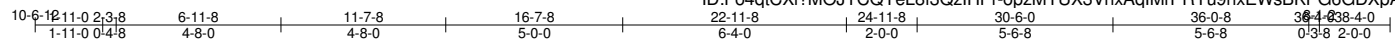

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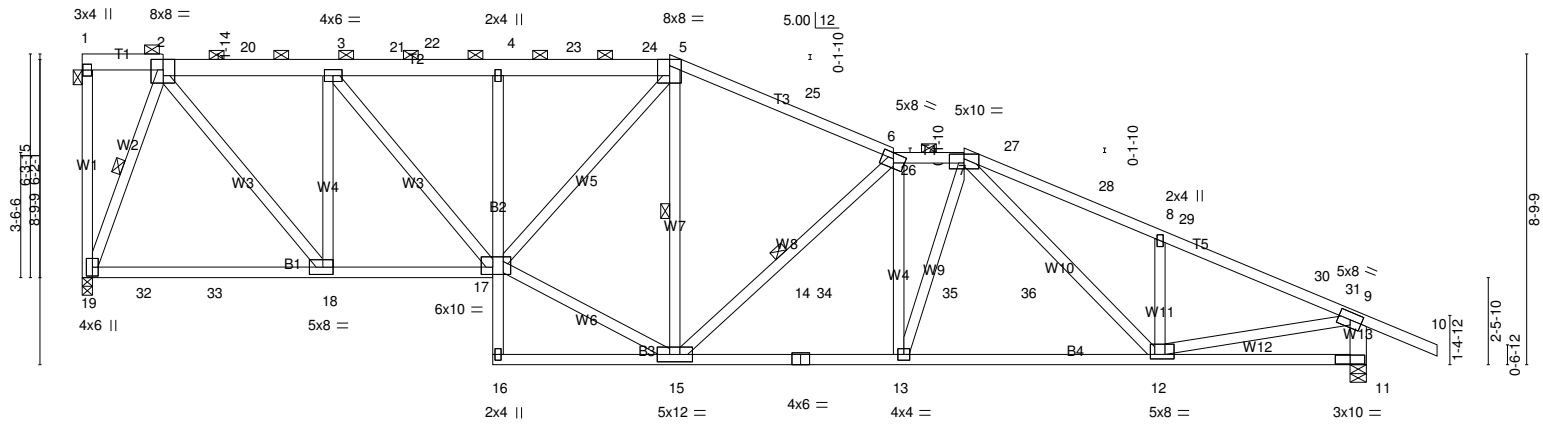

10-6-12 — 8-1-2

1-11-0	2-3-8	6-11-8	11-7-8	16-7-8	22-11-8	30-6-0	36-4-0
1-11-0	0-4-8	4-8-0	4-8-0	5-0-0	6-4-0	7-6-8	5-10-0

Plate Offsets (X,Y)-- [2:0-3-14,Edge], [5:0-4-2,Edge], [6:0-4-0,0-2-0], [7:0-5-0,0-1-11], [12:0-1-8,0-1-8], [17:0-4-0,0-2-8], [18:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.22	12-13	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.39	12-13	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	-0.10	19	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 210 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E *Except*
T3: 2x4 DF 2400F 2.0E, T4: 2x4 SPF No.2, T5: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B4: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W13: 2x6 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-2 max.): 1-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-15, 6-15, 2-19

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

REACTIONS. (lb/size) 11=2185/0-5-8 (min. 0-1-8), 19=1971/0-3-8 (min. 0-1-8)
Max Horz 11=-376(LC 10)
Max Uplift 11=-478(LC 14), 19=-380(LC 14)
Max Grav 11=2689(LC 48), 19=2421(LC 47)

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

TOP CHORD 2-20=-2272/557, 3-20=-2278/557, 3-21=-3108/755, 21-22=-3108/755, 4-22=-3108/755, 4-23=-3110/759, 23-24=-3103/759, 5-24=-3100/760, 5-25=-2535/673, 6-25=-2599/661, 6-26=-3267/767, 7-26=-3267/767, 7-27=-3444/766, 27-28=-3508/758, 8-28=-3634/754, 8-29=-3404/673, 29-30=-3428/672, 30-31=-3619/656, 9-31=-3642/654, 9-11=-2619/639
BOT CHORD 19-32=-264/854, 32-33=-264/854, 18-33=-264/854, 17-18=-584/2318, 4-17=-762/187, 14-15=-956/3348, 14-34=-956/3348, 13-34=-956/3348, 13-35=-933/3098, 35-36=-933/3098, 12-36=-933/3098, 11-12=-527/406
WEBS 2-18=-514/2354, 3-18=-1636/470, 3-17=-397/1323, 15-17=-784/2641, 5-17=-201/1264, 5-15=-447/168, 6-15=-1380/342, 6-13=-677/206, 7-13=-151/926, 7-12=-168/425, 8-12=-747/245, 9-12=-590/3146, 2-19=-2420/597

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 16-7-8, Exterior(2R) 16-7-8 to 20-3-2, Interior(1) 20-3-2 to 24-11-8, Exterior(2R) 24-11-8 to 28-7-2, Interior(1) 28-7-2 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 11, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 478 lb uplift at joint 11 and 380 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G8	Roof Special	1	1	Job Reference (optional)

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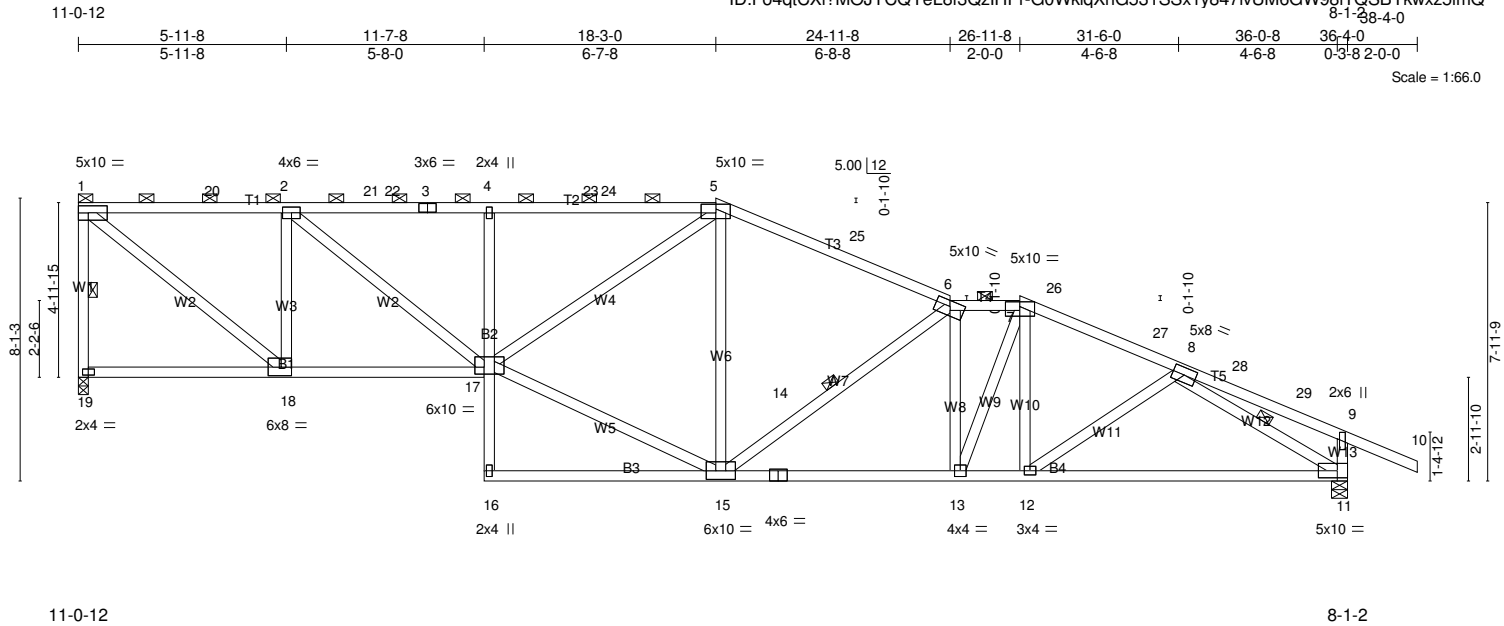

11-0-12 — 8-1-2

5-11-8	11-7-8	18-3-0	24-11-8	26-11-8	36-4-0
5-11-8	5-8-0	6-7-8	6-8-8	2-0-0	9-4-8

Plate Offsets (X,Y)-- [5:0-5-0,0-1-11], [6:0-5-0,0-2-0], [7:0-5-0,0-1-11], [11:0-6-8,0-2-8], [17:0-3-4,0-2-8], [18:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.24	4-17	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	11-12	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	-0.15	19	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 189 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x4 SPF 1650F 1.5E, T3,T2: 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-7-0 max.): 1-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 5-10-2 oc bracing.
WEBS 1 Row at midpt 1-19, 6-15, 8-11

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

REACTIONS. (lb/size) 11=2181/0-5-8 (min. 0-1-9), 19=1977/0-3-8 (min. 0-1-8)
Max Horz 11=-328(LC 10)
Max Uplift 11=-474(LC 14), 19=-381(LC 14)
Max Grav 11=2597(LC 36), 19=2477(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-2421/538, 1-20=-2599/575, 2-20=-2599/575, 2-21=-3963/890, 21-22=-3963/890, 3-22=-3963/890, 3-4=-3963/890, 4-23=-3969/896, 23-24=-3965/896, 5-24=-3965/896, 5-25=-2733/702, 6-25=-2790/690, 6-7=-3240/805, 7-26=-3086/737, 26-27=-3164/729, 8-27=-3293/723, 9-11=-670/257
BOT CHORD 17-18=-606/2599, 4-17=-925/225, 14-15=-1005/3263, 13-14=-1005/3263, 12-13=-930/2933, 11-12=-992/2848
WEBS 1-18=-705/3296, 2-18=-1942/509, 2-17=-473/1754, 15-17=-801/2748, 5-17=-297/1773, 5-15=-544/191, 6-15=-1230/342, 6-13=-905/258, 7-13=-261/993, 8-12=-12/443, 8-11=-3314/717

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 18-3-0, Exterior(2R) 18-3-0 to 21-10-10, Interior(1) 21-10-10 to 26-11-8, Exterior(2R) 26-11-8 to 30-7-2, Interior(1) 30-7-2 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 11, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 11 and 381 lb uplift at joint 19.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G9	Roof Special	1	1	Job Reference (optional)

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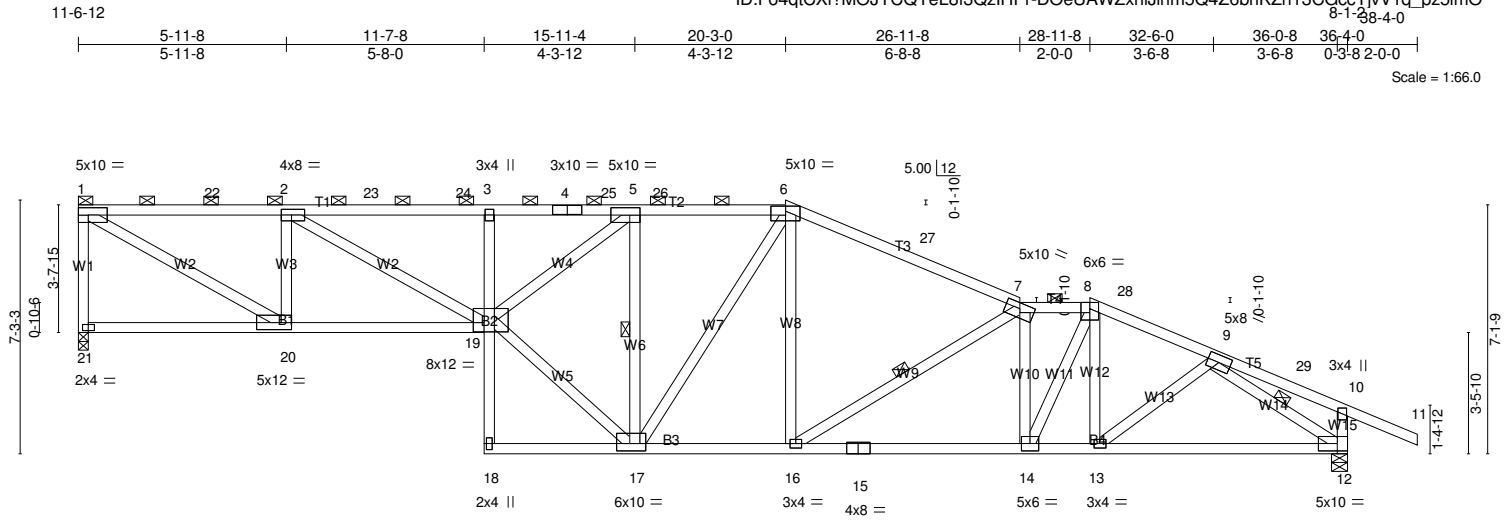

11-6-12 — 8-1-2

5-11-8	11-7-8	15-11-4	20-3-0	26-11-8	28-11-8	36-4-0
5-11-8	5-8-0	4-3-12	4-3-12	6-8-8	2-0-0	7-4-8

Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [5:0-3-8,0-2-8], [6:0-5-0,0-1-11], [7:0-5-0,0-2-0], [12:0-6-8,0-2-8], [17:0-4-8,0-2-8], [19:0-3-12,0-3-4], [20:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.41	18	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.66	18	>653	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.21	21	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 185 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x4 SPF 1650F 1.5E, T3: 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
W2: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-1-2 max.): 1-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-17, 7-16, 9-12

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

REACTIONS. (lb/size) 12=2181/0-5-8 (min. 0-1-8), 21=1977/0-3-8 (min. 0-1-8)
Max Horz 12=-277(LC 10)
Max Uplift 12=-474(LC 14), 21=-381(LC 14)
Max Grav 12=2493(LC 36), 21=2551(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-2491/520, 1-22=-3760/734, 2-22=-3760/734, 2-23=-5726/1176, 23-24=-5726/1176, 3-24=-5726/1176, 3-4=-5676/1170, 4-25=-5676/1170, 5-25=-5676/1170, 5-26=-3068/719, 6-26=-3064/720, 6-27=-3120/740, 7-27=-3178/727, 7-8=-3400/828, 8-28=-3030/726, 9-28=-3136/720, 10-12=-594/249
BOT CHORD 19-20=-779/3760, 3-19=-645/149, 16-17=-763/2870, 15-16=-1034/3441, 14-15=-1034/3441, 13-14=-917/2850, 12-13=-909/2497
WEBS 1-20=-844/4278, 2-20=-2019/487, 2-19=-544/2272, 17-19=-918/3927, 5-19=-679/3359, 5-17=-2752/550, 6-17=-348/366, 6-16=-114/718, 7-16=-1119/316, 7-14=-1150/317, 8-14=-308/1334, 8-13=-307/92, 9-13=-76/681, 9-12=-3082/677

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 20-3-0, Exterior(2R) 20-3-0 to 23-10-10, Interior(1) 23-10-10 to 28-11-8, Exterior(2R) 28-11-8 to 32-7-1, Interior(1) 32-7-1 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 12, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 12 and 381 lb uplift at joint 21.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G10	Roof Special	1	1	Job Reference (optional)

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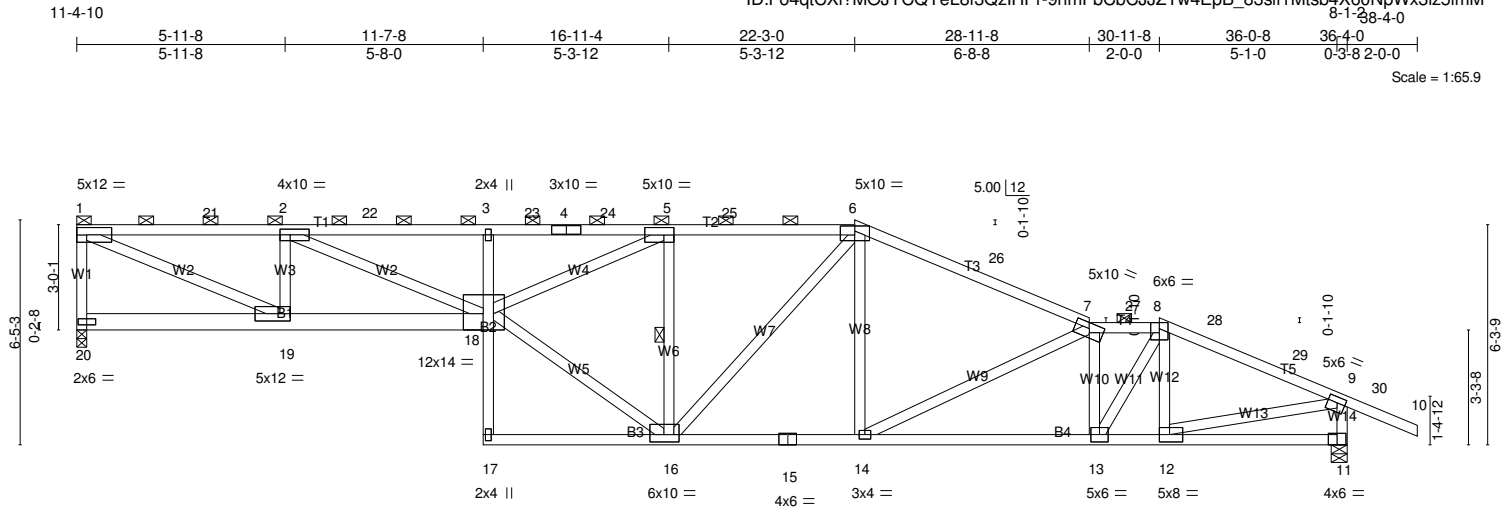

11-4-10 — 8-1-2

5-11-8	11-7-8	16-11-4	22-3-0	28-11-8	30-11-8	36-4-0
5-11-8	5-8-0	5-3-12	5-3-12	6-8-8	2-0-0	5-4-8

Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [5:0-3-8,0-2-8], [6:0-5-0,0-1-11], [7:0-5-0,0-2-0], [9:0-2-12,0-2-0], [12:0-3-8,0-2-8], [16:0-4-12,0-2-8], [18:0-6-12,Edge], [19:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.53	17	>822	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.82	17	>526	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.21	20	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 186 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 DF 2400F 2.0E *Except*
T4,T5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B1: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
W2,W5,W4: 2x4 SPF 1650F 1.5E

BRACING-

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

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

REACTIONS. (lb/size) 11=2181/0-5-8 (min. 0-1-8), 20=1977/0-3-8 (min. 0-1-8)
Max Horz 11=-239(LC 10)
Max Uplift 11=-475(LC 14), 20=-380(LC 14)
Max Grav 11=2379(LC 36), 20=2614(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-2527/497, 1-21=-4908/886, 2-21=-4908/886, 2-22=-7555/1442, 3-22=-7555/1442, 3-23=-7523/1441, 4-23=-7523/1441, 4-24=-7523/1441, 5-24=-7523/1441, 5-25=-3699/787, 6-25=-3695/788, 6-26=-3531/780, 7-26=-3588/767, 7-27=-3706/852, 8-27=-3706/852, 8-28=-3040/697, 28-29=-3056/689, 9-29=-3113/681, 9-11=-2318/648
BOT CHORD 18-19=-933/4908, 3-18=-685/159, 15-16=-802/3250, 14-15=-802/3250, 13-14=-1059/3769, 12-13=-888/2859, 11-12=-406/287
WEBS 1-19=-967/5278, 2-19=-2072/469, 2-18=-621/2905, 16-18=-919/4320, 5-18=-803/4295, 5-16=-2774/532, 6-16=-151/675, 6-14=-72/576, 7-14=-994/284, 7-13=-1402/364, 8-13=-363/1715, 8-12=-570/153, 9-12=-571/2797

