

Job 20071754CS	Truss FG2	Truss Type Floor Girder	Qty 1	Ply 1	MCKEE/WINSTON EURO CRAWLSPACE
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8,330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:32:39 2020 Page 1  
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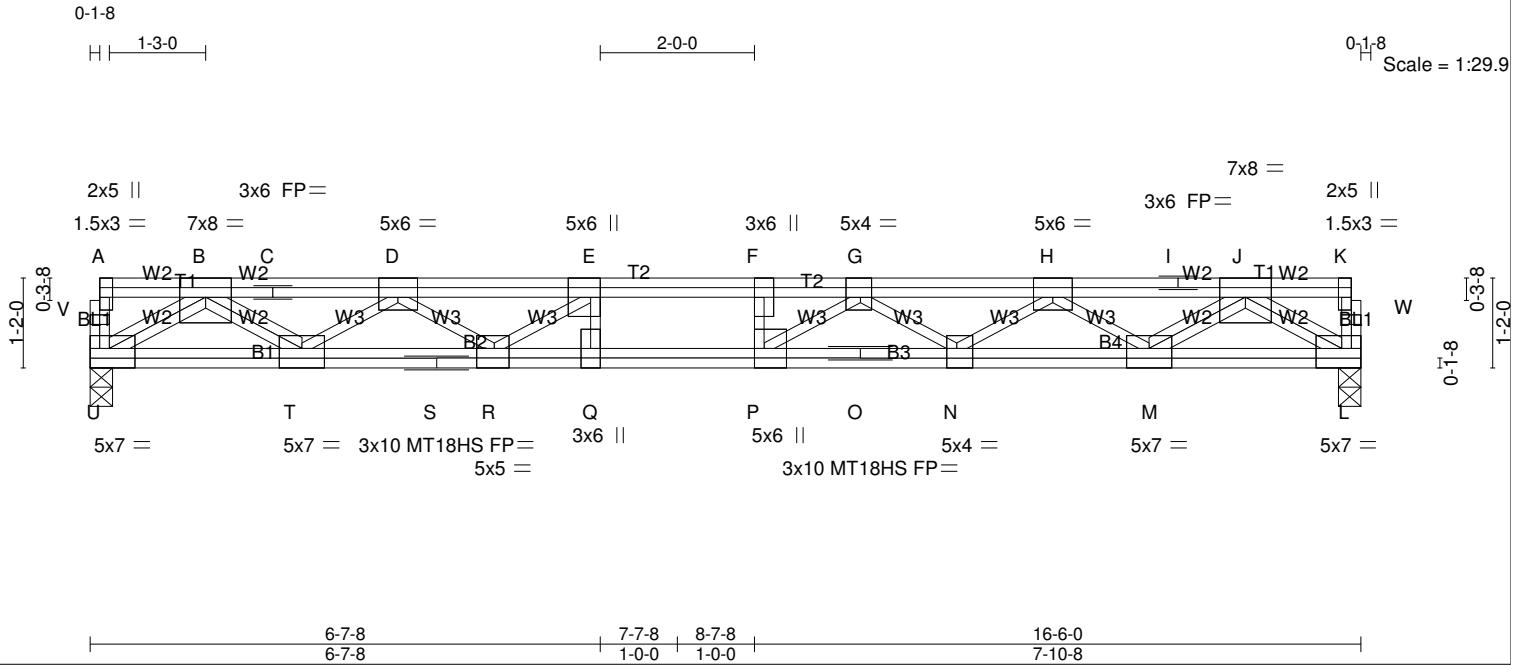


Plate Offsets (X,Y)-- [D:0-3-0,Edge], [E:0-3-0,Edge], [F:0-3-0,0-0-0], [G:0-1-12,Edge], [H:0-3-0,Edge], [K:0-3-0,Edge], [L:Edge,0-3-0], [M:0-3-8,Edge], [N:0-1-8,Edge], [P:0-3-0,Edge], [R:0-2-4,Edge], [T:0-3-8,Edge], [U:Edge,0-3-0]

<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	<b>CSI.</b> TC 0.65 BC 0.99 WB 0.60 Matrix-SH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.26 P >745 480 Vert(CT) -0.43 P >458 360 Horz(CT) 0.07 L n/a n/a	<b>PLATES GRIP</b> MT20 244/190 MT18HS 244/190 Weight: 135 lb FT = 20%F, 12%E
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**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) U=1855/0-3-8 (min. 0-1-8), L=1855/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD U-V=-94/0, A-V=-93/0, L-W=-91/0, K-W=-91/0, A-B=-6/0, B-C=-4267/0, C-D=-4267/0, D-E=-6977/0, E-F=-8043/0, F-G=-8043/0, G-H=-6984/0, H-I=-4264/0, I-J=-4264/0, J-K=-6/0  
BOT CHORD T-U=0/2626, S-T=0/6037, R-S=0/6037, Q-R=0/8043, P-Q=0/8043, O-P=0/7839, N-O=0/7839, M-N=0/6062, L-M=0/2619  
WEBS J-L=-3140/0, B-U=-3149/0, J-M=0/2082, B-T=0/2075, H-M=-2190/0, D-T=-2157/0, H-N=0/1143, D-R=0/1257, G-N=-1061/0, E-R=-1593/0, G-P=-299/918, E-Q=-143/348, F-P=-392/0

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are MT20 plates unless otherwise indicated.  
3) 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.  
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
5) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: L-U=-10, A-K=-220(F=-100)

Job <b>20071754CS</b>	Truss <b>FG3</b>	Truss Type <b>Floor Girder</b>	Qty <b>2</b>	Ply <b>1</b>	<b>MCKEE/WINSTON EURO CRAWLSPACE</b>
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:32:42 2020 Page 1  
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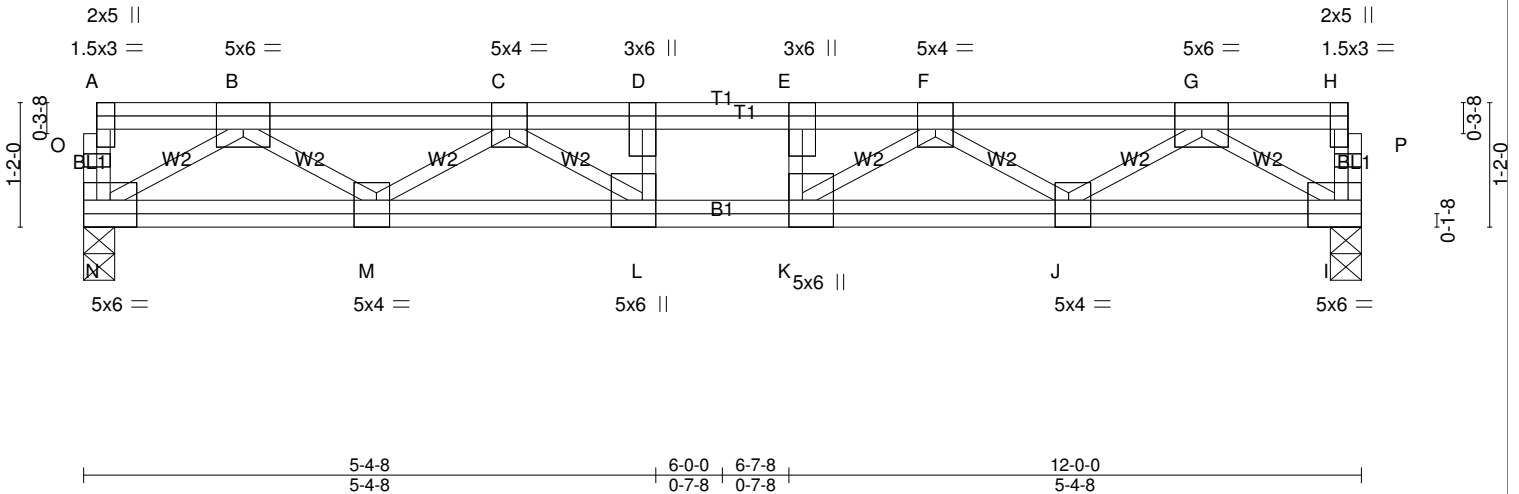
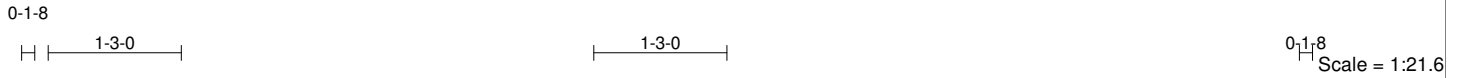


Plate Offsets (X,Y)-- [B:0-3-0,Edge], [C:0-2-0,Edge], [E:0-3-0,0-0-0], [F:0-2-0,Edge], [G:0-3-0,Edge], [H:0-3-0,Edge], [I:Edge,0-3-0], [J:0-1-8,Edge], [K:0-3-0,Edge], [L:0-3-0,Edge], [M:0-1-8,Edge], [N:0-3-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL) -0.08	K-L >999	480	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.67	Vert(CT) -0.13	K-L >999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.53	Horz(CT) 0.02	I n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH				Weight: 93 lb	FT = 20%F, 12%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

**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) N=1337/0-3-8 (min. 0-1-8), I=1337/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD N-O=-89/0, A-O=-89/0, I-P=-89/0, H-P=-89/0, A-B=0/0, B-C=-2781/0, C-D=-4130/0, D-E=-4130/0, E-F=-4130/0, F-G=-2781/0, G-H=0/0  
BOT CHORD M-N=0/1888, L-M=0/3771, K-L=0/4130, J-K=0/3771, I-J=0/1888  
WEBS G-I=-2201/0, B-N=-2201/0, G-J=0/1111, B-M=0/1111, F-J=-1227/0, C-M=-1227/0, F-K=0/766, C-L=0/766, D-L=-338/0, E-K=-338/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) 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.
  - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 4) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: I-N=-10, A-H=-220(F=-100)

Job 20071754CS	Truss FG4	Truss Type FLOOR GIRDER	Qty 1	Ply 1	MCKEE/WINSTON EURO CRAWLSPACE
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:32:45 2020 Page 1  
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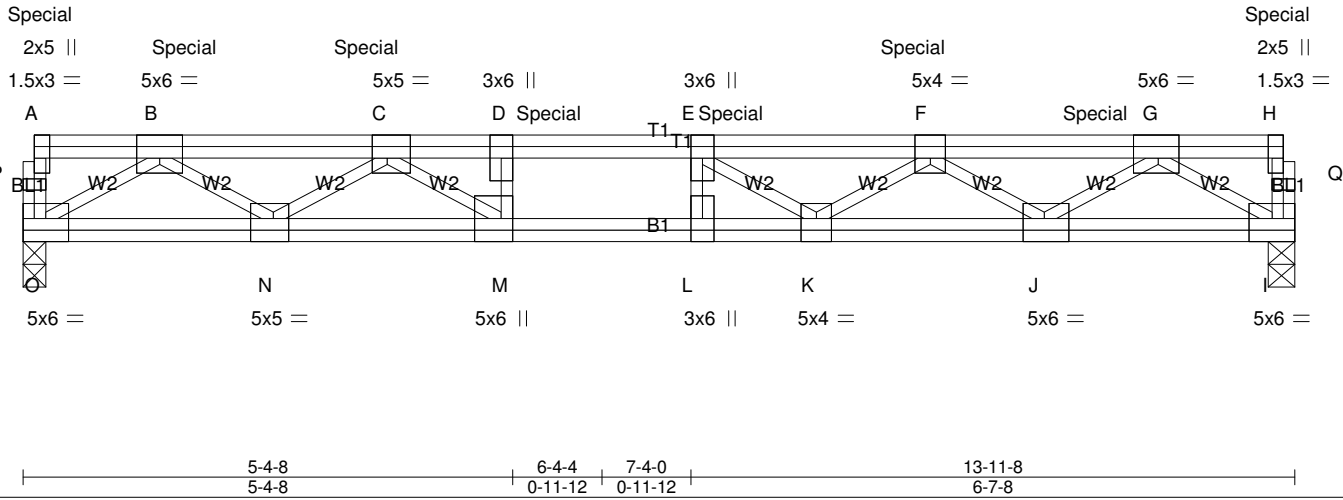
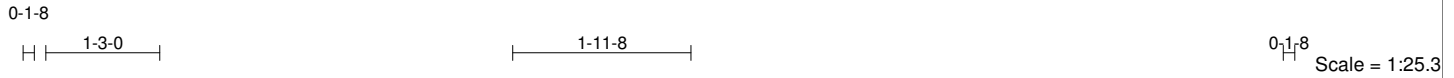


Plate Offsets (X,Y)-- [B:0-3-0,Edge], [C:0-2-0,Edge], [F:0-2-0,Edge], [G:0-2-12,Edge], [H:0-3-0,Edge], [I:Edge,0-3-0], [J:0-2-12,Edge], [K:0-2-0,Edge], [L:0-3-0,0-0-0], [M:0-3-0,Edge], [N:0-2-0,Edge], [O:0-3-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.82	Vert(LL) -0.15 L >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.71	Vert(CT) -0.24 L >686 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 l n/a n/a		
	Code IRC2015/TPI2014			Weight: 107 lb	FT = 20%F, 12%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)

**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) O=1562/0-3-0 (min. 0-1-8), I=1562/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD O-P=-88/0, A-P=-88/0, I-Q=-103/0, H-Q=-103/0, A-B=0/0, B-C=-3372/0, C-D=-5585/0, D-E=-5585/0, E-F=-5246/0, F-G=-3413/0, G-H=0/0  
BOT CHORD N-O=0/2223, M-N=0/4711, L-M=0/5585, K-L=0/5585, J-K=0/4757, I-J=0/2206  
WEBS G-I=-2572/0, B-O=-2591/0, G-J=0/1501, B-N=0/1430, F-J=-1666/0, C-N=-1660/0, F-K=0/754, C-M=0/1386, E-K=-799/0, D-M=-535/0, E-L=-323/71

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) 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.
  - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 4) Special hanger(s) or other connection device(s) shall be provided starting at 0-2-4 from the left end to 13-9-4 sufficient to connect truss(es) (1 ply 2x4 SP) to front face of top chord. The design/selection of such special connection device(s) is the responsibility of others.
  - 5) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: I-O=-10, A-H=-220(F=-100)

Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8,330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:32:48 2020 Page 1  
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0-1-8



0-1-8  
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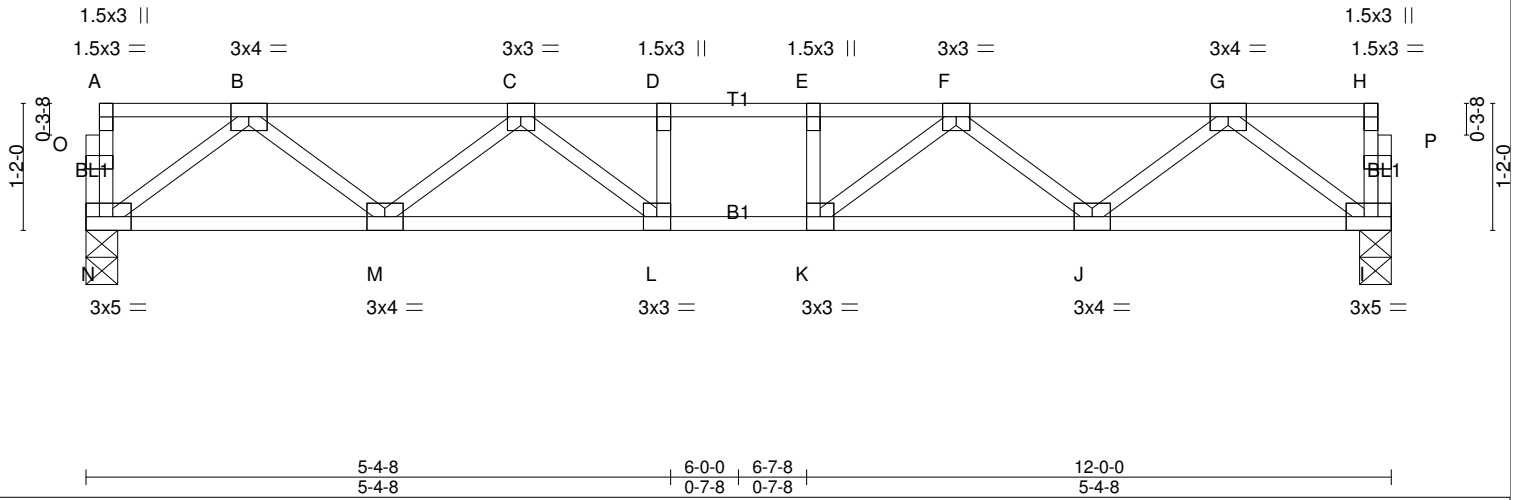


Plate Offsets (X,Y)-- [I:0-2-0,Edge], [N:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.59	Vert(LL) -0.07 K-L >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.32	Vert(CT) -0.11 K-L >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 l n/a n/a		
	Code IRC2015/TPI2014			Weight: 61 lb	FT = 20%F, 12%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)

**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) N=756/0-3-8 (min. 0-1-8), I=756/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD N-O=-42/0, A-O=-42/0, I-P=-42/0, H-P=-42/0, A-B=-3/0, B-C=-1453/0, C-D=-2127/0, D-E=-2127/0, E-F=-2127/0, F-G=-1453/0, G-H=-3/0  
 BOT CHORD M-N=0/931, L-M=0/1940, K-L=0/2127, J-K=0/1940, I-J=0/931  
 WEBS G-I=-1165/0, B-N=-1165/0, G-J=0/679, B-M=0/679, F-J=-634/0, C-M=-634/0, F-K=0/418, C-L=0/418, D-L=-195/0, E-K=-195/0

**NOTES-**  
 1) Unbalanced floor live loads have been considered for this design.  
 2) 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.  
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8,330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:32:52 2020 Page 1  
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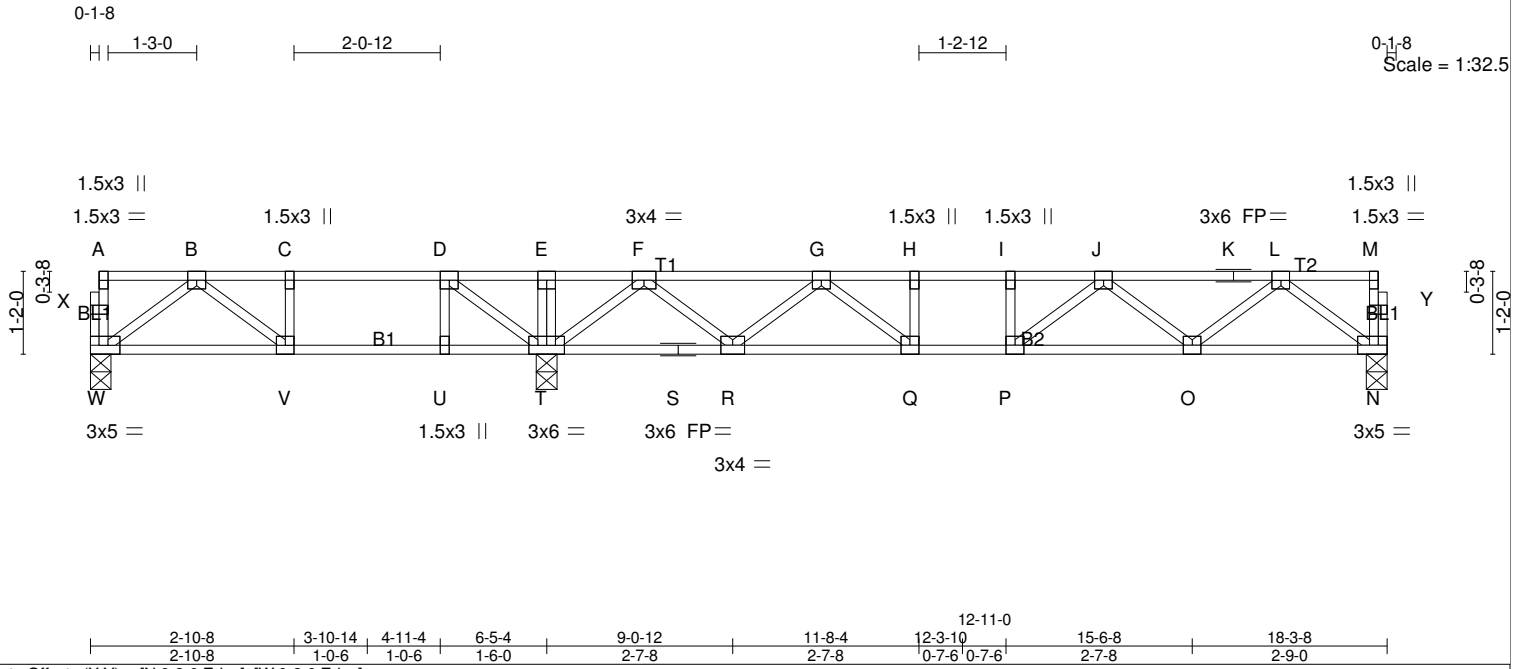


Plate Offsets (X,Y)-- [N:0-2-0,Edge], [W:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.69	Vert(LL) -0.07 P >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.59	Vert(CT) -0.11 P >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.03 N n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 93 lb FT = 20%F, 12%E

<b>LUMBER-</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)	<b>BRACING-</b> 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.
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**REACTIONS.** (lb/size) W=367/0-3-8 (min. 0-1-8), T=1228/0-3-8 (min. 0-1-8), N=736/0-3-8 (min. 0-1-8)  
Max Grav W=412(LC 3), T=1228(LC 1), N=742(LC 7)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD W-X=-59/0, A-X=-59/0, N-Y=-42/0, M-Y=-42/0, A-B=-4/0, B-C=-596/0, C-D=-596/0, D-E=-51/376, E-F=-51/376, F-G=-1334/0, G-H=-2045/0, H-I=-2045/0, I-J=-2045/0, J-K=-1417/0, K-L=-1417/0, L-M=-3/0  
BOT CHORD V-W=0/439, U-V=0/596, T-U=0/596, S-T=0/799, R-S=0/799, Q-R=0/1834, P-Q=0/2045, O-P=0/1885, N-O=0/912  
WEBS E-T=-58/26, B-W=-546/0, D-T=-816/0, B-V=-88/201, C-V=-139/31, D-U=0/117, L-N=-1141/0, F-T=-1227/0, L-O=0/658, F-R=0/725, J-O=609/0, G-R=687/0, J-P=0/376, G-Q=0/422, H-Q=-196/0, I-P=-177/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 MT20 unless otherwise indicated.
  - 3) 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.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.

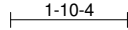
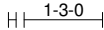
**LOAD CASE(S)** Standard

Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8,330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:32:57 2020 Page 1  
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0-1-8



0-1-8

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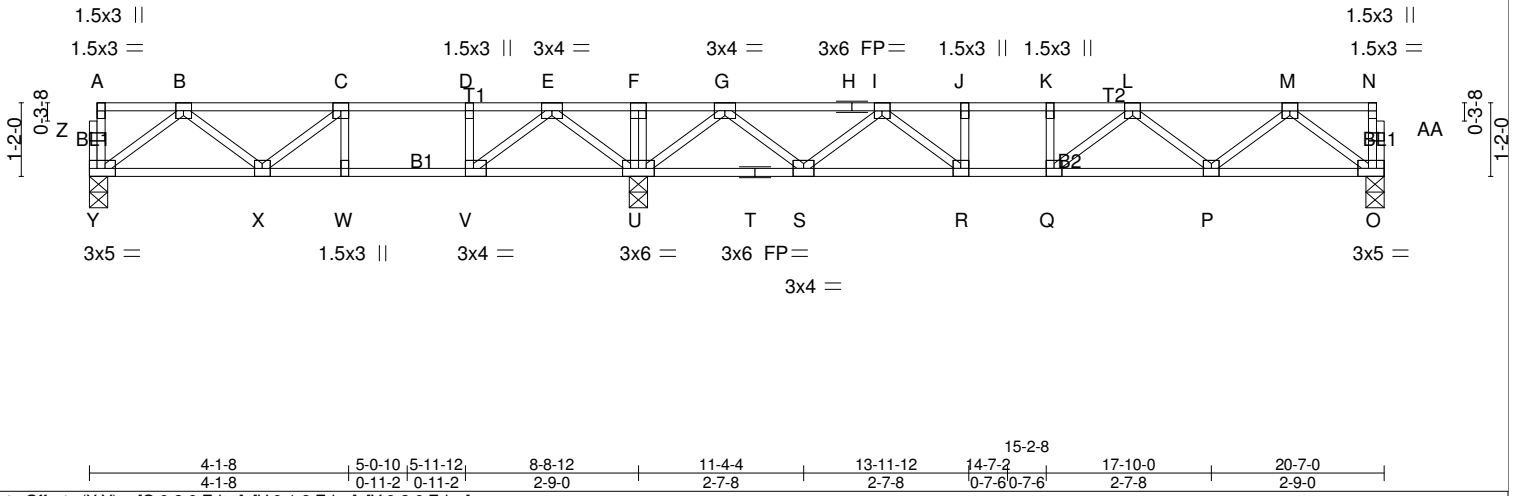


Plate Offsets (X,Y)-- [O:0-2-0,Edge], [V:0-1-8,Edge], [Y:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.85	Vert(LL) -0.08 W-X >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.38	Vert(CT) -0.12 W-X >860 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 O n/a n/a		
	Code IRC2015/TPI2014			Weight: 104 lb	FT = 20%F, 12%E

<b>LUMBER-</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)	<b>BRACING-</b> 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: U-V.
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**REACTIONS.** (lb/size) Y=482/0-3-8 (min. 0-1-8), U=1443/0-3-8 (min. 0-1-8), O=704/0-3-8 (min. 0-1-8)  
 Max Grav Y=529(LC 3), U=1443(LC 1), O=717(LC 7)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD Y-Z=-26/0, A-Z=-26/0, O-AA=-43/0, N-AA=-43/0, A-B=-2/0, B-C=-875/0, C-D=-997/0, D-E=-997/0, E-F=0/771, F-G=0/771, G-H=-1120/0, H-I=-1120/0, I-J=-1908/0, J-K=-1908/0, K-L=-1908/0, L-M=-1358/0, M-N=-3/0  
 BOT CHORD X-Y=0/654, W-X=0/997, V-W=0/997, U-V=-275/475, T-U=0/549, S-T=0/549, R-S=0/1655, Q-R=0/1908, P-Q=0/1795, O-P=0/880  
 WEBS F-U=-175/0, B-Y=-819/0, E-U=-890/0, B-X=0/288, E-V=0/798, C-X=-156/129, C-W=-169/0, D-V=-359/0, M-O=-1101/0, G-U=-1250/0, M-P=0/623, G-S=0/784, L-P=-568/0, I-S=-754/0, L-Q=-50/302, I-R=0/478, J-R=-218/0, K-Q=-147/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x3 MT20 unless otherwise indicated.
  - 3) 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.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

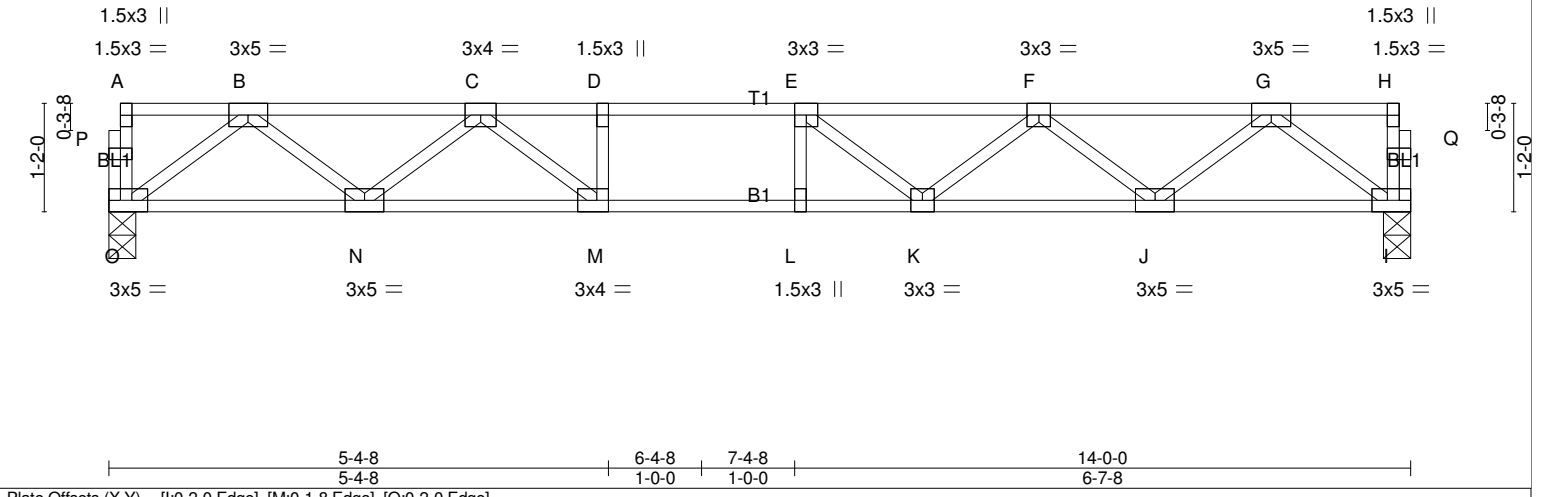
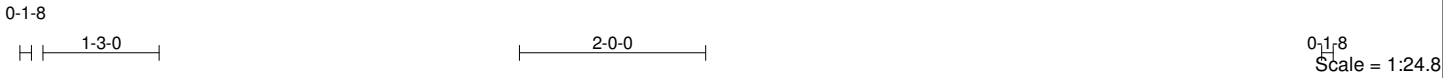


Plate Offsets (X,Y)-- [I:0-2-0,Edge], [M:0-1-8,Edge], [O:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.74	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.96	Vert(LL) -0.16 K-L >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.43	Vert(CT) -0.26 K-L >642 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 l n/a n/a		
	Code IRC2015/TPI2014			Weight: 70 lb	FT = 20%F, 12%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)

**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: 2-2-0 oc bracing: L-M.

**REACTIONS.** (lb/size) O=886/0-3-8 (min. 0-1-8), I=886/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD O-P=-41/0, A-P=-41/0, I-Q=-50/0, H-Q=-50/0, A-B=-2/0, B-C=-1763/0, C-D=-2882/0, D-E=-2882/0, E-F=-2710/0, F-G=-1786/0, G-H=-3/0  
BOT CHORD N-O=0/1099, M-N=0/2427, L-M=0/2882, K-L=0/2882, J-K=0/2454, I-J=0/1091  
WEBS G-I=-1365/0, B-O=-1376/0, G-J=0/904, B-N=0/864, F-J=-870/0, C-N=-864/0, F-K=0/413, C-M=0/757, E-K=-433/5, D-M=-312/0, E-L=-177/56

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) 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.  
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

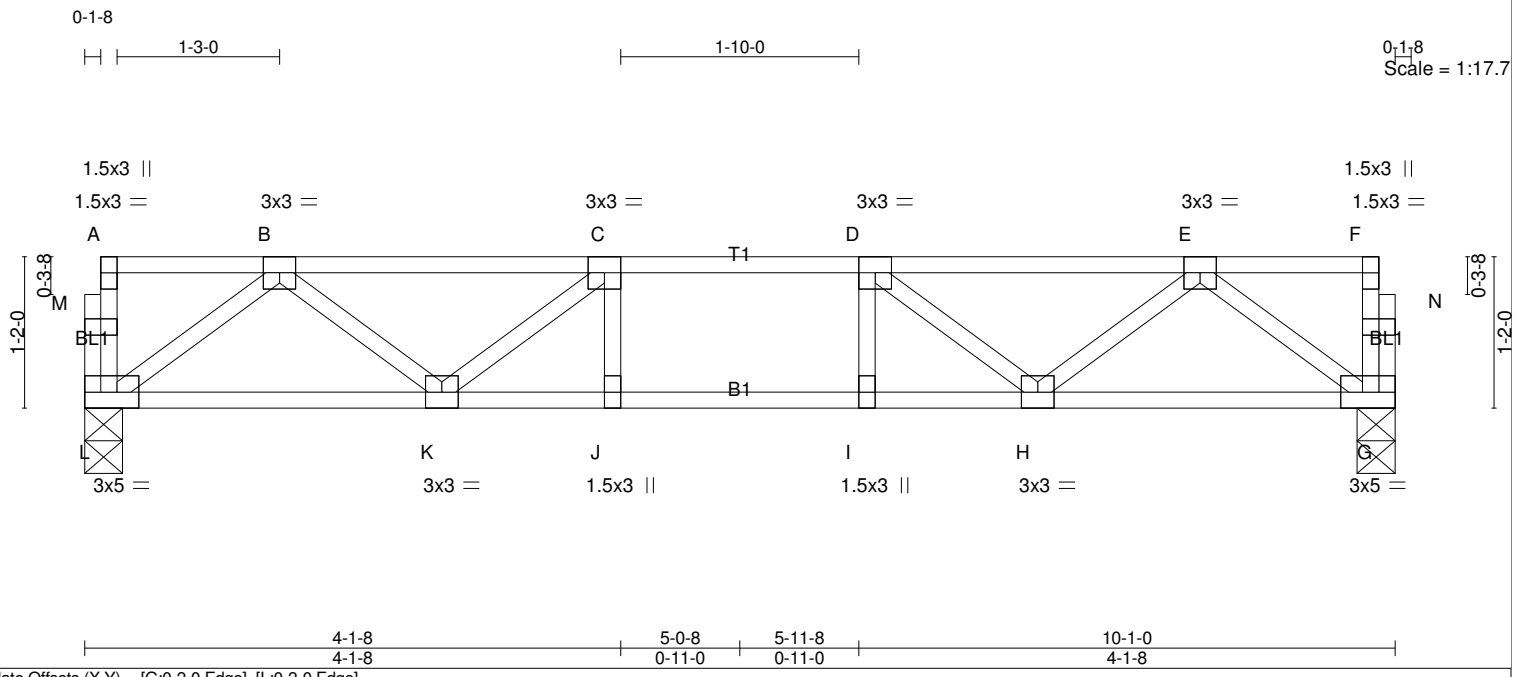


Plate Offsets (X,Y)-- [G:0-2-0,Edge], [L:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.38	Vert(LL) -0.06 J-K >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.08 J >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.02 G n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 51 lb FT = 20%F, 12%E

<b>LUMBER-</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)	<b>BRACING-</b> 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.
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**REACTIONS.** (lb/size) L=632/0-3-8 (min. 0-1-8), G=632/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD L-M=-38/0, A-M=-38/0, G-N=-38/0, F-N=-38/0, A-B=-2/0, B-C=-1138/0, C-D=-1493/0, D-E=-1138/0, E-F=-2/0  
BOT CHORD K-L=0/770, J-K=0/1493, I-J=0/1493, H-I=0/1493, G-H=0/770  
WEBS E-G=-963/0, B-L=-963/0, E-H=0/479, B-K=0/479, D-H=-490/0, C-K=-490/0, C-J=-75/100, D-I=-75/100

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) 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.  
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Job Reference (optional)

8,330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:33:05 2020 Page 1  
 ID:wtU0m002CvnP9KkLnVkyYw5y7knd-9WxxxgMFatcPQ?xdLgOM9Rj1SLlogtCC\_rJNevyoGy

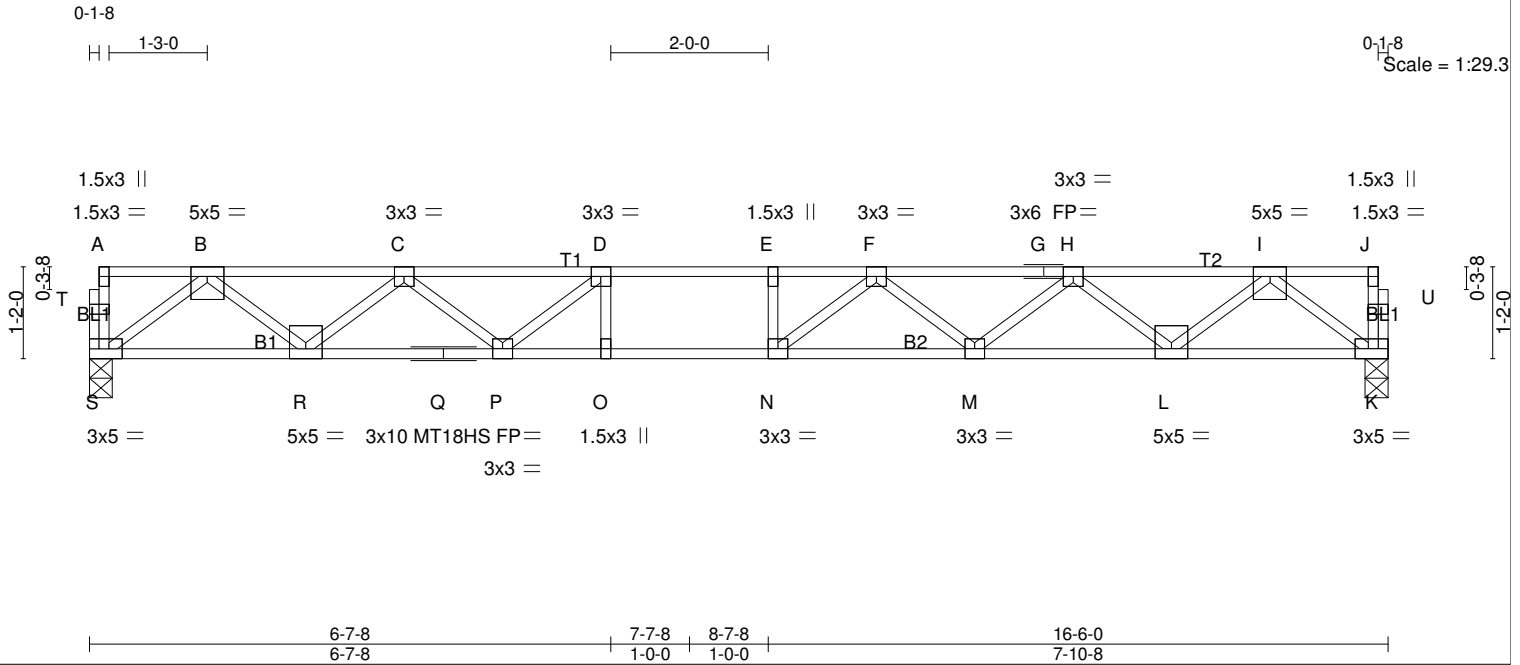


Plate Offsets (X,Y)-- [K:0-2-0,Edge], [S:0-2-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.90	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.68	Vert(LL) -0.24 M-N >818 480	MT18HS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.55	Vert(CT) -0.39 M-N >506 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.06 K n/a n/a		
	Code IRC2015/TPI2014			Weight: 82 lb	FT = 20%F, 12%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP SS(flat)  
 WEBS 2x4 SP No.3(flat)

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

**REACTIONS.** (lb/size) S=1049/0-3-8 (min. 0-1-8), K=1049/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD S-T=48/0, A-T=48/0, K-U=-46/0, J-U=-46/0, A-B=-3/0, B-C=-2191/0, C-D=-3511/0, D-E=-4047/0, E-F=-4047/0, F-G=-3520/0, G-H=-3520/0, H-I=-2189/0, I-J=-3/0  
 BOT CHORD R-S=0/1312, Q-R=0/3030, P-Q=0/3030, O-P=0/4047, N-O=0/4047, M-N=0/3940, L-M=0/3044, K-L=0/1308  
 WEBS I-K=-1637/0, B-S=-1643/0, I-L=0/1147, B-R=0/1144, H-L=-1113/0, C-R=-1092/0, H-M=0/619, C-P=0/669, F-M=-548/0, D-P=-849/0, F-N=-151/493, D-O=-77/224, E-N=-216/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) 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.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job 20071754CS	Truss KW1	Truss Type Floor Supported Gable	Qty 2	Ply 1	MCKEE/WINSTON EURO CRAWLSPACE
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

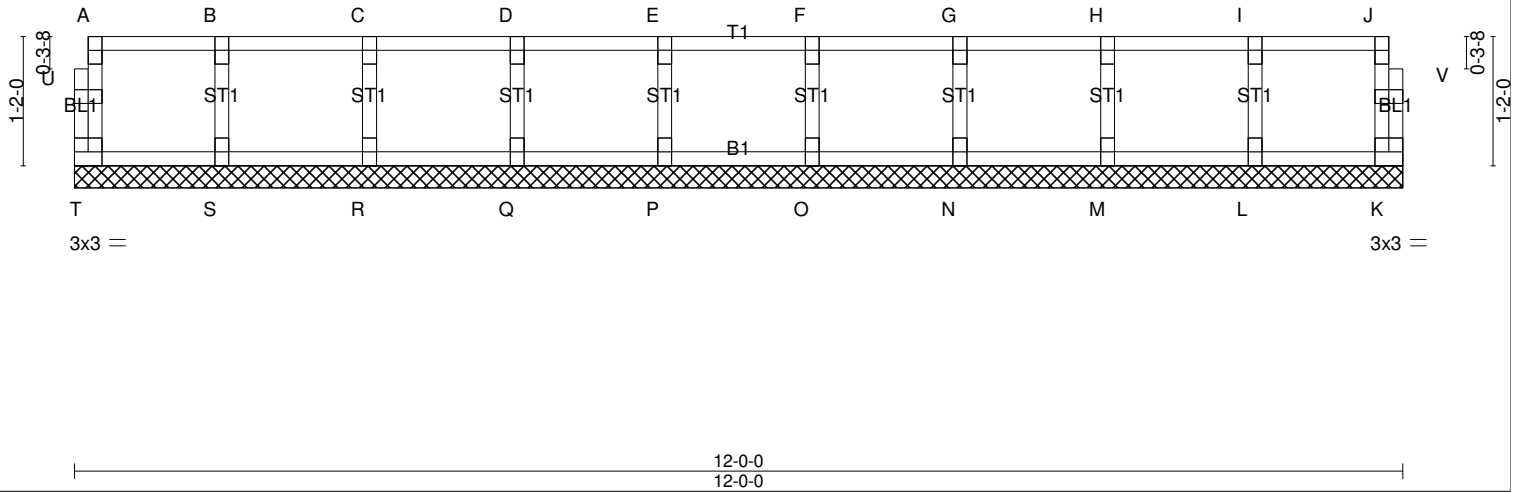
Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:33:10 2020 Page 1  
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0-1-8

0-1-8

Scale = 1:20.8



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/def L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 K n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 51 lb FT = 20%F, 12%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) T=67/12-0-0 (min. 0-1-8), K=67/12-0-0 (min. 0-1-8), S=168/12-0-0 (min. 0-1-8), R=175/12-0-0 (min. 0-1-8), Q=173/12-0-0 (min. 0-1-8), P=173/12-0-0 (min. 0-1-8), O=173/12-0-0 (min. 0-1-8), N=173/12-0-0 (min. 0-1-8), M=175/12-0-0 (min. 0-1-8), L=168/12-0-0 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD T-U=-61/0, A-U=-61/0, K-V=-61/0, J-V=-61/0, A-B=-12/0, B-C=-12/0, C-D=-12/0, D-E=-12/0, E-F=-12/0, F-G=-12/0, G-H=-12/0, H-I=-12/0, I-J=-12/0  
BOT CHORD S-T=0/12, R-S=0/12, Q-R=0/12, P-Q=0/12, O-P=0/12, N-O=0/12, M-N=0/12, L-M=0/12, K-L=0/12  
WEBS B-S=-156/0, C-R=-161/0, D-Q=-160/0, E-P=-160/0, F-O=-160/0, G-N=-160/0, H-M=-161/0, I-L=-156/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 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.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job 20071754CS	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	MCKEE/WINSTON EURO CRAWLSPACE
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

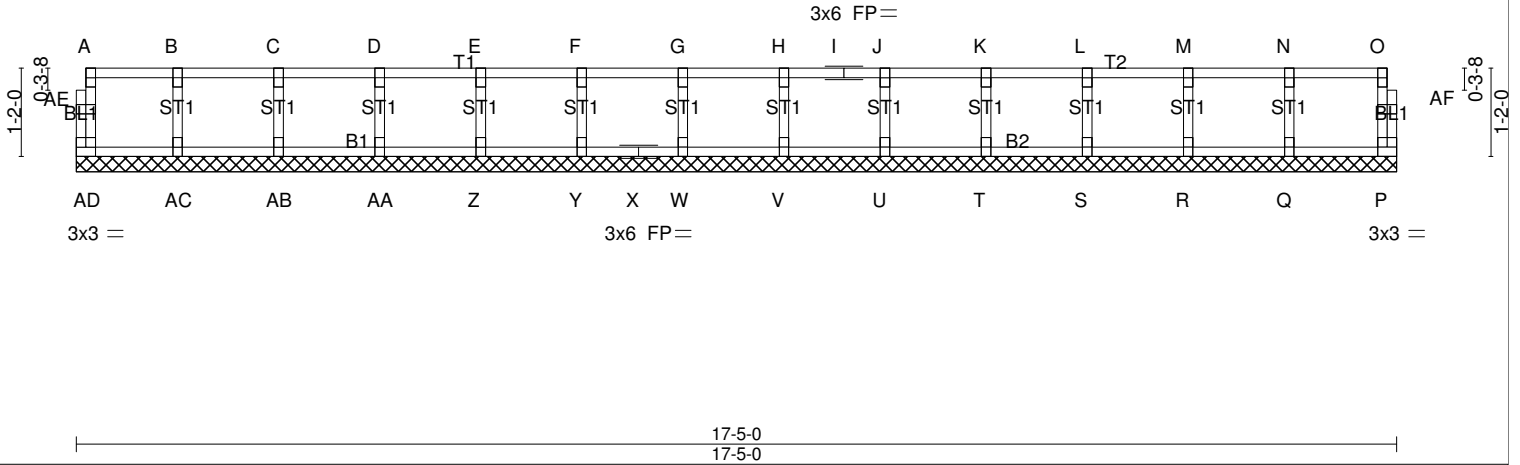
Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:33:15 2020 Page 1  
ID:wtU0m002CvnP9KkLnVkyW5y7knd-tSYj25UXDyt\_cXiYwmZiZyYjYnKb0WfgHPkv\_KyoGyo

0-1-8

0-1-8

Scale = 1:30.4



<b>LOADING</b> (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	<b>CSI.</b> TC 0.09 BC 0.01 WB 0.04 Matrix-R	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 P n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 73 lb FT = 20%F, 12%E
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)	<b>BRACING-</b> 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.
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**REACTIONS.** (lb/size) AD=68/17-5-0 (min. 0-1-8), P=72/17-5-0 (min. 0-1-8), AC=167/17-5-0 (min. 0-1-8), AB=175/17-5-0 (min. 0-1-8), AA=173/17-5-0 (min. 0-1-8), Z=173/17-5-0 (min. 0-1-8), Y=173/17-5-0 (min. 0-1-8), W=173/17-5-0 (min. 0-1-8), V=173/17-5-0 (min. 0-1-8), U=173/17-5-0 (min. 0-1-8), T=173/17-5-0 (min. 0-1-8), S=173/17-5-0 (min. 0-1-8), R=173/17-5-0 (min. 0-1-8), Q=176/17-5-0 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD AD-AE=-62/0, A-AE=-61/0, P-AF=-67/0, O-AF=-66/0, A-B=-13/0, B-C=-13/0, C-D=-13/0, D-E=-13/0, E-F=-13/0, F-G=-13/0, G-H=-13/0, H-I=-13/0, I-J=-13/0, J-K=-13/0, K-L=-13/0, L-M=-13/0, M-N=-13/0, N-O=-13/0  
BOT CHORD AC-AD=0/13, AB-AC=0/13, AA-AB=0/13, Z-AA=0/13, Y-Z=0/13, X-Y=0/13, W-X=0/13, V-W=0/13, U-V=0/13, T-U=0/13, S-T=0/13, R-S=0/13, Q-R=0/13, P-Q=0/13  
WEBS B-AC=-155/0, C-AB=-161/0, D-AA=-160/0, E-Z=-160/0, F-Y=-160/0, G-W=-160/0, H-V=-160/0, J-U=-160/0, K-T=-160/0, L-S=-160/0, M-R=-160/0, N-Q=-162/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 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.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

Job 20071754CS	Truss KW3	Truss Type Floor Supported Gable	Qty 1	Ply 1	MCKEE/WINSTON EURO CRAWLSPACE
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

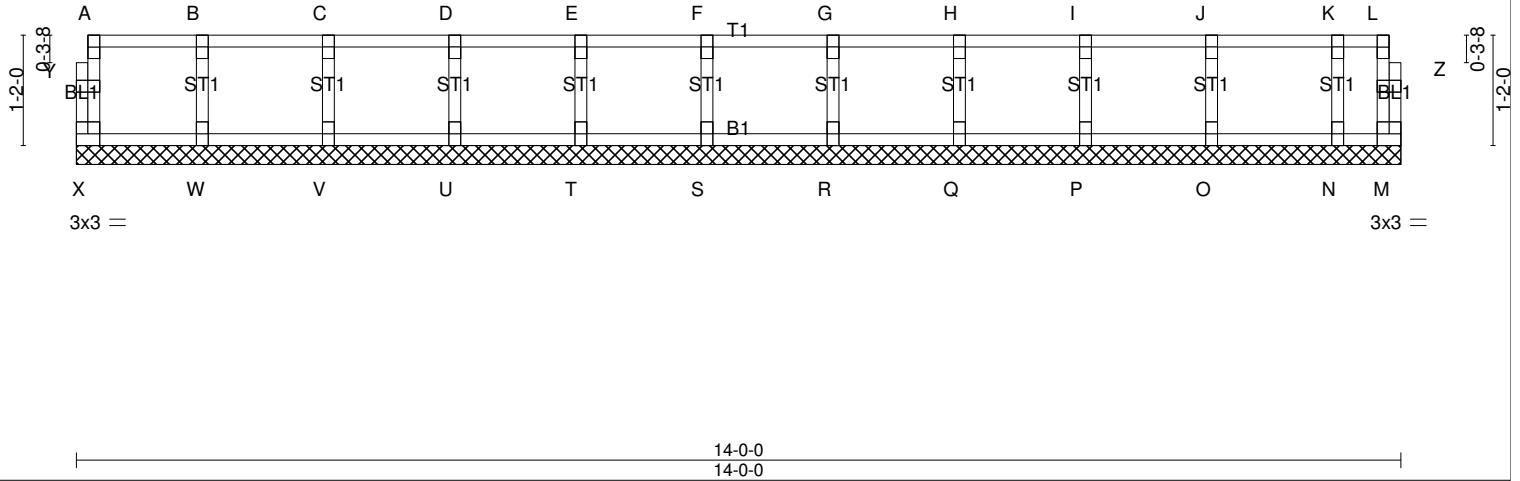
Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:33:18 2020 Page 1  
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0-1-8

0-1-8

Scale = 1:24.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 M n/a n/a		
	Code IRC2015/TPI2014			Weight: 60 lb	FT = 20%F, 12%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) X=62/14-0-0 (min. 0-1-8), M=19/14-0-0 (min. 0-1-8), W=175/14-0-0 (min. 0-1-8), V=173/14-0-0 (min. 0-1-8), U=173/14-0-0 (min. 0-1-8), T=173/14-0-0 (min. 0-1-8), S=173/14-0-0 (min. 0-1-8), R=173/14-0-0 (min. 0-1-8), Q=174/14-0-0 (min. 0-1-8), P=171/14-0-0 (min. 0-1-8), O=181/14-0-0 (min. 0-1-8), N=125/14-0-0 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD X-Y=-59/0, A-Y=-58/0, M-Z=-10/0, L-Z=-9/0, A-B=-7/0, B-C=-7/0, C-D=-7/0, D-E=-7/0, E-F=-7/0, F-G=-7/0, G-H=-7/0, H-I=-7/0, I-J=-7/0, J-K=-7/0, K-L=-7/0  
BOT CHORD W-X=0/7, V-W=0/7, U-V=0/7, T-U=0/7, S-T=0/7, R-S=0/7, Q-R=0/7, P-Q=0/7, O-P=0/7, N-O=0/7, M-N=0/7  
WEBS B-W=-159/0, C-V=-161/0, D-U=-160/0, E-T=-160/0, F-S=-160/0, G-R=-160/0, H-Q=-160/0, I-P=-158/0, J-O=-166/0, K-N=-123/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 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.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

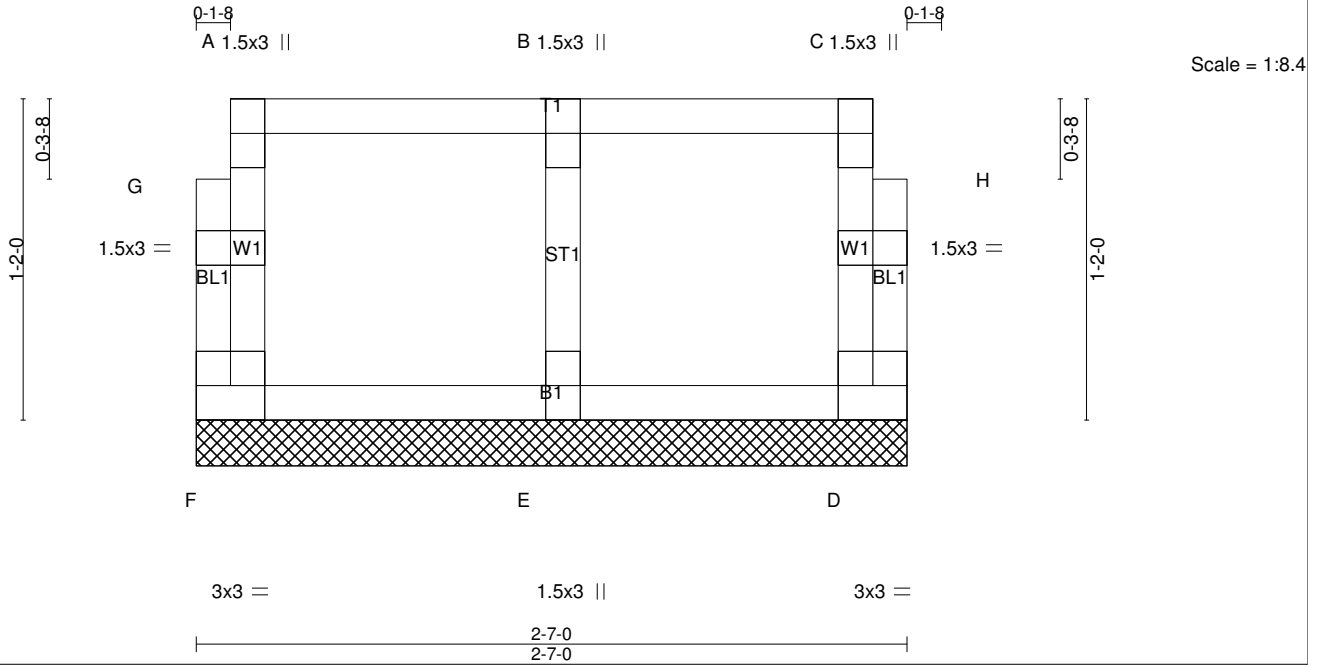
**LOAD CASE(S)** Standard

Job 20071754CS	Truss KW4	Truss Type Floor Supported Gable	Qty 1	Ply 1	MCKEE/WINSTON EURO CRAWLSPACE
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8,330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 12:33:22 2020 Page 1  
ID:wtU0m002Cvnp9KkLnVkyW5y7knd-9oTNWUZwa5m\_yckuqkBML1W85BjB9hSiu?wnkQyoGyh



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.07	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 D n/a n/a		
	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%F, 12%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) F=70/2-7-0 (min. 0-1-8), D=64/2-7-0 (min. 0-1-8), E=155/2-7-0 (min. 0-1-8)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD F-G=-64/0, A-G=-63/0, D-H=-58/0, C-H=-57/0, A-B=-13/0, B-C=-13/0  
 BOT CHORD E-F=0/13, D-E=0/13  
 WEBS B-E=-145/0

- NOTES-**
- 1) Gable requires continuous bottom chord bearing.
  - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 3) Gable studs spaced at 1-4-0 oc.
  - 4) 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.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard