Job	Truss	Truss Type	Qty	**Ply**	Hicks Residence - Milltown
2000811-2000811A	AH	Roof Special Girder	1	**2**	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:25 2020 Page 1
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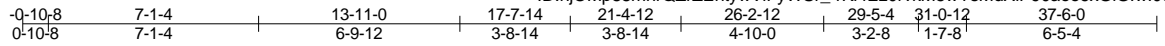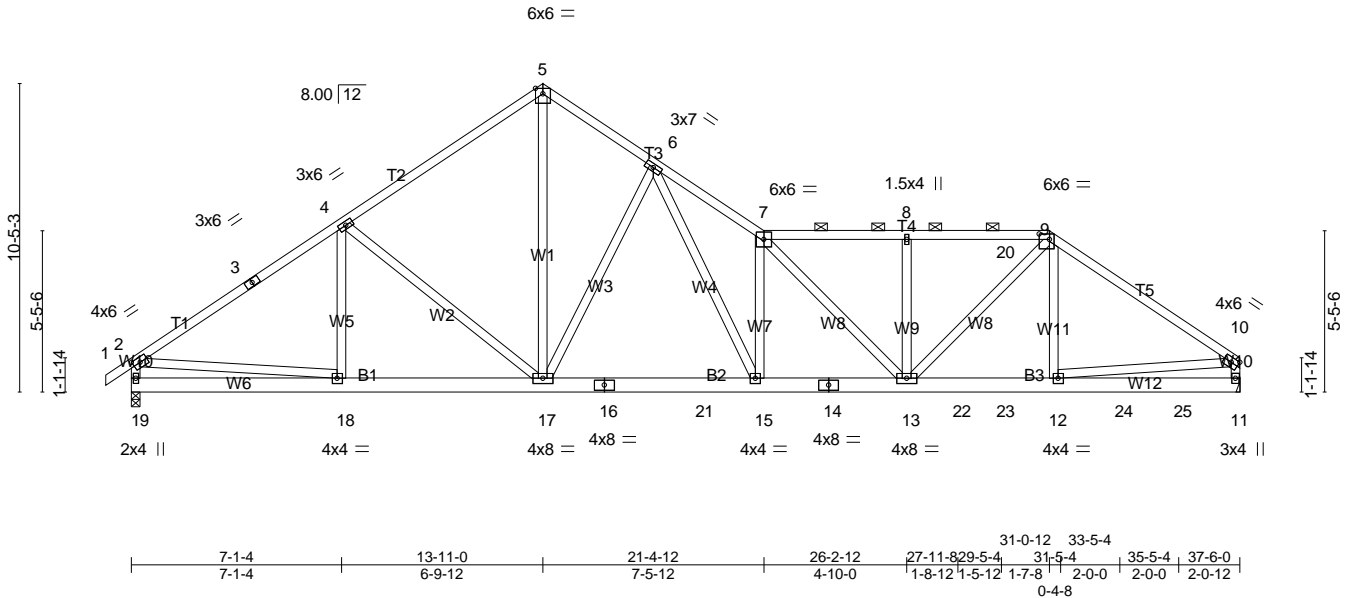
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Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [9:0-4-4,0-2-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.13	15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.23	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 547 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x6 SP No.2
WEBS   2x4 SP No.3

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

REACTIONS. (lb/size)   19=1773/0-3-8 (min. 0-1-8), 11=2363/Mechanical
Max Horz 19=269(LC 9)
Max Uplift19=-272(LC 12), 11=-750(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2348/521, 3-4=-2140/545, 4-5=-2067/609, 5-6=-1999/632,
6-7=-4267/1267, 7-8=-3504/1128, 8-20=-3504/1128, 9-20=-3504/1128,
9-10=-3162/1070, 2-19=-1687/437, 10-11=-2197/747
BOT CHORD   18-19=-290/559, 17-18=-367/1886, 16-17=-500/2341, 16-21=-500/2341,
15-21=-500/2341, 14-15=-893/3589, 13-14=-893/3589, 13-22=-800/2525,
22-23=-800/2525, 12-23=-800/2525, 12-24=-184/368, 24-25=-184/368,
11-25=-184/368
WEBS   4-17=-442/253, 5-17=-550/1853, 6-17=-1632/582, 6-15=-855/2737,
7-15=-2446/881, 7-13=-738/398, 8-13=-335/208, 9-13=-271/1418,
9-12=-298/425, 2-18=-202/1501, 10-12=-630/2187

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) 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) 11=750.
10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AH	Roof Special Girder	1	**2**	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:25 2020 Page 2
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NOTES-

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) 120 lb down and 162 lb up at 29-5-4 on top chord, and 675 lb down and 225 lb up at 27-11-8, 45 lb down and 40 lb up at 29-5-4, 169 lb down and 143 lb up at 31-5-4, and 120 lb down and 102 lb up at 33-5-4, and 120 lb down and 89 lb up at 35-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

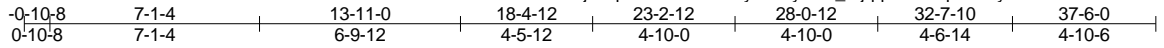**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-7=-60, 7-9=-60, 9-10=-60, 11-19=-20

Concentrated Loads (lb)

Vert: 12=-120(F) 20=-40(F) 22=-675(F) 23=-23(F) 24=-120(F) 25=-120(F)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA	Roof Special	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:27 2020 Page 1
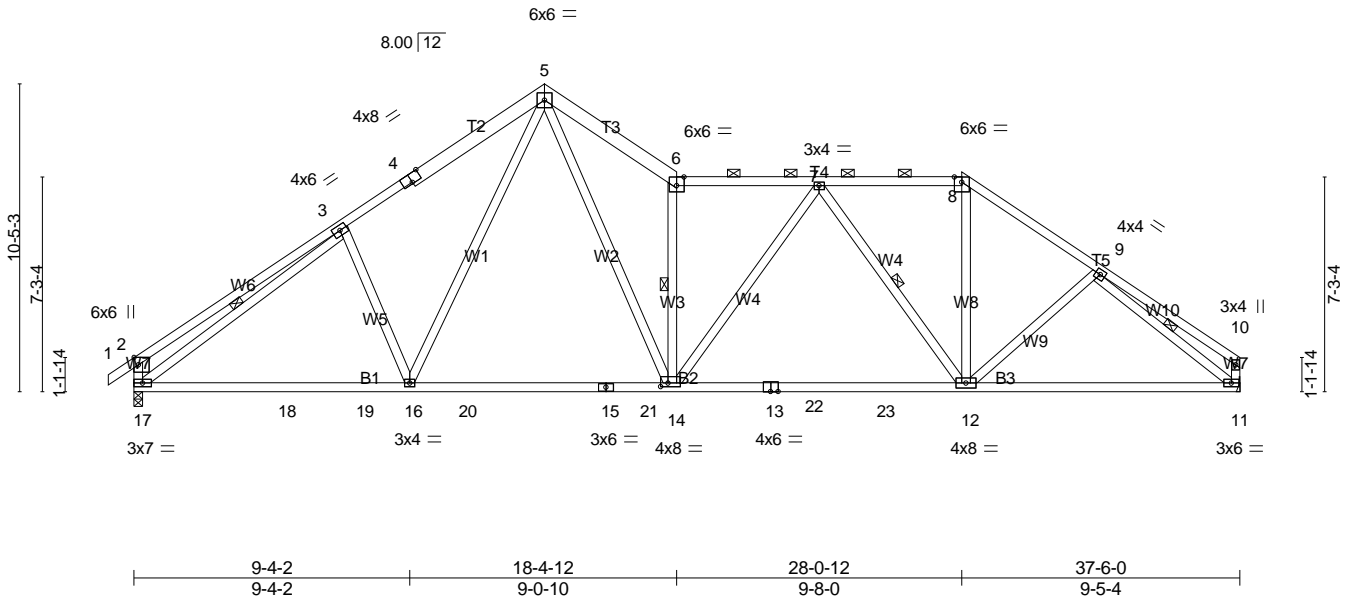ID:hjOMp88mnrQZrZEntywViFyWSr_-njqqff26RLdp9s0klyntFRf30wV4A5cDlKNAt0yW5rE

-0-10-8　7-1-4　13-11-0　18-4-12　23-2-12　28-0-12　32-7-10　37-6-0
0-10-8　7-1-4　6-9-12　4-5-12　4-10-0　4-10-0　4-6-14　4-10-6

Scale = 1:78.1

9-4-2　18-4-12　28-0-12　37-6-0
9-4-2　9-0-10　9-8-0　9-5-4

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-4-0,Edge], [6:0-3-0,Edge], [14:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.32	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.57	12-14	>787	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 249 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2 *Except*
　　T2,T3: 2x6 SP No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2 *Except*
　　B2: 2x4 SP No.1
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-7-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-5 max.): 6-8.
BOT CHORD   Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS   1 Row at midpt   6-14, 7-12, 3-17, 9-11

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

REACTIONS. (lb/size)   17=1550/0-3-8 (min. 0-2-8), 11=1487/Mechanical
　　Max Horz 17=272(LC 11)
　　Max Uplift17=-149(LC 12), 11=-208(LC 13)
　　Max Grav 17=1606(LC 19), 11=1487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-590/255, 3-4=-1971/444, 4-5=-1865/473, 5-6=-2534/613, 6-7=-2102/456,
　　7-8=-1515/369, 8-9=-1891/399, 9-10=-282/92, 2-17=-543/242
BOT CHORD   17-18=-231/1758, 18-19=-231/1758, 16-19=-231/1758, 16-20=-94/1427,
　　15-20=-94/1427, 15-21=-94/1427, 14-21=-94/1427, 14-22=-260/1914,
　　13-22=-260/1914, 13-23=-260/1914, 12-23=-260/1914, 11-12=-262/1505
WEBS   3-16=-259/273, 5-16=-149/581, 5-14=-372/1816, 6-14=-1584/437,
　　7-14=-36/393, 7-12=-707/172, 8-12=-104/793, 3-17=-1618/154,
　　9-11=-1782/337

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=208.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	AHA1	Roof Special Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:30 2020 Page 1
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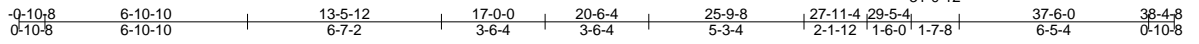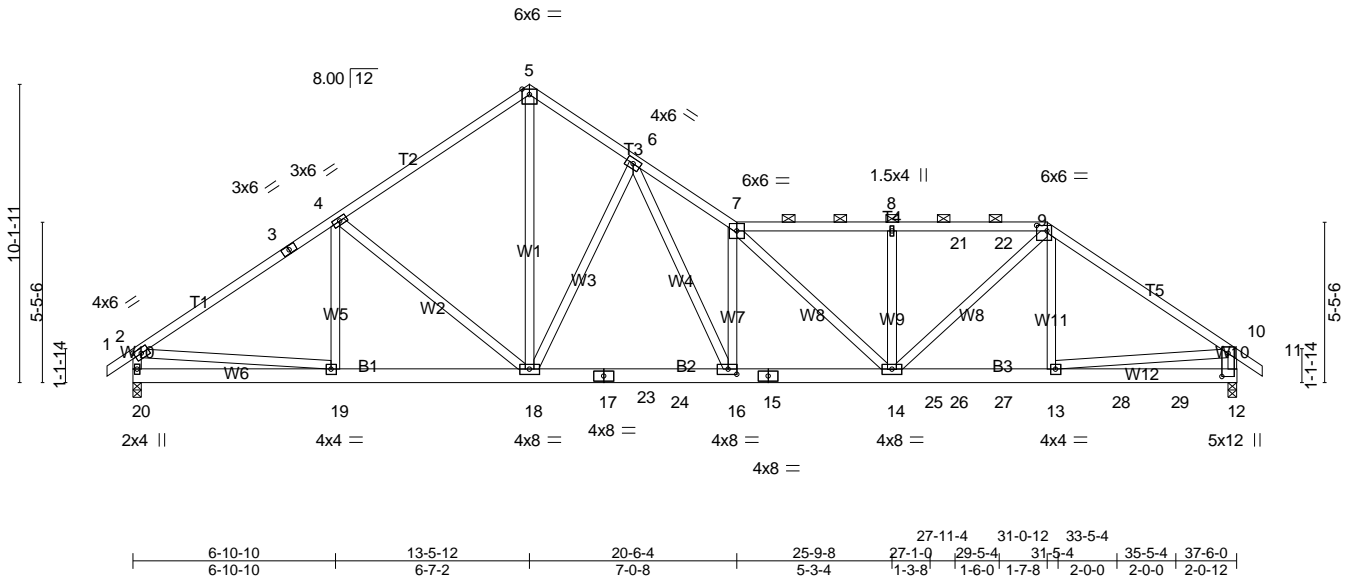
Scale = 1:78.3

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

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.15	16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.27	16	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.04	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 547 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-9 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=1900/0-3-8 (min. 0-1-8), 12=2707/0-3-8 (min. 0-2-2)
Max Horz 20=-267(LC 10)
Max Uplift20=-324(LC 12), 12=-901(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2533/596, 3-4=-2331/620, 4-5=-2296/694, 5-6=-2228/717,
6-7=-4832/1478, 7-8=-4212/1399, 8-21=-4212/1399, 21-22=-4212/1399,
9-22=-4212/1399, 9-10=-3594/1265, 2-20=-1813/486, 10-12=-2546/917
BOT CHORD   19-20=-280/556, 18-19=-395/2030, 18-23=-579/2644, 17-23=-579/2644,
17-24=-579/2644, 16-24=-579/2644, 15-16=-1040/4080, 14-15=-1040/4080,
14-25=-920/2876, 25-26=-920/2876, 26-27=-920/2876, 13-27=-920/2876,
13-28=-239/465, 28-29=-239/465, 12-29=-239/465
WEBS   4-18=-431/263, 5-18=-649/2121, 6-18=-1941/689, 6-16=-1040/3252,
7-16=-2974/1060, 7-14=-819/595, 8-14=-402/293, 9-14=-416/1854,
9-13=-245/383, 2-19=-269/1662, 10-13=-739/2443

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=901.
9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 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.

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA1	Roof Special Girder	1	**2**	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:31 2020 Page 2
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NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 162 lb up at 27-11-4, and 120 lb down and 162 lb up at 29-5-4 on top chord, and 1022 lb down and 265 lb up at 27-1-0, 45 lb down and 40 lb up at 27-11-4, 45 lb down and 40 lb up at 29-5-4, 169 lb down and 143 lb up at 31-5-4, and 120 lb down and 102 lb up at 33-5-4, and 120 lb down and 89 lb up at 35-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
       Vert: 1-2=-60, 2-5=-60, 5-7=-60, 7-9=-60, 9-10=-60, 10-11=-60, 12-20=-20
   Concentrated Loads (lb)
       Vert: 13=-120(B) 21=-40(B) 22=-40(B) 25=-1022(B) 26=-23(B) 27=-23(B) 28=-120(B) 29=-120(B)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA1	Roof Special Girder	1	**2**	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:31 2020 Page 2
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Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA2	Roof Special	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:32 2020 Page 1
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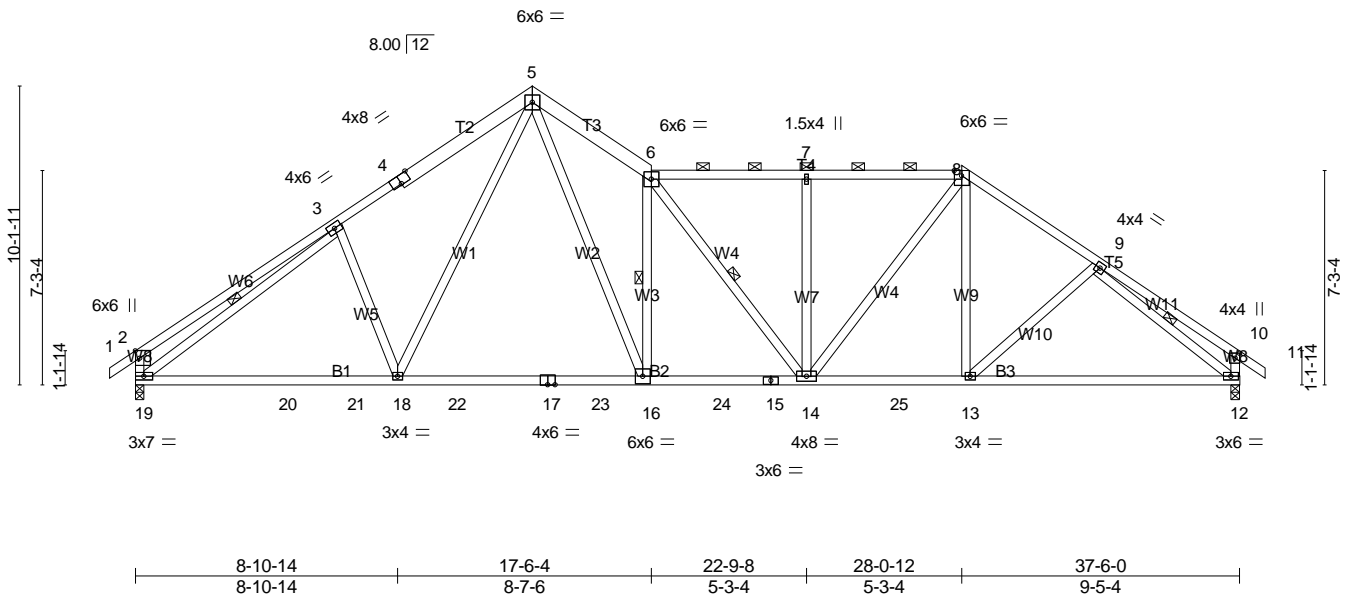
Scale = 1:78.3

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.25	16-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.42	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 258 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
   T2,T3: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 18-19.
WEBS 1 Row at midpt 6-16, 6-14, 3-19, 9-12

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

REACTIONS. (lb/size) 19=1550/0-3-8 (min. 0-2-8), 12=1550/0-3-8 (min. 0-2-7)
   Max Horz 19=270(LC 11)
   Max Uplift19=-146(LC 12), 12=-234(LC 13)
   Max Grav 19=1598(LC 19), 12=1550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-550/248, 3-4=-1977/445, 4-5=-1875/474, 5-6=-2510/614, 6-7=-1944/465,
   7-8=-1945/467, 8-9=-1870/405, 9-10=-349/120, 2-19=-517/236,
   10-12=-355/144
BOT CHORD 19-20=-195/1758, 20-21=-195/1758, 18-21=-195/1758, 18-22=-67/1444,
   17-22=-67/1444, 17-23=-67/1444, 16-23=-67/1444, 16-24=-219/2098,
   15-24=-219/2098, 14-15=-219/2098, 14-25=-131/1510, 13-25=-131/1510,
   12-13=-227/1490
WEBS 3-18=-241/265, 5-18=-146/559, 5-16=-385/1827, 6-16=-1457/444,
   6-14=-285/59, 7-14=-383/168, 8-14=-150/736, 8-13=0/280, 3-19=-1658/159,
   9-12=-1694/311

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 12. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA3	Roof Special	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:34 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-43lT727VoVVpVw24fwPW1vRILI_3JJYFMwa1d6yW5r7

-0-10-8   6-10-10   13-5-12   14-6-4   19-9-8   25-0-12   31-1-10   37-6-0   38-4-8
0-10-8   6-10-10   6-7-2   1-0-8   5-3-4   5-3-4   6-0-14   6-4-6   0-10-8
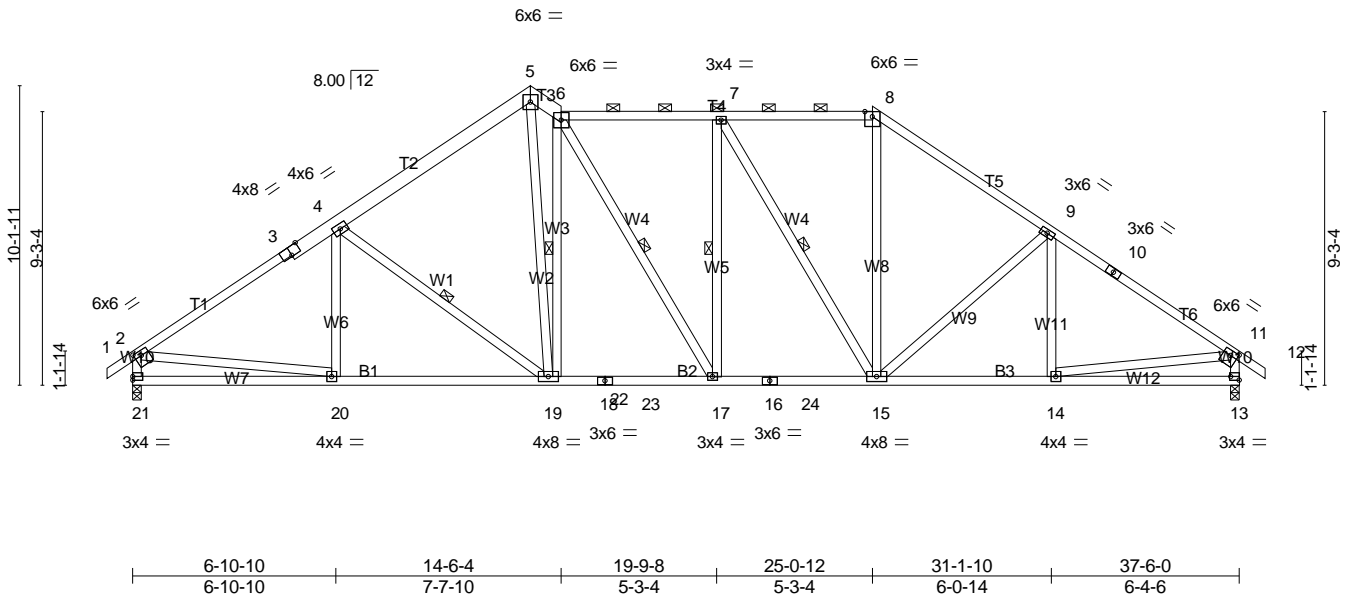
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	6-10-10	14-6-4	19-9-8	25-0-12	31-1-10	37-6-0
	6-10-10	7-7-10	5-3-4	5-3-4	6-0-14	6-4-6

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.11	17-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.22	17-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 275 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
           T2,T3: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-8-8 oc purlins,
            except end verticals, and 2-0-0 oc purlins (4-2-13 max.): 6-8.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-19, 6-19, 6-17, 7-17, 7-15

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

REACTIONS. (lb/size) 21=1550/0-3-8 (min. 0-2-7), 13=1550/0-3-8 (min. 0-2-7)
            Max Horz 21=270(LC 11)
            Max Uplift21=-146(LC 12), 13=-234(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2003/351, 3-4=-1807/379, 4-5=-1694/419, 5-6=-1612/464,
            6-7=-1557/436, 7-8=-1364/400, 8-9=-1747/423, 9-10=-1792/370,
            10-11=-1979/348, 2-21=-1485/326, 11-13=-1487/327
BOT CHORD   20-21=-261/414, 19-20=-199/1663, 19-22=-98/1492, 18-22=-98/1492,
            18-23=-98/1492, 17-23=-98/1492, 16-17=-120/1557, 16-24=-120/1557,
            15-24=-120/1557, 14-15=-193/1562, 13-14=-87/254
WEBS   4-19=-404/221, 5-19=-352/1415, 6-19=-1085/327, 6-17=-109/292,
            7-15=-456/152, 8-15=-94/623, 9-15=-332/174, 2-20=-129/1379,
            11-14=-126/1360

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21
   and 13. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2
   and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom
   chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA4	Hip	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:36 2020 Page 1
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-0-10-8 7-10-6 15-5-4 22-0-12 29-7-10 37-6-0 38-4-8
0-10-8 7-10-6 7-6-14 6-7-8 7-6-14 7-10-6 0-10-8

Scale = 1:78.2

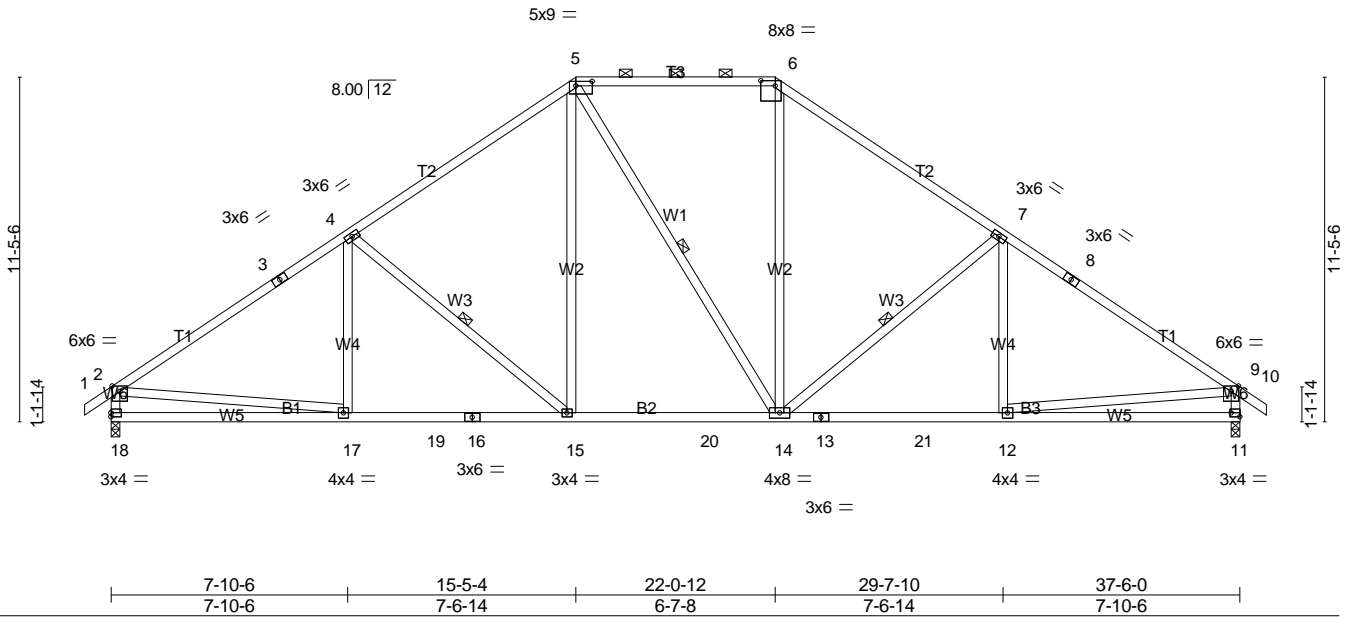|	7-10-6	15-5-4	22-0-12	29-7-10	37-6-0
	7-10-6	7-6-14	6-7-8	7-6-14	7-10-6

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 20.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.13 14-15 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.24 14-15 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.06 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 244 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 5-14, 7-14