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 22-3-0, Exterior(2R) 22-3-0 to 25-10-10, Interior(1) 25-10-10 to 30-11-8, Exterior(2R) 30-11-8 to 34-7-2, Interior(1) 34-7-2 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 11, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 11 and 380 lb uplift at joint 20.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G11	Roof Special	1	1	Job Reference (optional)

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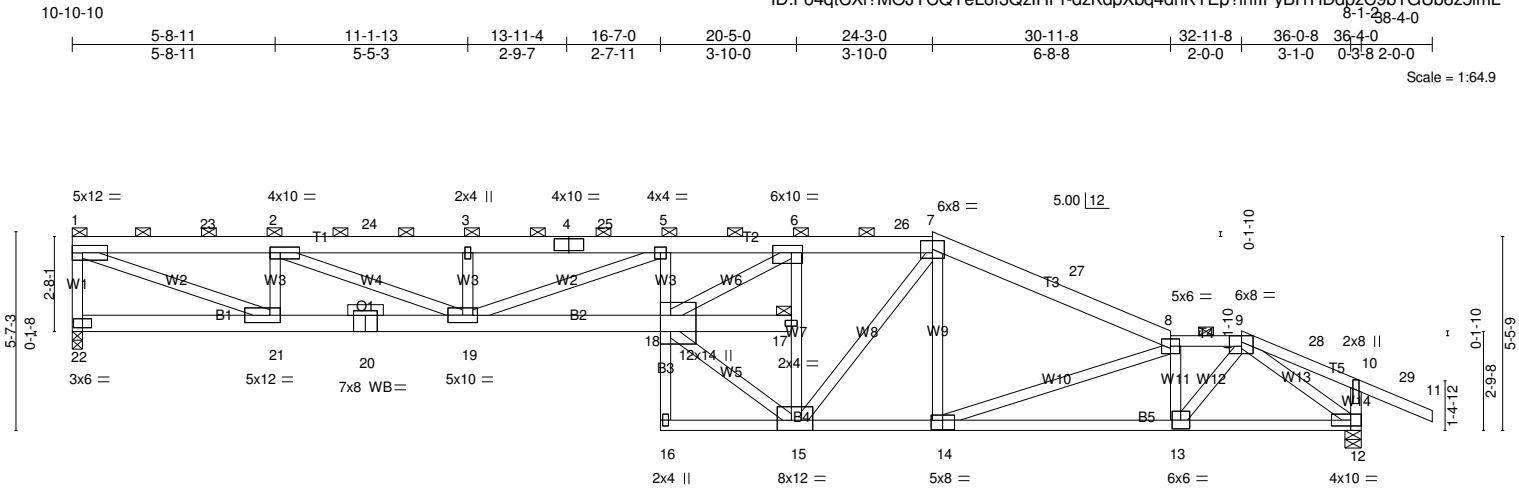

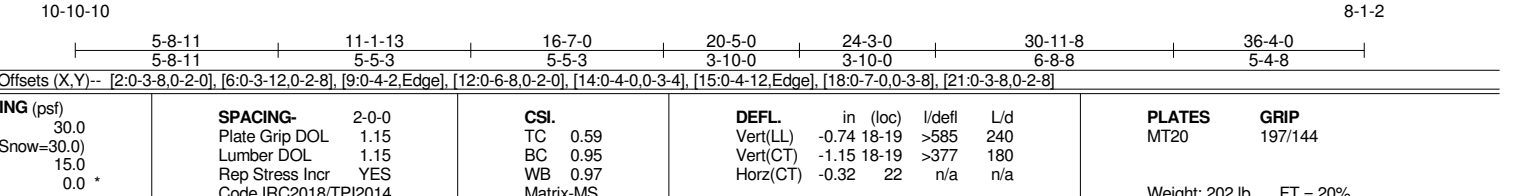

Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [6:0-3-12,0-2-8], [9:0-4-2,Edge], [12:0-6-8,0-2-0], [14:0-4-0,0-3-4], [15:0-4-12,Edge], [18:0-7-0,0-3-8], [21:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.74	18-19	>585	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.15	18-19	>377	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	-0.32	22	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS							Weight: 202 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E *Except* T4,T5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* B1,B2: 2x6 SPF 2100F 1.8E, B5: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except* W2,W5: 2x4 SPF 1650F 1.5E, W6: 2x4 DF 2400F 2.0E
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-1 max.): 1-7, 8-9.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
JOINTS 1 Brace at Jt(s): 1, 17

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

REACTIONS. (lb/size) 12=2181/0-5-8 (min. 0-1-8), 22=1977/0-3-8 (min. 0-1-8)
Max Horz 12=-205(LC 10)
Max Uplift12=-478(LC 14), 22=-378(LC 14)
Max Grav 12=2256(LC 36), 22=2668(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-2568/480, 1-23=-5674/973, 2-23=-5674/973, 2-24=-9024/1586, 3-24=-9024/1586, 3-4=-9024/1586, 4-25=-9024/1586, 5-25=-9024/1586, 5-6=-10062/1879, 6-26=-4306/881, 7-26=-4301/882, 7-27=-4008/834, 8-27=-4052/821, 8-9=-4006/855, 10-12=-600/260
BOT CHORD 20-21=-1009/5674, 19-20=-1009/5674, 18-19=-1927/10062, 14-15=-851/3695, 13-14=-1059/4110, 12-13=-777/2588
WEBS 1-21=-1035/5966, 2-21=-2141/449, 2-19=-674/3617, 3-19=-781/178, 15-17=-4046/739, 6-17=-3970/719, 7-15=-108/1017, 7-14=-30/424, 8-14=-855/220, 8-13=-1757/438, 9-13=-470/2332, 9-12=-3155/650, 5-19=-1158/315, 6-18=-1215/6657, 15-18=-1089/5341

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 24-3-0, Exterior(2R) 24-3-0 to 27-10-10, Interior(1) 27-10-10 to 32-11-8, Exterior(2R) 32-11-8 to 36-7-2, Interior(1) 36-7-2 to 38-4-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 12, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 478 lb uplift at joint 12 and 378 lb uplift at joint 22.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G12	Roof Special Girder	1	1	Job Reference (optional)

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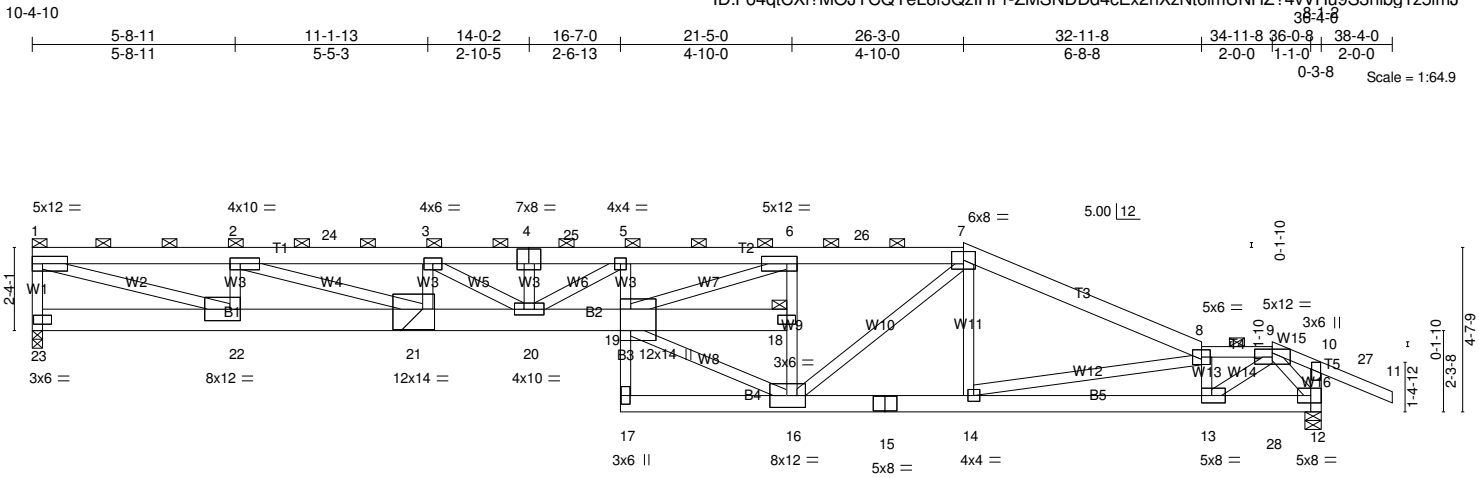

10-4-10 — 8-1-2

5-8-11	11-1-13	14-0-2	16-7-0	21-5-0	26-3-0	32-11-8	36-4-0
5-8-11	5-5-3	2-10-5	2-6-13	4-10-0	4-10-0	6-8-8	3-4-8

Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [4:0-4-0,0-5-0], [6:0-3-8,0-2-8], [9:0-6-0,0-1-5], [12:0-4-8,0-2-8], [13:0-3-8,0-2-8], [16:0-5-12,0-4-0], [19:0-7-0,0-3-8], [21:0-4-0,0-7-0], [22:0-3-8,0-4-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.93	19-20	>465	240	MT20	118/123
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.41	19-20	>306	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	-0.29	23	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS							Weight: 237 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E *Except*
T4,T5: 2x4 SPF No.2

BOT CHORD 2x6 SPF 2100F 1.8E *Except*
B1: 2x8 DF 1950F 1.7E, B3: 2x4 SPF No.2, B2: 1 1/2" x 7 1/4" 2.0E Microllam® LVL

WEBS 2x4 SPF No.2 *Except*
W2,W7: 2x4 DF 2400F 2.0E, W8: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-1-8 max.): 1-7, 8-9.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-7-12 oc bracing: 20-21
8-11-11 oc bracing: 19-20.

JOINTS 1 Brace at Jt(s): 1, 18

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

REACTIONS. (lb/size) 12=2121/0-5-8 (min. 0-1-8), 23=1974/0-3-8 (min. 0-1-8)
Max Horz 12=-171(LC 6)
Max Uplift 12=-537(LC 10), 23=-378(LC 10)
Max Grav 12=2278(LC 31), 23=2710(LC 31)

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

TOP CHORD 1-23=-2566/385, 1-2=-6965/1008, 2-24=-10551/1526, 3-24=-10551/1526, 3-4=-12060/1762, 4-25=-12058/1762, 5-25=-12058/1762, 5-6=-12023/1789, 6-26=-5372/850, 7-26=-5368/851, 7-8=-4557/731, 8-9=-4091/700, 10-12=-577/223

BOT CHORD 21-22=-951/6965, 20-21=-1528/10880, 19-20=-1731/12023, 15-16=-663/4170, 14-15=-663/4170, 13-14=-787/4293, 13-28=-314/1656, 12-28=-314/1656

WEBS 1-22=-999/7112, 2-22=-2108/366, 2-21=-550/3815, 3-21=-1364/247, 16-19=-856/5785, 6-19=-993/7038, 16-18=-3630/554, 6-18=-3379/517, 7-16=-179/1598, 7-14=0/338, 8-14=-606/127, 8-13=-2077/416, 9-13=-558/3139, 9-12=-2504/343, 5-19=-389/88, 3-20=-210/1396, 4-20=-347/67

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 12, 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 537 lb uplift at joint 12 and 378 lb uplift at joint 23.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 257 lb up at 34-11-8 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: 1-7=-90, 7-8=-90, 8-9=-90, 9-10=-90, 10-11=-90, 19-23=-20, 12-17=-20
Concentrated Loads (lb)
Vert: 28=62(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	G13	Roof Special Girder	1	3	Job Reference (optional)

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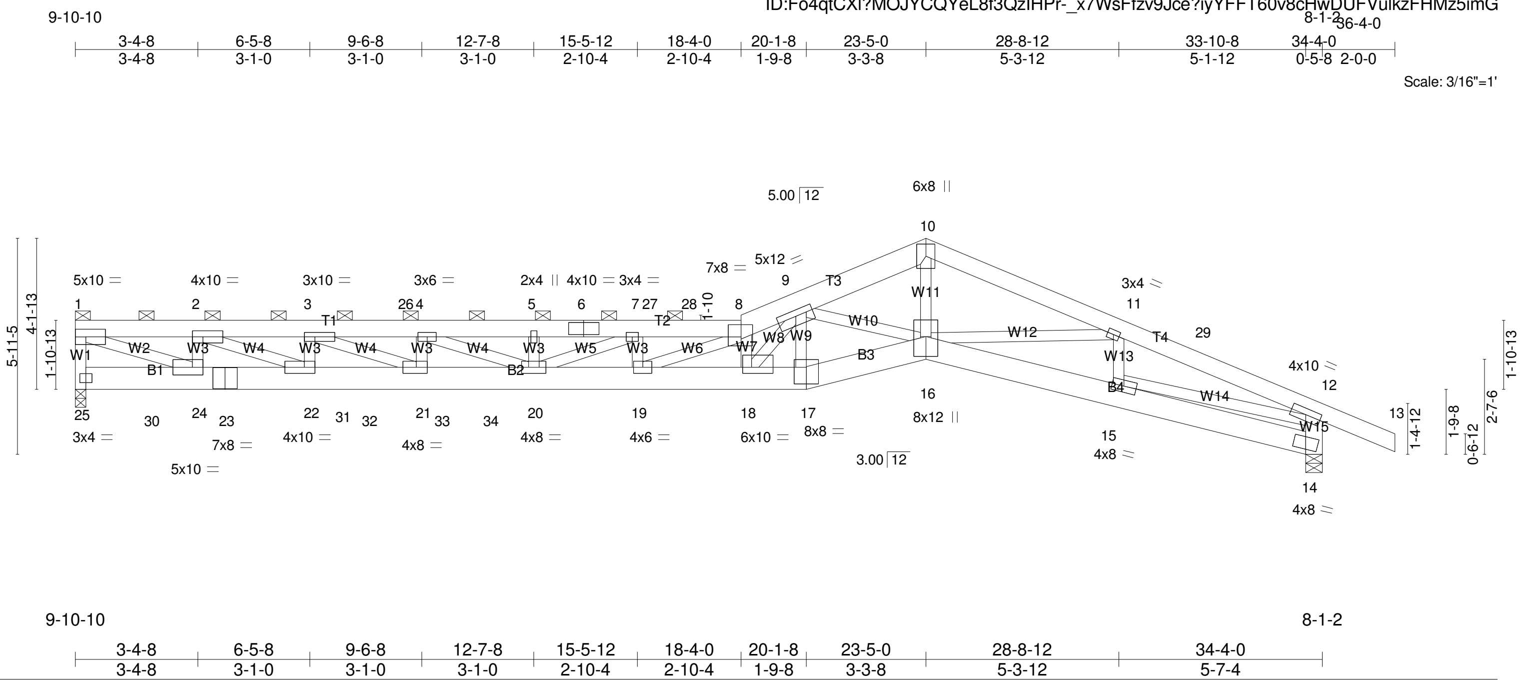

Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [3:0-3-8,0-1-8], [8:0-4-4,0-4-0], [9:0-5-14,0-2-0], [16:0-6-8,0-4-0], [17:0-4-0,0-5-8], [18:0-3-0,0-2-0], [21:0-3-8,0-2-0], [22:0-3-8,0-2-0], [24:0-3-8,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.86 19-20 >473 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.92	Vert(CT) -1.39 19-20 >293 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.90	Horz(CT) -0.30 25 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 670 lb FT = 20%
BCDL 10.0				

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E *Except*
T3: 2x8 DF 1950F 1.7E

BOT CHORD 2x8 DF 1950F 1.7E

WEBS 2x4 SPF No.2 *Except*
W2,W8: 2x4 SPF 1650F 1.5E, W9: 2x4 DF 2400F 2.0E, W15: 2x6 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-2 max.): 1-8.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=3631/0-5-8 (min. 0-1-8), 25=5919/0-3-8 (min. 0-1-8)
Max Horz 14=-165(LC 49)
Max Uplift14=-754(LC 10), 25=-1108(LC 10)
Max Grav 14=3631(LC 1), 25=6392(LC 29)

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

TOP CHORD 1-25=-5809/1023, 1-2=-13238/2335, 2-3=-23311/4119, 3-26=-30675/5454, 4-26=-30675/5454, 4-5=-34150/6119, 5-6=-34150/6119, 6-27=-34150/6119, 7-27=-34150/6119, 7-28=-32255/5836, 8-28=-32255/5836, 8-9=-28018/5173, 9-10=-11946/2260, 10-11=-11806/2229, 11-29=-8983/1711, 12-29=-9151/1696, 12-14=-3668/802

BOT CHORD 25-30=-110/585, 24-30=-110/585, 23-24=-2291/13238, 23-31=-2291/13238, 22-31=-2291/13238, 22-32=-4075/23311, 21-32=-4075/23311, 21-33=-5410/30675, 33-34=-5410/30675, 20-34=-5410/30675, 19-20=-5793/32255, 18-19=-4981/27293, 17-18=-3313/18102, 16-17=-3378/18459, 15-16=-1595/8484, 14-15=-363/1560

WEBS 1-24=-2401/13741, 2-24=-4728/857, 2-22=-1952/11020, 3-22=-3691/684, 3-21=-1461/8056, 4-21=-2043/402, 4-20=-728/3993, 5-20=-314/202, 7-20=-1126/2213, 7-19=-1664/327, 8-19=-950/5502, 9-17=-2596/501, 9-16=-7594/1396, 10-16=-1610/8826, 11-16=-433/2974, 11-15=-1500/352, 12-15=-1225/6720, 8-18=-13178/2398, 9-18=-2426/13612

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc, 2x8 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-24 2x4 - 1 row at 0-7-0 oc, member 8-18 2x4 - 1 row at 0-4-0 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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.
11) Bearing at joint(s) 14, 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 754 lb uplift at joint 14 and 1108 lb uplift at joint 25.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 507 lb down and 106 lb up at 2-0-12, 507 lb down and 106 lb up at 4-0-12, 507 lb down and 106 lb up at 6-0-12, 507 lb down and 106 lb up at 8-0-12, 507 lb down and 106 lb up at 10-0-12, and 507 lb down and 106 lb up at 11-4-12, and 2575 lb down and 488 lb up at 12-7-8 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: 1-8=-90, 8-10=-90, 10-12=-90, 12-13=-90, 17-25=-20, 16-17=-20, 14-16=-20
   Concentrated Loads (lb)
      Vert: 23=-507(B) 20=-2575(B) 30=-507(B) 31=-507(B) 32=-507(B) 33=-507(B) 34=-507(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GC1	Jack-Open	1	1	Job Reference (optional)

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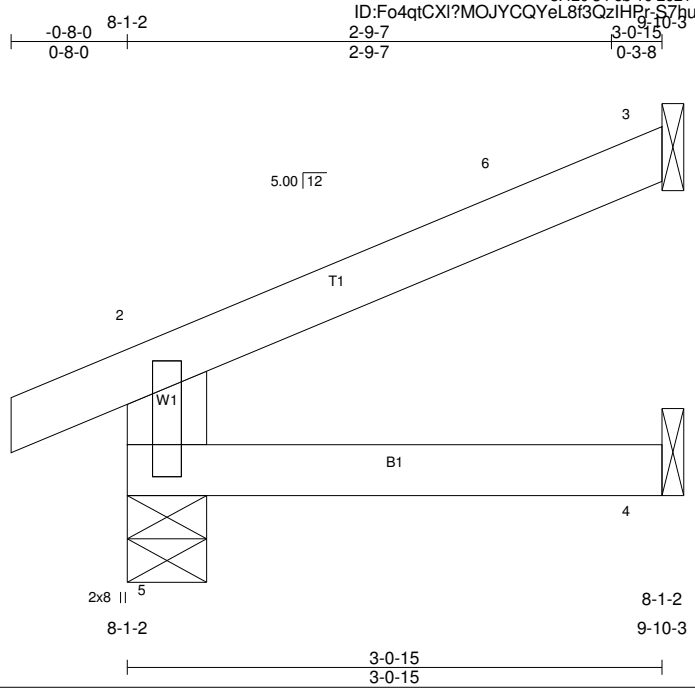

Plate Offsets (X,Y)-- [5:0-4-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/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 2x6 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-15 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=247/0-5-8 (min. 0-1-8), 3=107/Mechanical, 4=34/Mechanical
Max Horz 5=87(LC 14)
Max Uplift 5=-56(LC 14), 3=-47(LC 14)
Max Grav 5=329(LC 19), 3=145(LC 19), 4=52(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-310/186

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 3-0-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 56 lb uplift at joint 5 and 47 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GC2	Jack-Open	1	1	Job Reference (optional)

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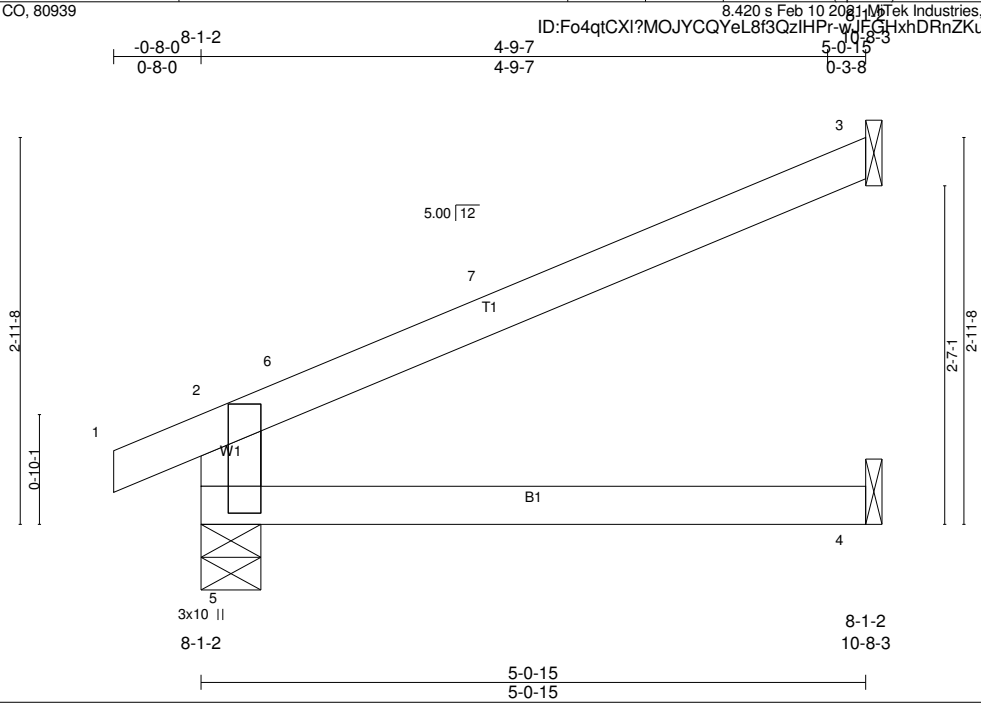

Plate Offsets (X,Y)-- [5:0-5-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.05	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.08	4-5	>757	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MR							Weight: 14 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x6 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-15 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=351/0-5-8 (min. 0-1-8), 3=190/Mechanical, 4=66/Mechanical
Max Horz 5=119(LC 14)
Max Uplift 5=-69(LC 14), 3=-78(LC 14)
Max Grav 5=483(LC 19), 3=270(LC 19), 4=92(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-463/248

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 5-0-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 69 lb uplift at joint 5 and 78 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GC3	Jack-Open	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 16 2021 MiTek Industries, Inc. Wed Jun 16 11:22:56 2021 Page 1
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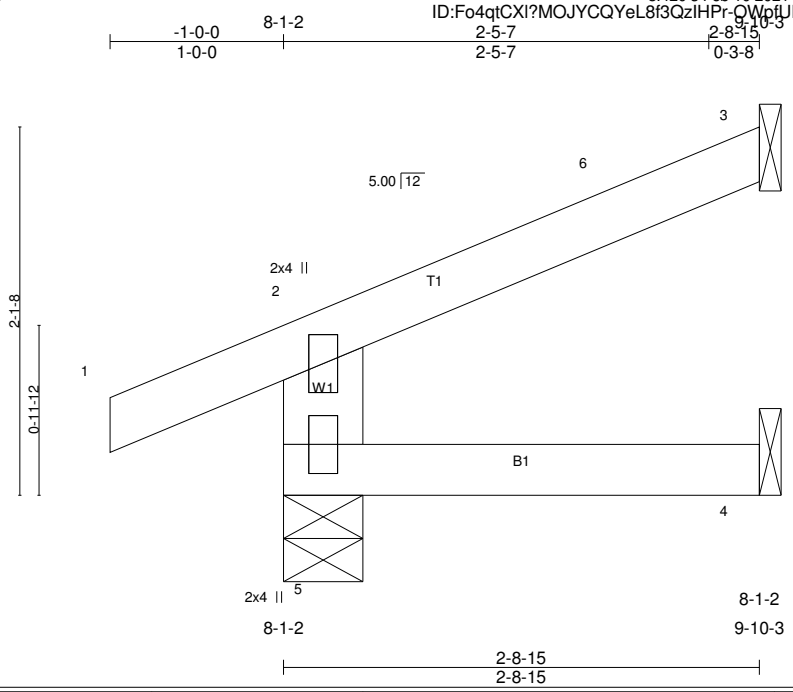

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4-5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MR								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x6 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-15 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=273/0-5-8 (min. 0-1-8), 3=86/Mechanical, 4=22/Mechanical
Max Horz 5=94(LC 14)
Max Uplift 5=-72(LC 14), 3=-41(LC 14)
Max Grav 5=367(LC 19), 3=117(LC 19), 4=44(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-339/208

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 72 lb uplift at joint 5 and 41 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GC4	Jack-Open	1	1	Job Reference (optional)

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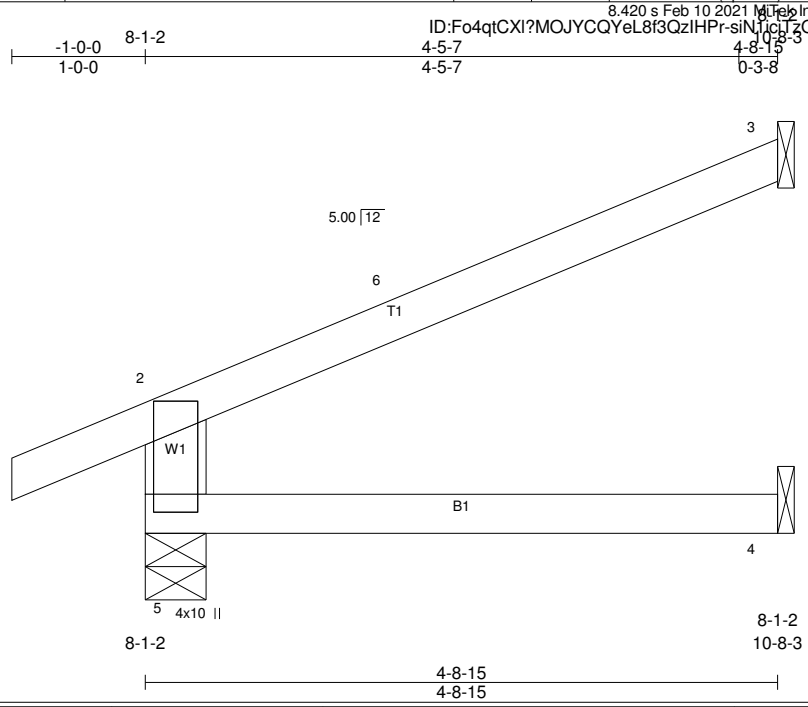
ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-siNJicjTzOp27c?kn4KPGs3t8vSiQGZUgMxTQ7z5imC



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.51	Vert(LL)	0.04	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.31	Vert(CT)	-0.05	4-5	>999	180		
TCDL 15.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.04	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x6 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 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=371/0-5-8 (min. 0-1-8), 3=173/Mechanical, 4=57/Mechanical
Max Horz 5=127(LC 14)
Max Uplift 5=-83(LC 14), 3=-73(LC 14)
Max Grav 5=512(LC 19), 3=246(LC 19), 4=85(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-488/266

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-8-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 83 lb uplift at joint 5 and 73 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GE	Jack-Partial	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:57 2021 Page 1
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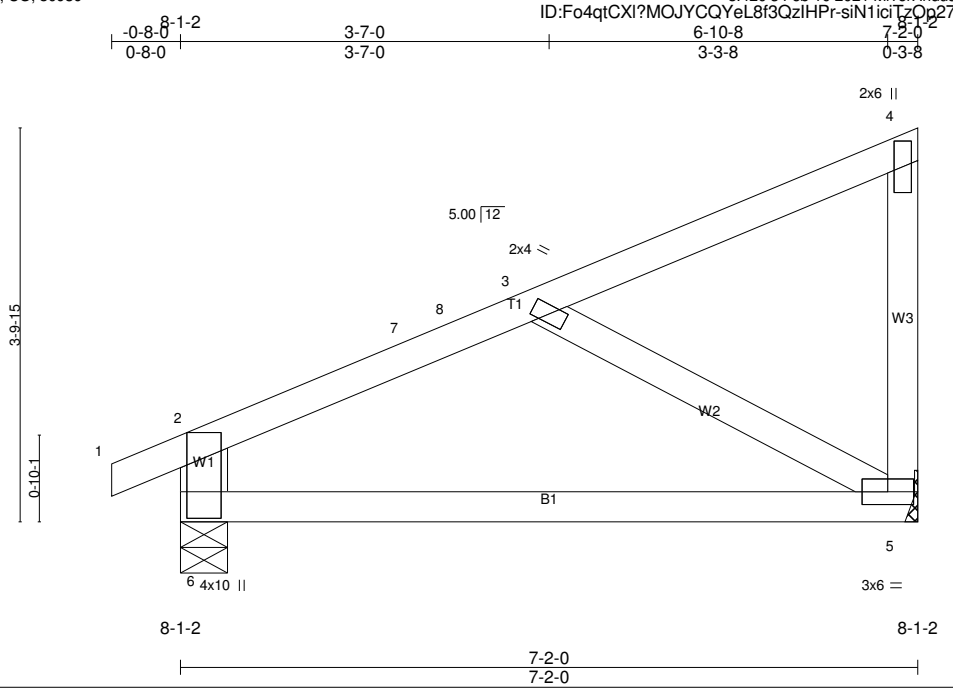

Plate Offsets (X,Y)-- [6:0-5-10,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.07	5-6	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.14	5-6	>582	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 27 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x6 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.

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

REACTIONS. (lb/size) 6=459/0-5-8 (min. 0-1-8), 5=368/Mechanical
Max Horz 6=174(LC 11)
Max Uplift 6=-111(LC 14), 5=-78(LC 11)
Max Grav 6=592(LC 19), 5=501(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-516/284, 2-7=-578/190, 7-8=-451/196, 3-8=-435/200
BOT CHORD 5-6=-369/444
WEBS 3-5=-479/353

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 7-0-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 111 lb uplift at joint 6 and 78 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GE1	Jack-Open	4	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:22:58 2021 Page 1

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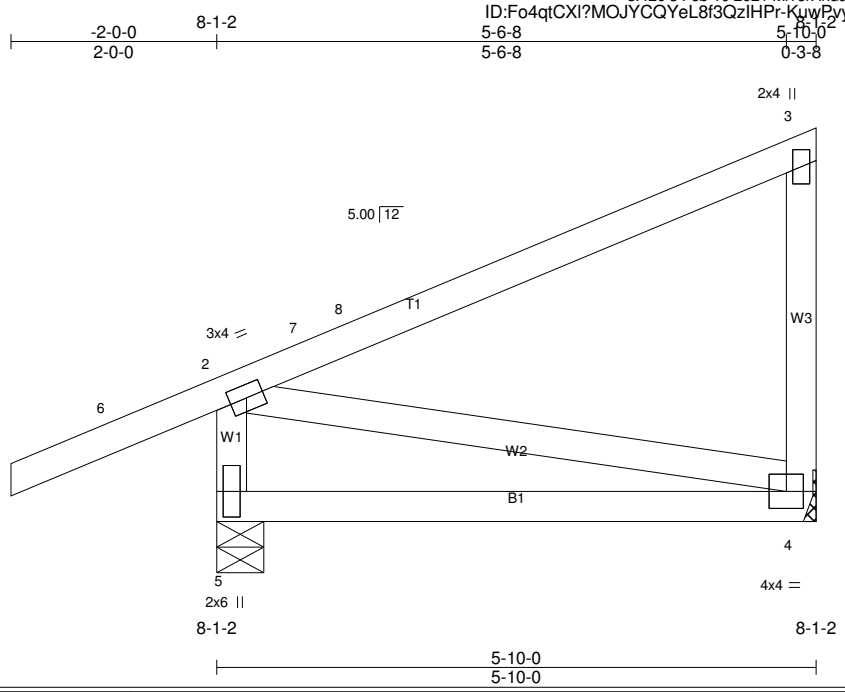

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.06 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.11 4-5 >588 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00 4 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 27 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-2 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=535/0-5-8 (min. 0-1-8), 4=267/Mechanical
Max Horz 5=184(LC 11)
Max Uplift 5=-215(LC 14), 4=-120(LC 11)
Max Grav 5=687(LC 19), 4=372(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-632/434, 3-4=-317/293
BOT CHORD 4-5=-374/253
WEBS 2-4=-220/350

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-8-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 215 lb uplift at joint 5 and 120 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GE3	GABLE	1	1	Job Reference (optional)

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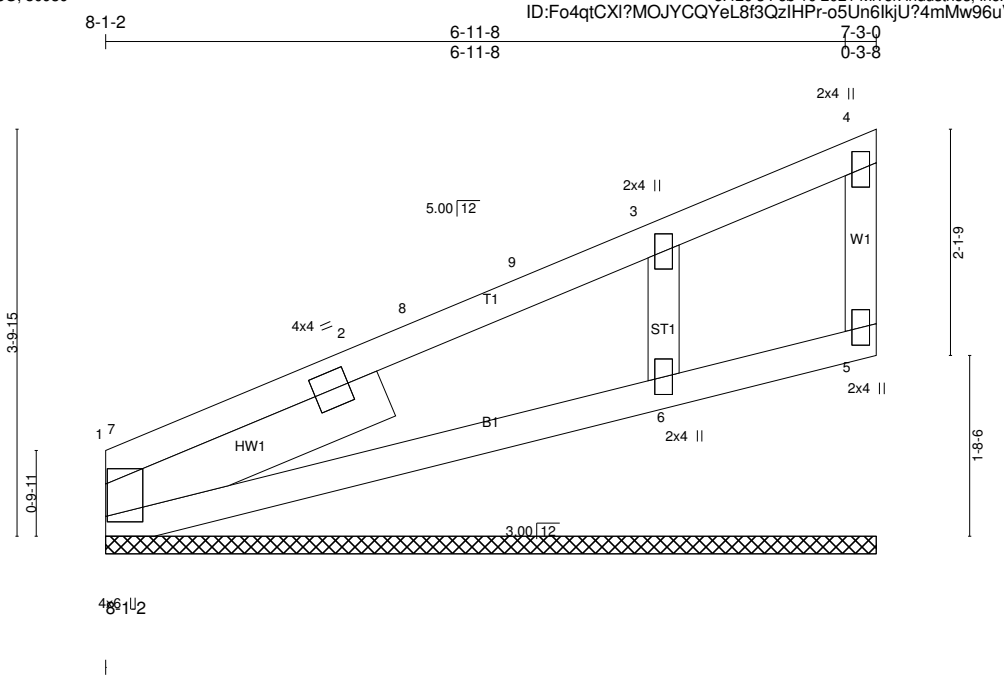

Plate Offsets (X,Y)-- [1:0-5-6,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
SLIDER	Left 2x6 SPF 2100F 1.8E -x 2-10-9

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) 1=238/7-3-0 (min. 0-1-9), 5=-29/7-3-0 (min. 0-1-9), 6=564/7-3-0 (min. 0-1-9)
Max Horz 1=137(LC 11)
Max Uplift 1=-18(LC 14), 5=-36(LC 18), 6=-158(LC 14)
Max Grav 1=306(LC 18), 5=30(LC 14), 6=760(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-652/458

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-14 to 3-0-14, Interior(1) 3-0-14 to 7-1-4 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) 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 5 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
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) Bearing at joint(s) 1, 5, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 36 lb uplift at joint 5 and 158 lb uplift at joint 6.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GE4	Jack-Partial	6	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:00 2021 Page 1
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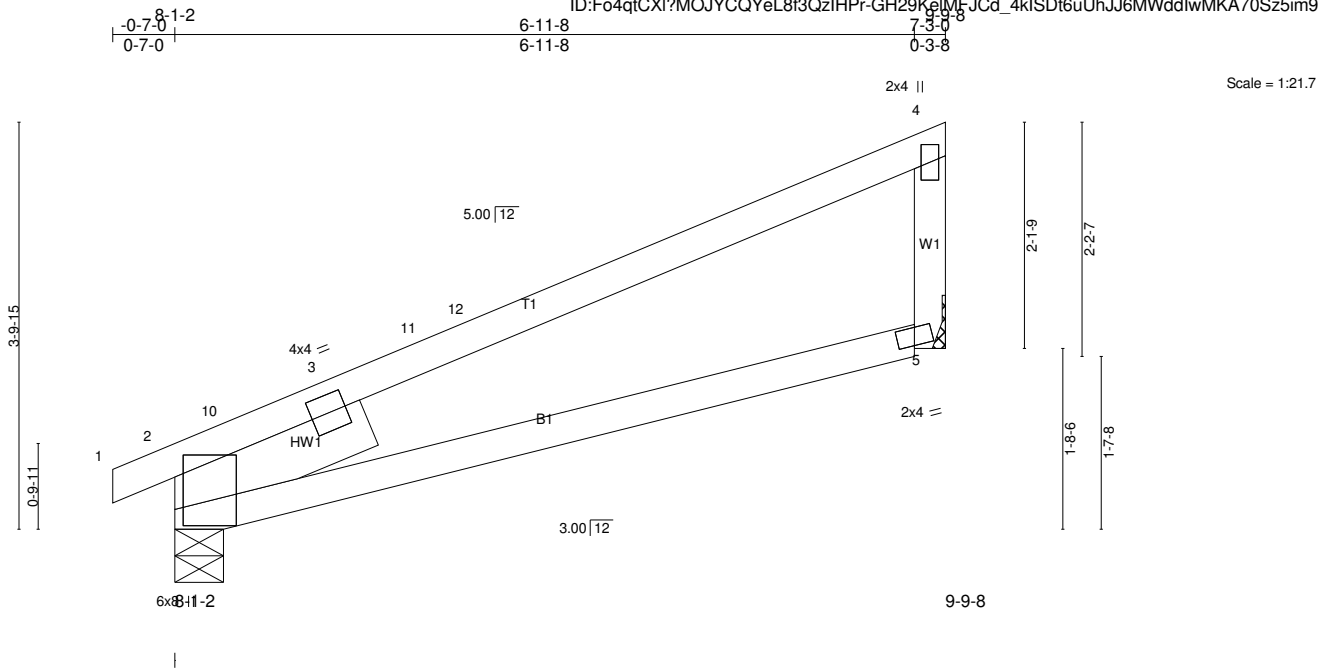

Plate Offsets (X,Y)-- [2:0-5-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.25	5-8	>335	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.41	5-8	>210	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.12	2	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 26 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF 2100F 1.8E -x 2-0-0

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

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

REACTIONS. (lb/size) 2=445/0-5-8 (min. 0-1-8), 5=389/Mechanical
Max Horz 2=126(LC 11)
Max Uplift 2=-91(LC 14), 5=-86(LC 14)
Max Grav 2=564(LC 19), 5=527(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-386/0, 2-3=-505/101, 4-5=-400/268

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-7-0 to 2-5-0, Interior(1) 2-5-0 to 7-1-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 86 lb uplift at joint 5.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GE5	Jack-Partial Girder	1	2	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:01 2021 Page 1

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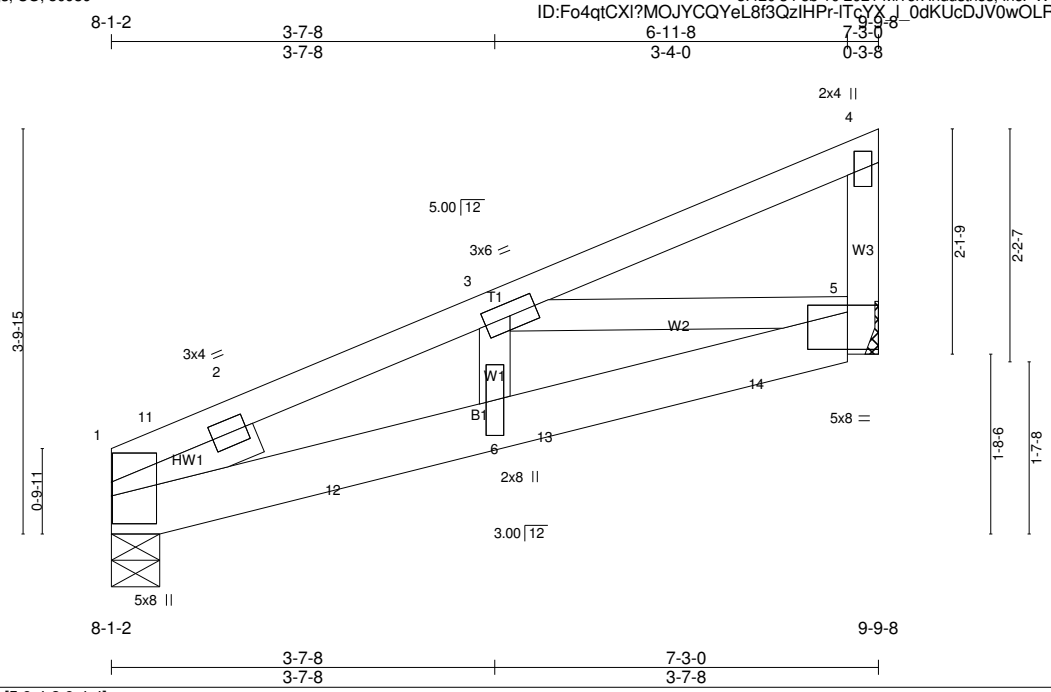

Plate Offsets (X,Y)-- [1:0-3-2,0-0-2], [5:0-4-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.05	5-6	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.08	5-6	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP							Weight: 61 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -x 1-6-0

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.

REACTIONS. (lb/size) 1=1945/0-5-8 (min. 0-1-8), 5=2457/Mechanical
Max Horz 1=119(LC 24)
Max Uplift 1=-351(LC 10), 5=-468(LC 10)
Max Grav 1=2063(LC 14), 5=2595(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-4158/718, 1-2=-3739/660, 2-3=-4405/786
BOT CHORD 1-12=-724/3868, 6-12=-777/4168, 6-13=-708/3777, 13-14=-757/4082, 5-14=-811/4375
WEBS 3-6=-302/1697, 3-5=-4006/772

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: 2x6 - 2 rows staggered at 0-7-0 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 1 and 468 lb uplift at joint 5.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1208 lb down and 238 lb up at 2-0-12, and 1218 lb down and 234 lb up at 4-0-12, and 1193 lb down and 232 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 5-7=-20
Concentrated Loads (lb)
Vert: 12=-1208(B) 13=-1218(B) 14=-1193(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GH	Diagonal Hip Girder	1	1	Job Reference (optional)

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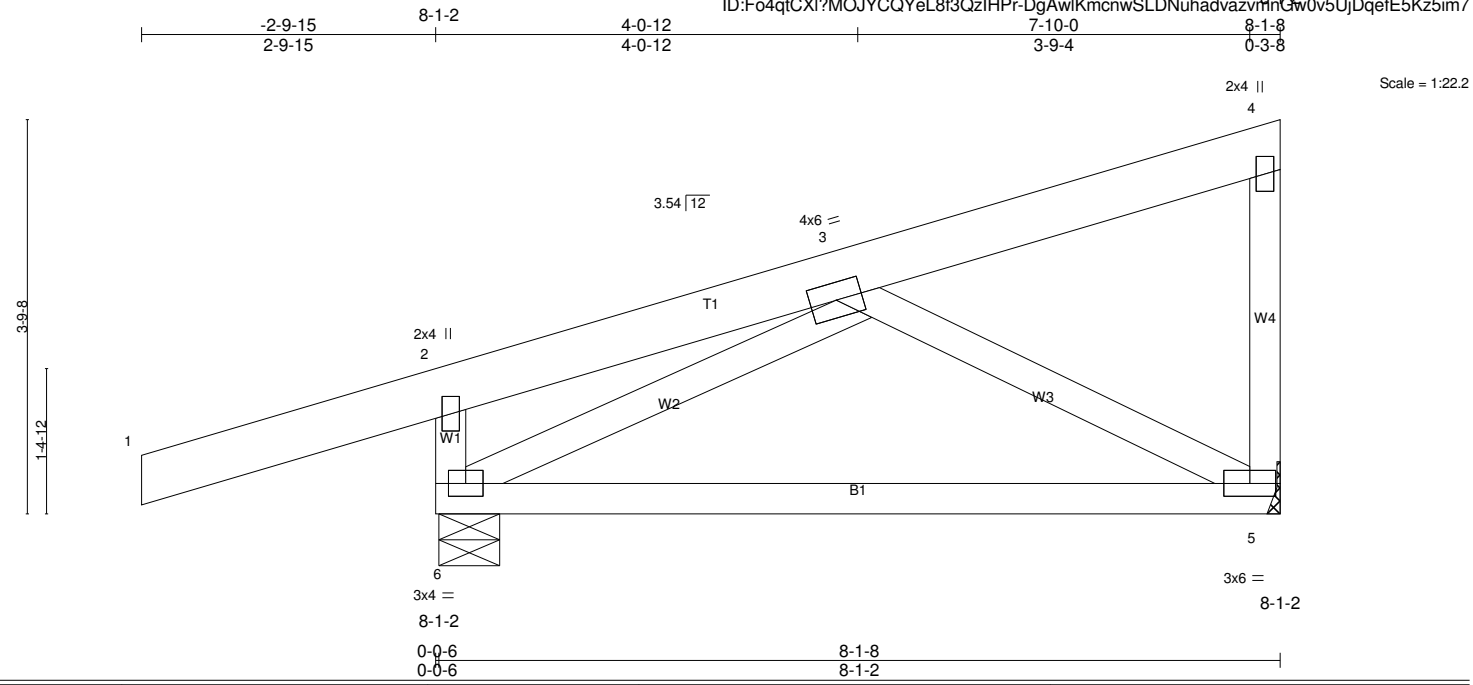

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.23 5-6 >416 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.51 5-6 >186 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.20	Horz(CT) 0.01 5 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 44 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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) 6=684/0-7-0 (min. 0-1-8), 5=665/Mechanical
Max Horz 6=198(LC 7)
Max Uplift 6=-225(LC 10), 5=-138(LC 7)
Max Grav 6=813(LC 15), 5=793(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-475/253, 4-5=-402/124
BOT CHORD 5-6=-176/480
WEBS 3-6=-553/10, 3-5=-547/162

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 225 lb uplift at joint 6 and 138 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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=-90
Trapezoidal Loads (plf)
Vert: 2=-4(F=43, B=43)-to-4=-223(F=-66, B=-66), 6=0(F=10, B=10)-to-5=-49(F=-15, B=-15)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	GH1	Jack-Open	1	1	Job Reference (optional)

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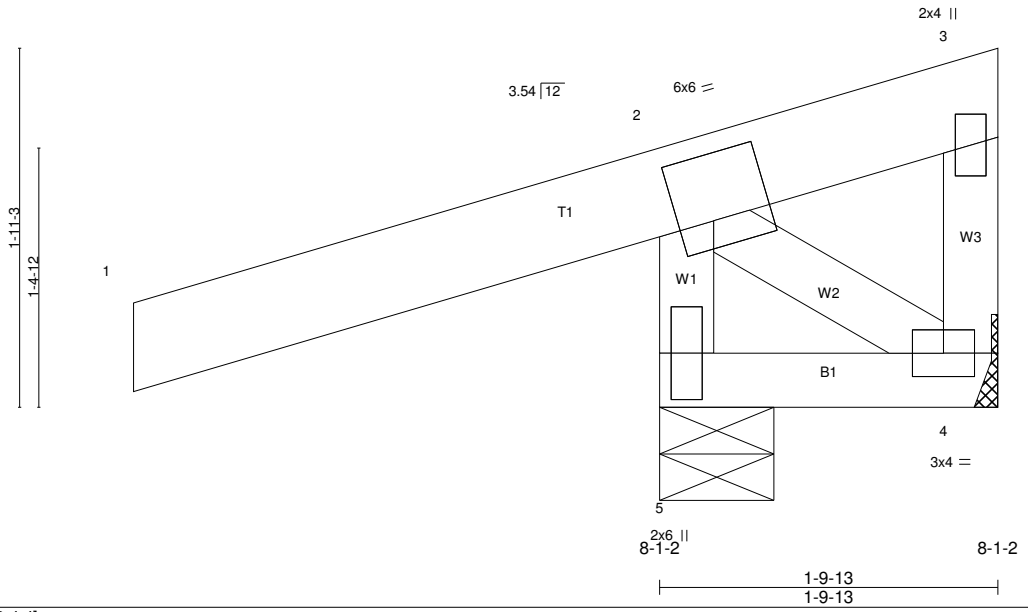

Plate Offsets (X,Y)-- [2:0-2-4,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.00	5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	5	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-13 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=612/0-7-6 (min. 0-1-8), 4=-177/Mechanical
Max Horz 5=112(LC 13)
Max Uplift 5=-310(LC 14), 4=-243(LC 19)
Max Grav 5=820(LC 19), 4=129(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-805/685, 3-4=-299/259

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 310 lb uplift at joint 5 and 243 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H1	Hip Girder	1	2	Job Reference (optional)

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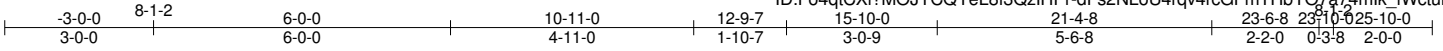

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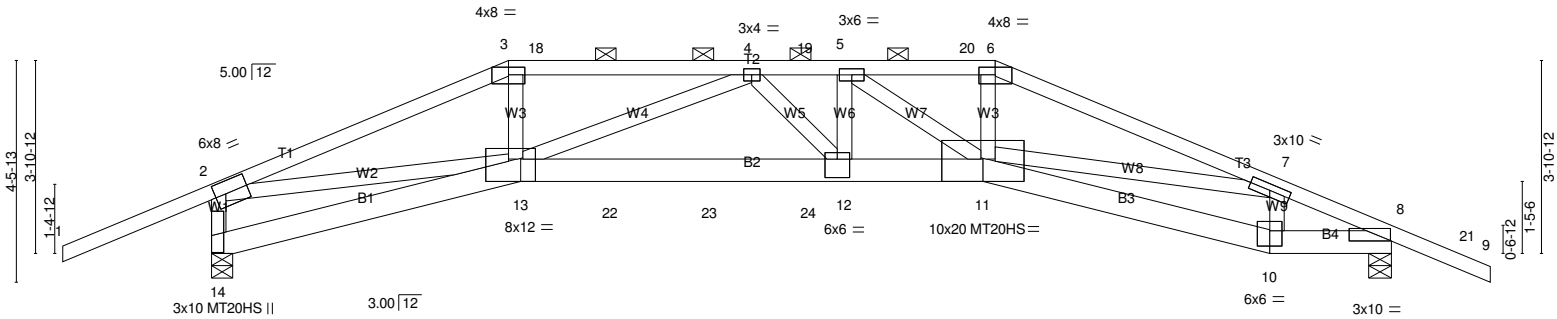

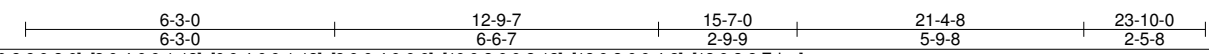

Plate Offsets (X,Y)-- [2:0-2-9,0-3-0], [3:0-4-0,0-1-13], [6:0-4-0,0-1-13], [8:0-0-4,0-0-0], [10:0-3-0,0-3-12], [12:0-3-0,0-4-8], [13:0-3-8,Edge]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.92	Vert(LL)	-0.38	12-13	>742	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.68	Vert(CT)	-0.60	12-13	>475	180	MT20HS	148/108
TCDL	15.0	Rep Stress Incr NO	WB	0.68	Horz(CT)	0.25	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 223 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
W2: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-11-6 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14.

REACTIONS. (lb/size) 14=3637/0-5-3 (min. 0-2-6), 8=2908/0-5-8 (min. 0-2-0)
Max Horz 14=-128(LC 46)
Max Uplift14=-838(LC 10), 8=-639(LC 10)
Max Grav 14=3868(LC 29), 8=3153(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-9418/1730, 3-18=-9007/1687, 4-18=-9007/1687, 4-19=-11926/2215, 5-19=-11926/2215, 5-20=-9207/1716, 6-20=-9207/1716, 6-7=-9665/1754, 7-8=-5936/1082, 2-14=-3815/843
BOT CHORD 13-14=-124/326, 13-22=-1975/11513, 22-23=-1975/11513, 23-24=-1975/11513, 12-24=-1975/11513, 11-12=-2036/11926, 10-11=-919/5418, 8-10=-935/5466
WEBS 3-13=-540/3248, 4-13=-2741/510, 6-11=-537/3323, 7-11=-610/3792, 7-10=-1690/377, 2-13=-1503/8331, 5-12=-364/1893, 4-12=-216/882, 5-11=-3434/639

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 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 5 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 838 lb uplift at joint 14 and 639 lb uplift at joint 8.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1054 lb down and 245 lb up at 6-3-0, 367 lb down and 99 lb up at 8-0-12, 367 lb down and 99 lb up at 10-0-12, and 405 lb down and 101 lb up at 12-0-12, and 1283 lb down and 254 lb up at 12-9-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-90, 3-6=-90, 6-9=-90, 13-14=-20, 11-13=-20, 10-11=-20, 10-15=-20

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 13=-1054(B) 12=-1283(B) 22=-367(B) 23=-367(B) 24=-405(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H2	Hip	1	1	Job Reference (optional)

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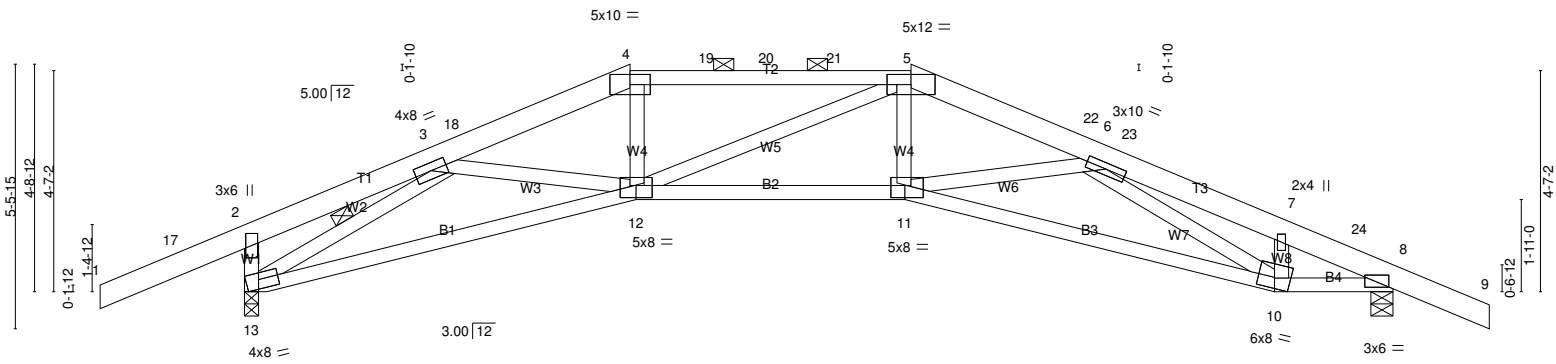
ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-Zdzpo1qlcT4dK8mfMBVlgzUT8xjQmhtyzwM?mYz5im2

-3-0-0	8-1-2	4-1-12	8-0-0	13-10-0	17-7-4	21-4-8	23-6-8	23-10-0	25-10-0
3-0-0		4-1-12	3-10-4	5-10-0	3-9-4	3-9-4	2-2-0	0-3-8	2-0-0

Scale: 1/4"=1'



8-1-2			8-1-2
8-1-8	13-8-8	21-4-8	23-10-0
8-1-8	5-7-0	7-8-0	2-5-8

Plate Offsets (X,Y)-- [8:0-1-0,0-0-6], [10:0-4-0,0-2-10], [11:0-3-8,0-0-8], [12:0-4-0,0-0-8], [13:0-4-13,0-2-6]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.92	Vert(LL)	-0.21	11	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.86	Vert(CT)	-0.41	10-11	>690	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.46	Horz(CT)	0.24	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 113 lb	FT = 20%
BCDL	10.0										

LUMBER-

TOP CHORD 2x6 SPF 2100F 1.8E *Except*
T2: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
B3: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.
WEBS 1 Row at midpt 3-13

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

REACTIONS. (lb/size) 8=1472/0-5-8 (min. 0-2-15), 13=1597/0-3-8 (min. 0-1-8)
Max Horz 13=-146(LC 12)
Max Uplift 8=-342(LC 14), 13=-408(LC 14)
Max Grav 8=1878(LC 33), 13=2022(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-271/97, 3-18=-3252/639, 4-18=-3206/651, 4-19=-2996/645, 19-20=-2996/645, 20-21=-2996/645, 5-21=-2996/645, 5-22=-3659/725, 6-22=-3700/714, 6-23=-2773/571, 7-23=-2934/571, 7-24=-2991/539, 8-24=-3015/534, 2-13=-949/400
BOT CHORD 12-13=-393/2365, 11-12=-507/3438, 10-11=-661/3723, 8-10=-434/2652
WEBS 3-12=-147/1000, 4-12=-42/730, 5-12=-571/126, 5-11=-127/1088, 6-11=-287/349, 6-10=-1191/283, 3-13=-2694/525

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-1-12, Interior(1) 0-1-12 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 13-10-0, Exterior(2R) 13-10-0 to 18-0-15, Interior(1) 18-0-15 to 25-10-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 342 lb uplift at joint 8 and 408 lb uplift at joint 13.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H3	Hip	1	1	Job Reference (optional)

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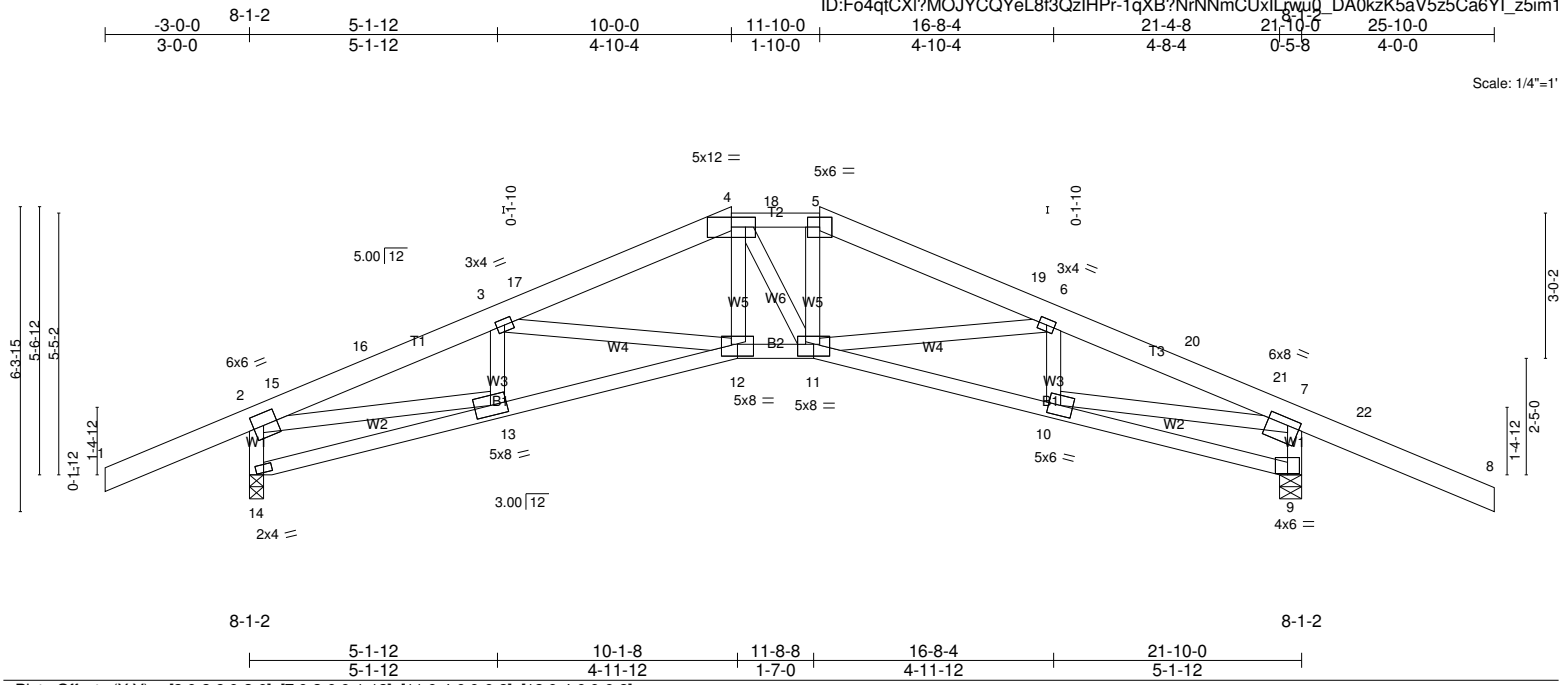

Plate Offsets (X,Y)-- [2:0-2-9,0-3-0], [7:0-3-0,0-1-12], [11:0-4-0,0-0-8], [12:0-4-0,0-0-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.15	12	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.25	12-13	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.17	9	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 117 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E *Except*
T2: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-2 max.): 4-5.
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) 9=1573/0-5-8 (min. 0-1-8), 14=1453/0-3-8 (min. 0-1-8)
Max Horz 14=-183(LC 12)
Max Uplift 9=-441(LC 14), 14=-373(LC 14)
Max Grav 9=2198(LC 33), 14=2015(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-3133/455, 15-16=-3103/455, 3-16=-2954/471, 3-17=-3000/405, 4-17=-2900/420, 4-18=-2711/442, 5-18=-2711/442, 5-19=-2896/431, 6-19=-2988/417, 6-20=-2765/456, 20-21=-2946/441, 7-21=-2977/440, 2-14=-1965/499, 7-9=-2114/569
BOT CHORD 12-13=-299/2805, 11-12=-152/2718, 10-11=-263/2626
WEBS 3-13=-507/126, 3-12=-201/258, 4-12=-67/743, 5-11=-21/690, 6-11=-96/330, 6-10=-499/125, 2-13=-323/2692, 7-10=-322/2665

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-1-12, Interior(1) 0-1-12 to 10-0-0, Exterior(2E) 10-0-0 to 11-10-0, Exterior(2R) 11-10-0 to 16-0-15, Interior(1) 16-0-15 to 25-10-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 9, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 9 and 373 lb uplift at joint 14.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H4	Scissor	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:09 2021 Page 1

ID:Fo4qtCXI?MOJYCQYeL8f3QzIHPr-W05ZDjs?84KLZSw1UcXDlOZrBkSkEZQFREr6rQz5im0

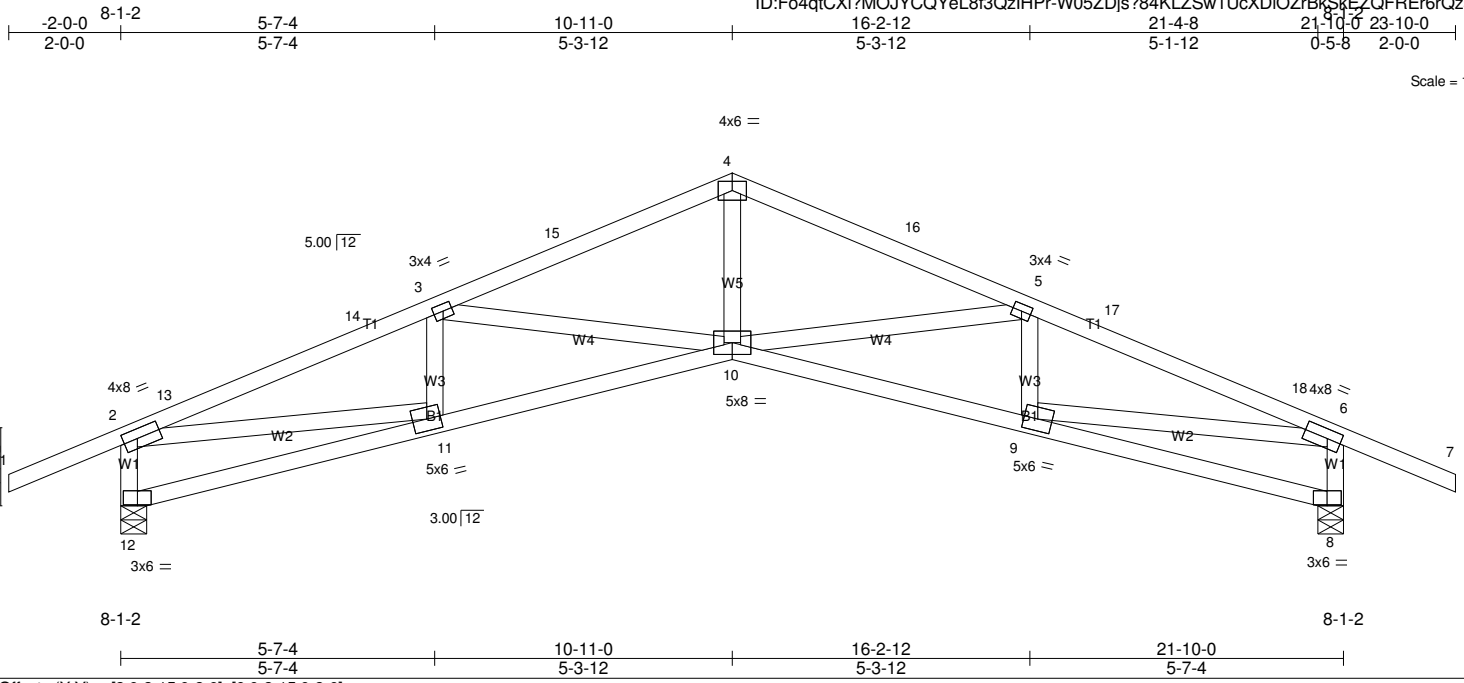

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [6:0-2-15,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.14	10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.28	10-11	>931	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.18	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 91 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 12=1378/0-5-8 (min. 0-1-8), 8=1378/0-5-8 (min. 0-1-8)
Max Horz 12=-179(LC 12)
Max Uplift12=-331(LC 14), 8=-331(LC 14)
Max Grav 12=1436(LC 19), 8=1436(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-2745/673, 13-14=-2651/680, 3-14=-2565/690, 3-15=-2361/608, 4-15=-2264/618, 4-16=-2264/626, 5-16=-2361/616, 5-17=-2565/652, 17-18=-2651/642, 6-18=-2745/635, 2-12=-1391/493, 6-8=-1391/506
BOT CHORD 10-11=-561/2523, 9-10=-508/2523
WEBS 4-10=-265/1292, 5-10=-419/191, 5-9=-426/176, 3-10=-419/176, 3-11=-427/170, 2-11=-497/2379, 6-9=-526/2379

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 23-10-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 12 and 331 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H5	Scissor	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:10 2021 Page 1

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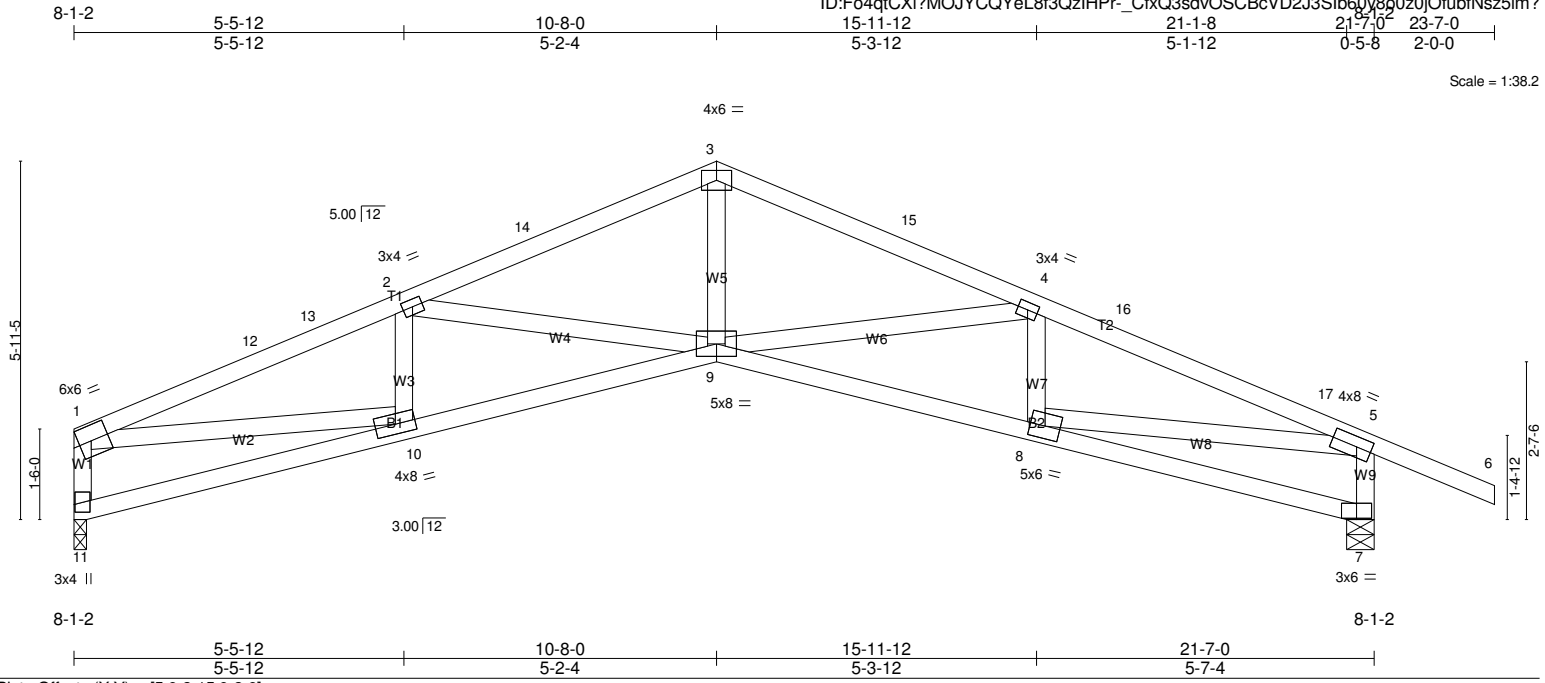

Plate Offsets (X,Y)-- [5:0-2-15,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.14	9	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.27	8-9	>945	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.17	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 11=1161/0-2-8 (min. 0-1-13), 7=1374/0-5-8 (min. 0-1-8)
Max Horz 11=-177(LC 12)
Max Uplift11=-217(LC 14), 7=-332(LC 14)
Max Grav 11=1221(LC 19), 7=1431(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-2716/674, 12-13=-2612/676, 2-13=-2537/684, 2-14=-2343/606, 3-14=-2245/616, 3-15=-2245/622, 4-15=-2344/612, 4-16=-2550/664, 16-17=-2636/655, 5-17=-2730/647, 1-11=-1190/341, 5-7=-1386/507
BOT CHORD 10-11=-122/254, 9-10=-555/2507, 8-9=-507/2509
WEBS 2-10=-444/179, 2-9=-424/177, 3-9=-267/1292, 4-9=-427/191, 4-8=-423/176, 1-10=-510/2307, 5-8=-526/2366

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 23-7-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 11 and 332 lb uplift at joint 7.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H6	Scissor	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:11 2021 Page 1

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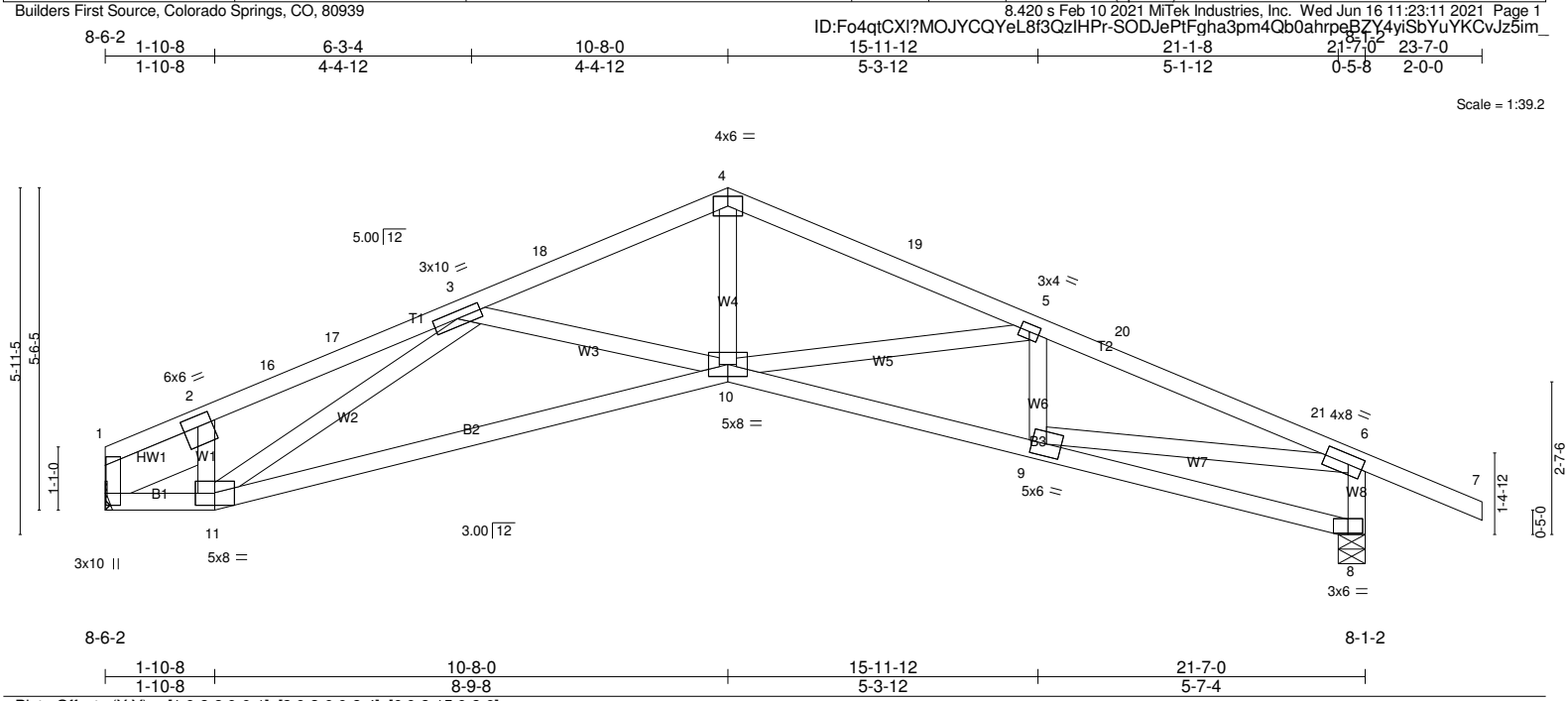

Plate Offsets (X,Y)-- [1:0-2-8,0-0-1], [2:0-3-0,0-2-4], [6:0-2-15,0-2-0]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.83	Vert(LL)	-0.24	10-11	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.89	Vert(CT)	-0.52	10-11	>490	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.67	Horz(CT)	0.17	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 91 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 DF 1950F 1.7E -x 1-10-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 1=1169/Mechanical, 8=1382/0-5-8 (min. 0-1-8)
Max Horz 1=147(LC 13)
Max Uplift 1=-218(LC 14), 8=-335(LC 14)
Max Grav 1=1228(LC 19), 8=1437(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-1639/475, 16-17=-1564/478, 3-17=-1557/486, 3-18=-2366/606, 4-18=-2285/616, 4-19=-2285/618, 5-19=-2384/608, 5-20=-2563/682, 20-21=-2649/672, 6-21=-2743/665, 6-8=-1390/509
BOT CHORD 1-11=-309/1418, 10-11=-589/2508, 9-10=-513/2523
WEBS 2-11=0/302, 3-11=-1227/325, 3-10=-390/215, 4-10=-277/1345, 5-10=-404/197, 5-9=-436/171, 6-9=-534/2376

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 23-7-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 1 and 335 lb uplift at joint 8.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H7	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:12 2021 Page 1

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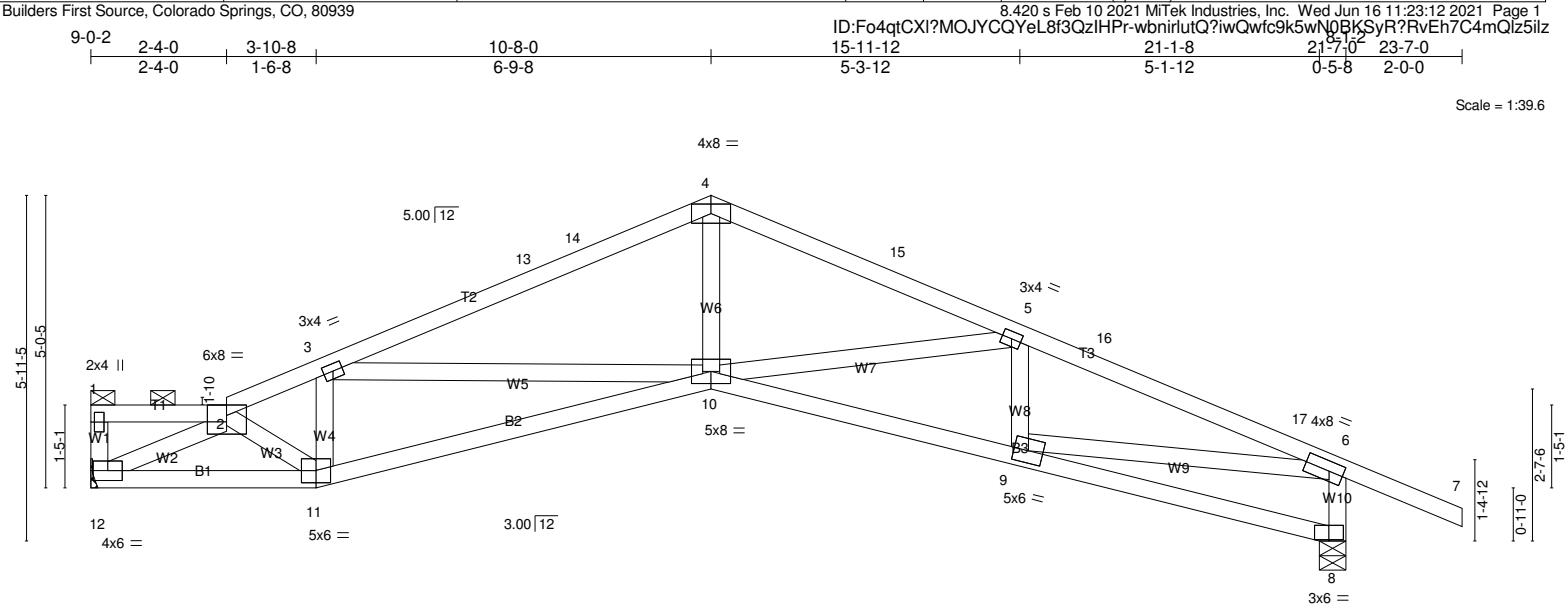

Plate Offsets (X,Y)-- [2:0-3-14,Edge], [6:0-2-15,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.13	9-10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.29	10-11	>882	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.14	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 87 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T2: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
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=1161/Mechanical, 8=1374/0-5-8 (min. 0-1-8)
Max Horz 12=-165(LC 12)
Max Uplift 12=-214(LC 14), 8=-335(LC 14)
Max Grav 12=1238(LC 33), 8=1431(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2522/631, 3-13=-2487/598, 13-14=-2294/599, 4-14=-2251/609, 4-15=-2267/626, 5-15=-2361/615, 5-16=-2546/670, 16-17=-2632/660, 6-17=-2727/653, 6-8=-1385/508
BOT CHORD 11-12=-454/2064, 10-11=-563/2533, 9-10=-505/2506
WEBS 2-12=-2281/585, 2-11=-83/405, 3-11=-756/241, 3-10=-323/336, 4-10=-231/1235, 5-10=-411/224, 5-9=-427/172, 6-9=-522/2360

NOTES-

1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-4-0, Interior(1) 2-4-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 23-7-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 12 and 335 lb uplift at joint 8.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	H8	Roof Special	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:13 2021 Page 1

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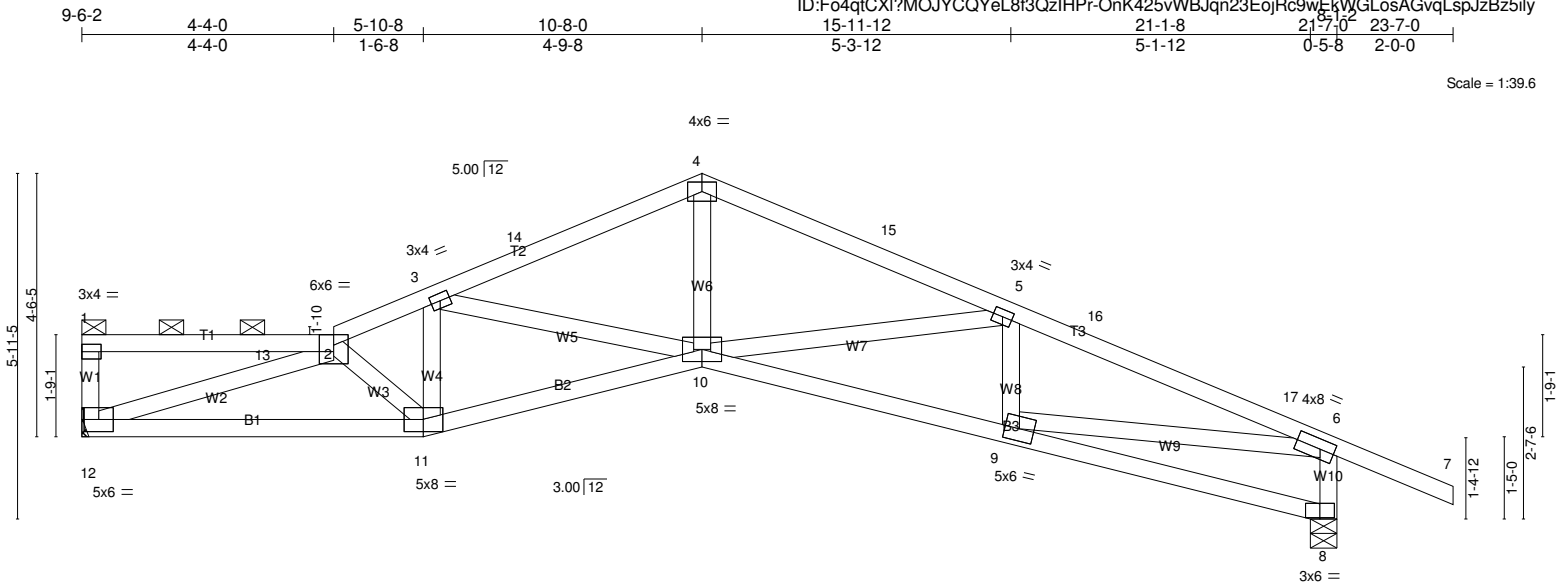

Plate Offsets (X,Y)-- [6:0-2-15,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.15	10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.28	9-10	>914	180		
TCDL	15.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.14	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
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=1161/Mechanical, 8=1374/0-5-8 (min. 0-1-8)
Max Horz 12=-169(LC 12)
Max Uplift 12=-212(LC 14), 8=-337(LC 14)
Max Grav 12=1213(LC 19), 8=1431(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-305/95, 2-3=-2599/707, 3-14=-2325/609, 4-14=-2244/620, 4-15=-2244/624, 5-15=-2342/614, 5-16=-2550/675, 16-17=-2636/666, 6-17=-2730/658, 6-8=-1386/508
BOT CHORD 11-12=-632/2686, 10-11=-546/2474, 9-10=-510/2509
WEBS 2-12=-2747/772, 2-11=-532/158, 3-11=-278/77, 3-10=-409/169, 4-10=-273/1297, 5-10=-426/187, 5-9=-423/176, 6-9=-528/2366

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 23-7-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 12 and 337 lb uplift at joint 8.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) 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	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	HC1	Jack-Open	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 8.420 s Feb 15 2021 MiTek Industries, Inc. Wed Jun 16 11:23:14 2021 Page 1
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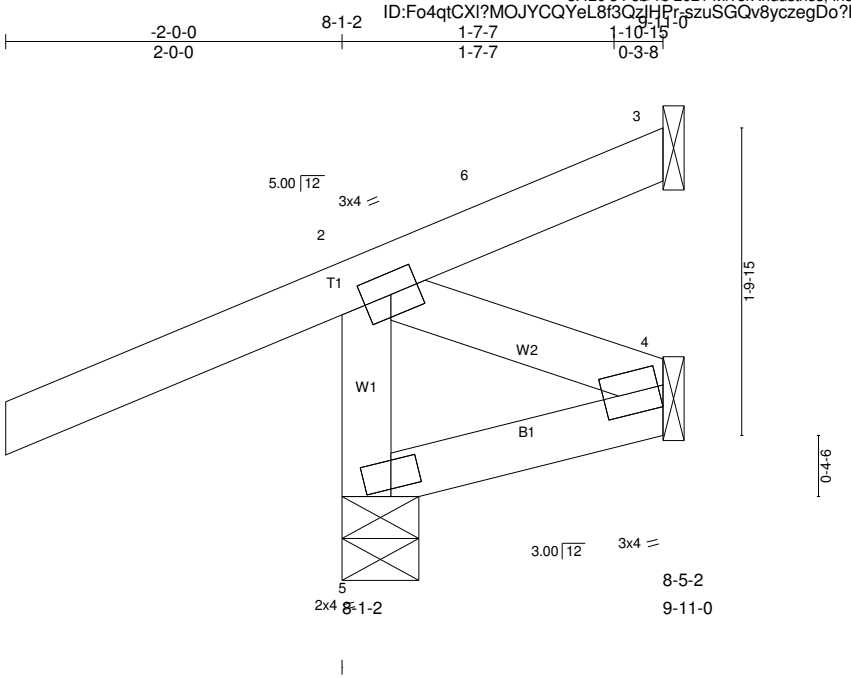

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.00 5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 4-5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/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 No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=-39/Mechanical, 4=18/Mechanical, 5=408/0-5-8 (min. 0-1-8)
Max Horz 5=72(LC 13)
Max Uplift 3=-92(LC 18), 4=-34(LC 14), 5=-157(LC 14)
Max Grav 3=48(LC 14), 4=36(LC 5), 5=559(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-541/351

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 3, 34 lb uplift at joint 4 and 157 lb uplift at joint 5.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	HC2	Jack-Open	2	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:15 2021 Page 1

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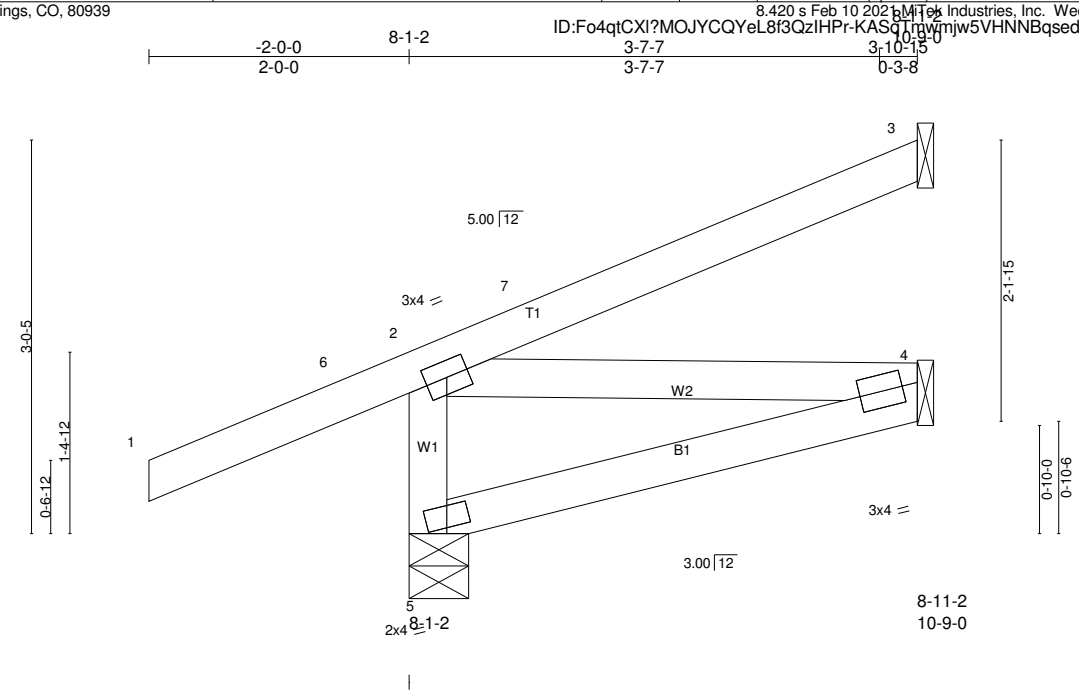

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.01 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.03 4-5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 17 lb FT = 20%
BCDL 10.0				

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=111/Mechanical, 4=38/Mechanical, 5=454/0-5-8 (min. 0-1-8)
Max Horz 5=152(LC 14)
Max Uplift 3=-35(LC 11), 4=-26(LC 14), 5=-128(LC 14)
Max Grav 3=159(LC 19), 4=76(LC 5), 5=634(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-596/357

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-3 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3, 26 lb uplift at joint 4 and 128 lb uplift at joint 5.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	HE	Jack-Partial	3	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:16 2021 Page 1

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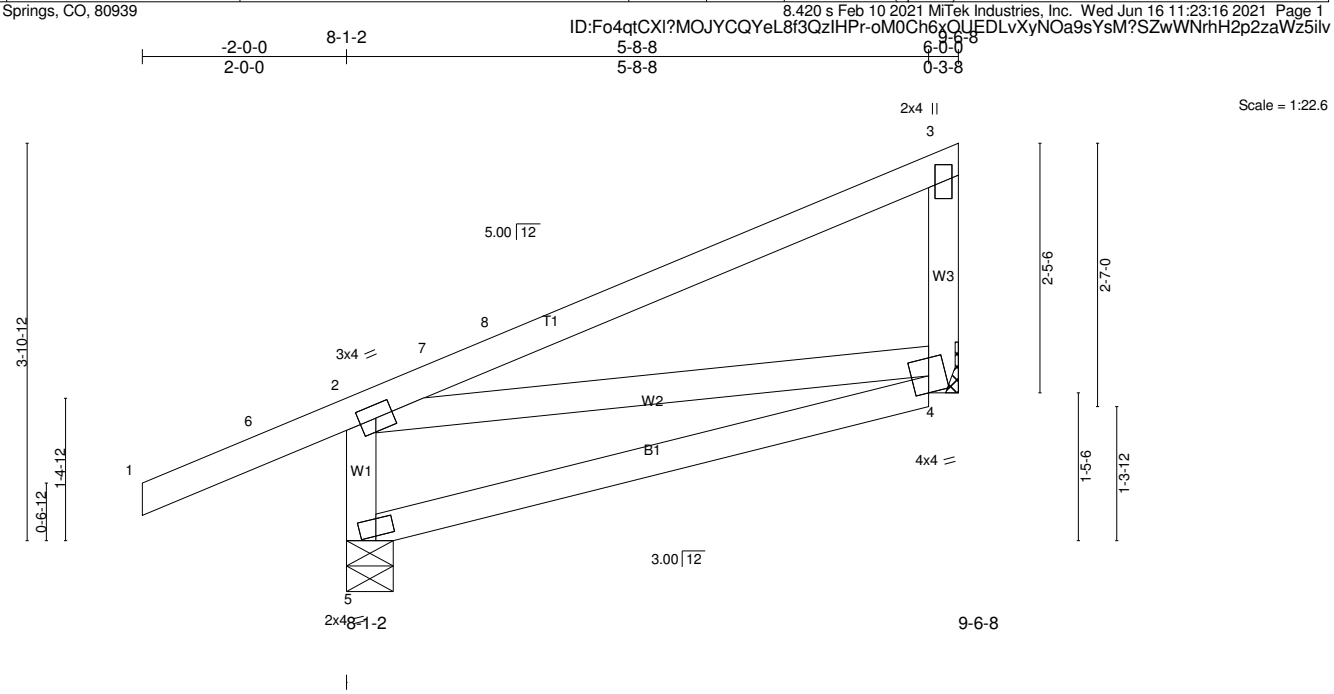

Plate Offsets (X,Y)-- [4:0-2-0,0-1-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.07	4-5	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	4-5	>522	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 27 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-15 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=543/0-5-8 (min. 0-1-8), 4=278/Mechanical
Max Horz 5=161(LC 11)
Max Uplift 5=-167(LC 14), 4=-79(LC 11)
Max Grav 5=691(LC 19), 4=387(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-633/413, 3-4=-330/252
BOT CHORD 4-5=-361/235
WEBS 2-4=-177/310

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 5 and 79 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	HE1	Jack-Partial	1	1	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:17 2021 Page 1

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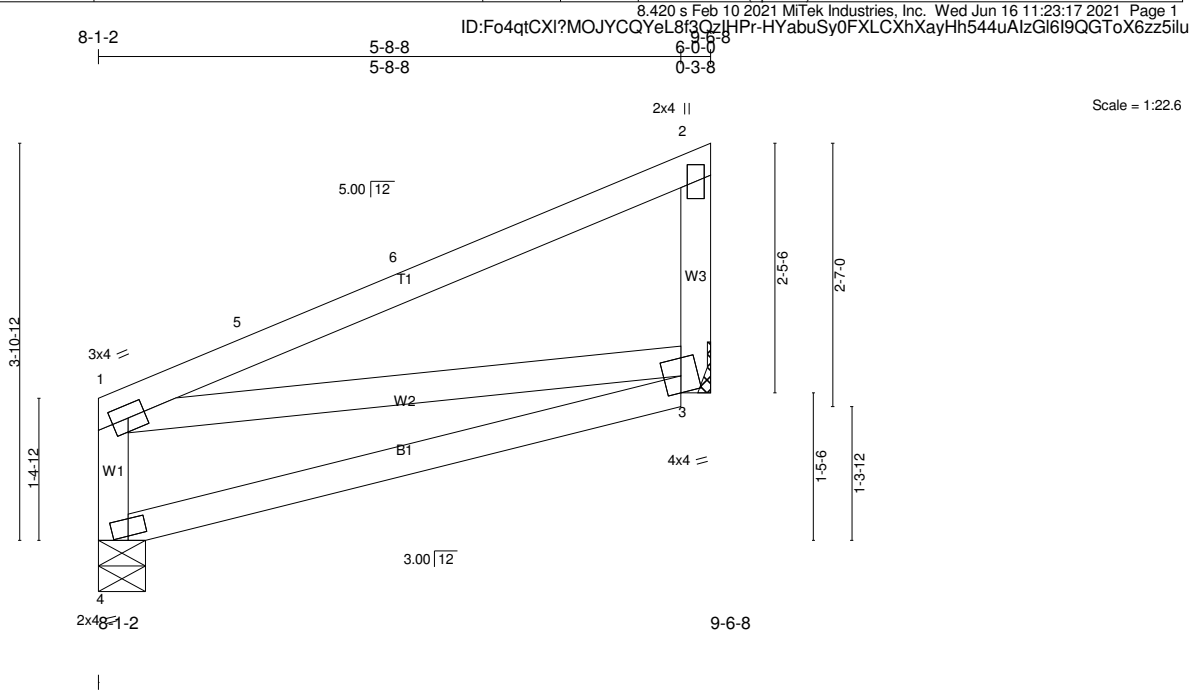

Plate Offsets (X,Y)-- [3:0-2-0,0-1-15]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.07	3-4	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	3-4	>522	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 24 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 4=314/0-5-8 (min. 0-1-8), 3=314/Mechanical
Max Horz 4=142(LC 11)
Max Uplift 4=-47(LC 14), 3=-81(LC 11)
Max Grav 4=425(LC 18), 3=425(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-368/200, 2-3=-368/275
BOT CHORD 3-4=-310/210
WEBS 1-3=-153/260

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 81 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	HE2	Jack-Partial Girder	1	**2**	Job Reference (optional)

Builders First Source, Colorado Springs, CO, 80939 — 8.420 s Feb 10 2021 MiTek Industries, Inc. Wed Jun 16 11:23:18 2021 Page 1

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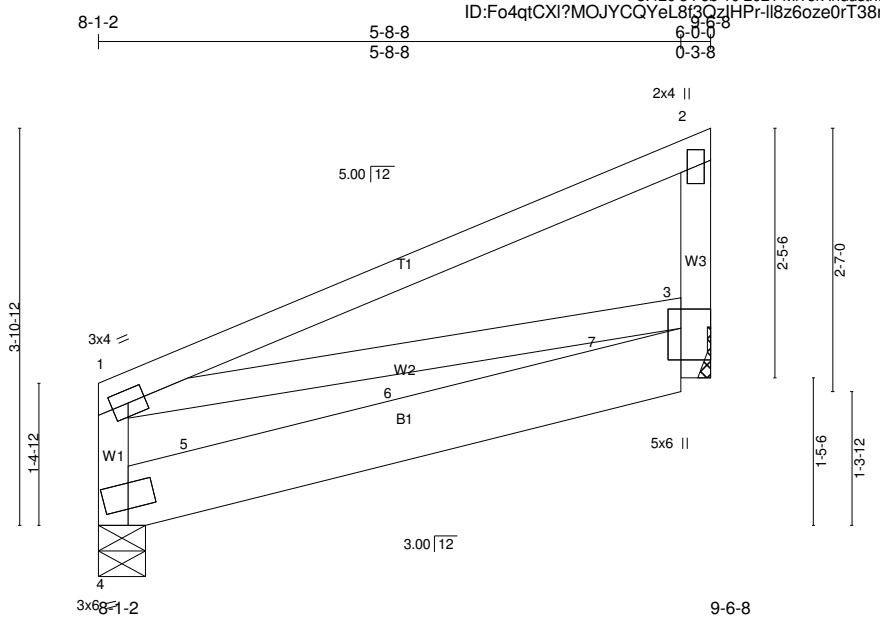

Plate Offsets (X,Y)-- [3:0-3-12,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.03	3-4	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	3-4	>999	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP							Weight: 67 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 DF 1950F 1.7E
WEBS 2x4 SPF No.2

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

REACTIONS. (lb/size) 4=1270/0-5-8 (min. 0-1-8), 3=1192/Mechanical
Max Horz 4=135(LC 7)
Max Uplift 4=-219(LC 10), 3=-234(LC 7)
Max Grav 4=1382(LC 14), 3=1303(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-368/84, 2-3=-368/91
BOT CHORD 4-5=-263/98

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 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 4 and 234 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 606 lb down and 119 lb up at 0-10-4, and 603 lb down and 119 lb up at 2-10-4, and 626 lb down and 123 lb up at 4-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-606(B) 6=-603(B) 7=-626(B)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	HH	Diagonal Hip Girder	1	1	Job Reference (optional)

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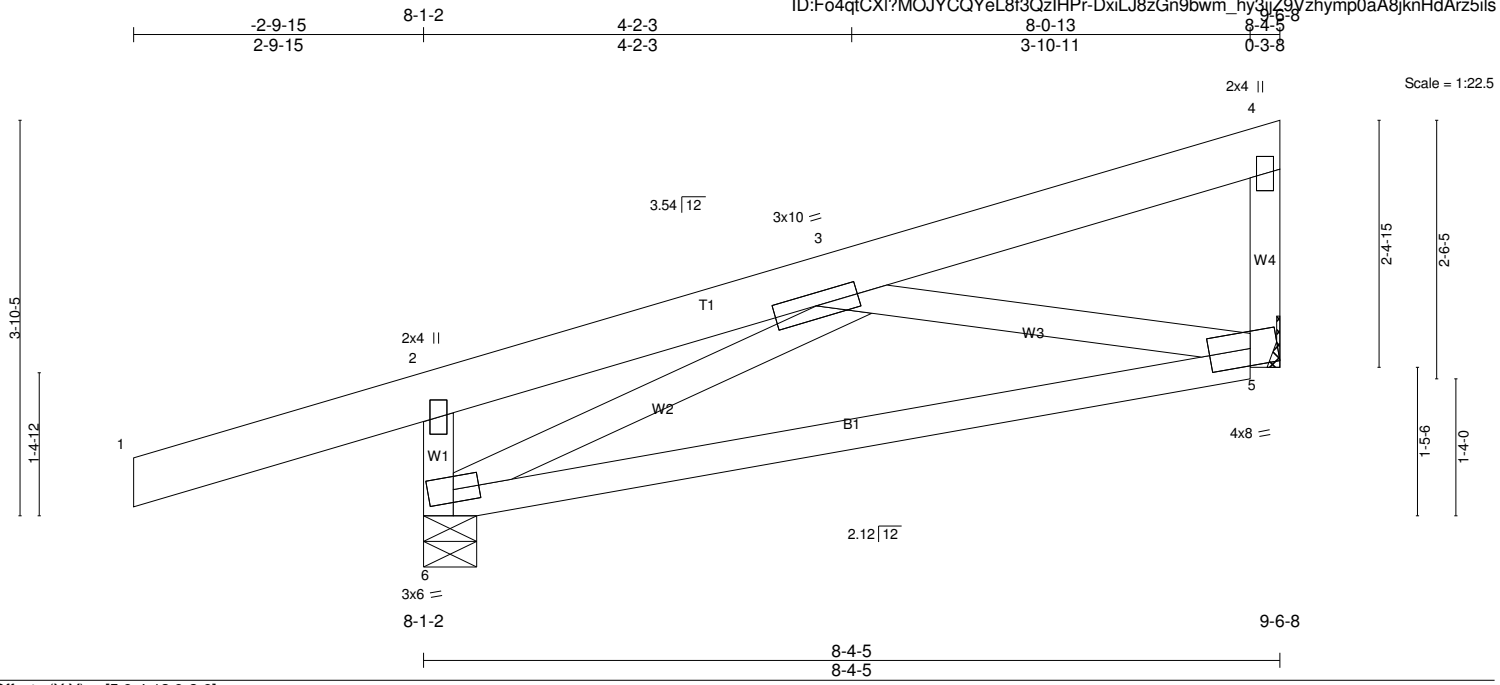

Plate Offsets (X,Y)-- [5:0-4-13,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.26	5-6	>375	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.53	5-6	>182	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP							Weight: 43 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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) 6=640/0-6-4 (min. 0-1-8), 5=583/Mechanical
Max Horz 6=158(LC 7)
Max Uplift 6=-215(LC 10), 5=-119(LC 10)
Max Grav 6=773(LC 15), 5=715(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-479/252, 4-5=-374/116
BOT CHORD 5-6=-181/614
WEBS 3-6=-682/35, 3-5=-603/159

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 6 and 119 lb uplift at joint 5.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) 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=-90
Trapezoidal Loads (plf)
Vert: 2=-3(F=43, B=43)-to-4=-191(F=-50, B=-50), 6=0(F=10, B=10)-to-5=-42(F=-11, B=-11)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	J1	Hip Girder	1	1	Job Reference (optional)

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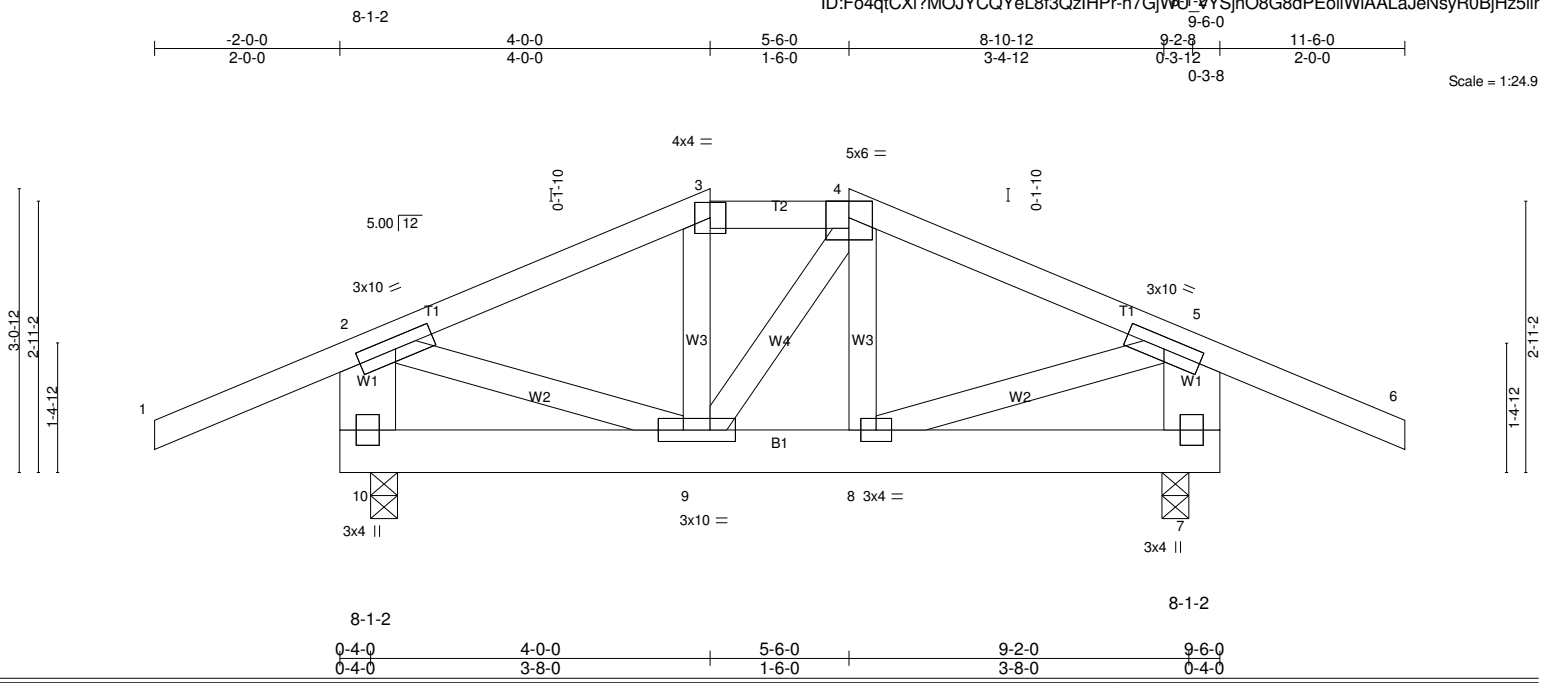

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.01 9 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.02 8-9 >999 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.18	Horz(CT) 0.00 7 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS		Weight: 54 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
W1: 2x8 DF 1950F 1.7E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 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) 10=924/0-3-8 (min. 0-1-8), 7=924/0-3-8 (min. 0-1-8)
Max Horz 10=-107(LC 8)
Max Uplift10=-368(LC 10), 7=-368(LC 10)
Max Grav 10=1174(LC 29), 7=1174(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-891/281, 3-4=-749/287, 4-5=-890/282, 2-10=-1111/375, 5-7=-1111/376
BOT CHORD 8-9=-160/743
WEBS 2-9=-202/776, 5-8=-204/777

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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 368 lb uplift at joint 10 and 368 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Girder carries hip end with 4-0-0 end setback.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 243 lb down and 75 lb up at 5-6-0, and 243 lb down and 75 lb up at 4-0-0 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=-90, 2-3=-90, 3-4=-45(F=45), 4-5=-90, 5-6=-90, 9-10=-20, 8-9=-107(F=-87), 7-8=-20
Concentrated Loads (lb)
Vert: 9=-183(F) 8=-183(F)

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	J2	Common	2	1	Job Reference (optional)

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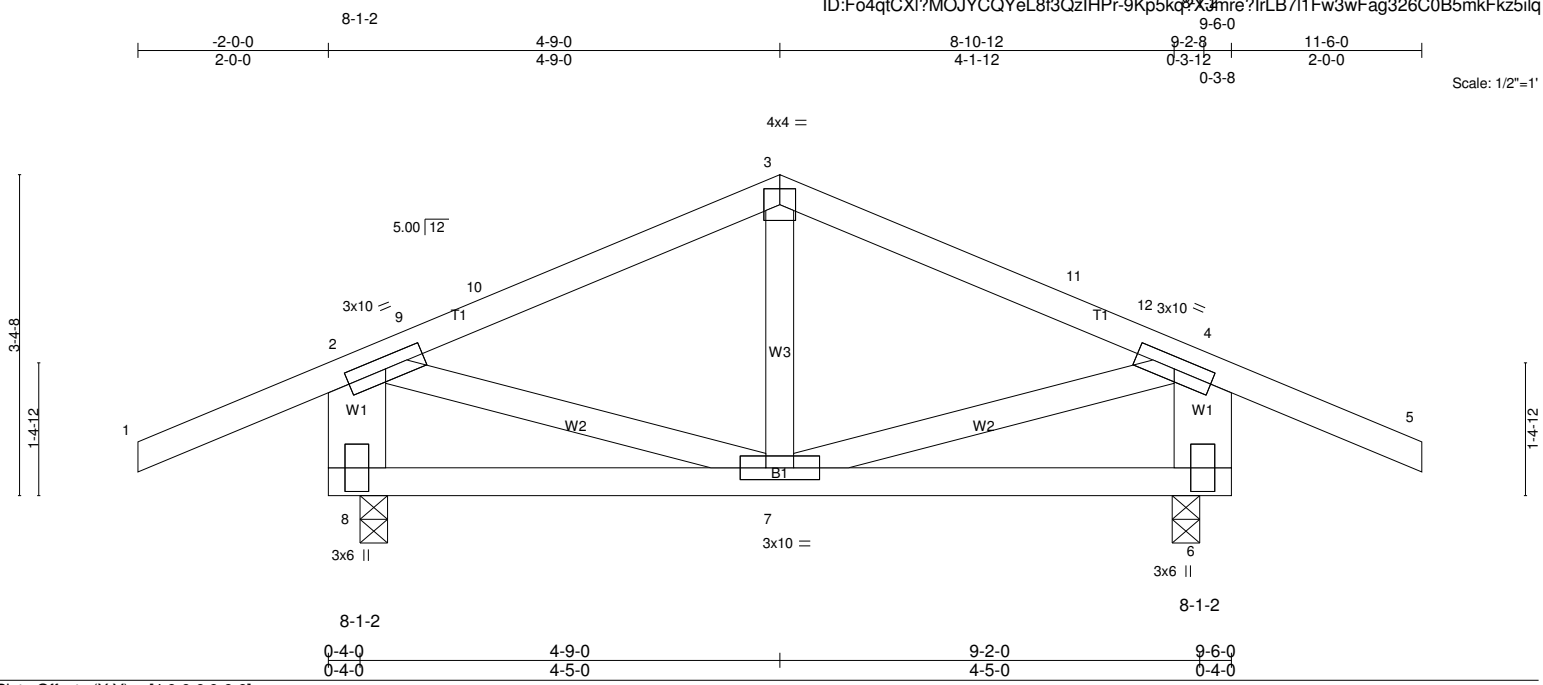

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.01	6-7	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6-7	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 46 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x8 DF 1950F 1.7E

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) 8=696/0-3-8 (min. 0-1-8), 6=696/0-3-8 (min. 0-1-8)
Max Horz 8=-120(LC 12)
Max Uplift 8=-275(LC 14), 6=-275(LC 14)
Max Grav 8=894(LC 19), 6=894(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-461/282, 9-10=-427/283, 3-10=-362/296, 3-11=-361/296, 11-12=-427/283, 4-12=-461/282, 2-8=-852/540, 4-6=-852/541
WEBS 2-7=-182/340, 4-7=-184/340

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-9-0, Exterior(2R) 4-9-0 to 7-9-0, Interior(1) 7-9-0 to 11-6-0 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 275 lb uplift at joint 8 and 275 lb uplift at joint 6.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	J3	Roof Special	1	1	Job Reference (optional)

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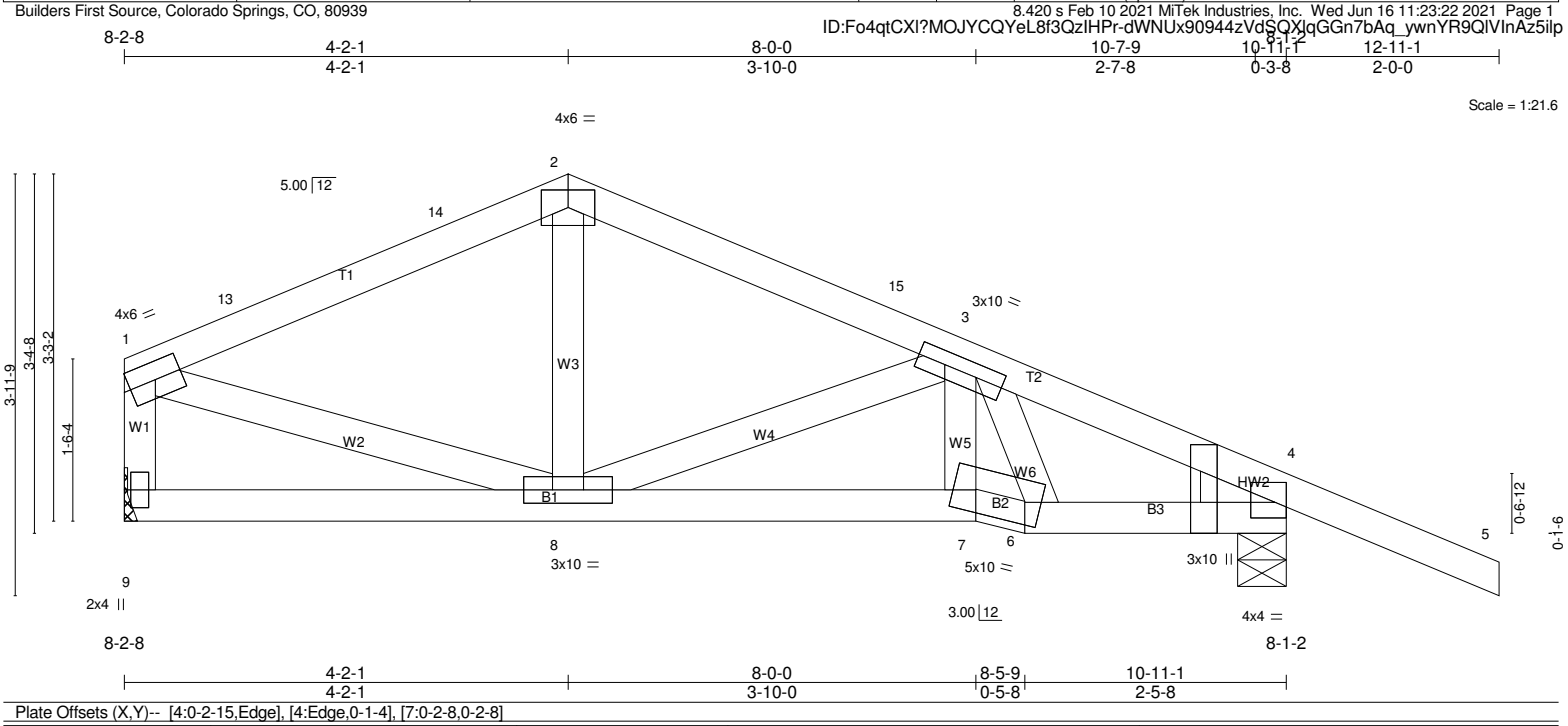

Plate Offsets (X,Y)-- [4:0-2-15,Edge], [4:Edge,0-1-4], [7:0-2-8,0-2-8]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL 1.15	TC	0.38	Vert(LL)	-0.02	7	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL 1.15	BC	0.41	Vert(CT)	-0.04	7-8	>999	180		
TCDL	15.0	Rep Stress Incr YES	WB	0.15	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-MS							Weight: 45 lb	FT = 20%
BCDL	10.0										

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.

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

REACTIONS. (lb/size) 9=576/Mechanical, 4=789/0-5-8 (min. 0-1-8)
Max Horz 9=-116(LC 12)
Max Uplift 9=-102(LC 14), 4=-222(LC 14)
Max Grav 9=623(LC 19), 4=894(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-631/305, 13-14=-590/308, 2-14=-557/315, 2-15=-590/308, 3-15=-681/298, 3-4=-1048/393, 1-9=-584/303
BOT CHORD 7-8=-325/1041, 6-7=-351/1128, 4-6=-270/920
WEBS 3-8=-533/245, 3-7=-92/366, 3-6=-433/176, 1-8=-213/531

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-2-1, Exterior(2R) 4-2-1 to 7-2-1, Interior(1) 7-2-1 to 12-11-1 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 102 lb uplift at joint 9 and 222 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	J4	Roof Special	1	1	Job Reference (optional)

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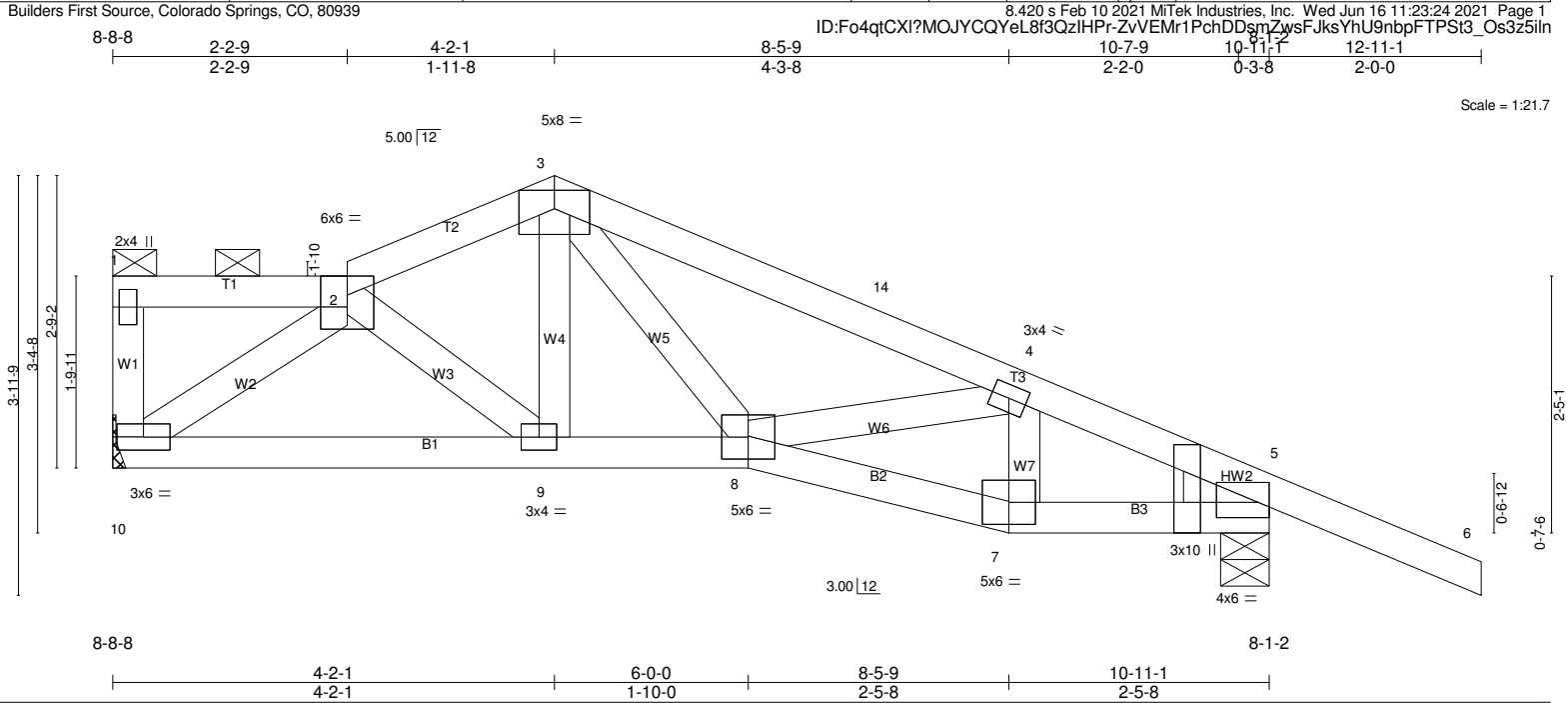

8-8-8 — 8-1-2

4-2-1	6-0-0	8-5-9	10-11-1
4-2-1	1-10-0	2-5-8	2-5-8

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.03	7-8	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.04	7-8	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							Weight: 45 lb	FT = 20%
BCDL	10.0											

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

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

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

REACTIONS. (lb/size) 10=576/Mechanical, 5=789/0-5-8 (min. 0-1-8)
Max Horz 10=-117(LC 12)
Max Uplift 10=-99(LC 14), 5=-225(LC 14)
Max Grav 10=623(LC 19), 5=894(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-722/349, 3-14=-972/399, 4-14=-1084/388, 4-5=-1141/441
BOT CHORD 9-10=-126/611, 8-9=-109/661, 7-8=-328/1029, 5-7=-333/1030
WEBS 2-10=-733/385, 3-8=-132/396, 4-7=-340/171

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-2-9, Interior(1) 2-2-9 to 4-2-1, Exterior(2R) 4-2-1 to 7-2-1, Interior(1) 7-2-1 to 12-11-1 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 10 and 225 lb uplift at joint 5.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	J5	Roof Special	1	1	Job Reference (optional)

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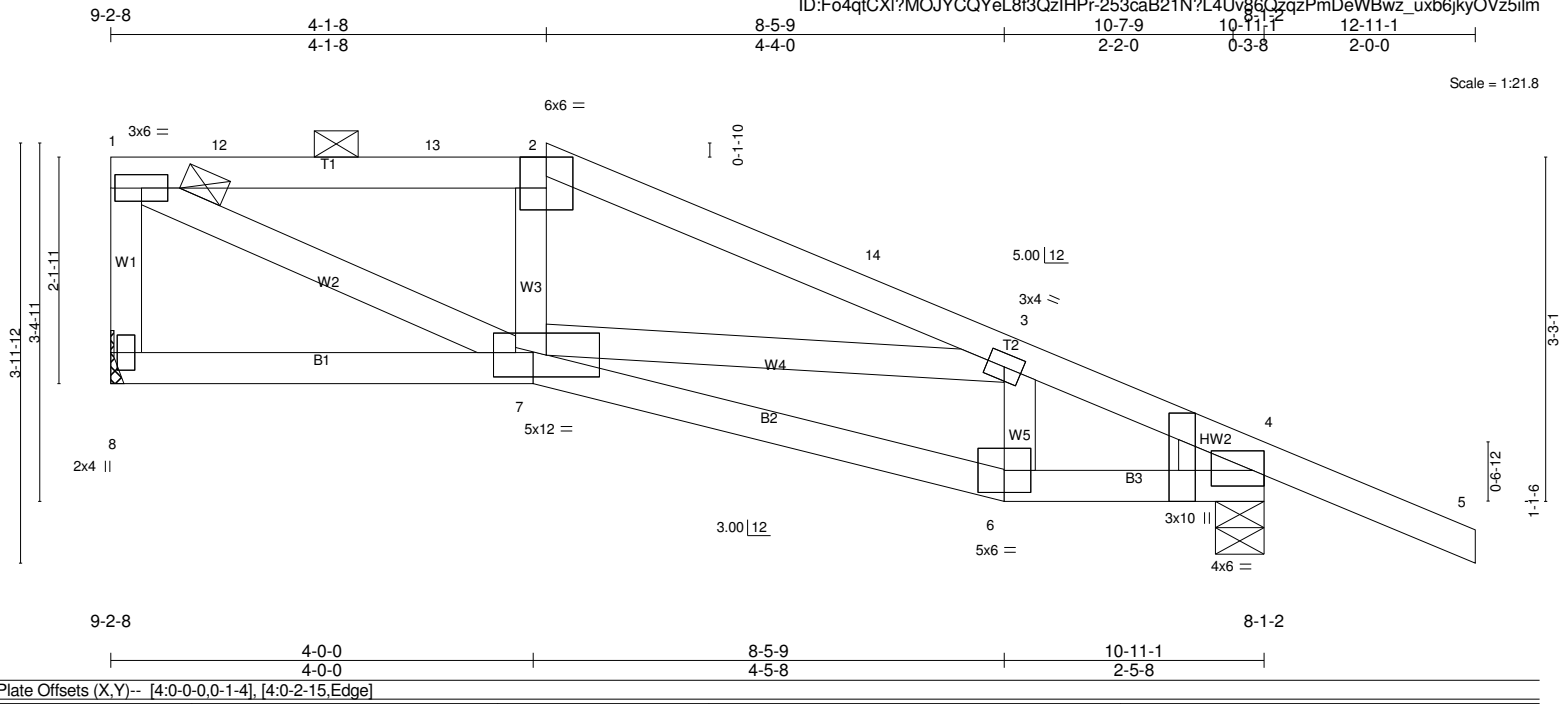

Plate Offsets (X,Y)-- [4:0-0-0,0-1-4], [4:0-2-15,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.03	6-7	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.07	6-7	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS							Weight: 43 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.

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

REACTIONS. (lb/size) 8=576/Mechanical, 4=789/0-5-8 (min. 0-1-11)
Max Horz 8=-131(LC 10)
Max Uplift 8=-103(LC 10), 4=-228(LC 14)
Max Grav 8=646(LC 29), 4=1079(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-604/304, 1-12=-863/384, 12-13=-862/384, 2-13=-860/384, 2-14=-932/361, 3-14=-1052/351, 3-4=-1206/445
BOT CHORD 6-7=-331/1088, 4-6=-336/1082
WEBS 1-7=-430/930, 3-6=-335/172

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-1-8, Exterior(2R) 4-1-8 to 7-1-8, Interior(1) 7-1-8 to 12-11-1 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 8 and 228 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	JC1	Jack-Open	4	1	Job Reference (optional)

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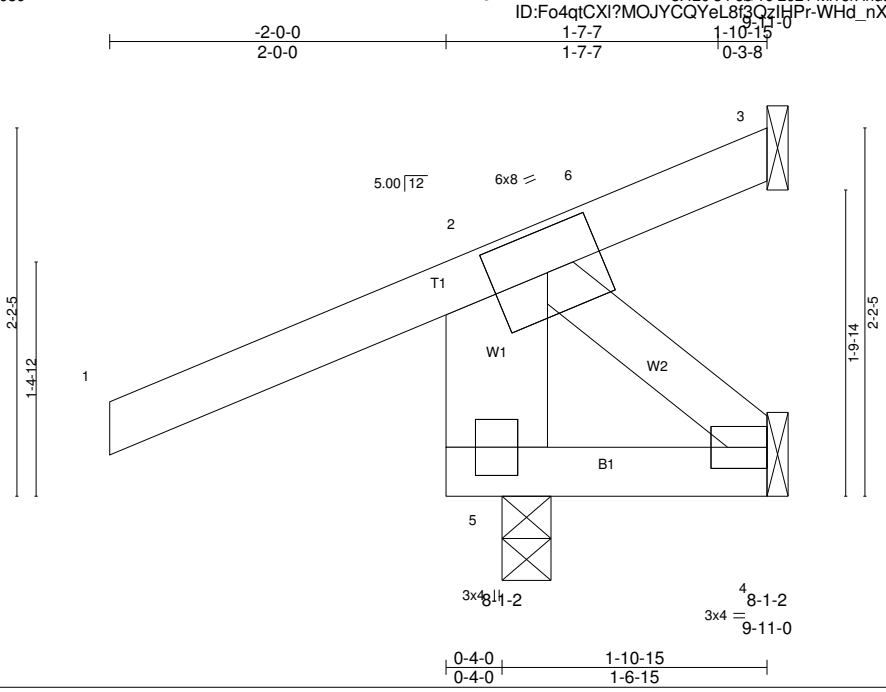

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.00 5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 12 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 DF 1950F 1.7E *Except*
W2: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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=-77/Mechanical, 4=16/Mechanical, 5=444/0-3-8 (min. 0-1-8)
Max Horz 5=80(LC 13)
Max Uplift 3=-125(LC 18), 4=-41(LC 14), 5=-189(LC 14)
Max Grav 3=57(LC 14), 4=32(LC 5), 5=610(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-594/369

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 1-10-13 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 125 lb uplift at joint 3, 41 lb uplift at joint 4 and 189 lb uplift at joint 5.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	JE	Jack-Open	2	1	Job Reference (optional)

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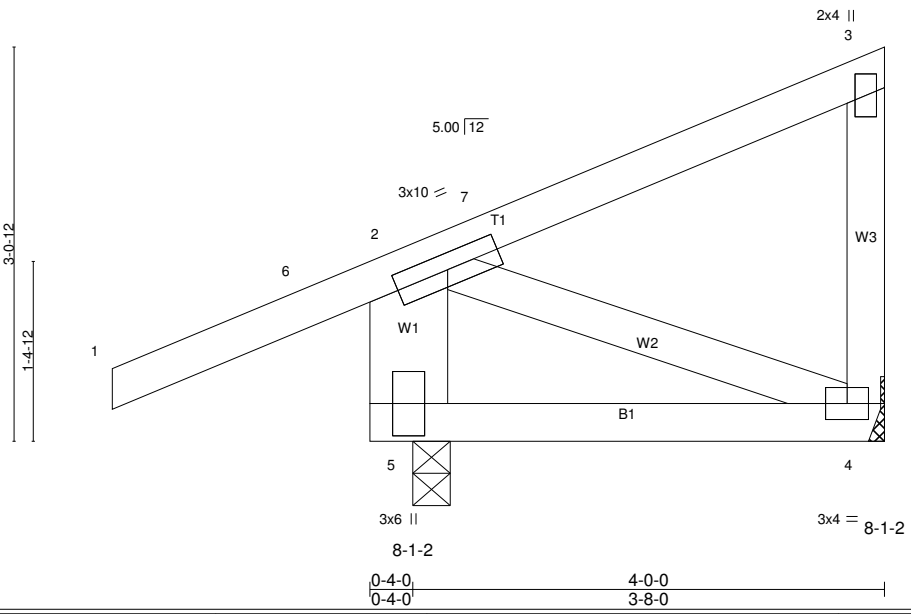

LOADING (psf)	**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL 30.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.01 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02 4-5 >999 180	
TCDL 15.0	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 22 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x8 DF 1950F 1.7E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 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=470/0-3-8 (min. 0-1-8), 4=128/Mechanical
Max Horz 5=147(LC 11)
Max Uplift 5=-199(LC 14), 4=-90(LC 11)
Max Grav 5=658(LC 19), 4=168(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-623/411
BOT CHORD 4-5=-308/203
WEBS 2-4=-182/299

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-10-4 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 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 199 lb uplift at joint 5 and 90 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Creekside / Sunrise Type 1 Hip
LC_CSSRV-T1HIP	JH	Diagonal Hip Girder	2	1	Job Reference (optional)

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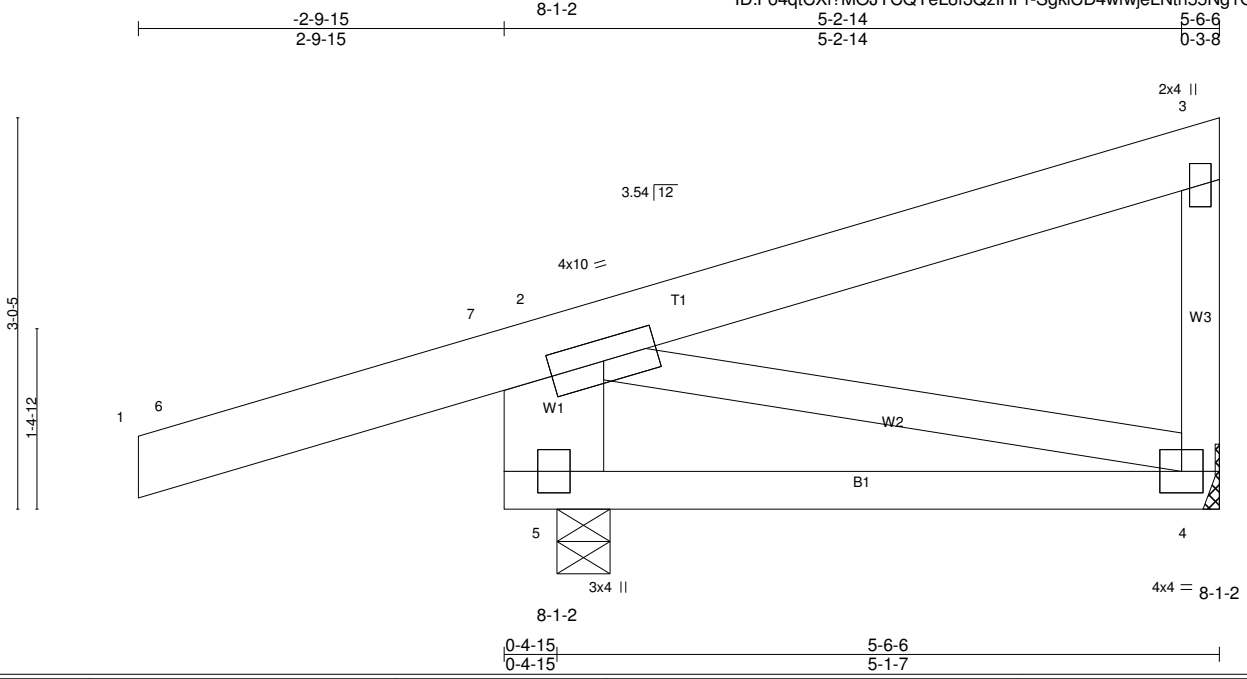

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.04 4-5 >999 240	MT20 197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.07 4-5 >910 180	
TCDL 15.0	Rep Stress Incr NO	WB 0.02	Horz(CT) -0.00 4 n/a n/a	
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MP		Weight: 33 lb FT = 20%
BCDL 10.0				

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W1: 2x10 DF 1950F 1.7E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 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=496/0-4-15 (min. 0-1-8), 4=177/Mechanical
Max Horz 5=143(LC 9)
Max Uplift 5=-233(LC 10), 4=-74(LC 7)
Max Grav 5=696(LC 15), 4=233(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-669/245

NOTES-
1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=4.5psf; BCDL=4.5psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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 233 lb uplift at joint 5 and 74 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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=-90
Trapezoidal Loads (plf)
Vert: 7=0(F=45, B=45)-to-2=-9(F=40, B=40), 2=-9(F=40, B=40)-to-3=-127(F=-19, B=-19), 5=-2(F=9, B=9)-to-4=-28(F=-4, B=-4)