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

REACTIONS. (lb/size) 18=1550/0-3-8 (min. 0-2-7), 11=1550/0-3-8 (min. 0-2-7)
Max Horz 18=-301(LC 10)
Max Uplift18=-160(LC 12), 11=-160(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2001/341, 3-4=-1793/369, 4-5=-1617/416, 5-6=-1238/408,
6-7=-1616/416, 7-8=-1780/369, 8-9=-2001/341, 2-18=-1475/328,
9-11=-1475/328
BOT CHORD 17-18=-310/541, 17-19=-190/1715, 16-19=-190/1715, 15-16=-190/1715,
15-20=-41/1298, 14-20=-41/1298, 13-14=-171/1562, 13-21=-171/1562,
12-21=-171/1562, 11-12=-134/366
WEBS 4-15=-529/245, 5-15=-72/590, 6-14=-44/525, 7-14=-531/245, 2-17=-55/1293,
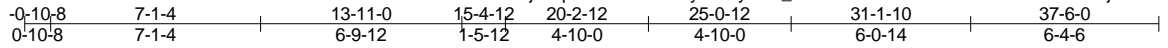9-12=-56/1283

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHA5	Piggyback Base	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:38 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-yq?_zQB?rj?FzYLrumUSBlcvaMLdF8?rHYYFmtyW5r3

-0-10-8 7-10-6 15-5-4 22-0-12 29-7-10 37-6-0 38-4-8
0-10-8 7-10-6 7-6-14 6-7-8 7-6-14 7-10-6 0-10-8

Scale = 1:76.5

5x9 =
8x8 =
8.00 12

11-5-6
11-5-6

1-1-14
1-1-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.13	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.24	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 245 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-3 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 5-14, 7-14

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

REACTIONS. (lb/size) 18=1550/0-3-8 (min. 0-2-7), 11=1550/0-3-8 (min. 0-2-7)
Max Horz 18=-303(LC 10)
Max Uplift18=-159(LC 12), 11=-159(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2001/341, 3-4=-1794/369, 4-5=-1615/417, 5-6=-1226/408,
6-7=-1614/417, 7-8=-1780/369, 8-9=-2001/341, 2-18=-1475/328,
9-11=-1475/328
BOT CHORD 17-18=-312/543, 17-19=-192/1717, 16-19=-192/1717, 15-16=-192/1717,
15-20=-42/1287, 14-20=-42/1287, 13-14=-171/1562, 13-21=-171/1562,
12-21=-171/1562, 11-12=-133/365
WEBS 4-15=-545/249, 5-15=-74/601, 6-14=-48/536, 7-14=-547/249, 2-17=-56/1294,
9-12=-57/1284

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	AHB	Roof Special	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:40 2020 Page 1
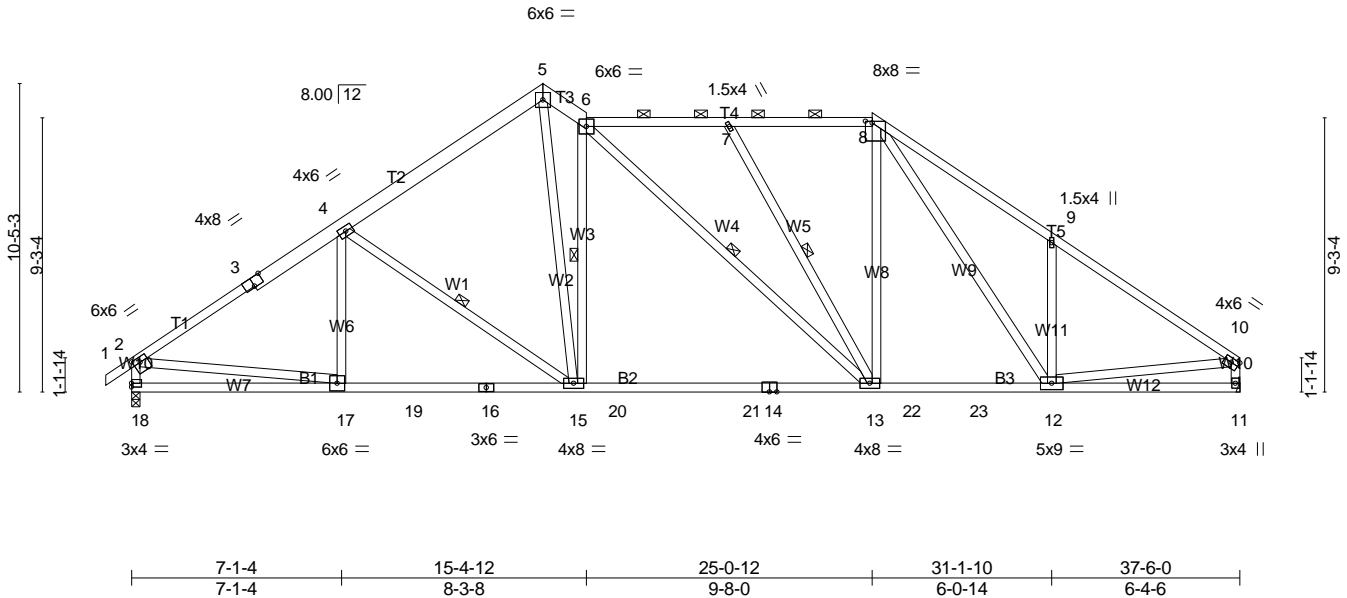ID:hjOMp88mnrQZrZEntywViFyWSr_-vD6kO6CFNLFzDrVE0BWwGAhKk9?oj0z7ks1MqmyW5r1

```
     -0-10-8     7-1-4          13-11-0      15-4-12  20-2-12     25-0-12       31-1-10          37-6-0
     0-10-8      7-1-4          6-9-12       1-5-12   4-10-0      4-10-0        6-0-14           6-4-6
```

Scale = 1:78.0


```
            7-1-4          15-4-12          25-0-12           31-1-10          37-6-0
            7-1-4          8-3-8            9-8-0             6-0-14           6-4-6
```

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.29 13-15 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.55 13-15 >819 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.06 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 274 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
　　　　　　T2,T3: 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
　　　　　　B1: 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 *Except*
　　　　　　W4: 2x4 SP No.2 or 2x4 SPF No.2

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

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

REACTIONS. (lb/size) 18=1550/0-3-8 (min. 0-2-7), 11=1487/Mechanical
　　　　　Max Horz 18=272(LC 9)
　　　　　Max Uplift18=-149(LC 12), 11=-208(LC 13)
　　　　　Max Grav 18=1558(LC 19), 11=1487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2016/350, 3-4=-1846/377, 4-5=-1692/408, 5-6=-1769/481,
　　　　　6-7=-1586/474, 7-8=-1427/393, 8-9=-1977/555, 9-10=-1978/369,
　　　　　2-18=-1490/327, 10-11=-1419/283
BOT CHORD 17-18=-273/422, 17-19=-235/1763, 16-19=-235/1763, 15-16=-235/1763,
　　　　　15-20=-134/1609, 20-21=-134/1609, 14-21=-134/1609, 13-14=-134/1609,
　　　　　13-22=-113/1422, 22-23=-113/1422, 12-23=-113/1422
WEBS 4-15=-437/235, 5-15=-365/1591, 6-15=-1095/368, 7-13=-396/176,
　　　　　8-13=-49/614, 8-12=-250/437, 9-12=-422/296, 2-17=-127/1403,
　　　　　10-12=-180/1424

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=208.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	AHC	Hip	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:42 2020 Page 1
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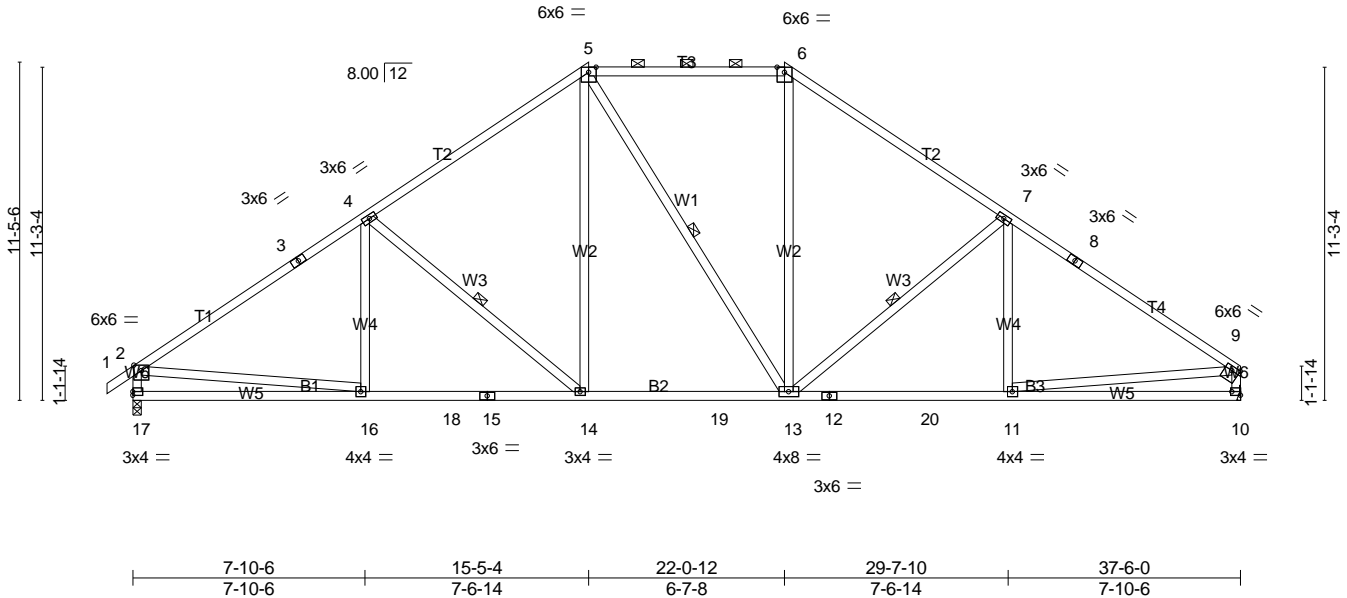
Plate Offsets (X,Y)-- [9:Edge,0-1-12], [10:Edge,0-1-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.13	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.24	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 243 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3 *Except*
           W1: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end
           verticals, and 2-0-0 oc purlins (3-8-2 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-14, 5-13, 7-13

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

REACTIONS. (lb/size) 17=1550/0-3-8 (min. 0-2-7), 10=1487/Mechanical
           Max Horz 17=295(LC 9)
           Max Uplift17=-159(LC 12), 10=-138(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2002/341, 3-4=-1794/369, 4-5=-1618/416, 5-6=-1239/407,
           6-7=-1620/417, 7-8=-1780/366, 8-9=-2001/337, 2-17=-1476/328,
           9-10=-1413/283
BOT CHORD 16-17=-316/533, 16-18=-211/1707, 15-18=-211/1707, 14-15=-211/1707,
           14-19=-54/1290, 13-19=-54/1290, 12-13=-212/1571, 12-20=-212/1571,
           11-20=-212/1571
WEBS   4-14=-528/245, 5-14=-72/590, 6-13=-47/529, 7-13=-541/249, 2-16=-55/1294,
           9-11=-132/1364

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s)
   except (jt=lb) 10=138.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17.
   This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	AHD	Piggyback Base	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334 8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:44 2020 Page 1
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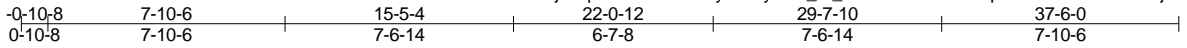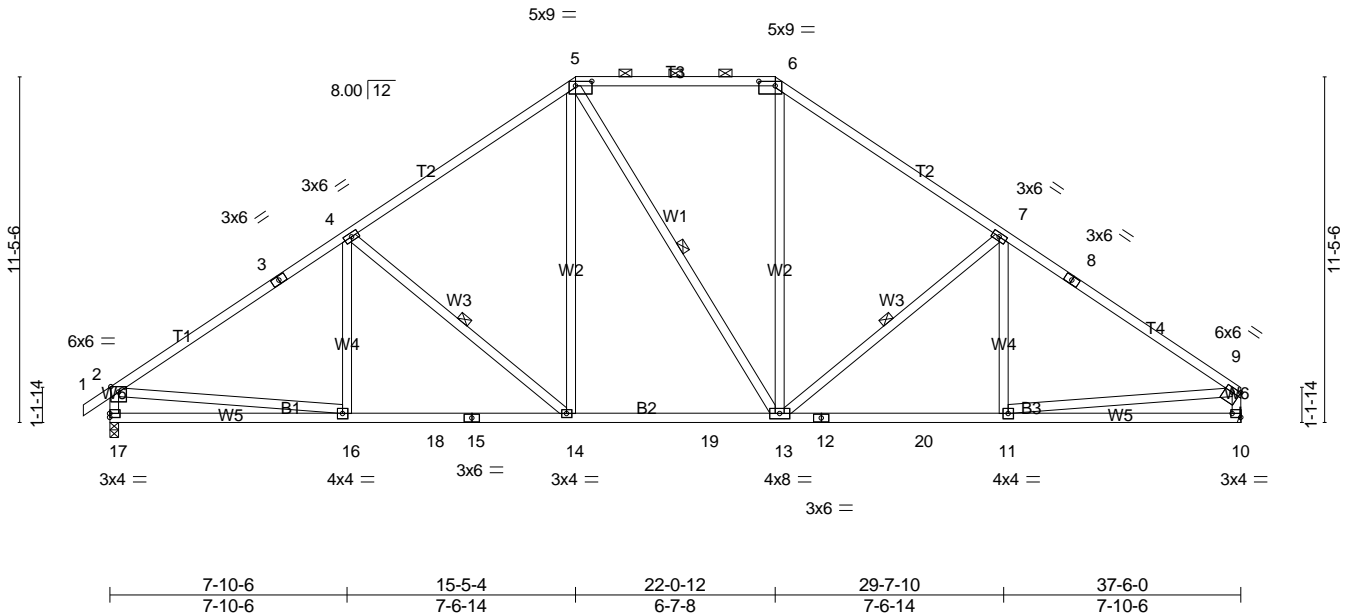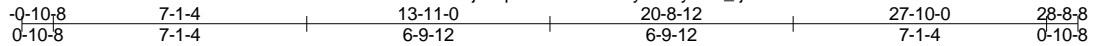
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Plate Offsets (X,Y)--	[5:0-6-8,0-1-12], [6:0-6-8,0-1-12], [9:Edge,0-1-12], [10:Edge,0-1-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL)	-0.13	13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT)	-0.24	13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT)	0.06	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						Weight: 243 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-13, 7-13

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

REACTIONS. (lb/size) 17=1550/0-3-8 (min. 0-2-7), 10=1487/Mechanical
Max Horz 17=298(LC 11)
Max Uplift17=-159(LC 12), 10=-137(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2002/341, 3-4=-1795/369, 4-5=-1616/417, 5-6=-1227/408,
6-7=-1618/418, 7-8=-1781/366, 8-9=-2001/337, 2-17=-1476/328,
9-10=-1413/283
BOT CHORD 16-17=-318/535, 16-18=-212/1709, 15-18=-212/1709, 14-15=-212/1709,
14-19=-50/1280, 13-19=-50/1280, 12-13=-212/1571, 12-20=-212/1571,
11-20=-212/1571
WEBS 4-14=-545/249, 5-14=-74/601, 6-13=-51/540, 7-13=-557/253, 2-16=-57/1294,
9-11=-133/1364

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=137.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	B	Common	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:46 2020 Page 1
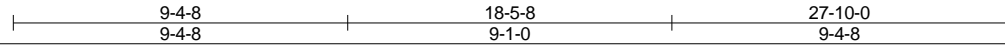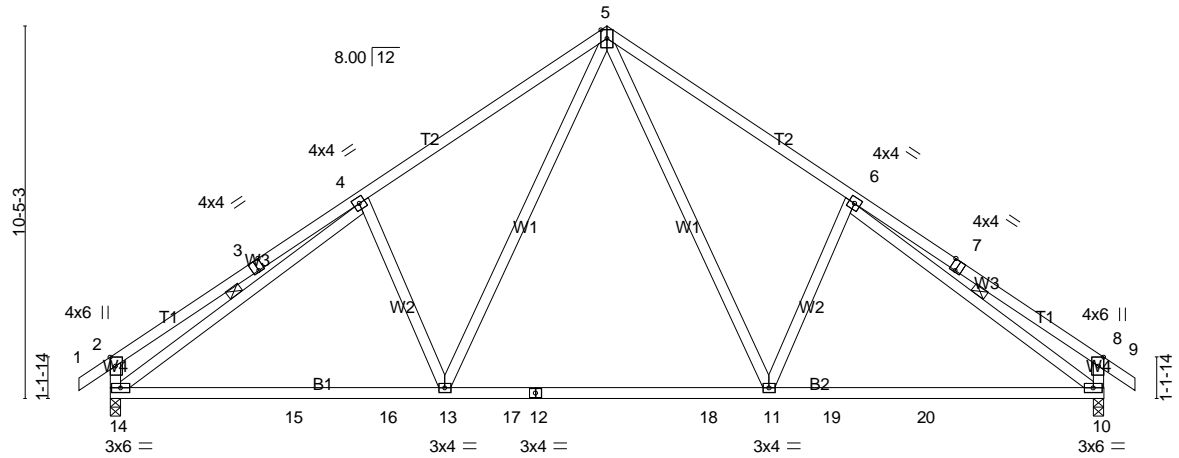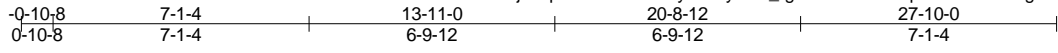ID:hjOMp88mnrQZrZEntywViFyWSr_-jNU0e9H0zB06xmzOMRdKWRxKZa0C7nD07oUg1PyW5qx

Scale: 3/16"=1'

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.23	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.35	10-11	>947	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 171 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 6-10

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

REACTIONS. (lb/size) 14=1163/0-3-8 (min. 0-1-15), 10=1163/0-3-8 (min. 0-1-15)
Max Horz 14=-278(LC 10)
Max Uplift14=-136(LC 12), 10=-136(LC 13)
Max Grav 14=1229(LC 19), 10=1229(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-508/206, 3-4=-417/230, 4-5=-1400/368, 5-6=-1400/368, 6-7=-416/230,
7-8=-508/206, 2-14=-486/222, 8-10=-485/222
BOT CHORD 14-15=-173/1314, 15-16=-173/1314, 13-16=-173/1314, 13-17=0/904,
12-17=0/904, 12-18=0/904, 11-18=0/904, 11-19=-108/1157, 19-20=-108/1157,
10-20=-108/1157
WEBS 5-11=-162/689, 6-11=-330/287, 5-13=-162/689, 4-13=-330/287,
4-14=-1148/71, 6-10=-1148/71

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14
and 10. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	B1	Common	2	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:48 2020 Page 1
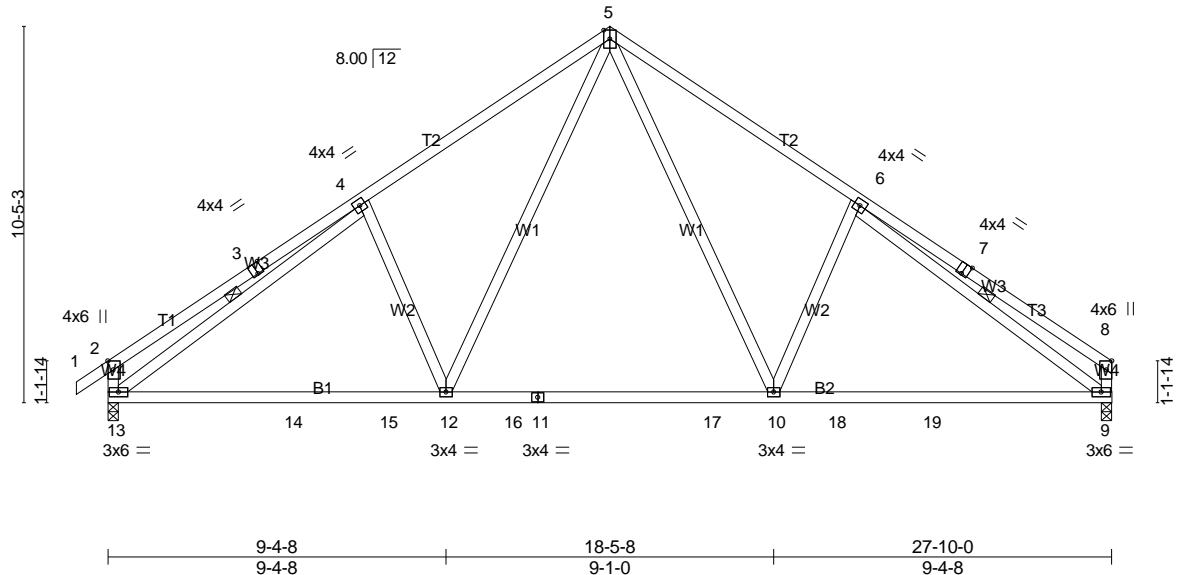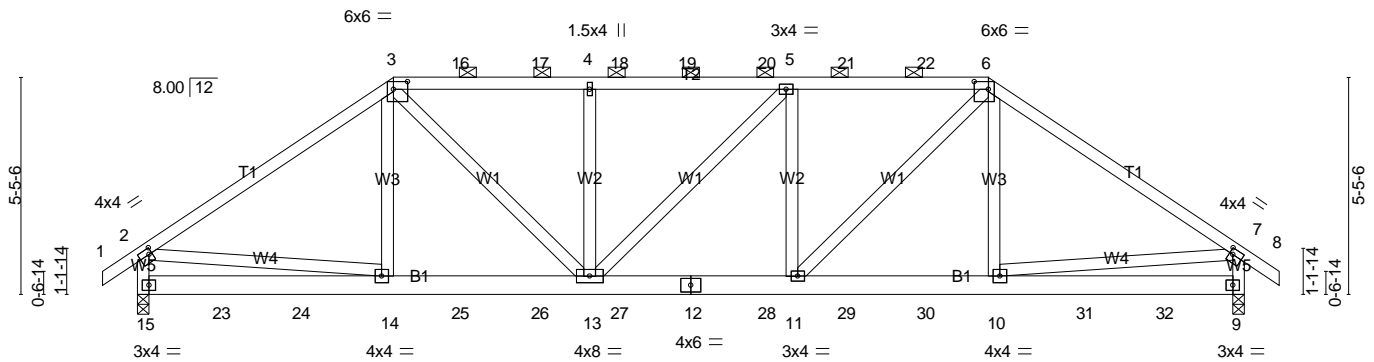ID:hjOMp88mnrQZrZEntywViFyWSr_-gmbm3rIHVoGqA46mUsfobs0g4OifbhFJa5zn5IyW5qv

-0-10-8 7-1-4 13-11-0 20-8-12 27-10-0
0-10-8 7-1-4 6-9-12 6-9-12 7-1-4

4x6 ||

Scale: 3/16"=1'

9-4-8 18-5-8 27-10-0
9-4-8 9-1-0 9-4-8

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL)	-0.23	10-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT)	-0.35	9-10	>947	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT)	0.05	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						Weight: 170 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 6-9

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

REACTIONS. (lb/size) 13=1164/0-3-8 (min. 0-1-15), 9=1101/0-3-8 (min. 0-1-13)
Max Horz 13=272(LC 9)
Max Uplift13=-135(LC 12), 9=-114(LC 13)
Max Grav 13=1230(LC 19), 9=1170(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-508/205, 3-4=-416/230, 4-5=-1402/368, 5-6=-1408/370, 6-7=-318/164,
7-8=-419/139, 2-13=-485/222, 8-9=-367/149
BOT CHORD 13-14=-184/1307, 14-15=-184/1307, 12-15=-184/1307, 12-16=-2/897,
11-16=-2/897, 11-17=-2/897, 10-17=-2/897, 10-18=-148/1155,
18-19=-148/1155, 9-19=-148/1155
WEBS 5-10=-164/697, 6-10=-336/290, 5-12=-162/689, 4-12=-330/287,
4-13=-1150/72, 6-9=-1208/140

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	BH	Hip Girder	1	**2**	Job Reference (optional)

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ID:hjOMp88mnrQZrZEntywViFyWSr_-z6WPXEOgry8qW997OqHRNKpxpCFOkuRLBh9erOyW5qo

Scale = 1:57.9

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.08	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.08	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 382 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x6 SP No.2
WEBS   2x4 SP No.3

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.): 3-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   15=1745/0-3-8 (min. 0-1-8), 9=1744/0-3-8 (min. 0-1-8)
Max Horz 15=-152(LC 10)
Max Uplift15=-922(LC 12), 9=-921(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2114/1331, 3-16=-2192/1577, 16-17=-2192/1577, 4-17=-2192/1577, 4-18=-2192/1577,
            18-19=-2192/1577, 19-20=-2192/1577, 5-20=-2192/1577, 5-21=-2195/1579, 21-22=-2195/1579,
            6-22=-2195/1579, 6-7=-2112/1329, 2-15=-1555/962, 7-9=-1554/960
BOT CHORD   15-23=-313/535, 23-24=-313/535, 14-24=-313/535, 14-25=-1038/1704, 25-26=-1038/1704,
            13-26=-1038/1704, 13-27=-1407/2241, 12-27=-1407/2241, 12-28=-1407/2241, 11-28=-1407/2241,
            11-29=-975/1650, 29-30=-975/1650, 10-30=-975/1650, 10-31=-261/445, 31-32=-261/445, 9-32=-261/445
WEBS   3-14=-102/280, 3-13=-663/852, 4-13=-434/442, 5-11=-456/463, 6-11=-668/858, 6-10=-98/277,
            2-14=-924/1404, 7-10=-927/1402

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 15, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer
   should verify capacity of bearing surface.
9) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15
   and 9. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 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.

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	BH	Hip Girder	1	**2**	
					Job Reference (optional)

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 162 lb up at 8-0-12, 120 lb down and 162 lb up at 10-0-12, 120 lb down and 162 lb up at 12-0-12, 120 lb down and 162 lb up at 13-9-4, 120 lb down and 162 lb up at 15-9-4, and 120 lb down and 162 lb up at 17-9-4, and 120 lb down and 162 lb up at 19-9-4 on top chord, and 120 lb down and 89 lb up at 2-0-12, 120 lb down and 102 lb up at 4-0-12, 169 lb down and 143 lb up at 6-0-12, 45 lb down and 40 lb up at 8-0-12, 45 lb down and 40 lb up at 10-0-12, 45 lb down and 40 lb up at 12-0-12, 45 lb down and 40 lb up at 13-9-4, 45 lb down and 40 lb up at 15-9-4, 45 lb down and 40 lb up at 17-9-4, 45 lb down and 40 lb up at 19-9-4, 169 lb down and 143 lb up at 21-9-4, and 120 lb down and 102 lb up at 23-9-4, and 120 lb down and 89 lb up at 25-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-6=-60, 6-7=-60, 7-8=-60, 9-15=-20

Concentrated Loads (lb)

Vert: 12=-23(F) 14=-120(F) 10=-120(F) 16=-40(F) 17=-40(F) 18=-40(F) 19=-40(F) 20=-40(F) 21=-40(F) 22=-40(F) 23=-120(F) 24=-120(F) 25=-23(F) 26=-23(F) 27=-23(F) 28=-23(F) 29=-23(F) 30=-23(F) 31=-120(F) 32=-120(F)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	BH1	Hip	1	1	
					Job Reference (optional)

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ID:hjOMp88mnrQZrZEntywViFyWSr_-vUeAywPwNZOYlTIVVFKvSluGZ0nhCfyef?elwGyW5qm

-0-10-8	4-10-6	9-5-4	13-11-0	18-4-12	22-11-10	27-10-0	28-8-8
0-10-8	4-10-6	4-6-14	4-5-12	4-5-12	4-6-14	4-10-6	0-10-8

Scale = 1:56.8

9-5-4	18-4-12	27-10-0
9-5-4	8-11-8	9-5-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.30	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.40	11-13	>830	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 173 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS. (lb/size) 14=1163/0-3-8 (min. 0-1-13), 10=1163/0-3-8 (min. 0-1-13)
Max Horz 14=-202(LC 10)
Max Uplift14=-108(LC 12), 10=-108(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-315/119, 3-4=-1264/298, 4-5=-986/286, 5-6=-986/286, 6-7=-1264/298,
7-8=-315/119, 2-14=-322/142, 8-10=-322/142
BOT CHORD   13-14=-155/1050, 12-13=-92/1089, 12-15=-92/1089, 11-15=-92/1089,
10-11=-151/1050
WEBS   4-13=-50/422, 5-13=-269/161, 5-11=-269/160, 6-11=-50/422, 3-14=-1154/211,
7-10=-1154/211

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	BH2	Hip	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:55:59 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-rtmwNbRAvAfG?mSudgMNYA_b9qY9ggcw6J7s_9yW5qk

-0-10-8   6-4-6   12-5-4   15-4-12   21-5-10   27-10-0   28-8-8
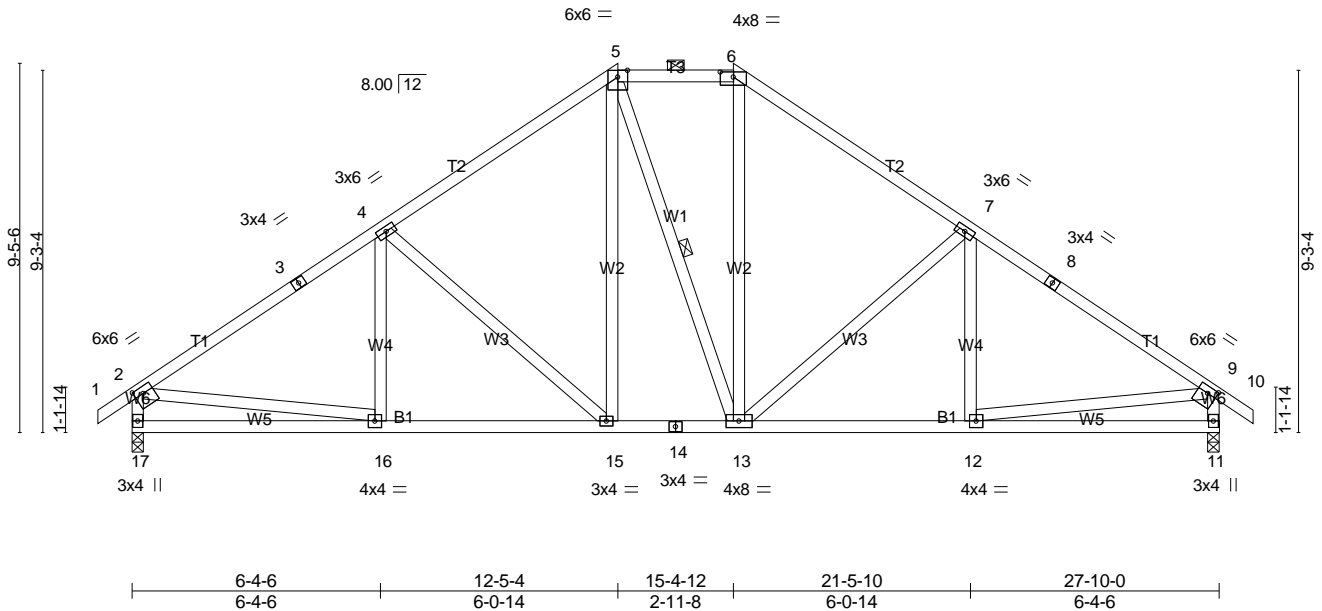0-10-8   6-4-6   6-0-14   2-11-8   6-0-14   6-4-6   0-10-8

Scale = 1:59.0

6-4-6   12-5-4   15-4-12   21-5-10   27-10-0
6-4-6   6-0-14   2-11-8   6-0-14   6-4-6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.04	15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.10	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 190 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-6-15 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.
WEBS   1 Row at midpt   5-13

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

REACTIONS. (lb/size) 17=1163/0-3-8 (min. 0-1-13), 11=1163/0-3-8 (min. 0-1-13)
Max Horz 17=-251(LC 10)
Max Uplift17=-129(LC 12), 11=-129(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1413/240, 3-4=-1226/263, 4-5=-1118/305, 5-6=-838/302, 6-7=-1119/305,
7-8=-1226/263, 8-9=-1412/240, 2-17=-1103/254, 9-11=-1103/254
BOT CHORD 16-17=-242/376, 15-16=-140/1101, 14-15=-1/837, 13-14=-1/837,
12-13=-105/1092
WEBS 4-15=-387/193, 5-15=-74/336, 6-13=-58/337, 7-13=-386/192, 2-16=-39/907,
9-12=-40/906

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 11. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	C	Common	3	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334
8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:01 2020 Page 1
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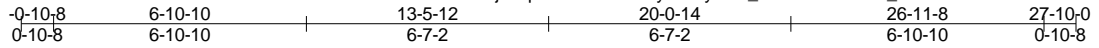
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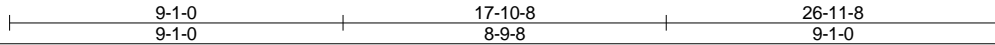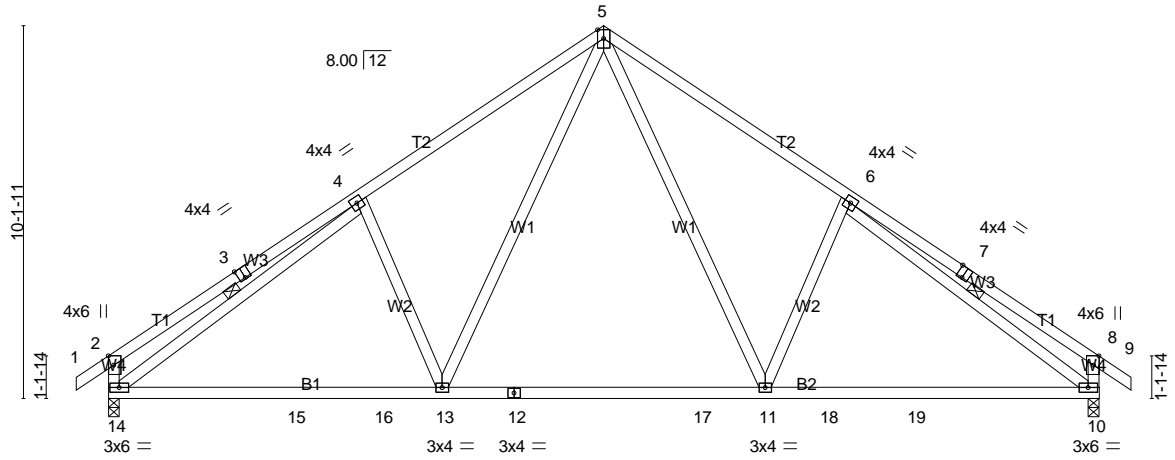Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-2-0,Edge], [7:0-2-0,Edge], [8:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.20	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.31	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 166 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   4-14, 6-10

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

REACTIONS. (lb/size)   14=1128/0-3-8 (min. 0-1-14), 10=1128/0-3-8 (min. 0-1-14)
Max Horz 14=270(LC 11)
Max Uplift14=-132(LC 12), 10=-132(LC 13)
Max Grav 14=1181(LC 19), 10=1182(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-477/197, 3-4=-393/220, 4-5=-1336/356, 5-6=-1338/356, 6-7=-393/220,
7-8=-477/196, 2-14=-464/215, 8-10=-463/215
BOT CHORD   14-15=-166/1255, 15-16=-166/1255, 13-16=-166/1255, 12-13=0/866,
12-17=0/866, 11-17=0/866, 11-18=-104/1104, 18-19=-104/1104,
10-19=-104/1104
WEBS   5-11=-156/657, 6-11=-316/278, 5-13=-156/653, 4-13=-316/278,
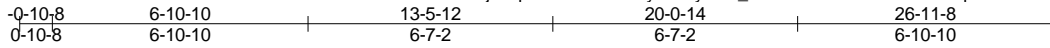4-14=-1105/72, 6-10=-1107/72

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14
and 10. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	C1	Common	2	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:02 2020 Page 1
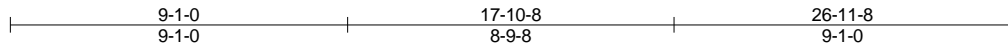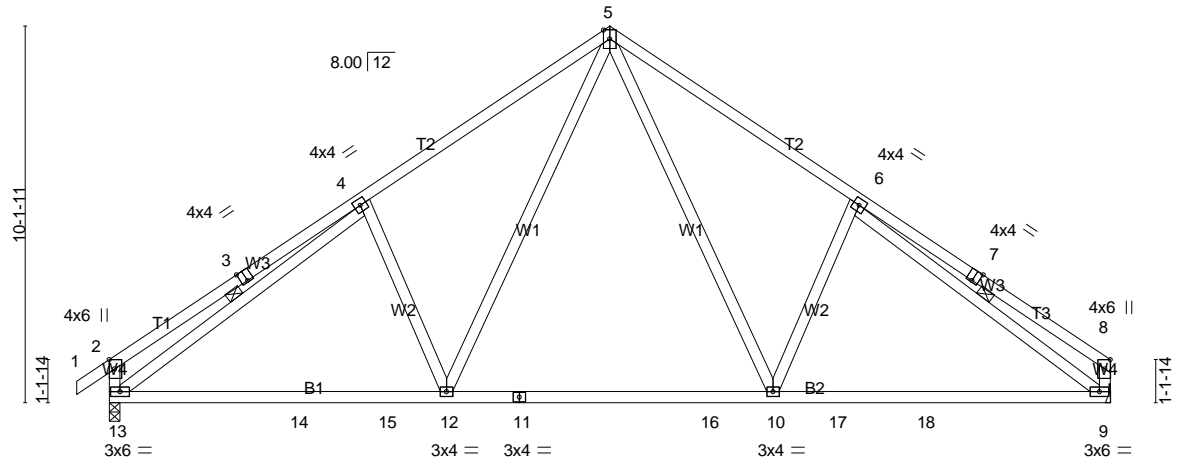ID:hjOMp88mnrQZrZEntywViFyWSr_-FSS3?dT3C51rsEBTIov49pc4G1V0t1MNoHMWbUyW5qh

-0-10-8	6-10-10	13-5-12	20-0-14	26-11-8
0-10-8	6-10-10	6-7-2	6-7-2	6-10-10

4x6 ||

Scale = 1:62.0

	9-1-0	17-10-8	26-11-8
	9-1-0	8-9-8	9-1-0

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL)	-0.20	10-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT)	-0.31	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT)	0.04	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						Weight: 165 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 13=1129/0-3-8 (min. 0-1-14), 9=1065/Mechanical
Max Horz 13=265(LC 11)
Max Uplift13=-132(LC 12), 9=-110(LC 13)
Max Grav 13=1182(LC 19), 9=1124(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-477/196, 3-4=-392/220, 4-5=-1337/356, 5-6=-1345/358, 6-7=-301/158,
7-8=-395/133, 2-13=-464/215, 8-9=-349/143
BOT CHORD 13-14=-177/1248, 14-15=-177/1248, 12-15=-177/1248, 11-12=-1/859,
11-16=-1/859, 10-16=-1/859, 10-17=-144/1102, 17-18=-144/1102,
9-18=-144/1102
WEBS 5-10=-159/665, 6-10=-323/281, 5-12=-157/654, 4-12=-317/278,
4-13=-1107/72, 6-9=-1162/137

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=110.
7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
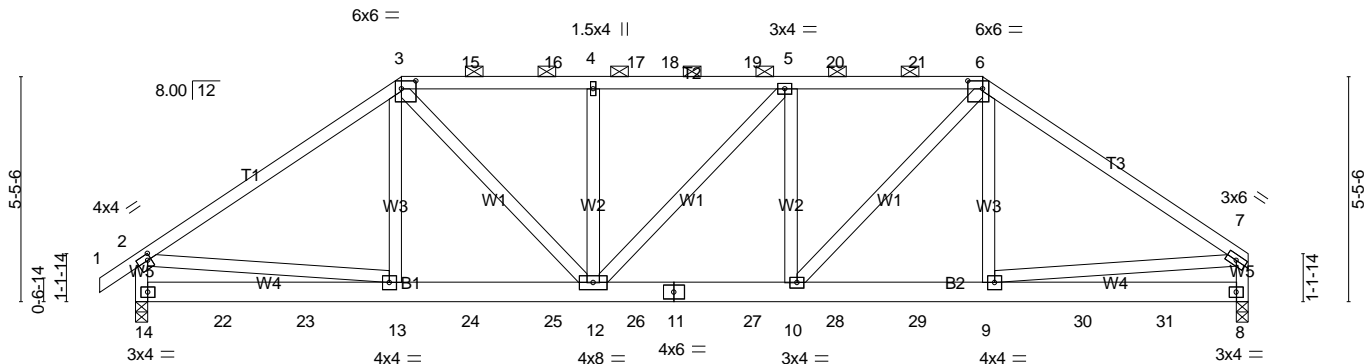
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	CH	Hip Girder	1	**2**	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:13 2020 Page 1
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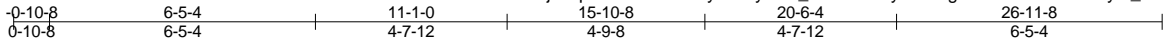
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Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [3:0-4-4,0-2-4], [6:0-4-4,0-2-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.08	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 370 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=1712/0-3-8 (min. 0-1-8), 8=1646/0-3-8 (min. 0-1-8)
Max Horz 14=146(LC 11)
Max Uplift14=-925(LC 12), 8=-897(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2064/1324, 3-15=-2110/1554, 15-16=-2110/1554, 4-16=-2110/1554, 4-17=-2110/1554,
17-18=-2110/1554, 18-19=-2110/1554, 5-19=-2110/1554, 5-20=-2103/1544, 20-21=-2103/1544,
6-21=-2103/1544, 6-7=-2057/1310, 2-14=-1522/957, 7-8=-1455/906
BOT CHORD 14-22=-327/528, 22-23=-327/528, 13-23=-327/528, 13-24=-1037/1670, 24-25=-1037/1670,
12-25=-1037/1670, 12-26=-1404/2143, 11-26=-1404/2143, 10-27=-1404/2143,
10-28=-1004/1612, 28-29=-1004/1612, 9-29=-1004/1612, 9-30=-206/348, 30-31=-206/348, 8-31=-206/348
WEBS 3-13=-101/277, 3-12=-660/818, 4-12=-429/456, 5-10=-440/466, 6-10=-658/813, 6-9=-88/271,
2-13=-915/1370, 7-9=-893/1389

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 8. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 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.

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	CH	Hip Girder	1	**2**	
					Job Reference (optional)

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 162 lb up at 8-0-12, 120 lb down and 162 lb up at 10-0-12, 120 lb down and 162 lb up at 12-0-12, 120 lb down and 162 lb up at 12-10-12, 120 lb down and 162 lb up at 14-10-12, and 120 lb down and 162 lb up at 16-10-12, and 120 lb down and 162 lb up at 18-10-12 on top chord, and 120 lb down and 89 lb up at 2-0-12, 120 lb down and 102 lb up at 4-0-12, 169 lb down and 143 lb up at 6-0-12, 45 lb down and 40 lb up at 8-0-12, 45 lb down and 40 lb up at 10-0-12, 45 lb down and 40 lb up at 12-0-12, 45 lb down and 40 lb up at 12-10-12, 45 lb down and 40 lb up at 14-10-12, 45 lb down and 40 lb up at 16-10-12, 45 lb down and 40 lb up at 18-10-12, 169 lb down and 143 lb up at 20-10-12, and 120 lb down and 102 lb up at 22-10-12, and 120 lb down and 89 lb up at 24-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

    Uniform Loads (plf)

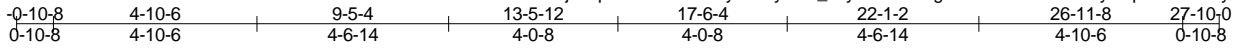   Vert: 1-2=-60, 2-3=-60, 3-6=-60, 6-7=-60, 8-14=-20

    Concentrated Loads (lb)

        Vert: 11=-23(B) 13=-120(B) 9=-120(B) 15=-40(B) 16=-40(B) 17=-40(B) 18=-40(B) 19=-40(B) 20=-40(B) 21=-40(B) 22=-120(B) 23=-120(B) 24=-23(B) 25=-23(B) 26=-23(B) 27=-23(B) 28=-23(B) 29=-23(B) 30=-120(B) 31=-120(B)
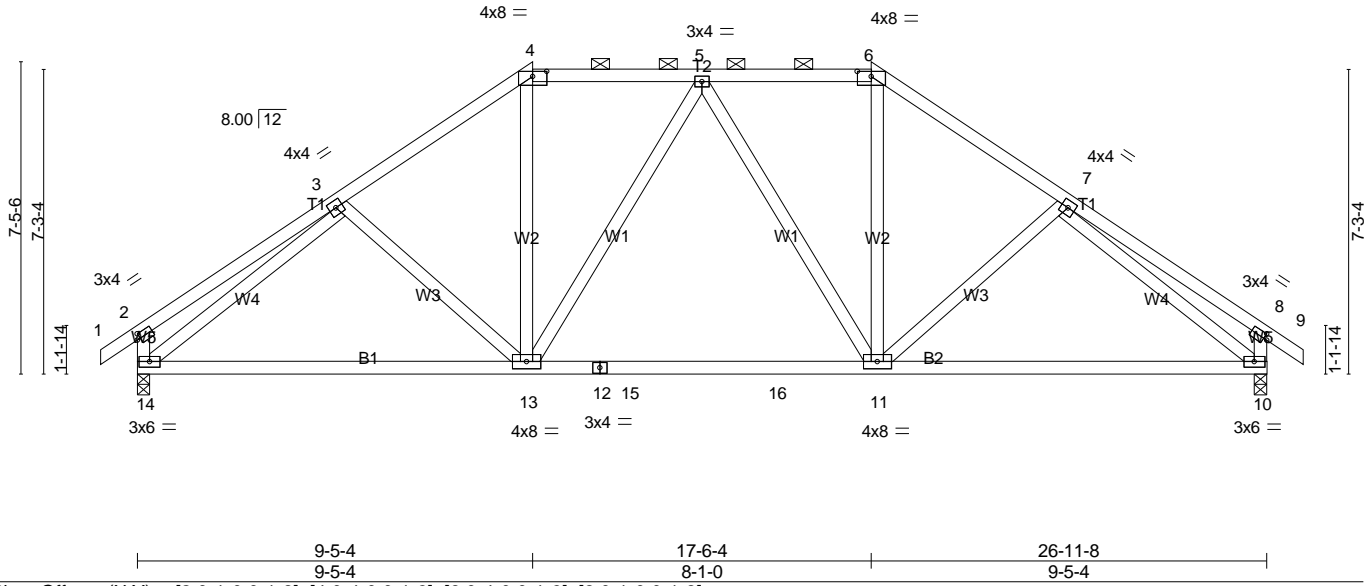
Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	CH1	Hip	1	1	
					Job Reference (optional)

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-0-10-8    4-10-6      9-5-4       13-5-12     17-6-4       22-1-2       26-11-8    27-10-0
0-10-8     4-10-6      4-6-14      4-0-8       4-0-8        4-6-14       4-10-6     0-10-8
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Scale = 1:55.0


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              9-5-4                17-6-4                26-11-8
              9-5-4                8-1-0                 9-5-4
```

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.20	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.35	13-14	>904	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-2 max.): 4-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 14=1128/0-3-8 (min. 0-1-12), 10=1128/0-3-8 (min. 0-1-12)
Max Horz 14=202(LC 11)
Max Uplift14=-108(LC 12), 10=-108(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-317/115, 3-4=-1206/289, 4-5=-937/278, 5-6=-937/278, 6-7=-1206/289, 7-8=-317/115, 2-14=-322/139, 8-10=-322/140
BOT CHORD   13-14=-149/1009, 12-13=-76/1021, 12-15=-76/1021, 15-16=-76/1021, 11-16=-76/1021, 10-11=-144/1009
WEBS   4-13=-49/400, 6-11=-50/400, 3-14=-1098/206, 7-10=-1098/205

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	CH2	Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:17 2020 Page 1
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```
-0-10-8      6-4-6       12-5-4    14-6-4    20-7-2       26-11-8   27-10-0
0-10-8       6-4-6       6-0-14    2-1-0     6-0-14       6-4-6     0-10-8
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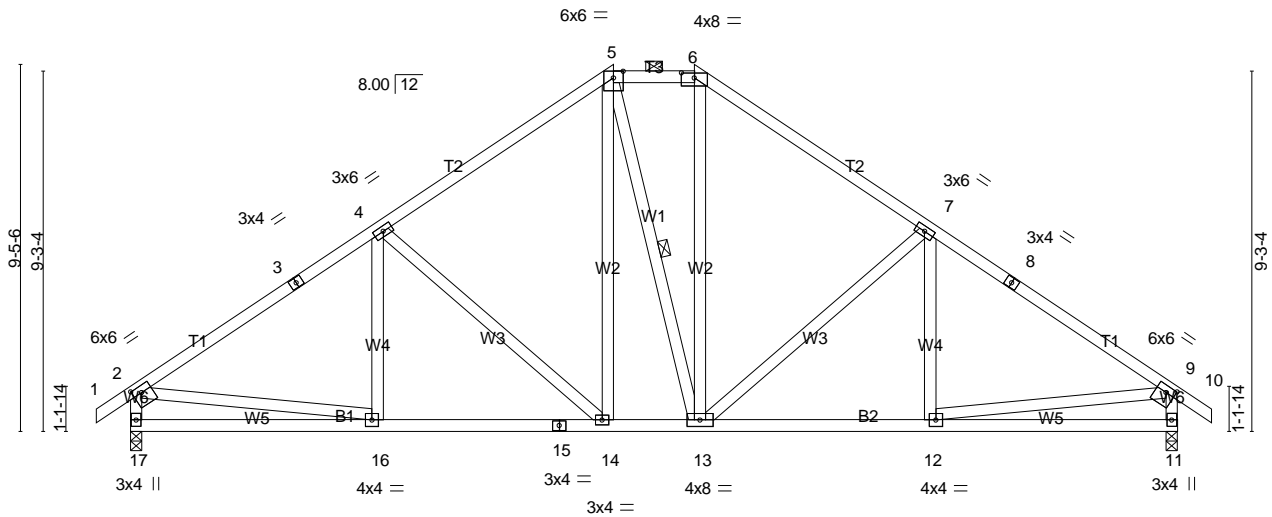

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          6-4-6              12-5-4    14-6-4    20-7-2          26-11-8
          6-4-6              6-0-14    2-1-0     6-0-14          6-4-6
```

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	16-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.10	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 187 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-8-0 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.
WEBS   1 Row at midpt   5-13

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

REACTIONS. (lb/size)   17=1128/0-3-8 (min. 0-1-12), 11=1128/0-3-8 (min. 0-1-12)
Max Horz 17=251(LC 11)
Max Uplift17=-127(LC 12), 11=-127(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1361/230, 3-4=-1175/252, 4-5=-1061/294, 5-6=-808/293, 6-7=-1062/294,
7-8=-1174/252, 8-9=-1361/230, 2-17=-1068/247, 9-11=-1068/247
BOT CHORD   16-17=-242/375, 15-16=-138/1072, 14-15=-138/1072, 13-14=0/790,
12-13=-97/1050
WEBS   4-14=-392/192, 5-14=-78/328, 6-13=-69/329, 7-13=-389/192, 2-16=-31/866,
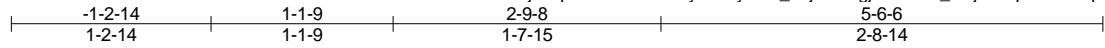9-12=-32/864

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 11. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
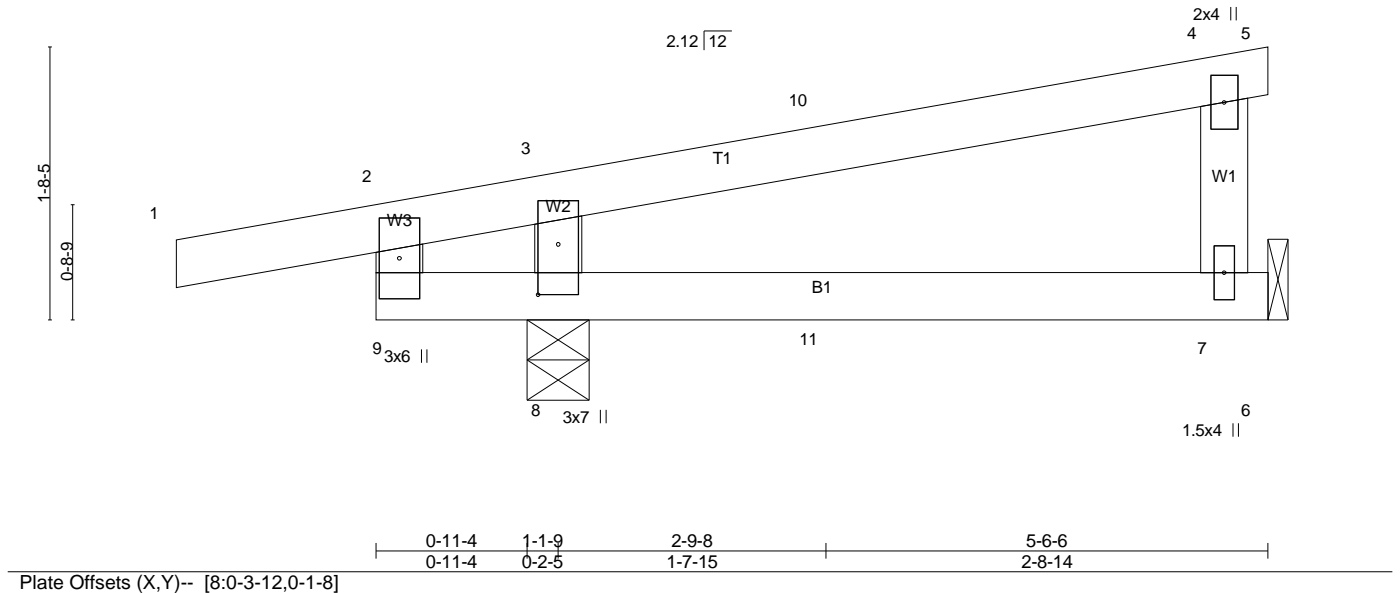
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	CJ1	Diagonal Hip Girder	3	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:19 2020 Page 1
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Plate Offsets (X,Y)-- [8:0-3-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	0.04	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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.

REACTIONS. (lb/size) 7=79/Mechanical, 8=290/0-4-10 (min. 0-1-8)
Max Horz 8=53(LC 11)
Max Uplift 7=-17(LC 12), 8=-128(LC 8)
Max Grav 7=89(LC 43), 8=290(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 94 lb up at 2-9-8, and 81 lb down and 94 lb up at 2-9-8 on top chord, and 3 lb down and 63 lb up at 2-9-8, and 3 lb down and 63 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 6-9=-20
Concentrated Loads (lb)
Vert: 10=64(F=32, B=32) 11=70(F=35, B=35)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	D	Piggyback Base	6	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:20 2020 Page 1
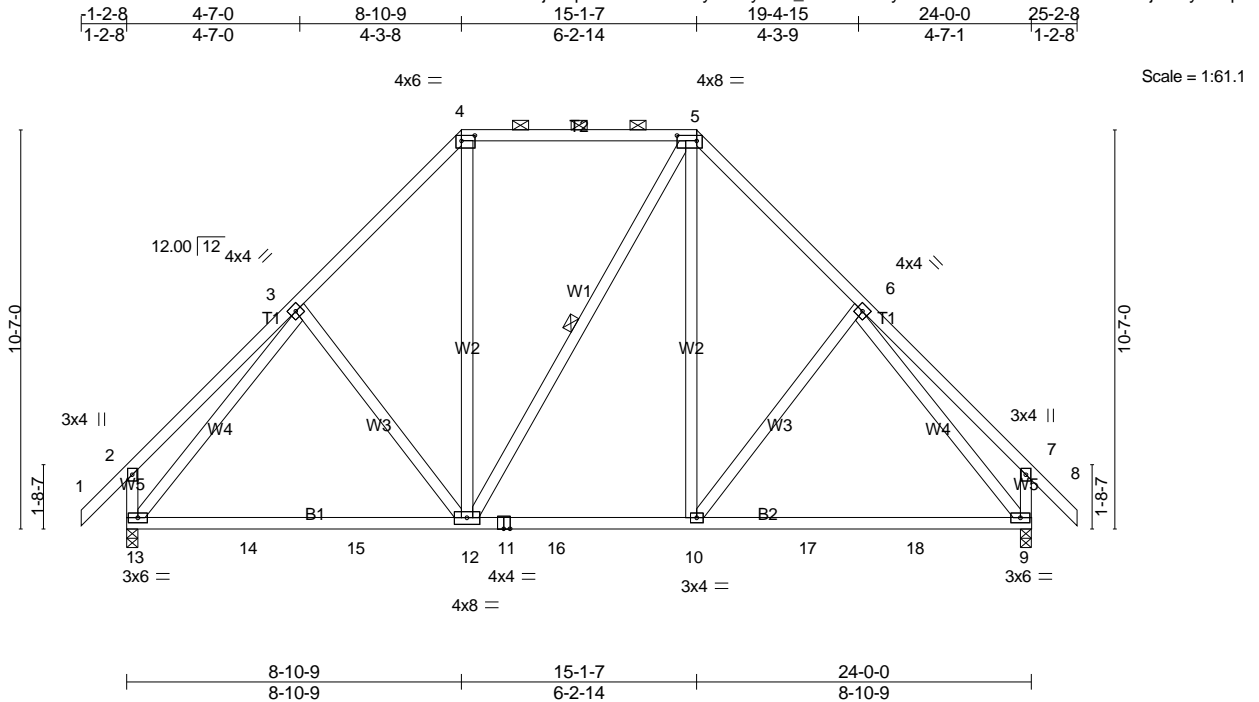ID:hjOMp88mnrQZrZEntywViFyWSr_-kwXsnnhLydIH0?ZwMaEIucL9ZHfo54C0x4jTERyW5qP

Scale = 1:61.1

Plate Offsets (X,Y)-- [4:0-4-4,0-1-12], [5:0-6-4,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.17	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.35	9-10	>806	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 180 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS. (lb/size) 13=1030/0-3-8 (min. 0-1-10), 9=1030/0-3-8 (min. 0-1-10)
Max Horz 13=-305(LC 10)
Max Uplift13=-88(LC 12), 9=-88(LC 13)
Max Grav 13=1033(LC 2), 9=1043(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-306/193, 3-4=-851/298, 4-5=-568/273, 5-6=-864/298, 6-7=-306/193,
            2-13=-363/209, 7-9=363/209
BOT CHORD   13-14=-173/705, 14-15=-173/705, 12-15=-173/705, 11-12=-36/587,
            11-16=-36/587, 10-16=-36/587, 10-17=-23/577, 17-18=-23/577, 9-18=-23/577
WEBS   4-12=-65/317, 5-10=-92/386, 3-13=-806/76, 6-9=-805/76

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13
   and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2
   and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom
   chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	D1	Piggyback Base	6	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:22 2020 Page 1
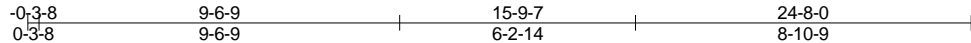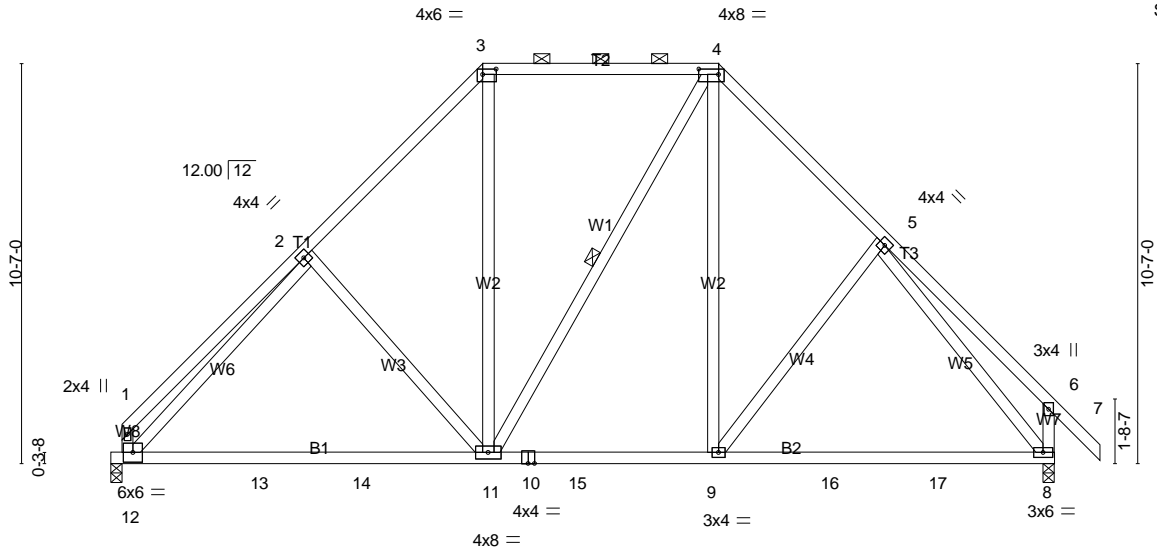ID:hjOMp88mnrQZrZEntywViFyWSr_-glfdCTjcUFY?FJjJT?Gmz1RV_5K_ZzBJOOCaIKyW5qN
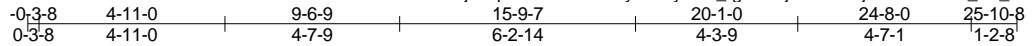
Plate Offsets (X,Y)-- [3:0-4-4,0-1-12], [4:0-6-4,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.22	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.45	11-12	>648	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 180 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS. (lb/size)   12=973/0-3-8 (min. 0-1-9), 8=1059/0-3-8 (min. 0-1-11)
Max Horz 12=-285(LC 8)
Max Uplift12=-67(LC 12), 8=-89(LC 13)
Max Grav 12=980(LC 2), 8=1070(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-465/133, 2-3=-917/302, 3-4=-604/279, 4-5=-896/305, 5-6=-308/193,
1-12=-401/126, 6-8=-364/208
BOT CHORD   12-13=-174/805, 13-14=-174/805, 11-14=-174/805, 10-11=-34/608,
10-15=-34/608, 9-15=-34/608, 9-16=-26/597, 16-17=-26/597, 8-17=-26/597
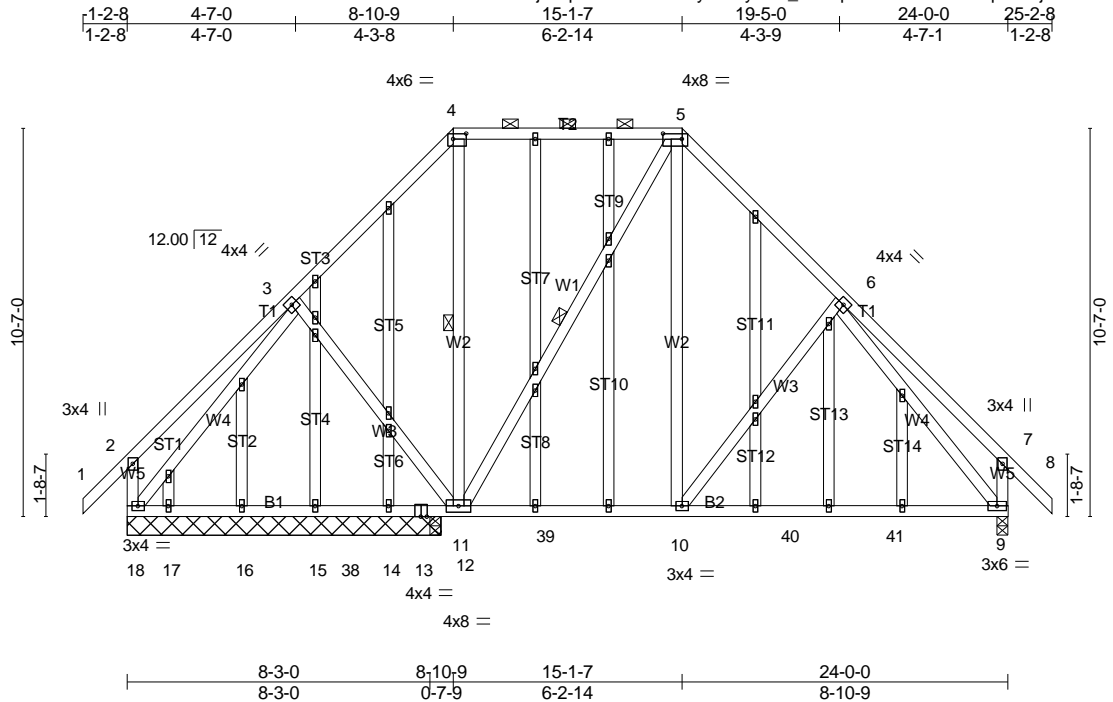WEBS   2-11=-270/253, 3-11=-64/353, 4-9=-95/378, 2-12=-734/143, 5-8=-839/81

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	DE	Piggyback Base Structural Gable COMMON	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:25 2020 Page 1
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| Plate Offsets (X,Y)-- [4:0-4-4,0-1-12], [5:0-6-4,0-1-12] | | |

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.16	9-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.31	9-10	>595	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 262 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 8-6-8 except (jt=length) 9=0-3-8, 12=0-3-8.
(lb) - Max Horz 18=-305(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 9 except 18=-109(LC 12), 14=-189(LC 2), 12=-101(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 17 except 18=660(LC 1), 9=864(LC 2), 12=607(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-461/258, 4-5=-348/245, 5-6=-653/271, 6-7=-293/194, 2-18=-298/232, 7-9=-350/209
BOT CHORD 17-18=-180/459, 16-17=-180/459, 15-16=-180/459, 15-38=-180/459, 14-38=-180/459, 13-14=-180/459, 12-13=-180/459, 11-12=-180/459, 11-39=-35/451, 10-39=-35/451, 10-40=-5/448, 40-41=-5/448, 9-41=-5/448
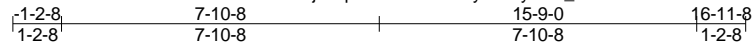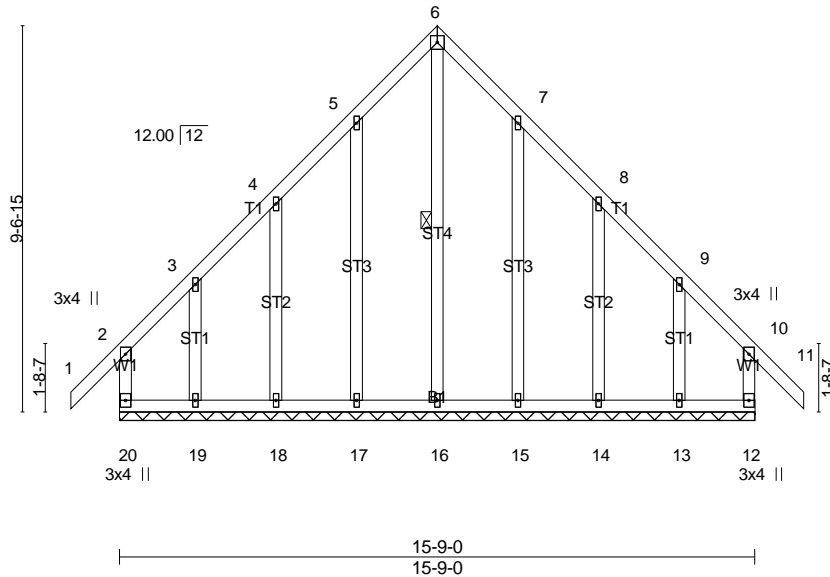WEBS 5-11=-332/67, 5-10=-81/451, 3-18=-528/56, 6-9=-607/43

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 9, and 14. This connection is for uplift only and does not consider lateral forces.
10) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 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

4x4 ☐

Scale = 1:57.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	11	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	11	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 124 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

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

REACTIONS. All bearings 15-9-0.
(lb) - Max Horz 20=279(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 15, 14 except 20=-198(LC 8), 12=-184(LC 9), 17=-100(LC 12), 19=-193(LC 12), 13=-190(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 15, 14 except 20=271(LC 20), 12=260(LC 19), 16=386(LC 13), 19=280(LC 10), 13=271(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-203/282, 5-6=-283/373, 6-7=-283/373, 7-8=-203/281
WEBS 6-16=-454/274

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20, 12, 17, 18, 19, 15, 14, and 13. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

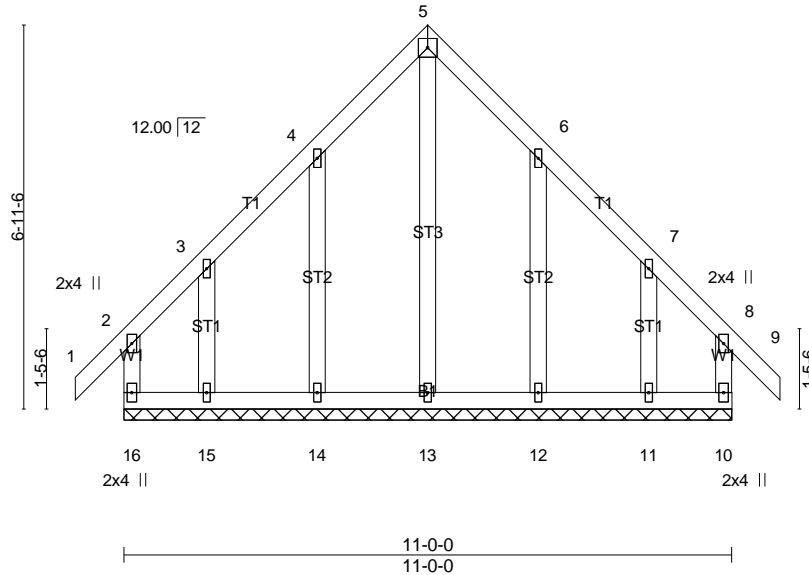| Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	GE	Common Supported Gable	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:29 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-zeaGgso?rOR0bNlfNzuPlVDpEwufiH8L?_OS2QyW5qG

	0-10-8	5-6-0	11-0-0	11-10-8
	0-10-8	5-6-0	5-6-0	0-10-8

4x4 =

Scale = 1:41.7

12.00 ⌐12

11-0-0

11-0-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	9	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	9	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3
OTHERS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 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.   All bearings 11-0-0.
(lb) -   Max Horz 16=-203(LC 10)
         Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=-140(LC 8), 10=-128(LC 9), 15=-162(LC 12), 11=-160(LC 13)
         Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   4-5=-195/261, 5-6=-195/260
WEBS   5-13=-301/154

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 10, 14, 15, 12, and 11. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	GR1	Common Girder	1	**3**	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:31 2020 Page 1
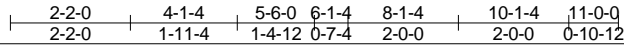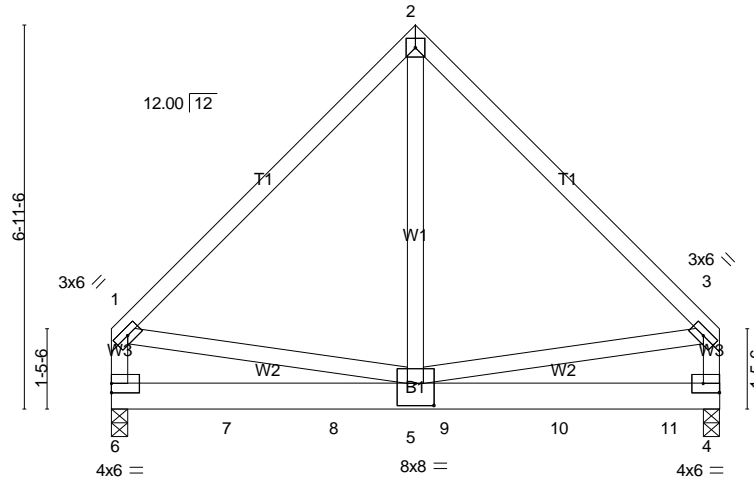ID:hjOMp88mnrQZrZEntywViFyWSr_-v1i05YqFN0hkqhv1VOxtrwI_BjU_A55eTItY7IyW5qE
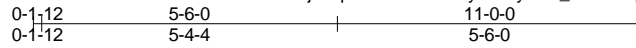
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Plate Offsets (X,Y)-- [4:Edge,0-2-0], [5:0-4-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	0.05	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP DSS
WEBS   2x4 SP No.3

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

REACTIONS. (lb/size) 6=4433/0-3-8 (min. 0-2-5), 4=4687/0-3-8 (min. 0-2-7)
Max Horz 6=-174(LC 31)
Max Uplift6=-928(LC 13), 4=-638(LC 12)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-3409/648, 2-3=-3408/647, 1-6=-2911/519, 3-4=-2889/565
BOT CHORD   6-7=-361/652, 7-8=-361/652, 5-8=-361/652, 5-9=-117/495, 9-10=-117/495, 10-11=-117/495, 4-11=-117/495
WEBS   2-5=-736/4354, 1-5=-294/1767, 3-5=-436/1896

NOTES-
1) 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2343 lb down and 770 lb up at 2-2-0, 1467 lb down and 228 lb up at 4-1-4, 1467 lb down and 228 lb up at 6-1-4, and 1467 lb down and 158 lb up at 8-1-4, and 1470 lb down and 155 lb up at 10-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	GR1	Common Girder	1	**3**	Job Reference (optional)

LOAD CASE(S) Standard
  Concentrated Loads (lb)
      Vert: 1=-48 7=-2343(B) 8=-1467(B) 9=-1467(B) 10=-1467(B) 11=-1470(B)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	H	Common	2	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:33 2020 Page 1
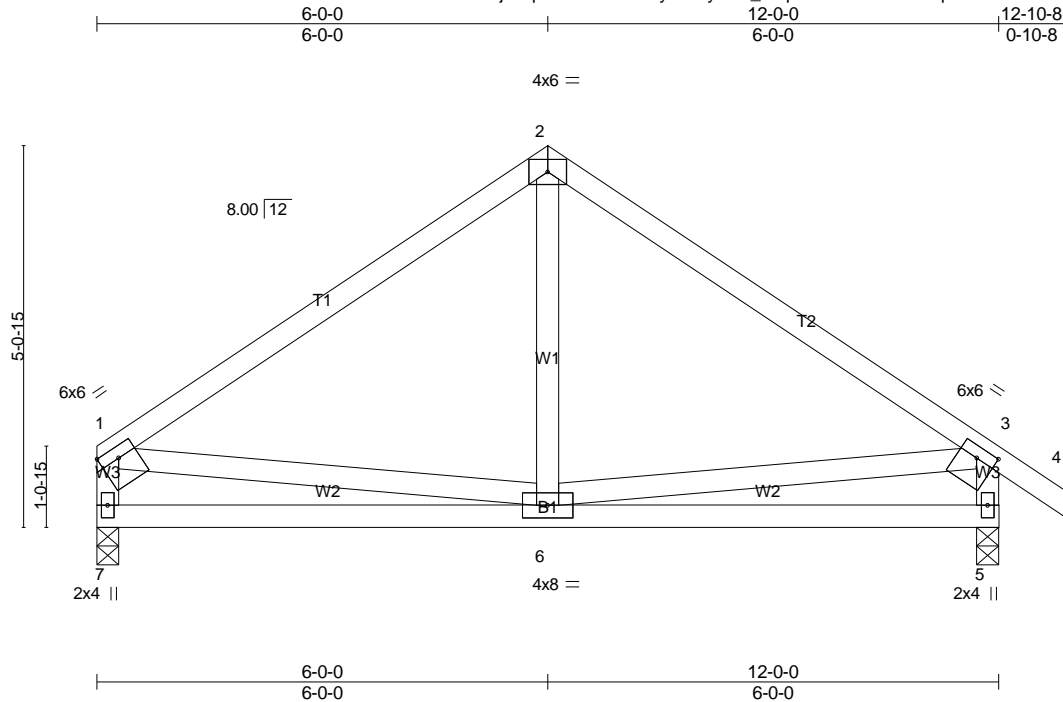ID:hjOMp88mnrQZrZEntywViFyWSr_-rQpnVDrVudxR4?3QcpzLwLOO0XCMe7exwcMfBByW5qC

Scale = 1:30.7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.02	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 67 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS. (lb/size) 7=466/0-3-8 (min. 0-1-8), 5=532/0-3-8 (min. 0-1-8)
Max Horz 7=-139(LC 10)
Max Uplift7=-47(LC 12), 5=-68(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-483/107, 2-3=-490/111, 1-7=-413/116, 3-5=-480/163
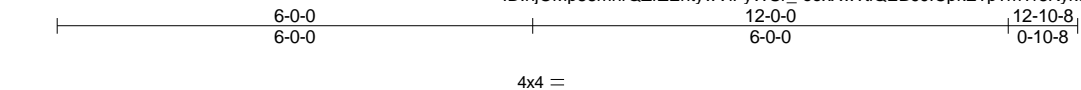BOT CHORD   6-7=-135/263, 5-6=-117/260

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

6-0-0 | 12-0-0 | 12-10-8
6-0-0 | 6-0-0 | 0-10-8

4x4 =

Scale = 1:29.1

8.00 [12

12-0-0
12-0-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	8	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	8	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 15=-139(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 15, 9, 12, 13, 14, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
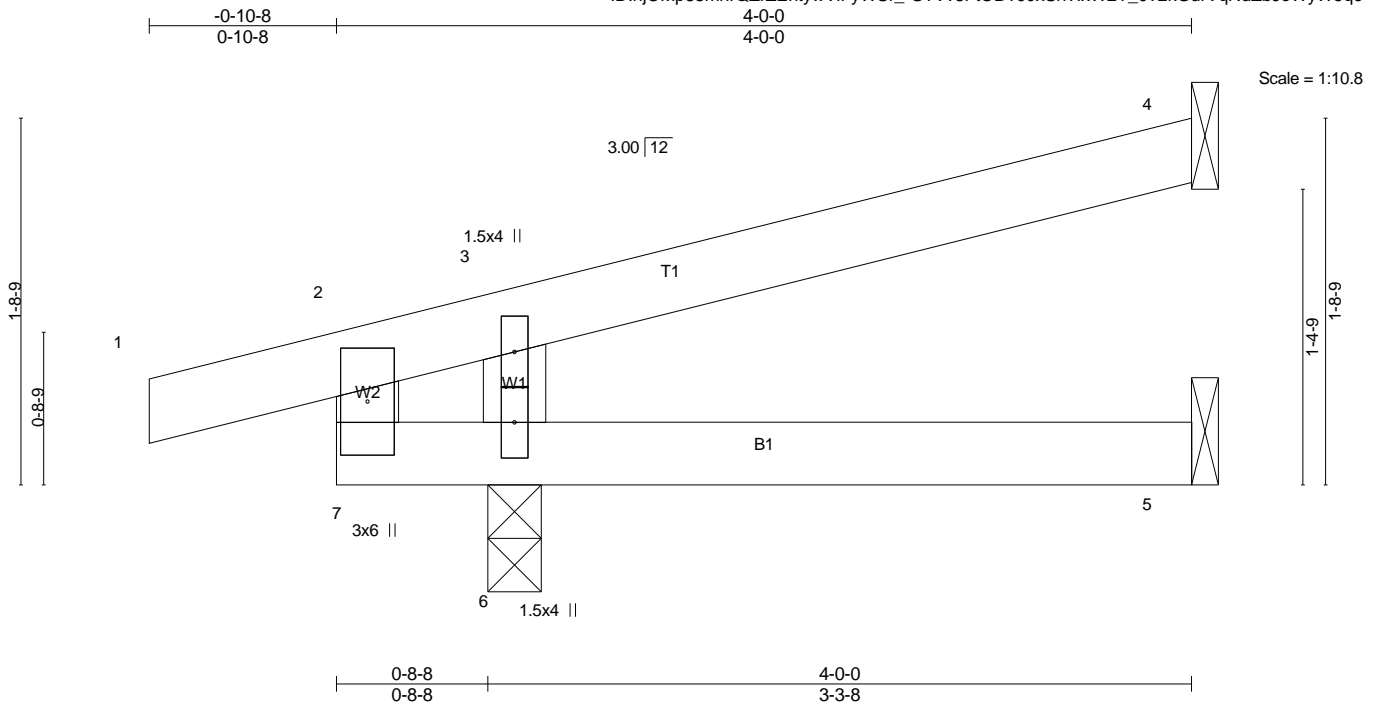
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15, 9, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	J1	Jack-Open	7	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:36 2020 Page 1
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-0-10-8 | 4-0-0
0-10-8 | 4-0-0

Scale = 1:10.8

3.00 ⌐12

1.5x4 ||
3

2

T1

1

0-8-9

1-8-9

W2

W1

B1

1-4-9

1-8-9

4

5

7
3x6 ||

6
1.5x4 ||

0-8-8 | 4-0-0
0-8-8 | 3-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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) 4=72/Mechanical, 5=22/Mechanical, 6=270/0-3-0 (min. 0-1-8)
    Max Horz 6=43(LC 8)
    Max Uplift4=-38(LC 12), 6=-92(LC 8)
    Max Grav 4=72(LC 1), 5=53(LC 3), 6=270(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6.
   This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	J2	Jack-Open	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:38 2020 Page 1
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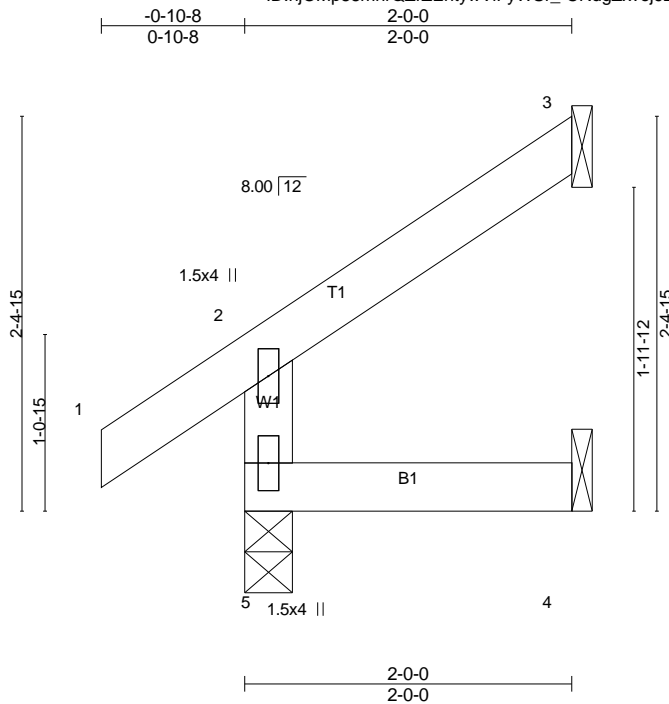
-0-10-8 | 2-0-0
0-10-8 | 2-0-0

Scale = 1:14.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS.   (lb/size)   5=152/0-3-8 (min. 0-1-8), 3=41/Mechanical, 4=16/Mechanical
             Max Horz 5=59(LC 12)
             Max Uplift 3=-44(LC 12), 4=-5(LC 12)
             Max Grav 5=152(LC 1), 3=50(LC 19), 4=34(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
6) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	J3	Jack-Open	6	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:39 2020 Page 1
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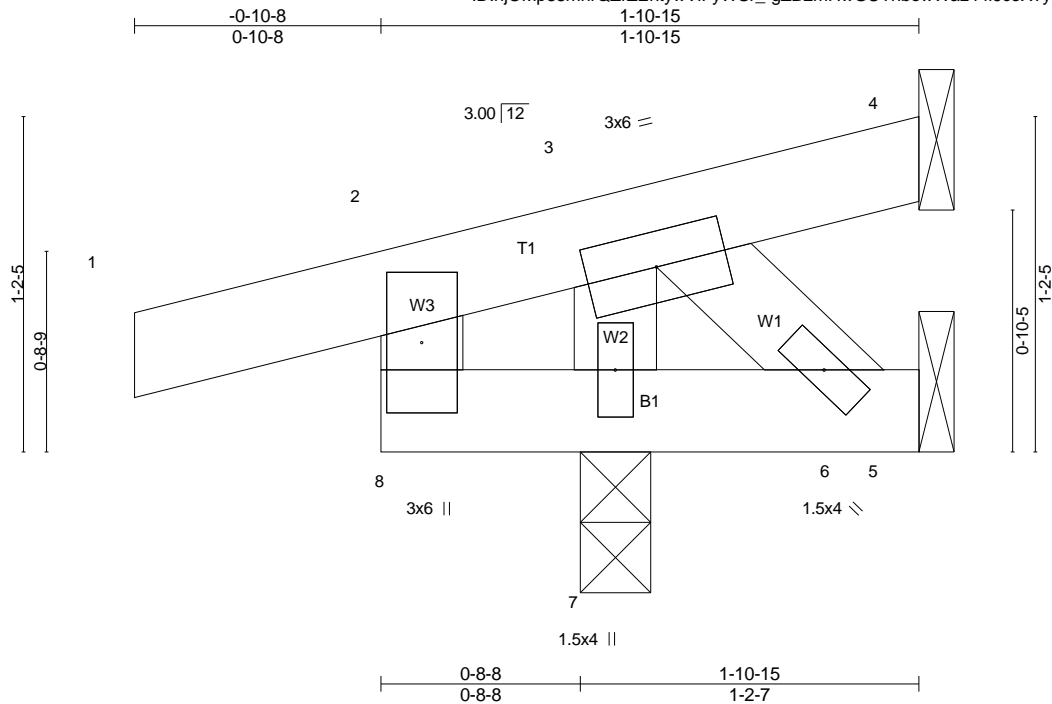
Scale = 1:8.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

REACTIONS. (lb/size) 4=-9/Mechanical, 5=-35/Mechanical, 7=245/0-3-0 (min. 0-1-8)
Max Horz 7=30(LC 8)
Max Uplift4=-9(LC 1), 5=-35(LC 1), 7=-109(LC 8)
Max Grav 4=12(LC 8), 5=18(LC 8), 7=245(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	J5	Jack-Open	17	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:41 2020 Page 1
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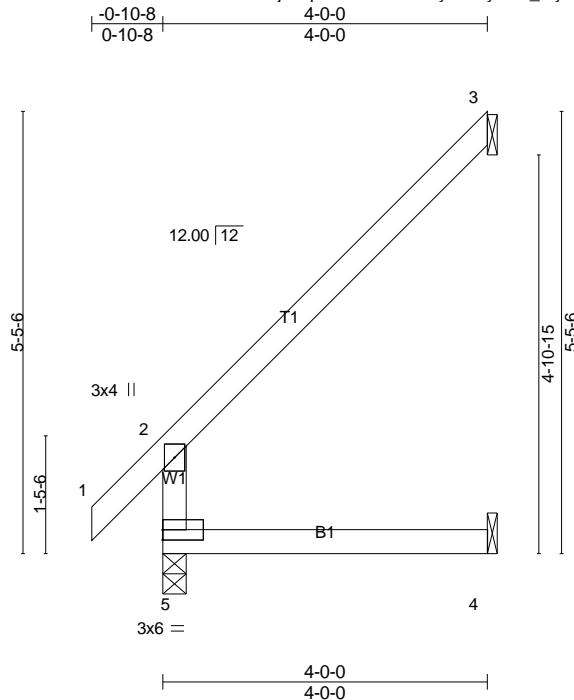
Scale = 1:28.4

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.03	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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=221/0-3-8 (min. 0-1-8), 3=100/Mechanical, 4=43/Mechanical
Max Horz 5=164(LC 12)
Max Uplift3=-130(LC 12), 4=-20(LC 12)
Max Grav5=221(LC 1), 3=127(LC 19), 4=73(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=130.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
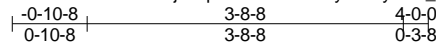
LOAD CASE(S) Standard

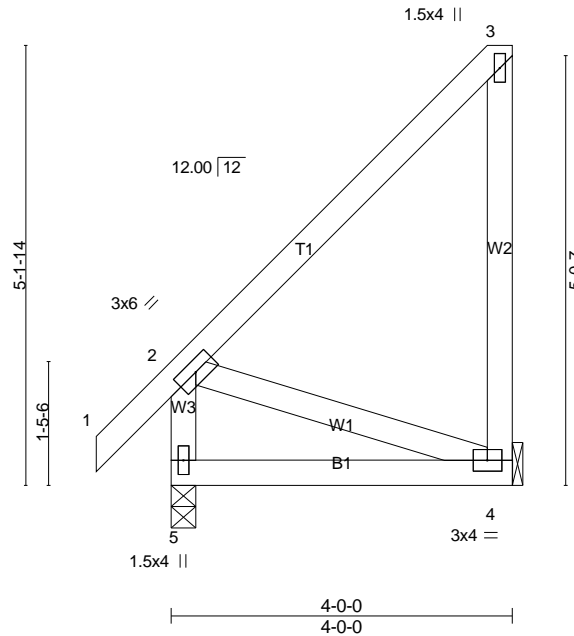| Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J5A	Half Hip	6	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:42 2020 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.

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

REACTIONS. (lb/size) 5=218/0-3-8 (min. 0-1-8), 4=140/Mechanical
Max Horz 5=202(LC 9)
Max Uplift5=-25(LC 8), 4=-123(LC 9)
Max Grav 5=254(LC 20), 4=202(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
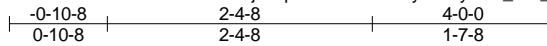BOT CHORD   4-5=-346/316
WEBS   2-4=-259/299

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Scale = 1:20.6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.02	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS.   (lb/size)   5=140/Mechanical, 7=218/0-3-8 (min. 0-1-8)
Max Horz 7=148(LC 9)
Max Uplift5=-82(LC 9), 7=-18(LC 12)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD   6-7=-269/260

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 7. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J5C	Half Hip Girder	6	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:46 2020 Page 1
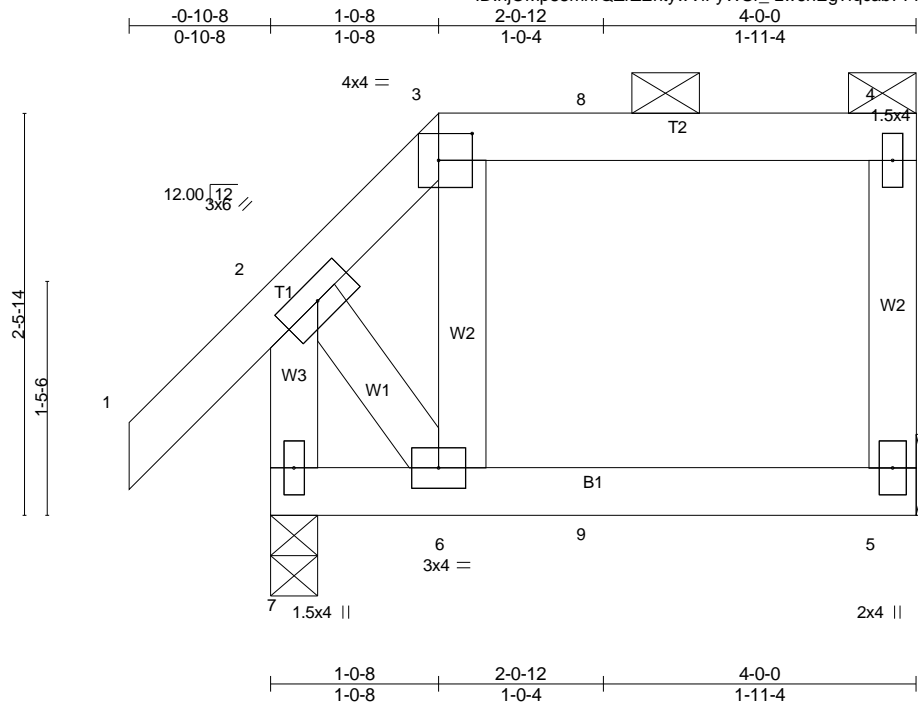ID:hjOMp88mnrQZrZEntywViFyWSr_-zw6hEg?fqcab7?Ywt2iOy5QjwmguB0Mrw70r9xyW5q?

Scale = 1:14.3

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 5=140/Mechanical, 7=218/0-3-8 (min. 0-1-8)
Max Horz 7=98(LC 9)
Max Uplift5=-69(LC 9), 7=-50(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 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) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 7. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 61 lb up at 1-0-8, and 88 lb down and 68 lb up at 2-0-12 on top chord, and 15 lb down and 17 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
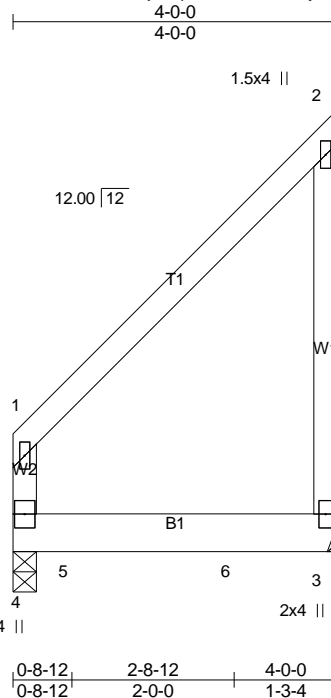
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 9=1(F)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J5GR	Jack-Open Girder	1	**2**	Job Reference (optional)

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Scale = 1:28.4

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.02	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.04	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 53 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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.

REACTIONS. (lb/size) 4=1350/0-3-8 (min. 0-1-8), 3=1042/Mechanical
Max Horz 4=128(LC 12)
Max Uplift4=-100(LC 8), 3=-245(LC 12)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 100 lb uplift at joint(s) except (jt=lb) 3=245.
9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 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) 1064 lb down and 126 lb up at 0-8-12, and 1060 lb down and 130 lb up at 2-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60, 3-4=-20
   Concentrated Loads (lb)
      Vert: 5=-1050(F) 6=-1045(F)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J5GR1	Jack-Open Girder	1	**2**	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:49 2020 Page 1
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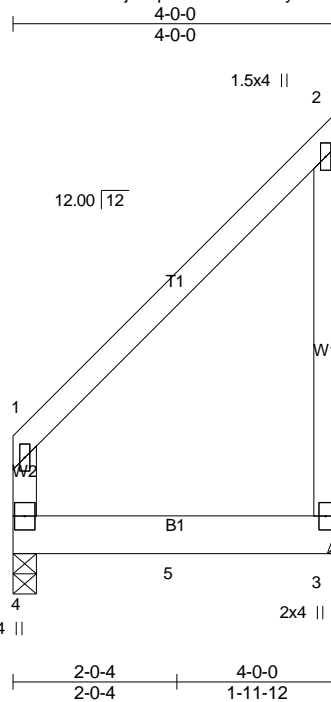
4-0-0
4-0-0

1.5x4 ||

Scale = 1:28.4

12.00 12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.02	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.04	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 53 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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.

REACTIONS. (lb/size) 4=682/0-3-8 (min. 0-1-8), 3=695/Mechanical
Max Horz 4=128(LC 12)
Max Uplift4=-24(LC 8), 3=-205(LC 12)
Max Grav 4=682(LC 1), 3=695(LC 41)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 100 lb uplift at joint(s) except (jt=lb) 3=205.
9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 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) 1105 lb down and 134 lb up at 2-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60, 3-4=-20
   Concentrated Loads (lb)
      Vert: 5=-1081(B)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J6	Jack-Open	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:50 2020 Page 1
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2-0-0
2-0-0
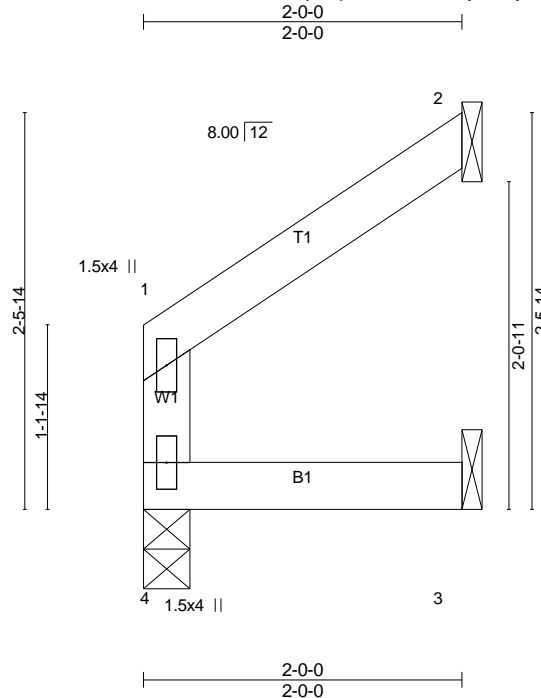
Scale = 1:14.5

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 8 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 4=74/0-3-8 (min. 0-1-8), 2=52/Mechanical, 3=21/Mechanical
Max Horz 4=46(LC 9)
Max Uplift2=-47(LC 12), 3=-4(LC 12)
Max Grav 4=74(LC 1), 2=61(LC 19), 3=36(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
6) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	J7	Jack-Open	4	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:52 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-o4TyVj4QQSKlsw04EIppBMgk0BkLbkgkl3T9LayW5pv

-0-10-8 | 2-0-0
0-10-8 | 2-0-0

Scale = 1:14.5

8.00 ⌐12

1.5x4 ‖

T1

2-5-14

1-1-14

W1

B1

1.5x4 ‖

2-0-0
2-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 5=152/0-3-8 (min. 0-1-8), 3=41/Mechanical, 4=16/Mechanical
Max Horz 5=58(LC 12)
Max Uplift 3=-45(LC 12), 4=-6(LC 12)
Max Grav 5=152(LC 1), 3=51(LC 19), 4=34(LC 3)

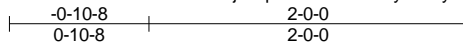**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
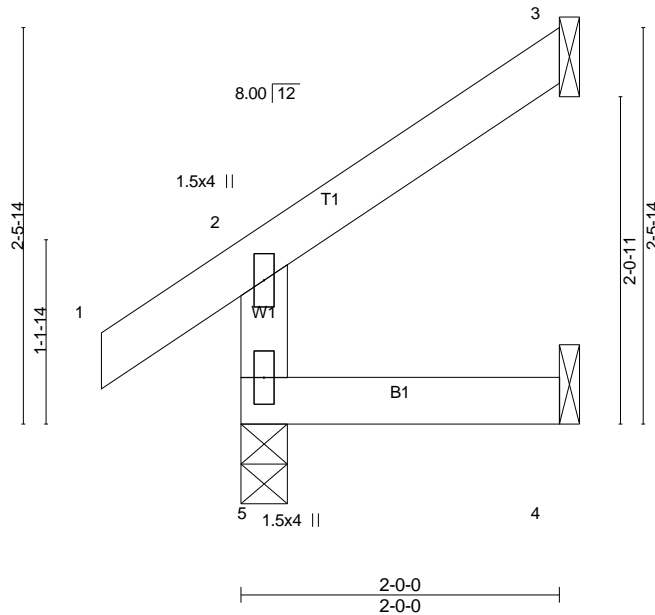
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J8	Jack-Open Structural Gable	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:53 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-GG1Li352BmScT3aGn0K2kZDwyb4NKBbtXjCjt1yW5pu

Scale = 1:14.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-3-14 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=-25/Mechanical, 6=241/0-6-5 (min. 0-1-8), 4=15/Mechanical
Max Horz 6=86(LC 9)
Max Uplift 5=-33(LC 20), 6=-43(LC 12), 4=-33(LC 9)
Max Grav 5=23(LC 8), 6=241(LC 1), 4=29(LC 19)

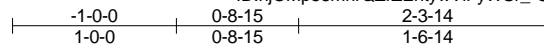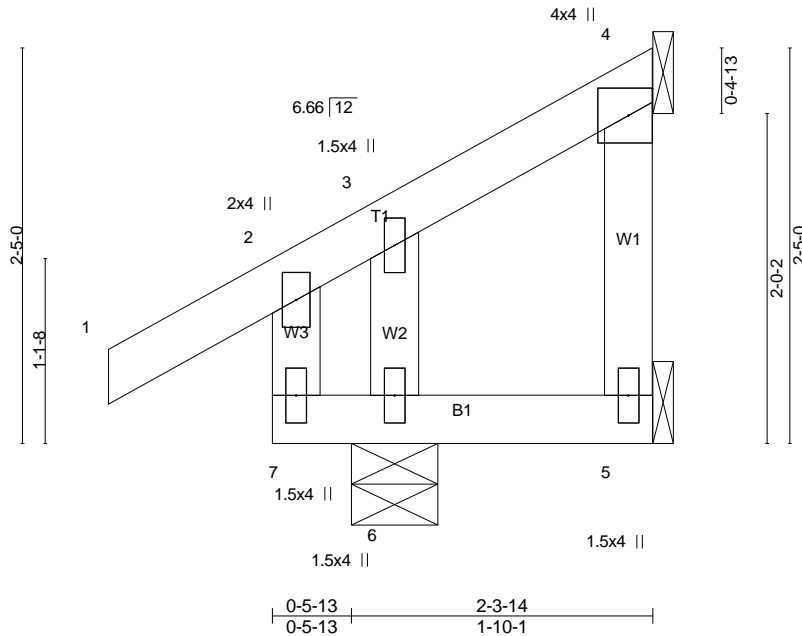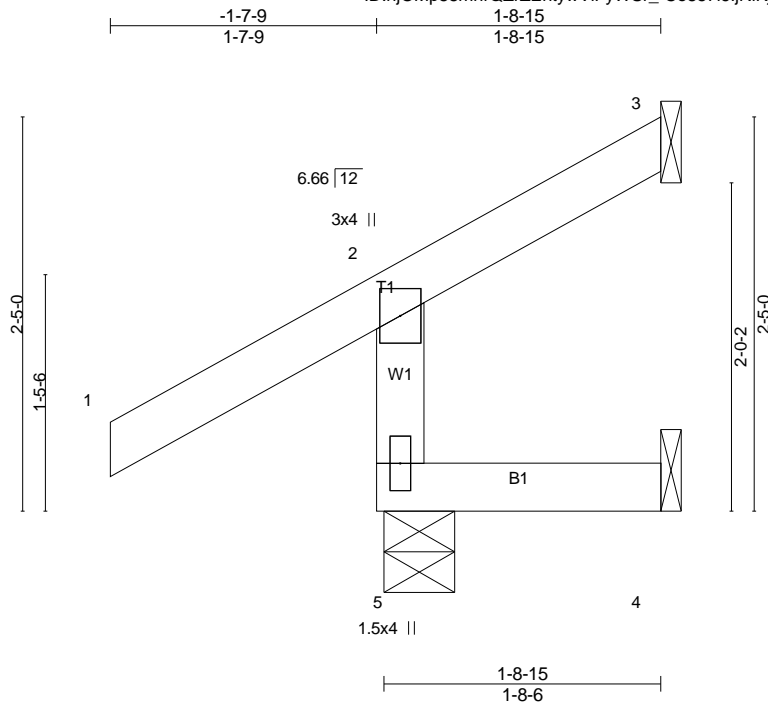**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J9	Jack-Open	4	1	
					Job Reference (optional)

-1-7-9
1-7-9
1-8-15
1-8-15

Scale = 1:14.1

6.66 [12

3x4 ||

2-5-0

1-5-6

2-0-2

2-5-0

T1

W1

B1

5

4

1.5x4 ||

1-8-15
1-8-6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 10 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 1-8-15 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=230/0-5-3 (min. 0-1-8), 3=1/Mechanical, 4=3/Mechanical
Max Horz 5=61(LC 9)
Max Uplift5=-26(LC 12), 3=-27(LC 12), 4=-10(LC 9)
Max Grav 5=230(LC 1), 3=16(LC 10), 4=26(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	J10	Jack-Open	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:56:56 2020 Page 1
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2-0-0
2-0-0

Scale = 1:14.5

8.00 12

2-5-14

1.5x4 ||

T1

1

W1

2-0-11

2-5-14

1-1-14

B1

4

1.5x4 ||

3

2-0-0
2-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 8 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 4=74/0-3-8 (min. 0-1-8), 2=52/Mechanical, 3=21/Mechanical
Max Horz 4=46(LC 9)
Max Uplift2=-47(LC 12), 3=-4(LC 12)
Max Grav 4=74(LC 1), 2=61(LC 19), 3=36(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
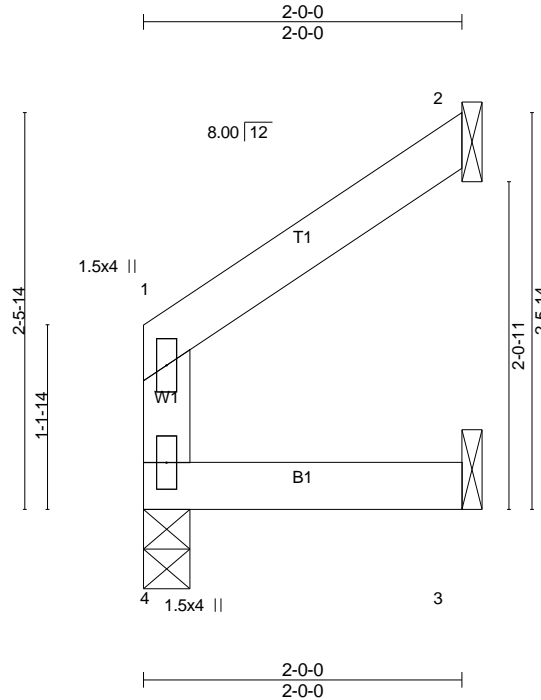
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	J11	Jack-Open	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

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-1-7-9
1-7-9
1-10-11
1-10-11

Scale = 1:14.5

6.66 [12]

3x4 ||

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 1-10-11 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=230/0-5-3 (min. 0-1-8), 3=10/Mechanical, 4=5/Mechanical
Max Horz 5=63(LC 9)
Max Uplift 5=-25(LC 12), 3=-31(LC 12), 4=-8(LC 9)
Max Grav 5=230(LC 1), 3=20(LC 19), 4=29(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
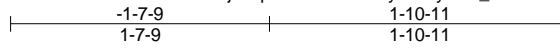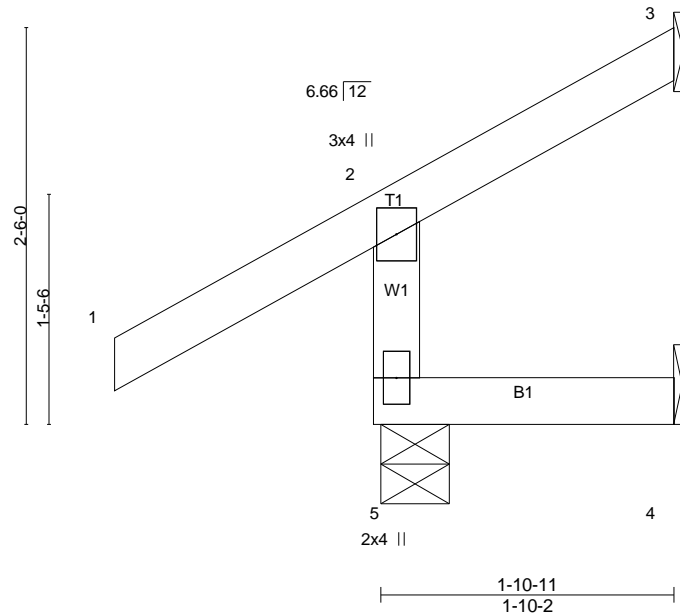
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	K	Common	1	1	
					Job Reference (optional)

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.05	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 81 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-11-15 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)   7=638/0-3-8 (min. 0-1-8), 5=573/0-3-8 (min. 0-1-8)
Max Horz 7=161(LC 9)
Max Uplift7=-79(LC 12), 5=-58(LC 13)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-620/129, 3-4=-612/124, 2-7=-575/180, 4-5=-509/135
BOT CHORD   6-7=-260/464, 5-6=-118/257
WEBS   3-6=0/290, 2-6=-109/268, 4-6=-58/251

NOTES-
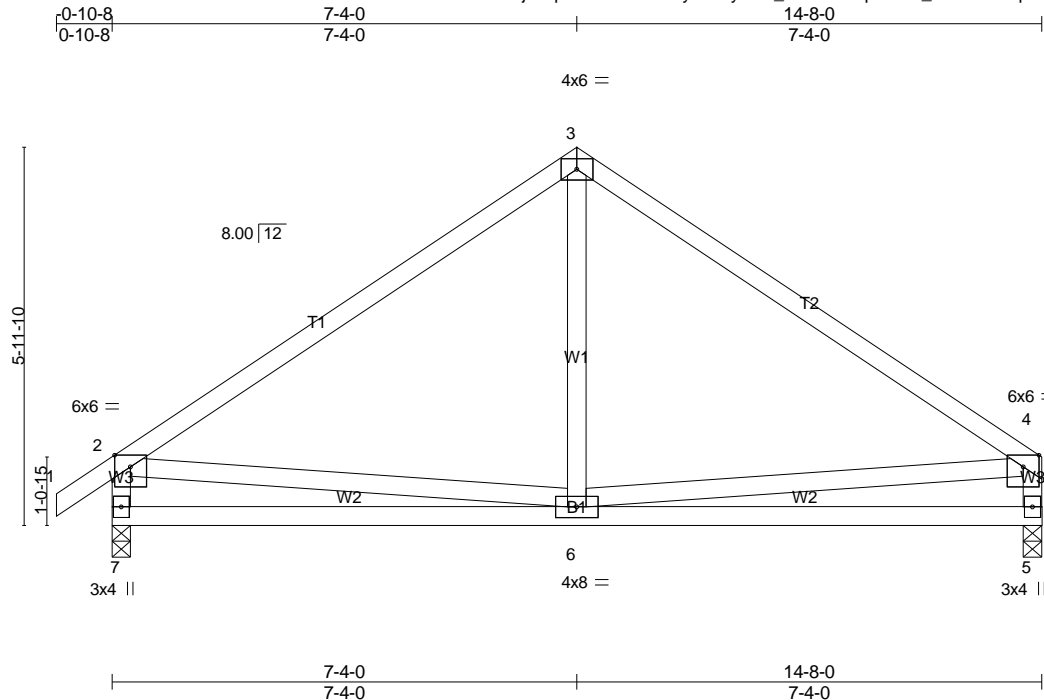1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	KGR	Common Girder	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:01 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-1oWMOoB3IDTTRICoFhTw2FYGnpmEClI2My88AZyW5pm

Dimensions (top): 0-10-8 | 3-9-12 | 7-4-0 | 10-10-4 | 14-8-0
0-10-8 | 3-9-12 | 3-6-4 | 3-6-4 | 3-9-12

Scale = 1:38.3

Dimensions (bottom): 2-1-7 | 4-11-13 | 9-8-3 | 12-6-9 | 14-8-0
2-1-7 | 2-10-6 | 4-8-5 | 2-10-6 | 2-1-7
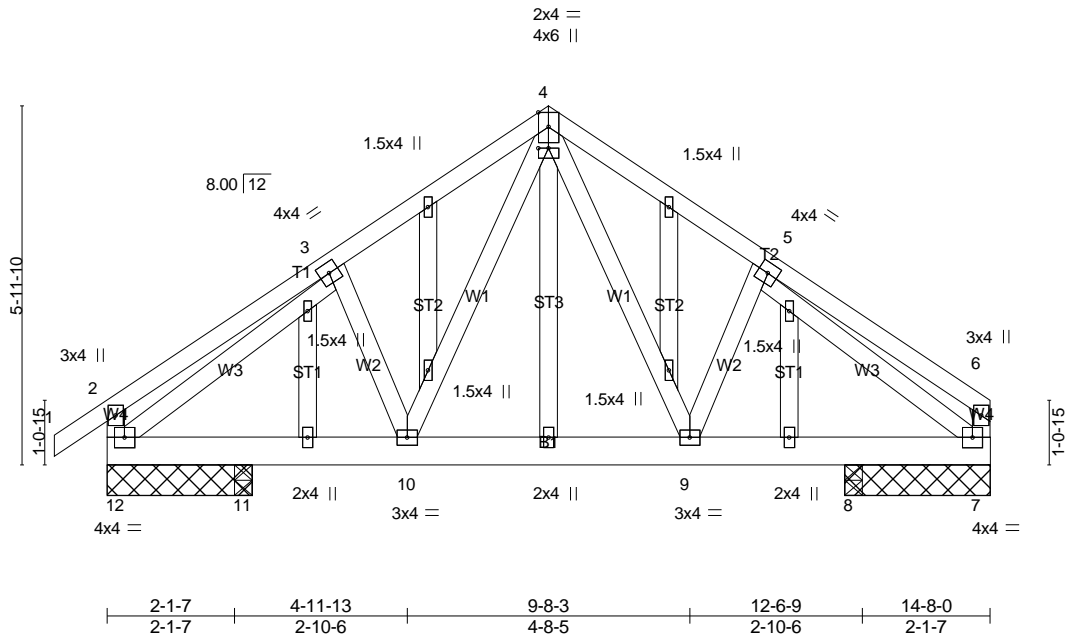
Plate Offsets (X,Y)-- [4:0-2-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.04	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 126 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 2-4-15 except (jt=length) 11=0-3-8, 8=0-3-8.
(lb) - Max Horz 12=158(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 11, 8 except 12=-114(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 8 except 12=676(LC 1), 7=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-713/233, 4-5=-718/234
BOT CHORD 11-12=-117/628, 10-11=-117/628, 9-10=-28/457, 8-9=-112/583, 7-8=-112/583
WEBS 4-9=-104/331, 4-10=-102/321, 3-12=-665/91, 5-7=-677/110

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable studs spaced at 2-0-0 oc.
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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 7, 11, and 8. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
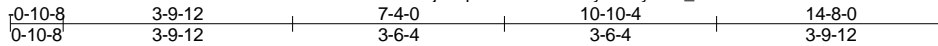9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
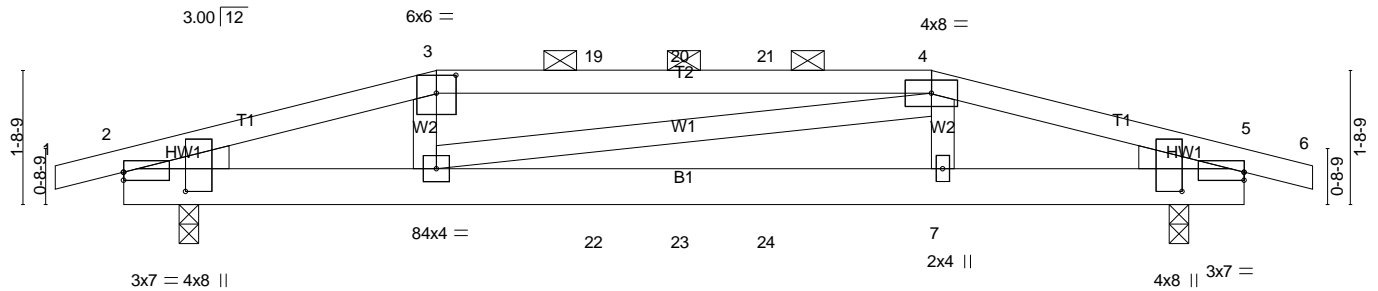Vert: 1-2=-60, 2-4=-60, 4-6=-60, 7-12=-54(F=-34)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	LH	Hip Girder	1	1	
					Job Reference (optional)

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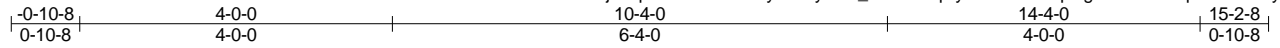
Scale = 1:29.5

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL)	-0.05	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT)	-0.12	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						Weight: 74 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=719/0-3-0 (min. 0-1-8), 5=719/0-3-0 (min. 0-1-8)
Max Horz 2=-21(LC 32)
Max Uplift2=-184(LC 8), 5=-184(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1169/292, 3-19=-1118/309, 19-20=-1118/309, 20-21=-1118/309, 4-21=-1118/309, 4-5=-1185/298
BOT CHORD 2-8=-238/1116, 8-22=-260/1133, 22-23=-260/1133, 23-24=-260/1133, 7-24=-260/1133, 5-7=-250/1131

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 67 lb up at 4-0-0, 28 lb down and 65 lb up at 6-0-12, 28 lb down and 65 lb up at 7-2-0, and 28 lb down and 65 lb up at 8-3-4, and 31 lb down and 67 lb up at 10-4-0 on top chord, and 64 lb down and 28 lb up at 4-0-0, 18 lb down at 6-0-12, 18 lb down at 7-2-0, and 18 lb down at 8-3-4, and 64 lb down and 28 lb up at 10-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 9-14=-20

LOAD CASE(S) Standard
  Concentrated Loads (lb)
    Vert: 3=-12(F) 8=-58(F) 4=-12(F) 7=-58(F) 19=-12(F) 20=-12(F) 21=-12(F) 22=-3(F) 23=-3(F) 24=-3(F)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	LH1	Hip	1	1	
					Job Reference (optional)

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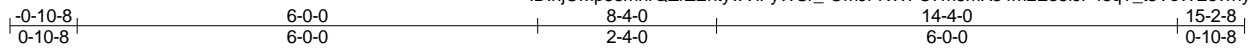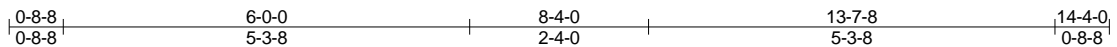
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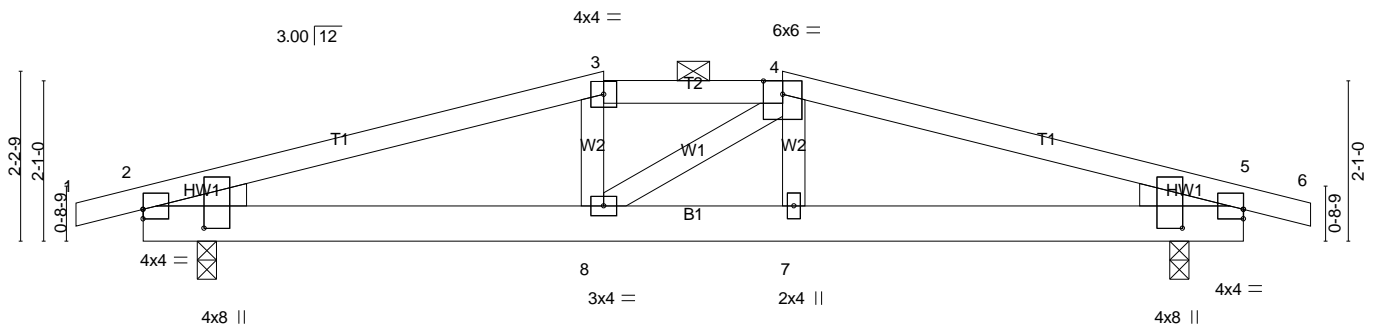
Plate Offsets (X,Y)-- [2:0-0-0,0-1-8], [2:0-2-15,0-9-8], [5:0-0-0,0-1-8], [5:0-2-15,0-9-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.03	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

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

REACTIONS. (lb/size)   2=626/0-3-0 (min. 0-1-8), 5=626/0-3-0 (min. 0-1-8)
Max Horz 2=28(LC 12)
Max Uplift2=-126(LC 8), 5=-126(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-897/233, 3-4=-833/246, 4-5=-899/234
BOT CHORD   2-8=-162/835, 7-8=-173/836, 5-7=-170/837

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M1	Monopitch	6	1	
					Job Reference (optional)

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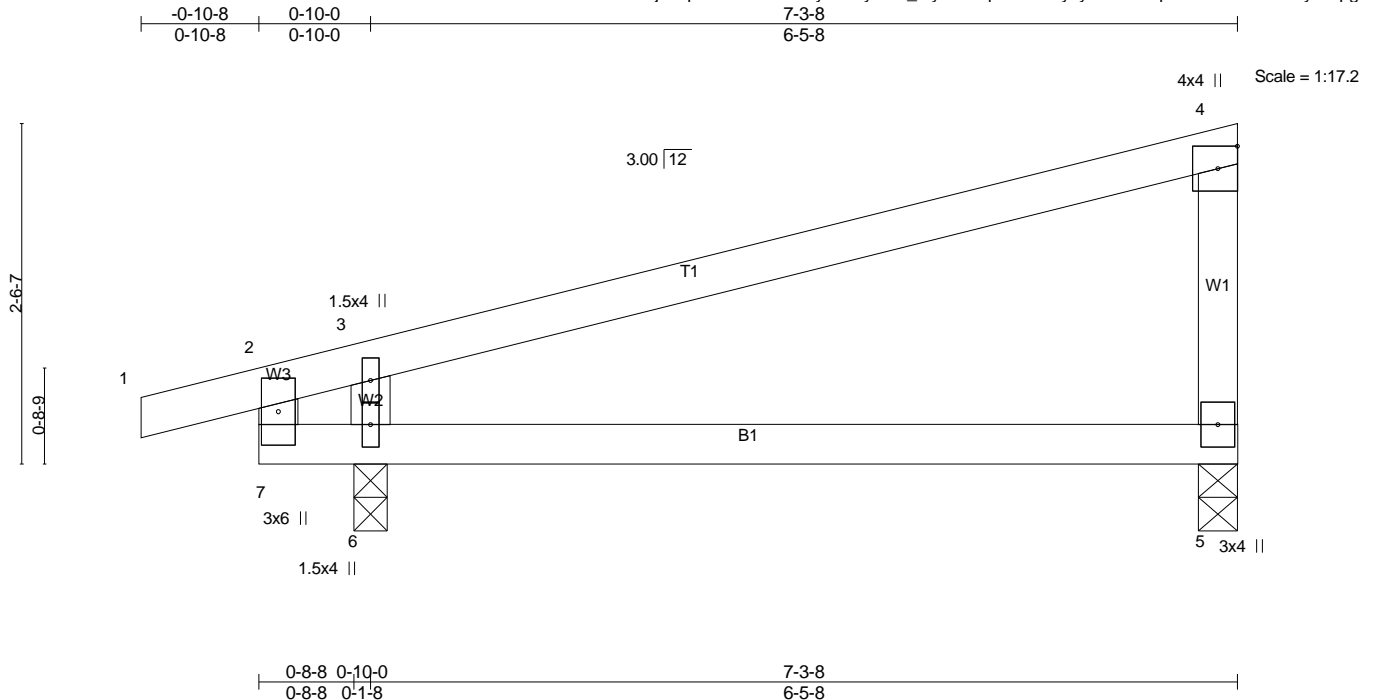
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.07 5-6 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.15 5-6 >501 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.00 5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 27 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 5=238/0-3-8 (min. 0-1-8), 6=383/0-3-0 (min. 0-1-8)
Max Horz 6=88(LC 11)
Max Uplift5=-49(LC 12), 6=-111(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-364/351

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 6. This connection is for uplift only and does not consider lateral forces.
5) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M1A	Half Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

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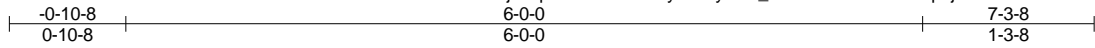
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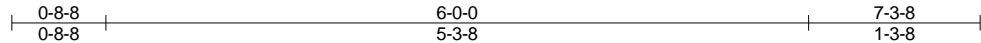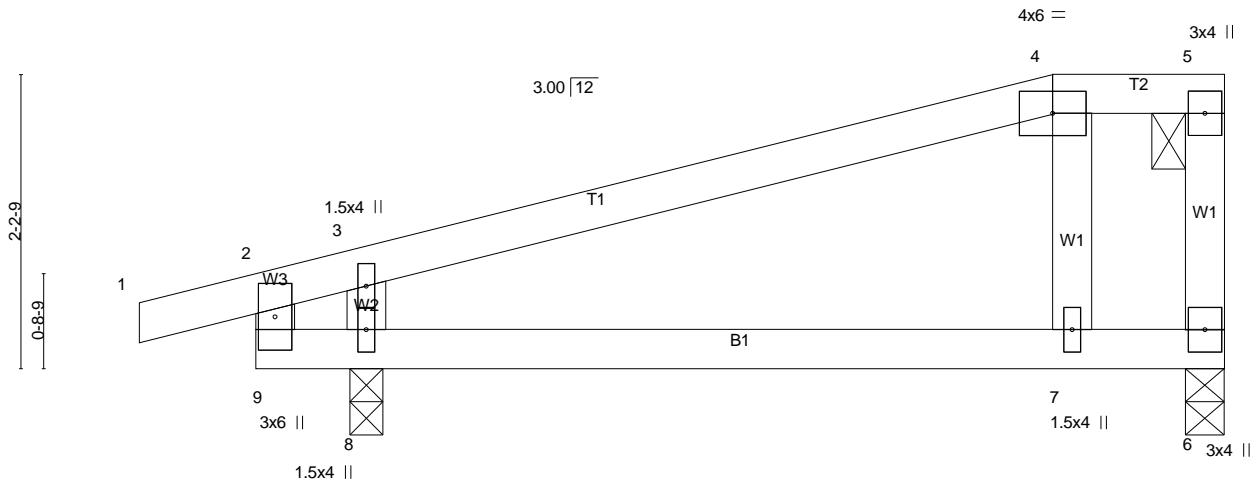
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.16	7-8	>459	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 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) 6=238/0-3-8 (min. 0-1-8), 8=383/0-3-0 (min. 0-1-8)
Max Horz 8=77(LC 11)
Max Uplift6=-43(LC 8), 8=-113(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-273/267

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M1B	Half Hip Girder	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:11 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-kj68UDJLyIj2dryjrofGSMyzrrCvYJmXgWZgW_yW5pc

-0-10-8	4-0-0	6-0-12	7-3-8
0-10-8	4-0-0	2-0-12	1-2-12

Scale = 1:17.3

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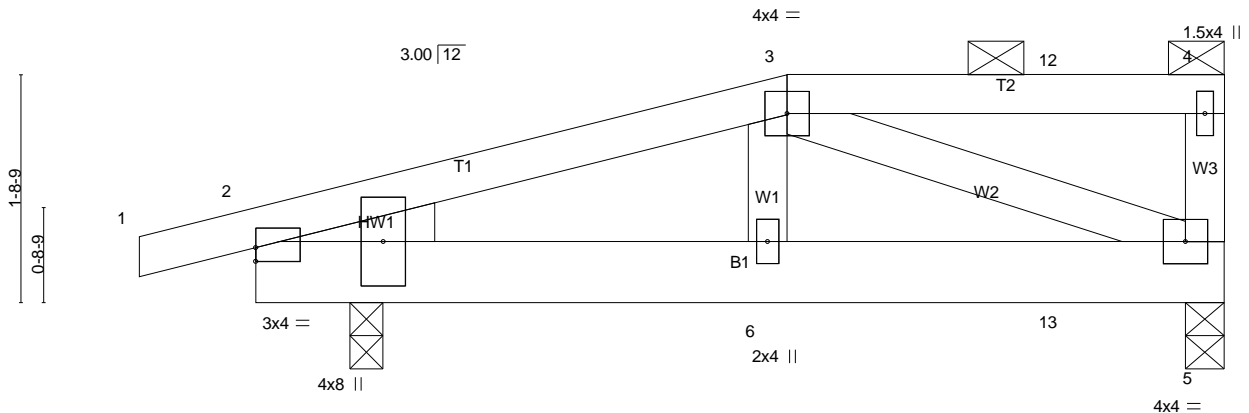
Plate Offsets (X,Y)-- [2:0-0-0,0-1-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.00 6 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.01 6 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.10	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 39 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 5=293/0-3-8 (min. 0-1-8), 2=418/0-3-0 (min. 0-1-8)
Max Horz 2=54(LC 11)
Max Uplift5=-67(LC 9), 2=-115(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-376/123
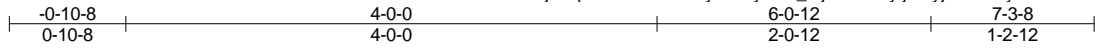BOT CHORD 2-6=-152/340, 6-13=-155/334, 5-13=-155/334
WEBS 3-5=-363/151

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 70 lb up at 4-0-0, and 28 lb down and 67 lb up at 6-0-12 on top chord, and 64 lb down and 28 lb up at 4-0-0, and 18 lb down at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-58(B) 3=-12(B) 12=-12(B) 13=-3(B)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M2	Monopitch	6	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:12 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-CwgWhZJzjcrvF_XwPVAV?aV3OFUHHm5guAJD2QyW5pb

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.05	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.12	5-6	>582	180	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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

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

REACTIONS. (lb/size) 6=372/0-3-0 (min. 0-1-8), 5=226/0-1-8 (min. 0-1-8)
Max Horz 6=85(LC 11)
Max Uplift6=-109(LC 8), 5=-46(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   3-6=-344/333

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) 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.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 5. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M3	Monopitch	14	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:14 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-9IoH6FLDED5dUIhIWwCz4?aQ23A_lh7zMUoK7JyW5pZ

-0-10-8   5-10-0
0-10-8   5-10-0

Scale = 1:14.7

5-10-0
5-10-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.06	5-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.11	5-8	>643	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -ü 1-6-0

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

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

REACTIONS. (lb/size) 2=284/0-3-8 (min. 0-1-8), 5=223/0-1-8 (min. 0-1-8)
Max Horz 2=73(LC 11)
Max Uplift2=-73(LC 8), 5=-46(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
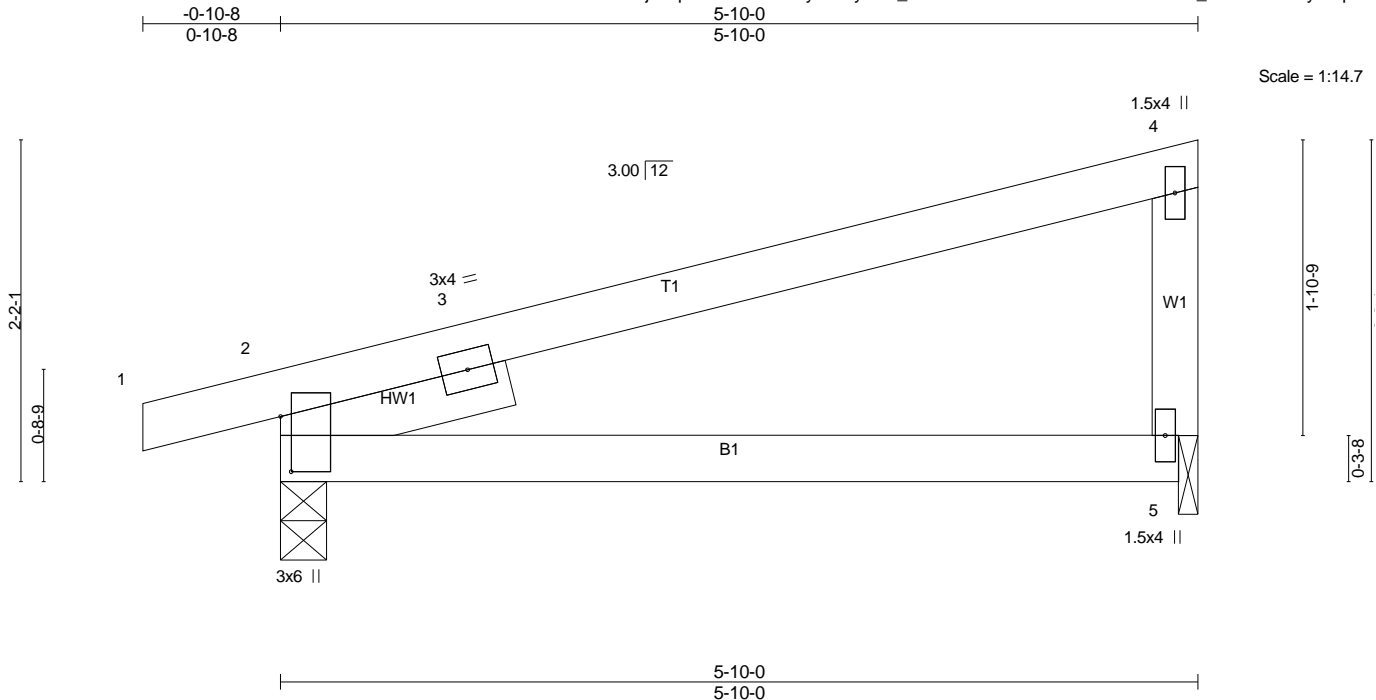
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M3A	Half Hip	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:15 2020 Page 1
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Plate Offsets (X,Y)-- [2:0-0-0,0-1-4], [4:0-4-4,0-1-12], [6:0-4-7,0-1-7]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.06	9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.12	7-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=763/0-3-8 (min. 0-1-8), 6=708/0-1-8 (min. 0-1-8)
Max Horz 2=311(LC 11)
Max Uplift2=-102(LC 12), 6=-124(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1563/294, 3-4=-612/165
BOT CHORD 2-9=-387/1462, 8-9=-390/1457, 7-8=-390/1457, 7-13=-202/405,
6-13=-202/405
WEBS 3-7=-1192/349, 4-7=-85/560, 4-6=-633/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M3B	Half Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:22 2020 Page 1
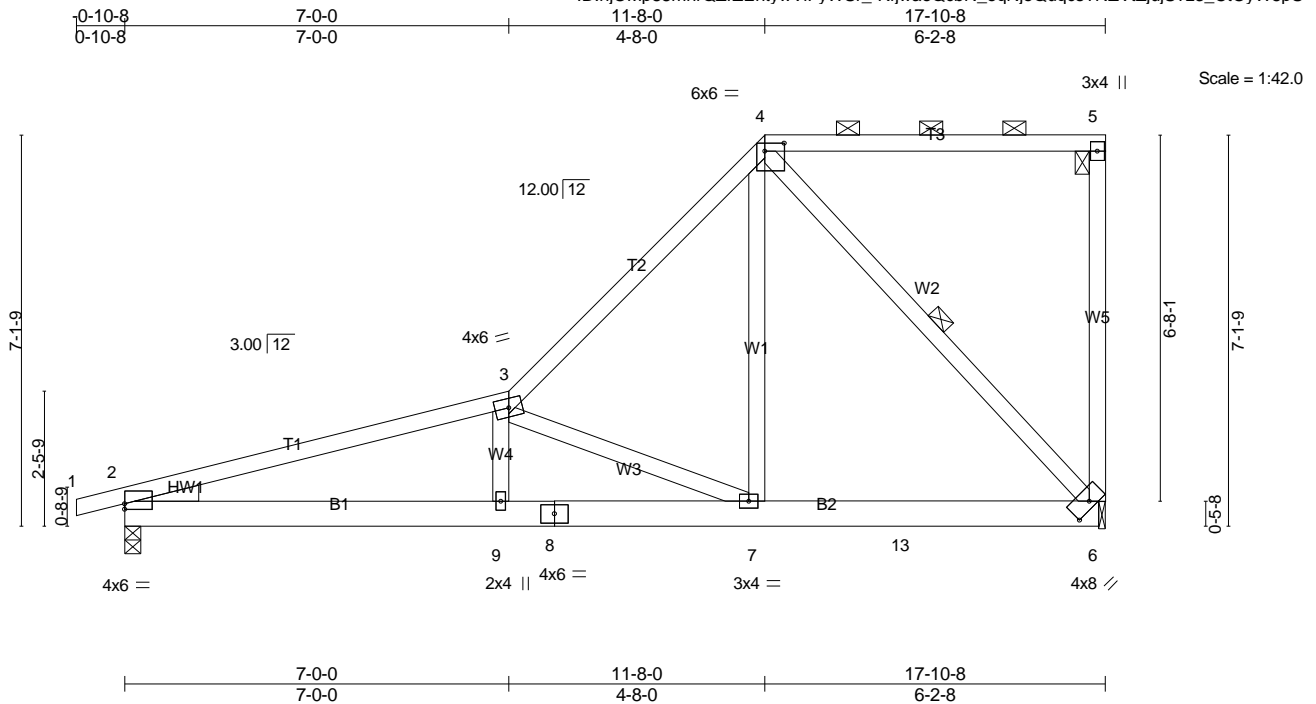ID:hjOMp88mnrQZrZEntywViFyWSr_-RfjwaeQcbN_eqNjeQuqcsTNZVtZjujS?z3_CtOyW5pS

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.05	9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.10	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 116 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=763/0-3-8 (min. 0-1-8), 6=708/0-1-8 (min. 0-1-8)
Max Horz 2=261(LC 11)
Max Uplift2=-106(LC 12), 6=-119(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1546/298, 3-4=-737/190
BOT CHORD   2-9=-408/1444, 8-9=-410/1440, 7-8=-410/1440, 7-13=-213/471,
6-13=-213/471
WEBS   3-7=-1086/313, 4-7=-81/626, 4-6=-641/209

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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

```
0-10-8     7-0-0          10-4-0            17-10-8
0-10-8     7-0-0          3-4-0             7-6-8
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Scale = 1:37.7


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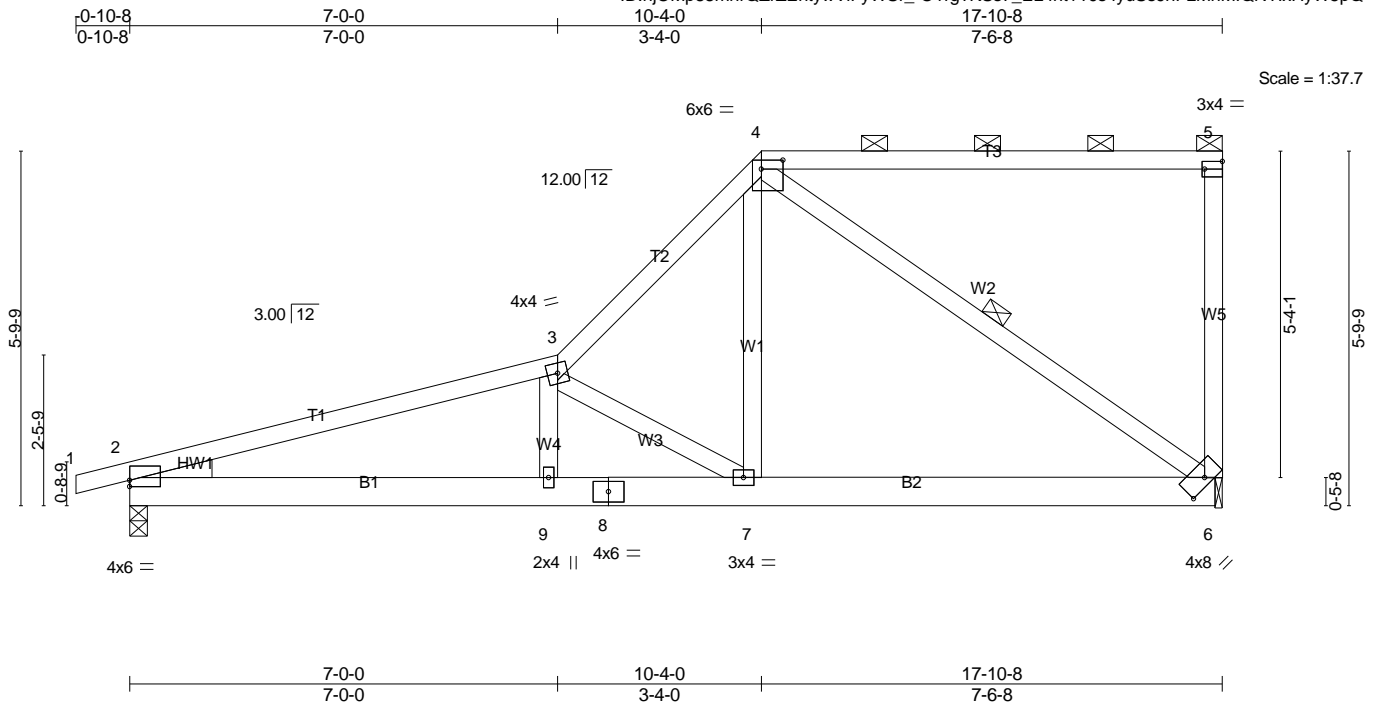
Plate Offsets (X,Y)-- [2:0-0-0,0-1-4], [4:0-4-4,0-1-12], [5:Edge,0-1-8], [6:0-4-7,0-1-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.05	9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.10	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 110 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size)   2=763/0-3-8 (min. 0-1-8), 6=708/0-1-8 (min. 0-1-8)
Max Horz 2=210(LC 11)
Max Uplift2=-109(LC 8), 6=-115(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1535/305, 3-4=-927/221
BOT CHORD   2-9=-414/1432, 8-9=-416/1430, 7-8=-416/1430, 6-7=-226/598
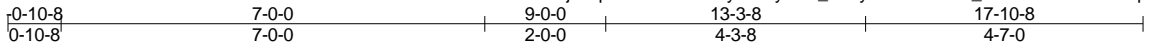WEBS   3-7=-971/280, 4-7=-83/687, 4-6=-706/199

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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.
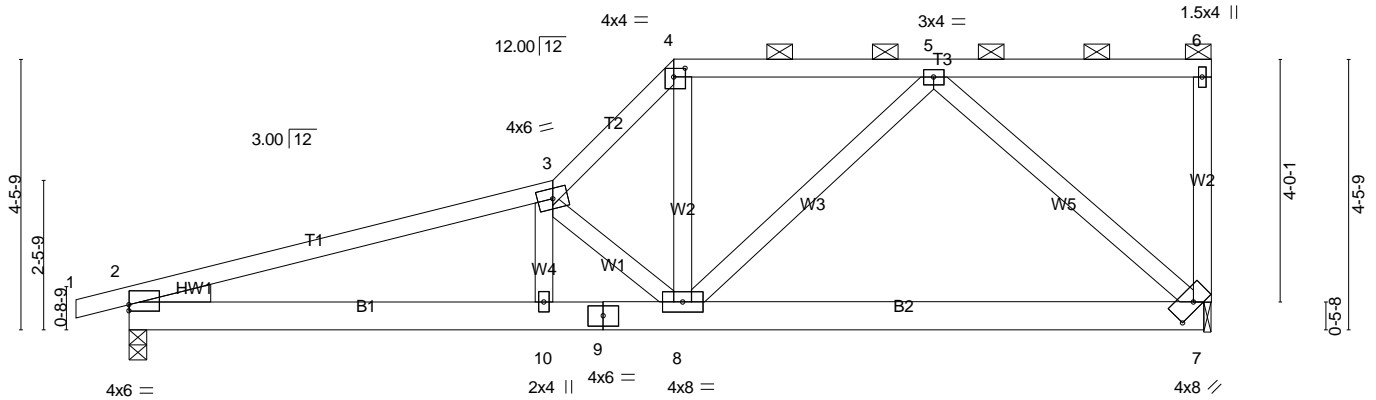
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M3D	Half Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:25 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-KQyRQ?T7fbU3J_1QfkvY1JYFRUwHqXSbuhyP0AyW5pO

Scale = 1:38.1

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.05	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 107 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=763/0-3-8 (min. 0-1-8), 7=708/0-1-8 (min. 0-1-8)
Max Horz 2=160(LC 11)
Max Uplift2=-126(LC 8), 7=-114(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1534/314, 3-4=-1153/256, 4-5=-797/207
BOT CHORD 2-10=-408/1432, 9-10=-409/1434, 8-9=-409/1434, 7-8=-214/579
WEBS 3-8=-918/279, 4-8=-109/630, 5-8=-20/351, 5-7=-767/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M3E	Half Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:26 2020 Page 1
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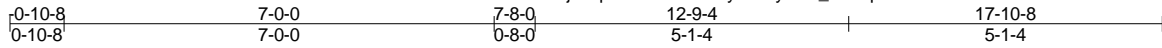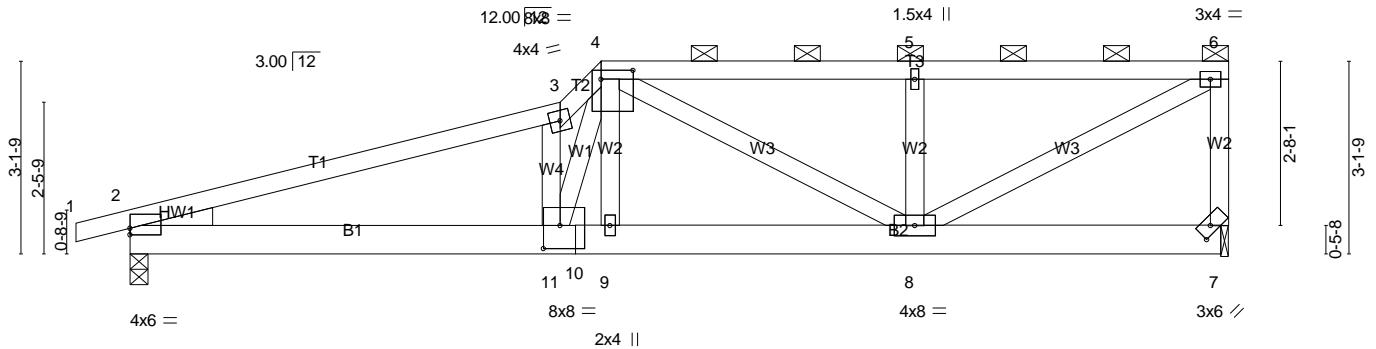
Scale = 1:37.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.06	11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.12	11-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 105 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-12 max.): 4-6.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=763/0-3-8 (min. 0-1-8), 7=708/0-1-8 (min. 0-1-8)
Max Horz 2=110(LC 11)
Max Uplift2=-149(LC 8), 7=-118(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1506/309, 3-4=-2111/537, 4-5=-965/241, 5-6=-965/241, 6-7=-650/172
BOT CHORD 2-11=-371/1404, 10-11=-310/1161, 9-10=-310/1161, 8-9=-311/1176
WEBS 3-11=-1314/418, 4-11=-320/1186, 4-9=-39/290, 5-8=-337/159, 6-8=-237/1072
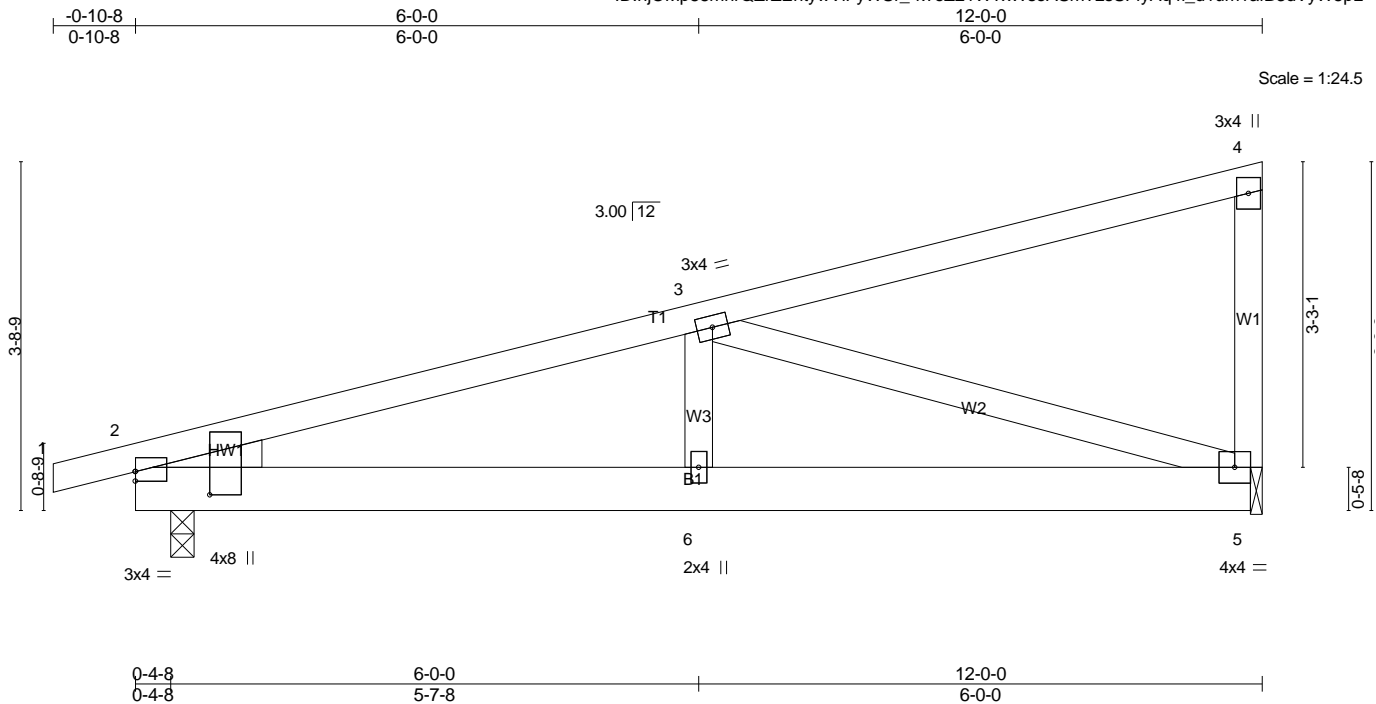
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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

-0-10-8 6-0-0 12-0-0
0-10-8 6-0-0 6-0-0

Scale = 1:24.5

0-4-8 6-0-0 12-0-0
0-4-8 5-7-8 6-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.02	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=546/0-3-0 (min. 0-1-8), 5=455/0-1-8 (min. 0-1-8)
Max Horz 2=134(LC 11)
Max Uplift2=-118(LC 8), 5=-92(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-834/238
BOT CHORD 2-6=-322/780, 5-6=-322/780
WEBS 3-5=-785/284

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
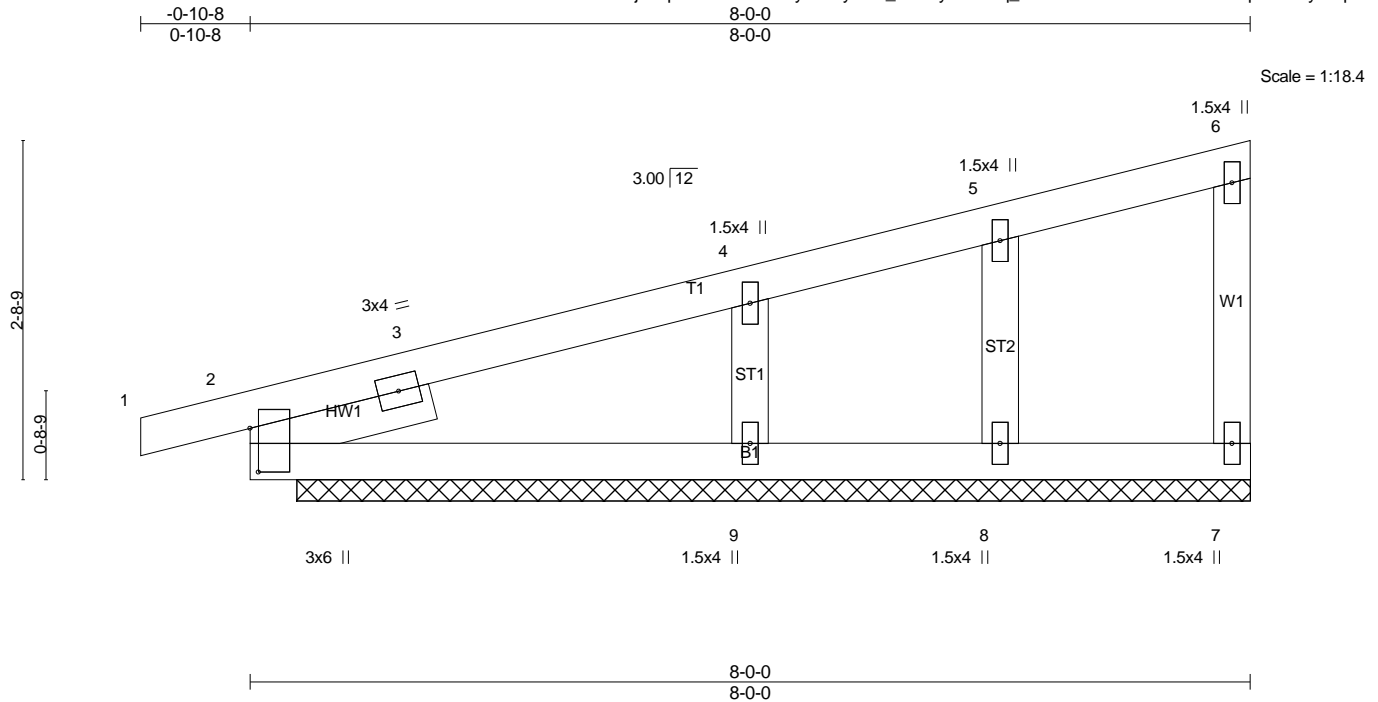
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M4E	Monopitch Supported Gable	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:29 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-CBCyGNXdiq_VocLBuazUB9i3w6MHmTwApJwd9xyW5pK

-0-10-8
0-10-8
8-0-0
8-0-0

Scale = 1:18.4

8-0-0
8-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3
OTHERS   2x4 SP No.3
SLIDER   Left 2x4 SP No.3 -ü 1-6-0

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.

REACTIONS.   All bearings 7-7-8.
  (lb) - Max Horz 2=93(LC 9)
          Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9
          Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8 except 9=308(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 2, 8, and 9. This connection is for uplift only and does not consider lateral forces.
7) Non Standard bearing condition. Review required.
8) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M4E1	Monopitch Supported Gable	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:31 2020 Page 1
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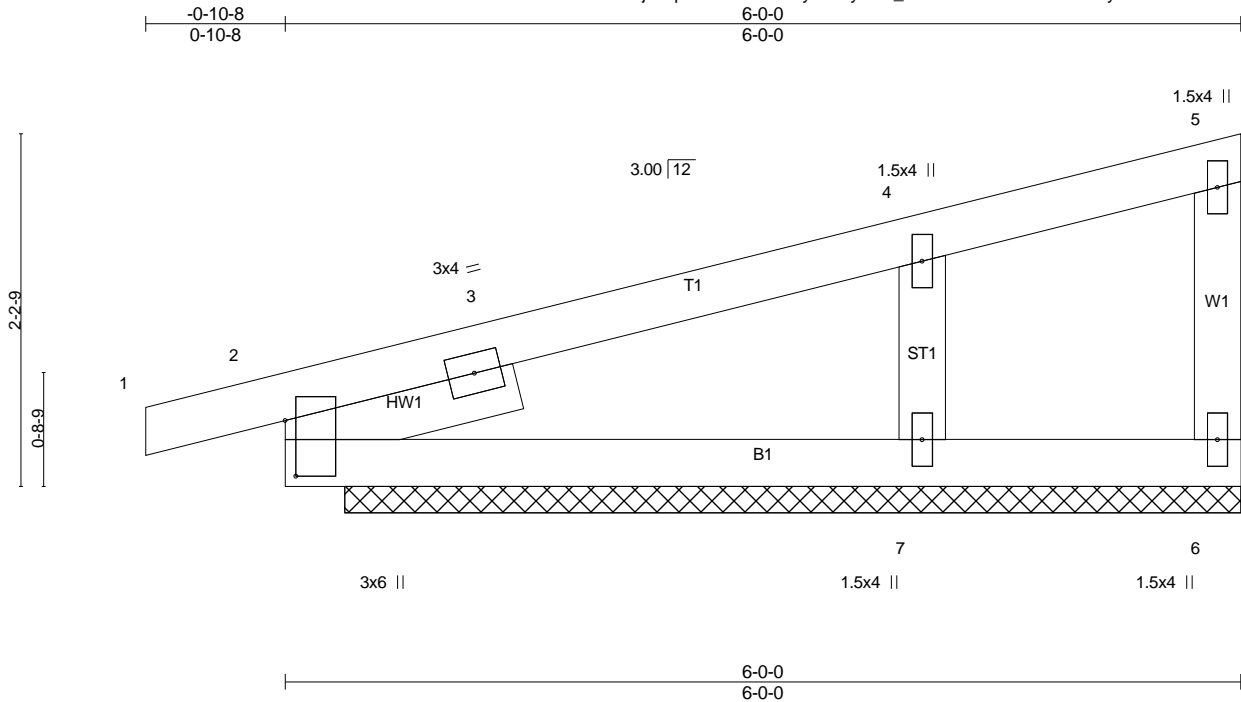
-0-10-8   6-0-0
0-10-8   6-0-0

Scale = 1:14.5

1.5x4 ||
5

3.00 [12   1.5x4 ||
4

3x4 =
3   T1

2-2-9

2   ST1   W1

1

0-8-9   HW1

B1

7   6

3x6 || 1.5x4 || 1.5x4 ||

6-0-0
6-0-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD   2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3
OTHERS   2x4 SP No.3
SLIDER   Left 2x4 SP No.3 -ü 1-6-0

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.

REACTIONS. (lb/size) 6=16/5-7-8 (min. 0-1-8), 2=191/5-7-8 (min. 0-1-8), 7=313/5-7-8 (min. 0-1-8)
           Max Horz 2=73(LC 9)
           Max Uplift6=-2(LC 9), 2=-53(LC 8), 7=-72(LC 12)

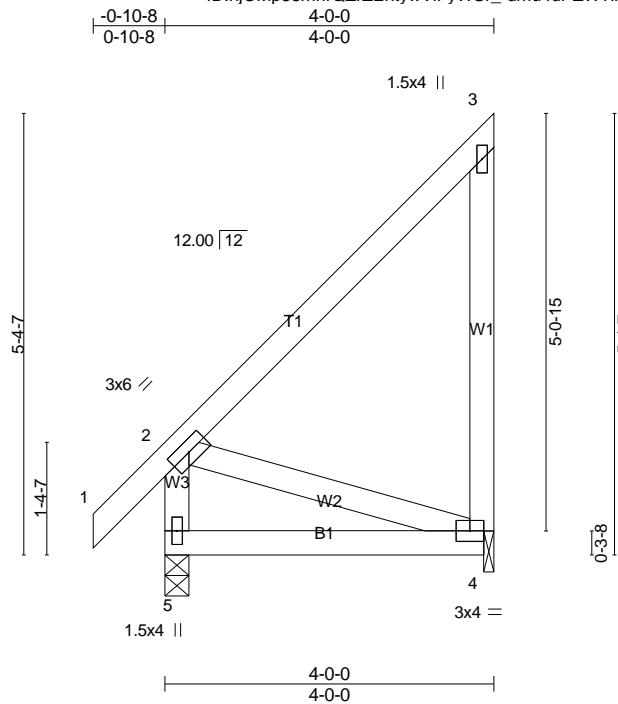**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
2) 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) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6,
   2, and 7. This connection is for uplift only and does not consider lateral forces.
7) Non Standard bearing condition. Review required.
8) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M7	Monopitch	10	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:32 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-dmu4uPZW?lN4f33maiXBpoKWQJNRzpDdVH9HmGyW5pH

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3

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=218/0-3-8 (min. 0-1-8), 4=140/0-1-8 (min. 0-1-8)
Max Horz 5=199(LC 9)
Max Uplift 5=-23(LC 8), 4=-119(LC 9)
Max Grav 5=251(LC 20), 4=200(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD   4-5=-343/312
WEBS   2-4=-254/294

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
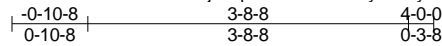
LOAD CASE(S) Standard

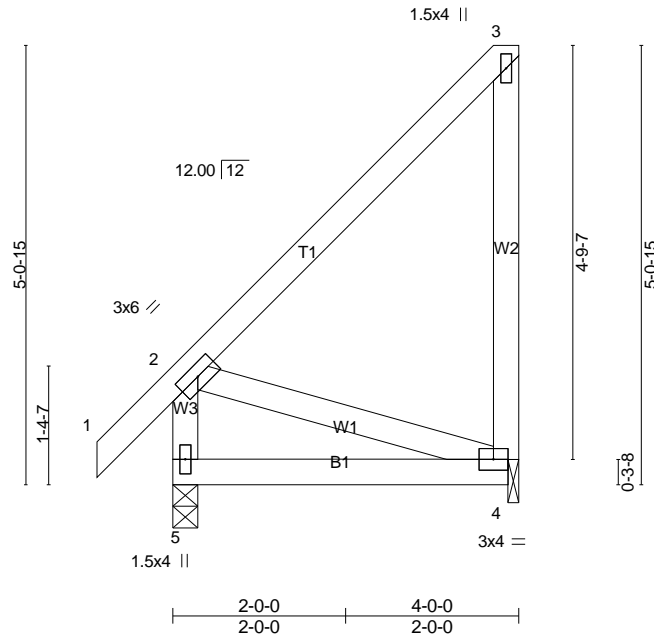| Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M7A	Half Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:34 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-Z9?rJ4amXMdnuND8h7ZfuDPsw62vRjivybeOq9yW5pF

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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=218/0-3-8 (min. 0-1-8), 4=140/0-1-8 (min. 0-1-8)
Max Horz 5=199(LC 9)
Max Uplift5=-23(LC 8), 4=-119(LC 9)
Max Grav 5=251(LC 20), 4=200(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
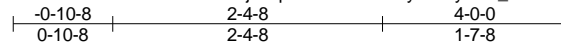BOT CHORD 4-5=-343/312
WEBS 2-4=-254/294

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) 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.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	M7B	Half Hip	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:35 2020 Page 1
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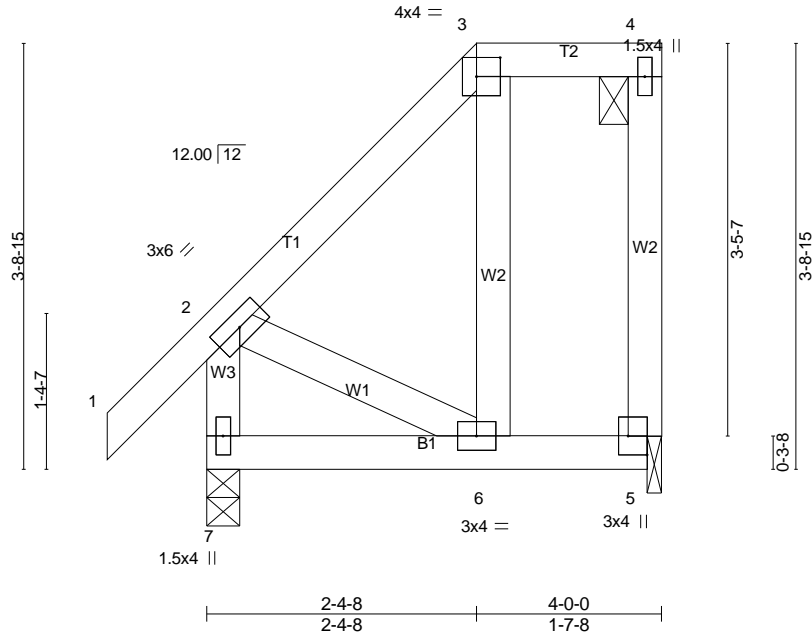
-0-10-8 / 0-10-8
2-4-8 / 2-4-8
4-0-0 / 1-7-8

Scale = 1:20.3

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.02	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 7=218/0-3-8 (min. 0-1-8), 5=140/0-1-8 (min. 0-1-8)
Max Horz 7=145(LC 11)
Max Uplift7=-18(LC 12), 5=-79(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 6-7=-266/258

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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.
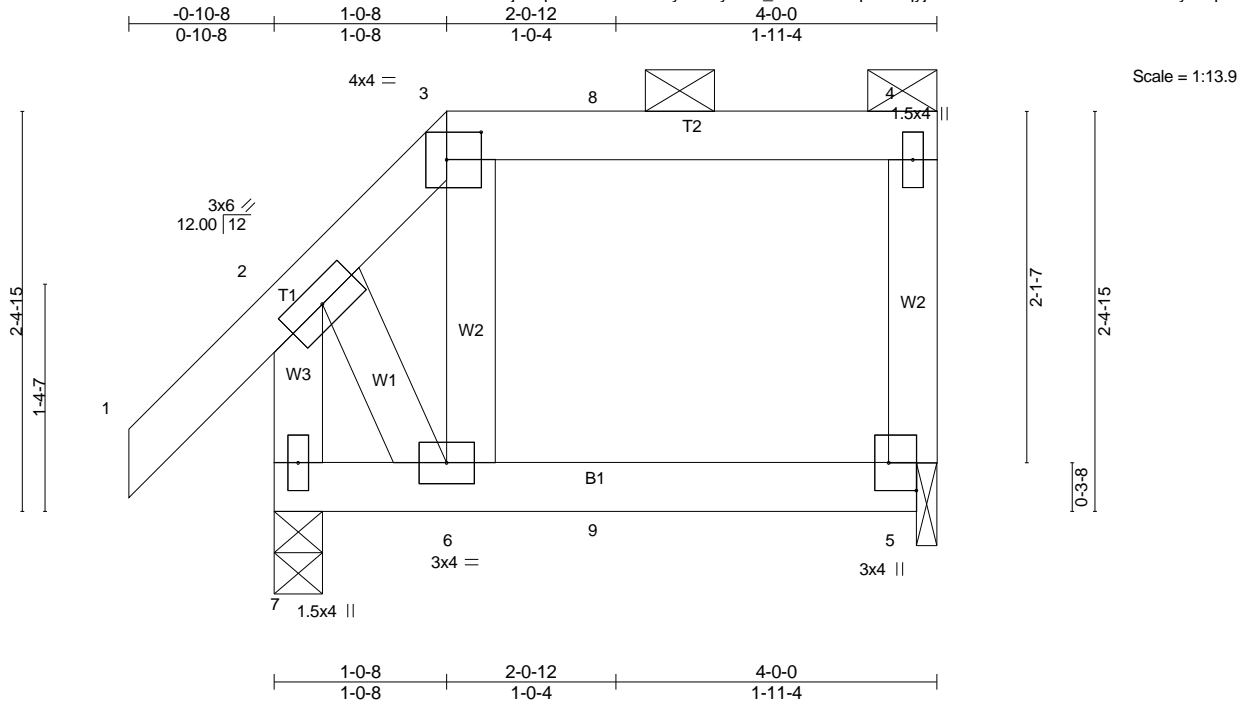
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M7C	Half Hip Girder	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:37 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-zkhzx6deqH?MlqyjMF6MWr1QCK5Be55MeZs2RUyW5pC

Scale = 1:13.9

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.01	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 7=218/0-3-8 (min. 0-1-8), 5=140/0-1-8 (min. 0-1-8)
Max Horz 7=95(LC 9)
Max Uplift7=-47(LC 12), 5=-65(LC 9)
Max Grav 7=218(LC 1), 5=141(LC 24)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 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.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 67 lb up at 2-0-12 on top chord, and 14 lb down and 15 lb up at 2-0-12 on bottom 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 9=1(F)

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	M8	Monopitch Supported Gable	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:39 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-w6pkMoevMvF4_856Ug9qbG7lw7nP6xHe6tL9WMyW5pA
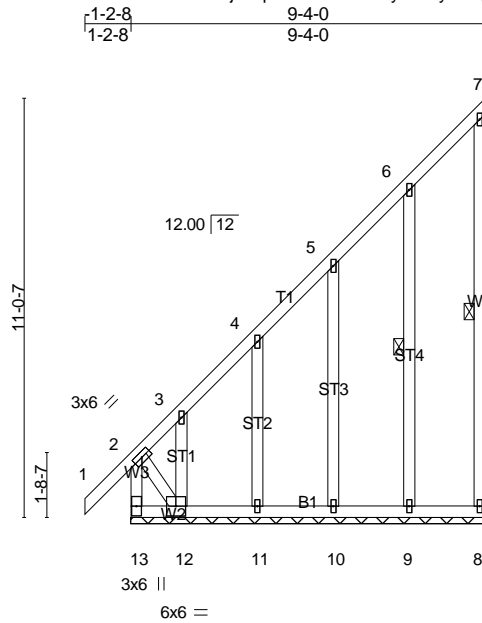
Scale = 1:60.7

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 89 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 1 Row at midpt 7-8, 6-9

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

REACTIONS. All bearings 9-4-0.
(lb) - Max Horz 13=374(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 13=-228(LC 10), 9=-109(LC 12), 10=-106(LC 12), 11=-114(LC 12), 12=-527(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 11 except 13=737(LC 12), 12=284(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-781/581, 2-3=-466/415, 3-4=-400/330, 4-5=-280/232
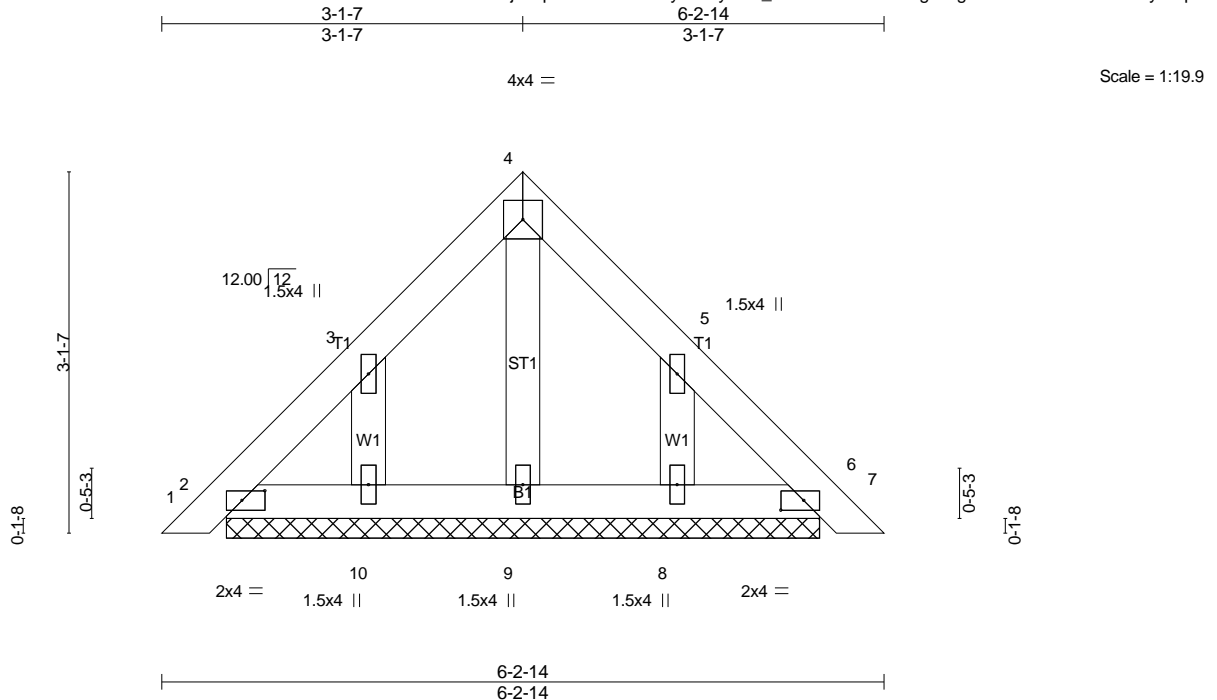BOT CHORD 12-13=-407/322
WEBS 2-12=-518/653

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left 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) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13, 8, 9, 10, 11, and 12. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	PB1	Piggyback	1	1	
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:40 2020 Page 1
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```
            3-1-7                        6-2-14
            3-1-7                        3-1-7
```

4x4 ≡

Scale = 1:19.9

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	6	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	6	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS   2x4 SP No.3
OTHERS   2x4 SP No.3

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

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

REACTIONS.   All bearings 5-1-8.
  (lb) - Max Horz 2=-72(LC 10)
       Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
       Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
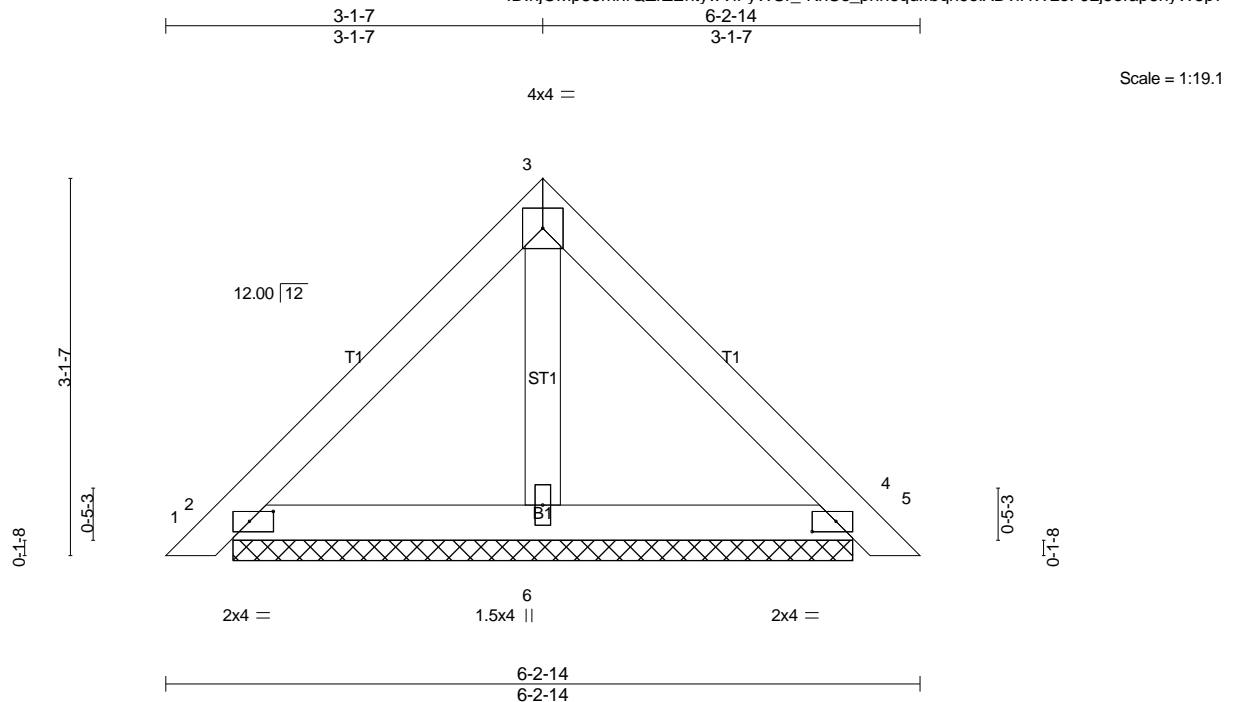
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	PB2	Piggyback	12	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:42 2020 Page 1
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3-1-7
3-1-7

6-2-14
3-1-7

Scale = 1:19.1

4x4 =

3

12.00 [12

3-1-7

T1   T1

ST1

0-5-3

1 2   B1   4 5
0-1-8   0-5-3

6
2x4 =   1.5x4 || 2x4 =

0-5-3
0-1-8

6-2-14
6-2-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	5	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	5	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS   2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=146/5-1-8 (min. 0-1-8), 4=146/5-1-8 (min. 0-1-8), 6=159/5-1-8 (min. 0-1-8)
Max Horz 2=-72(LC 10)
Max Uplift2=-34(LC 13), 4=-40(LC 13)
Max Grav 2=146(LC 1), 4=146(LC 1), 6=160(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2
   and 4. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2
   and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult
   qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Hicks Residence - Milltown
2000811-2000811A	PB3	Piggyback	2	1	Job Reference (optional)

84 Components, Dunn, NC 28334   8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:43 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-ot2EC9hPP7lWTlPtjWDml6HTGl8W2owE1VJMf7yW5p6

3-0-0 3-7-8 6-7-8
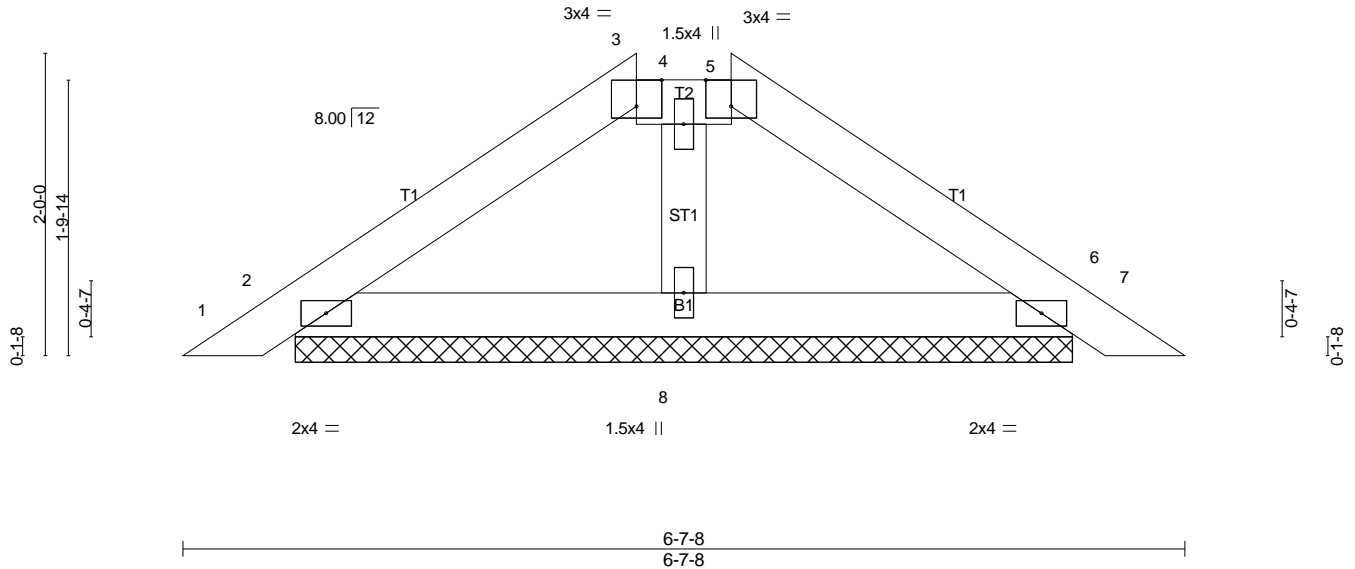3-0-0 0-7-8 3-0-0
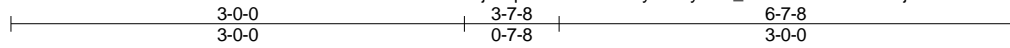
Scale = 1:15.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	7	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	7	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3

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

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

REACTIONS. (lb/size) 2=136/5-1-10 (min. 0-1-8), 6=136/5-1-10 (min. 0-1-8), 8=196/5-1-10 (min. 0-1-8)
Max Horz 2=-43(LC 10)
Max Uplift2=-33(LC 12), 6=-39(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
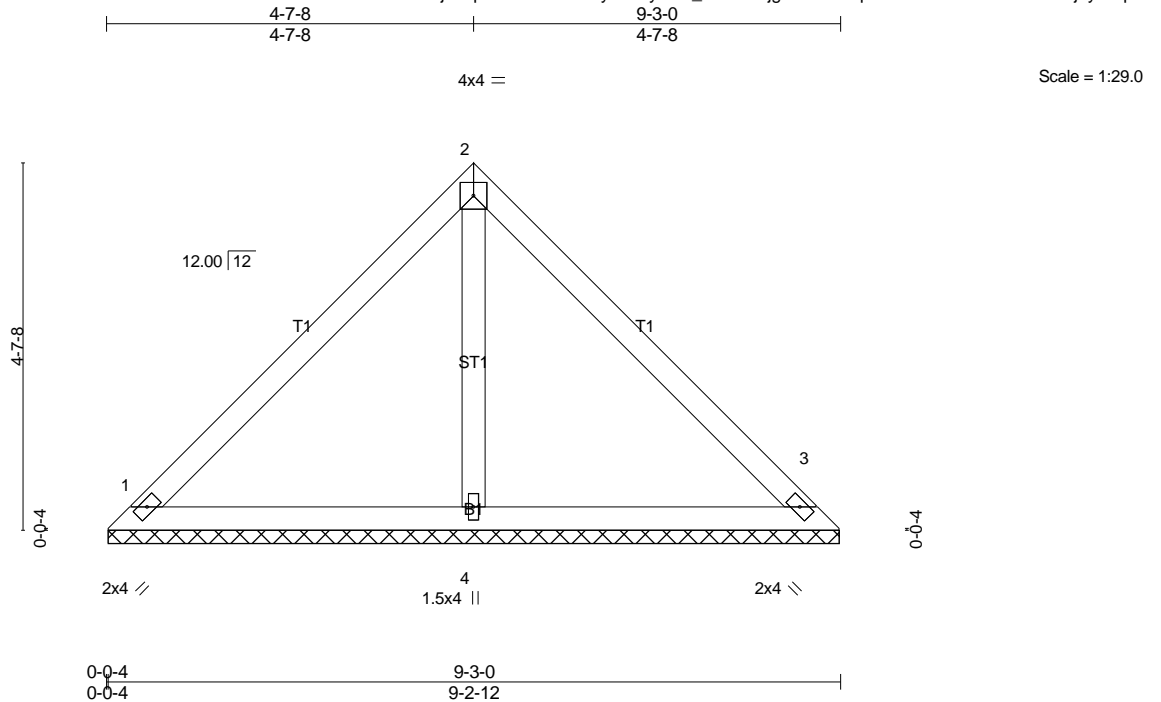
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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	Hicks Residence - Milltown
2000811-2000811A	V1	Valley	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:45 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-kGA?drjgxl?Ei3ZGqxGErXNkxYn5WhmXUooTj0yW5p4

4-7-8

9-3-0

4-7-8

4-7-8

4x4 ═

Scale = 1:29.0

12.00 ⌐12

4-7-8

0-0-4

T1

T1

ST1

1

2

3

4

0-0-4

2x4 ∥

2x4 ∖

2x4 ∥

1.5x4 ∥

0-0-4

9-3-0

0-0-4

9-2-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS   2x4 SP No.3

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

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

REACTIONS. (lb/size) 1=190/9-2-8 (min. 0-1-8), 3=190/9-2-8 (min. 0-1-8), 4=304/9-2-8 (min. 0-1-8)
Max Horz 1=106(LC 9)
Max Uplift1=-37(LC 13), 3=-37(LC 13), 4=-5(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
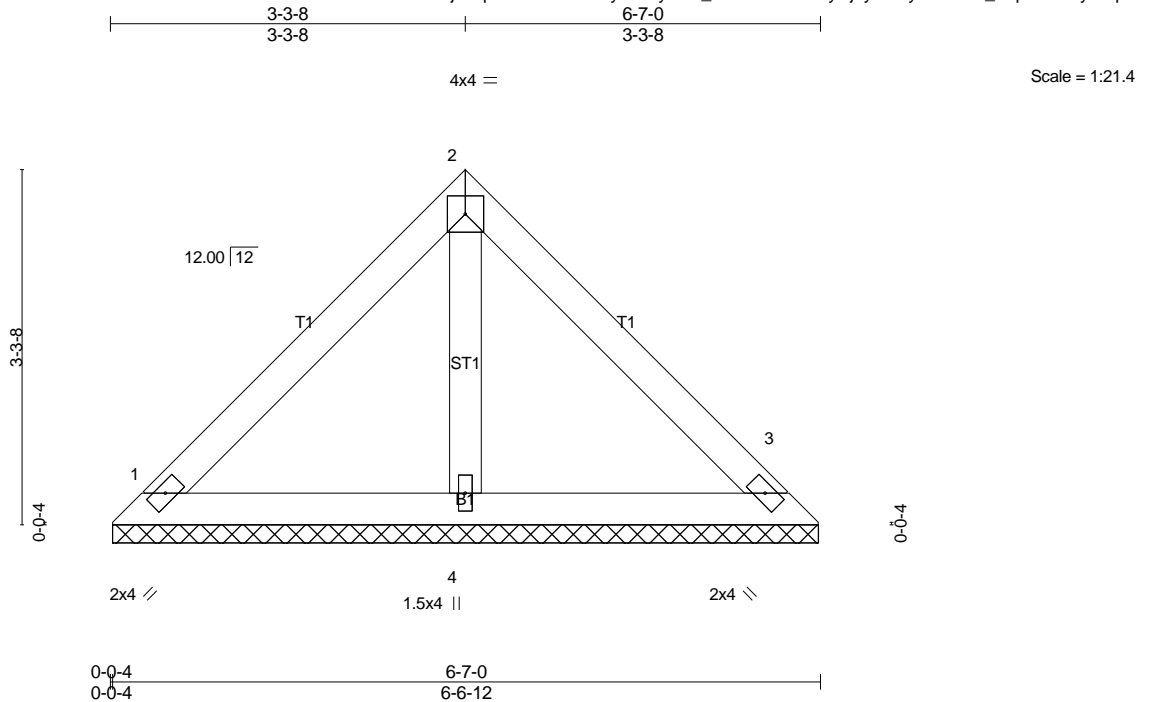
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 3, and 4. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	V2	Valley	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:47 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-hfIl1XkwTMFxyNjeyMIiwyS6sMU8_crqx6HaouyW5p2

3-3-8
3-3-8

6-7-0
3-3-8

4x4 =

Scale = 1:21.4

12.00 [12

3-3-8

0-0-4

T1   T1

ST1

1   B1   3

4

0-0-4

2x4 //   1.5x4 || 2x4 \\

0-0-4
0-0-4

6-7-0
6-6-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.3
BOT CHORD   2x4 SP No.3
OTHERS   2x4 SP No.3

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

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

REACTIONS.   (lb/size)   1=140/6-6-8 (min. 0-1-8), 3=140/6-6-8 (min. 0-1-8), 4=189/6-6-8 (min. 0-1-8)
Max Horz 1=73(LC 9)
Max Uplift1=-35(LC 13), 3=-35(LC 13)

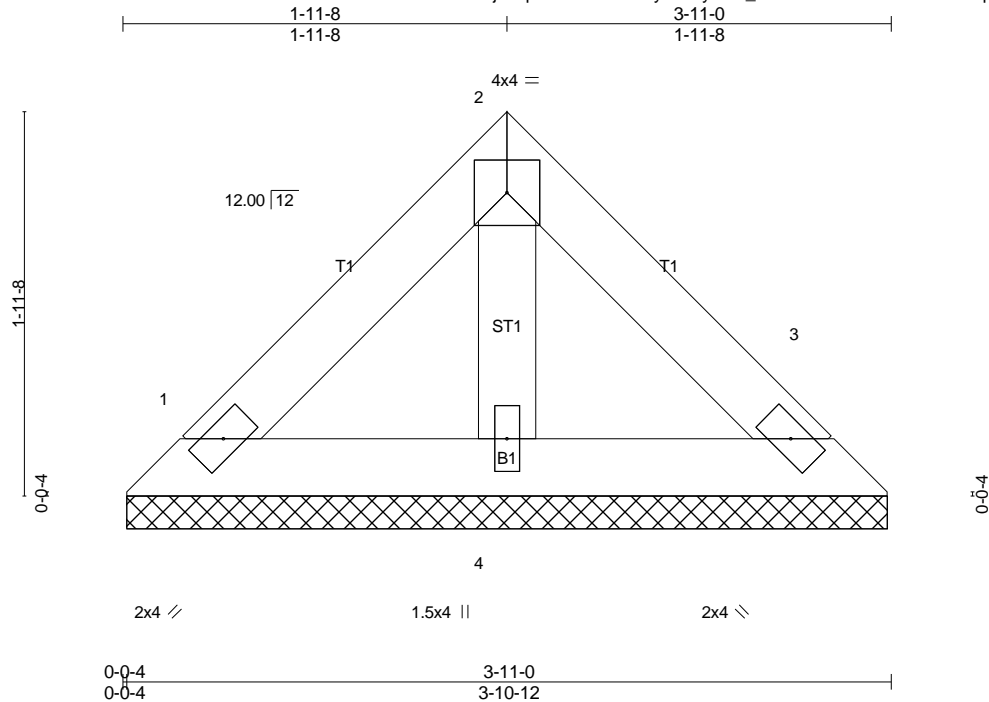FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 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	Hicks Residence - Milltown
2000811-2000811A	V3	Valley	1	1	
					Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Tue Oct 6 15:57:52 2020 Page 1
ID:hjOMp88mnrQZrZEntywViFyWSr_-1c5e5Eo3IuuE28bclvutd09?pNDxftLZ5O?LS6yW5oz

1-11-8
1-11-8
3-11-0
1-11-8

4x4 =

Scale = 1:11.7

12.00 [12

T1
T1

1-11-8

ST1

3

1

B1

0-0-4
0-0-4

4

2x4 //
1.5x4 ||
2x4 \\

0-0-4
0-0-4
3-11-0
3-10-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-11-0 oc
             purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=77/3-10-8 (min. 0-1-8), 3=77/3-10-8 (min. 0-1-8), 4=103/3-10-8 (min. 0-1-8)
Max Horz 1=-40(LC 8)
Max Uplift1=-19(LC 13), 3=-19(LC 13)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B;
   Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end
   vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
   grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall
   by 2-0-0 wide will fit between the bottom chord and any other members.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1
   and 3. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2
   and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard