

Job 20070595CS	Truss FG1	Truss Type Floor Girder	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:19 2020 Page 1
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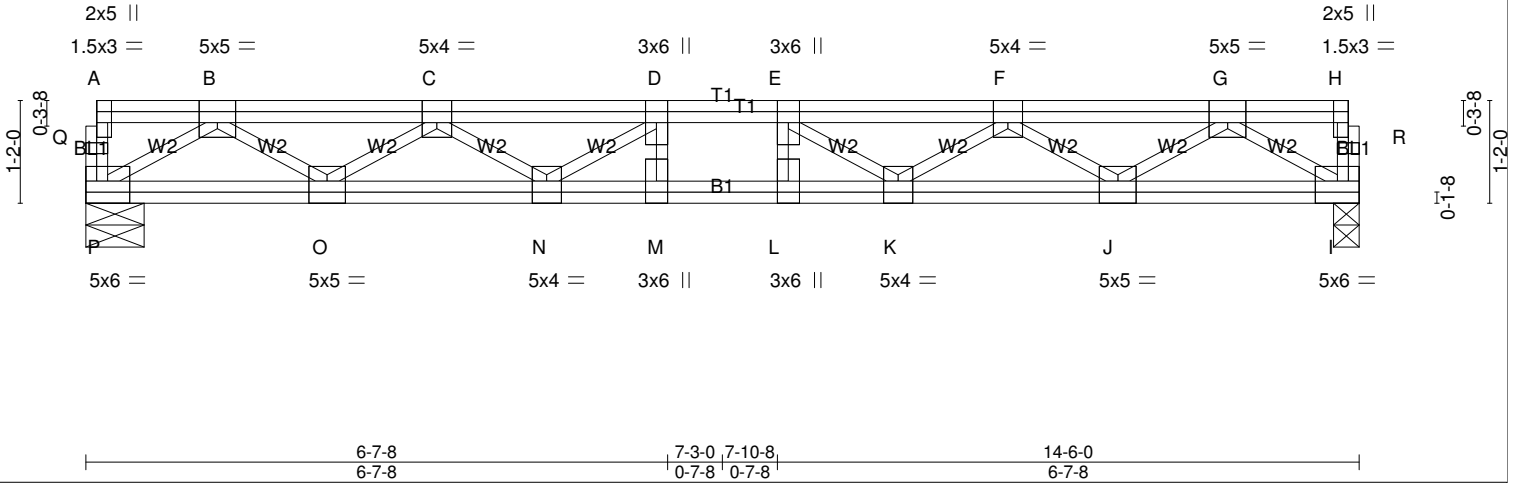
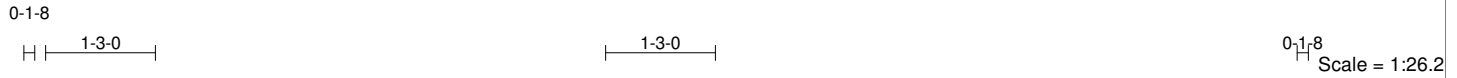


Plate Offsets (X,Y)-- [B:0-2-8,Edge], [C:0-2-0,Edge], [F:0-2-0,Edge], [G:0-2-8,Edge], [H:0-3-0,Edge], [I:Edge,0-3-0], [J:0-2-8,Edge], [K:0-2-0,Edge], [L:0-3-0,Edge], [N:0-2-0,Edge], [O:0-2-8,Edge], [P:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.74	Vert(LL) -0.12 L-M >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.56	Vert(CT) -0.20 L-M >859 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 l n/a n/a		
	Code IRC2015/TPI2014			Weight: 112 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) P=1201/0-8-0 (min. 0-1-8), I=1201/0-3-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD P-Q=-74/0, A-Q=-74/0, I-R=-74/0, H-R=-74/0, A-B=0/0, B-C=-2653/0, C-D=-4133/0, D-E=-4565/0, E-F=-4133/0, F-G=-2653/0, G-H=0/0
BOT CHORD O-P=0/1702, N-O=0/3690, M-N=0/4565, L-M=0/4565, K-L=0/4565, J-K=0/3690, I-J=0/1702
WEBS B-P=-1985/0, B-O=0/1183, C-O=-1286/0, C-N=0/626, D-N=-727/0, D-M=-163/177, G-I=-1985/0, G-J=0/1183, F-J=-1286/0, F-K=0/626, E-K=-727/0, E-L=-163/177

- 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-P=-10, A-H=-160(F=-40)

Job 20070595CS	Truss FG1A	Truss Type Floor Girder	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:21 2020 Page 1
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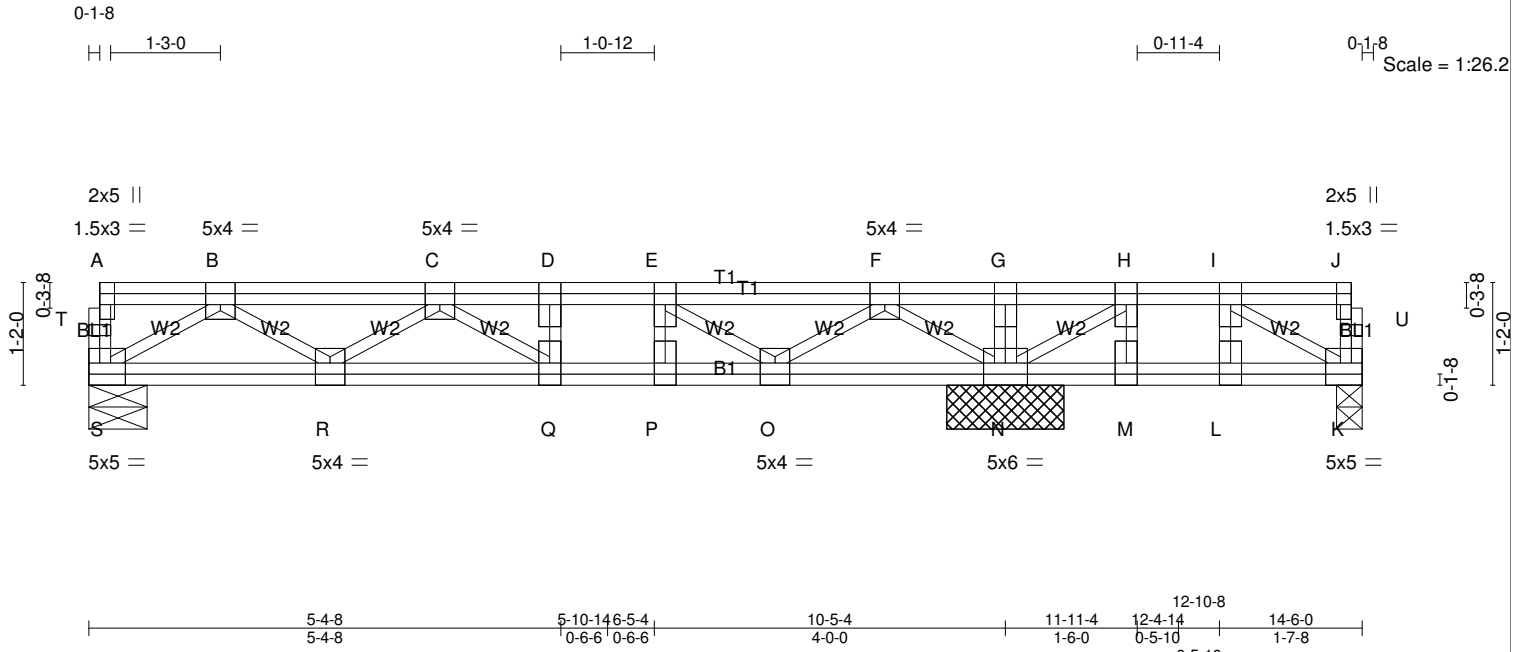


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [C:0-2-0,Edge], [F:0-2-0,Edge], [J:0-3-0,Edge], [K:0-2-0,Edge], [L:0-3-0-0-0-0], [N:0-3-0,Edge], [O:0-2-0,Edge], [P:0-3-0-0-0-0], [R:0-2-0,Edge], [S:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.31	Vert(LL) -0.03 Q >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.33	Vert(CT) -0.04 Q-R >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 N n/a n/a		
	Code IRC2015/TPI2014			Weight: 114 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
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 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) S=597/0-8-0 (min. 0-1-8), K=70/0-3-8 (min. 0-1-8), N=1169/1-4-0 (min. 0-1-8)
Max Uplift K=80(LC 3)
Max Grav S=601(LC 10), K=177(LC 4), N=1169(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD S-T=49/0, A-T=49/0, K-U=111/0, J-U=111/0, A-B=0/0, B-C=-1159/0, C-D=-1407/0, D-E=-1407/0, E-F=-812/0, F-G=0/719, G-H=0/719, H-I=-97/269, I-J=0/0
BOT CHORD R-S=0/829, Q-R=0/1492, P-Q=0/1407, O-P=0/1407, N-O=0/267, M-N=-269/97, L-M=-269/97, K-L=-268/100
WEBS G-N=-163/0, B-S=-967/0, F-N=-1135/0, B-R=0/411, F-O=0/685, C-R=-413/0, E-O=-741/0, C-Q=-222/124, D-Q=-39/42, E-P=-10/139, I-K=-112/311, H-N=-680/0, H-M=0/131, I-L=-115/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x6 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint K.
 - 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.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 20070595CS	Truss FG2	Truss Type Floor Girder	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:22 2020 Page 1
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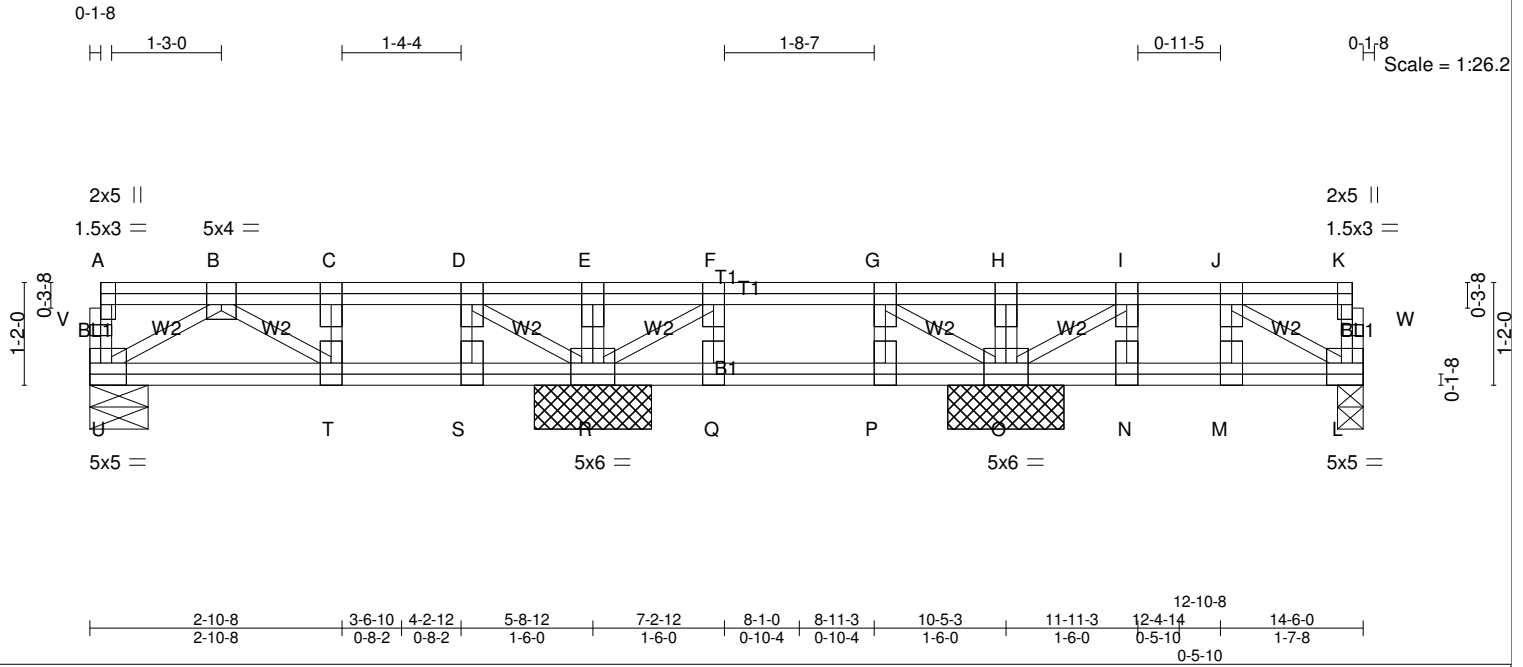


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [K:0-3-0,Edge], [L:0-2-0,Edge], [M:0-3-0,0-0-0], [O:0-3-0,Edge], [P:0-3-0,0-0-0], [R:0-3-0,Edge], [S:0-3-0,Edge], [U:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.13	Vert(LL) -0.01 T >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.14	Vert(CT) -0.01 T-U >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.00 L n/a n/a		
	Code IRC2015/TPI2014			Weight: 114 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) U=344/0-8-0 (min. 0-1-8), L=224/0-3-8 (min. 0-1-8), R=678/1-4-0 (min. 0-1-8), O=591/1-3-14 (min. 0-1-8)
Max Grav U=353(LC 5), L=237(LC 5), R=679(LC 16), O=591(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD U-V=-62/0, A-V=-62/0, L-W=-81/0, K-W=-81/0, A-B=0/0, B-C=-465/0, C-D=-465/0, D-E=0/92, E-F=0/92, F-G=-269/0, G-H=0/90, H-I=0/90, I-J=-221/0, J-K=0/0
BOT CHORD T-U=0/413, S-T=0/465, R-S=0/465, Q-R=0/269, P-Q=0/269, O-P=0/269, N-O=0/221, M-N=0/221, L-M=0/223
WEBS E-R=-171/0, H-O=-190/0, B-U=480/0, D-R=-585/0, B-T=-1/92, C-T=-79/0, D-S=0/74, G-O=-384/0, F-R=-373/0, F-Q=-10/11, G-P=-3/18, J-L=-255/0, I-O=-324/0, I-N=-1/36, J-M=-42/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 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 20070595CS	Truss FG3	Truss Type Floor Girder	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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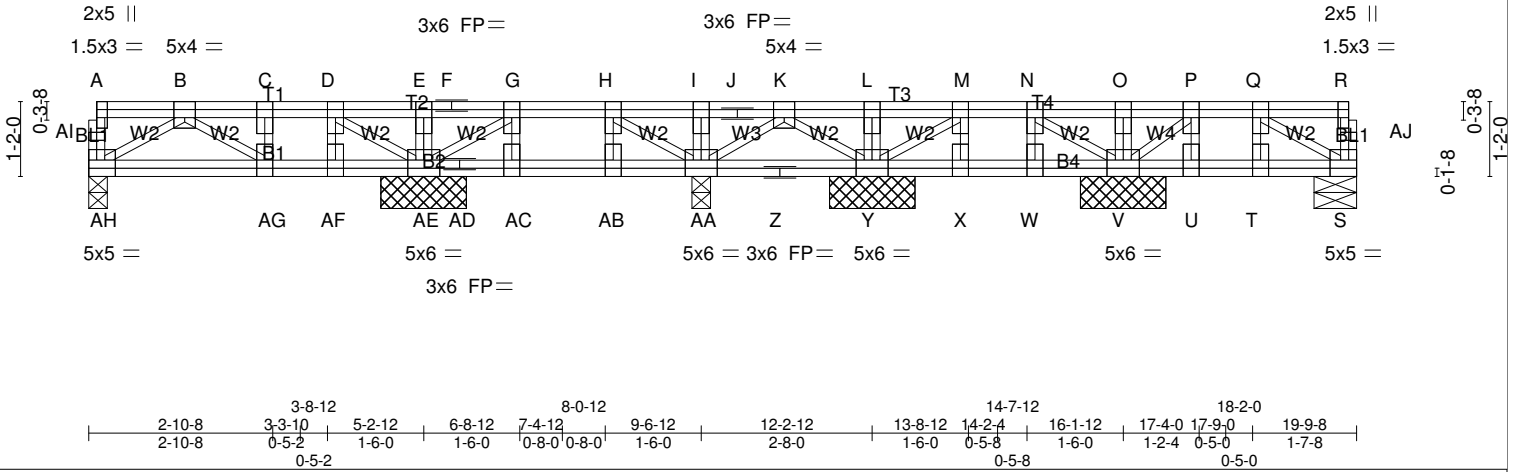
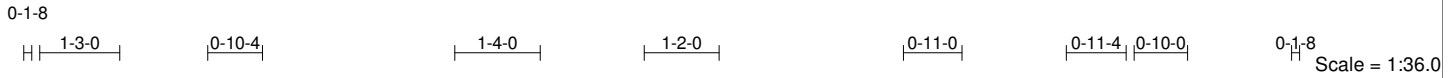


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [K:0-2-0,Edge], [R:0-3-0,Edge], [S:0-2-0,Edge], [T:0-3-0,0-0-0], [V:0-3-0,Edge], [W:0-3-0,0-0-0], [Y:0-3-0,Edge], [AA:0-3-0,Edge], [AB:0-3-0,0-0-0], [AE:0-3-0,Edge], [AF:0-3-0,Edge], [AH:0-2-0,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.10	Vert(LL) -0.01 AG >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.12	Vert(CT) -0.01 AG-AH >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.00 S n/a n/a		
	Code IRC2015/TPI2014			Weight: 159 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, Except:
6-0-0 oc bracing: Y-AA.

REACTIONS. (lb/size) AH=302/0-3-8 (min. 0-1-8), S=202/0-8-0 (min. 0-1-8), AE=632/1-4-0 (min. 0-1-8), AA=468/0-3-8 (min. 0-1-8), Y=426/1-4-0 (min. 0-1-8), V=494/1-4-0 (min. 0-1-8)
Max Grav AH=313(LC 4), S=213(LC 4), AE=632(LC 7), AA=483(LC 18), Y=445(LC 5), V=495(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD AH-AI=-62/0, A-AI=-62/0, S-AJ=-82/0, R-AJ=-82/0, A-B=0/0, B-C=-363/0, C-D=-363/0, D-E=0/105, E-F=0/105, F-G=0/105, G-H=-188/0, H-I=0/130, I-J=0/129, J-K=0/129, K-L=0/96, L-M=0/96, M-N=-167/0, N-O=0/68, O-P=0/65, P-Q=-178/0, Q-R=0/0
BOT CHORD AG-AH=0/356, AF-AG=0/363, AE-AF=0/363, AD-AE=0/188, AC-AD=0/188, AB-AC=0/188, AA-AB=0/188, Z-AA=-79/64, Y-Z=-79/64, X-Y=0/167, W-X=0/167, V-W=0/167, U-V=0/178, T-U=0/178, S-T=0/180
WEBS E-AE=-190/0, I-AA=-191/0, L-Y=-201/0, O-V=-181/0, B-AH=-414/0, D-AE=-500/0, B-AG=-39/42, C-AG=-44/6, D-AF=0/69, G-AE=-311/0, H-AA=-333/0, G-AC=-10/11, H-AB=-3/19, K-Y=-129/1, K-AA=-159/0, N-V=-248/0, M-Y=-284/0, M-X=-4/25, N-W=-19/10, Q-S=-205/0, P-V=-259/0, P-U=0/45, Q-T=-46/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x6 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 20070595CS	Truss FT1	Truss Type Floor	Qty 9	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:25 2020 Page 1
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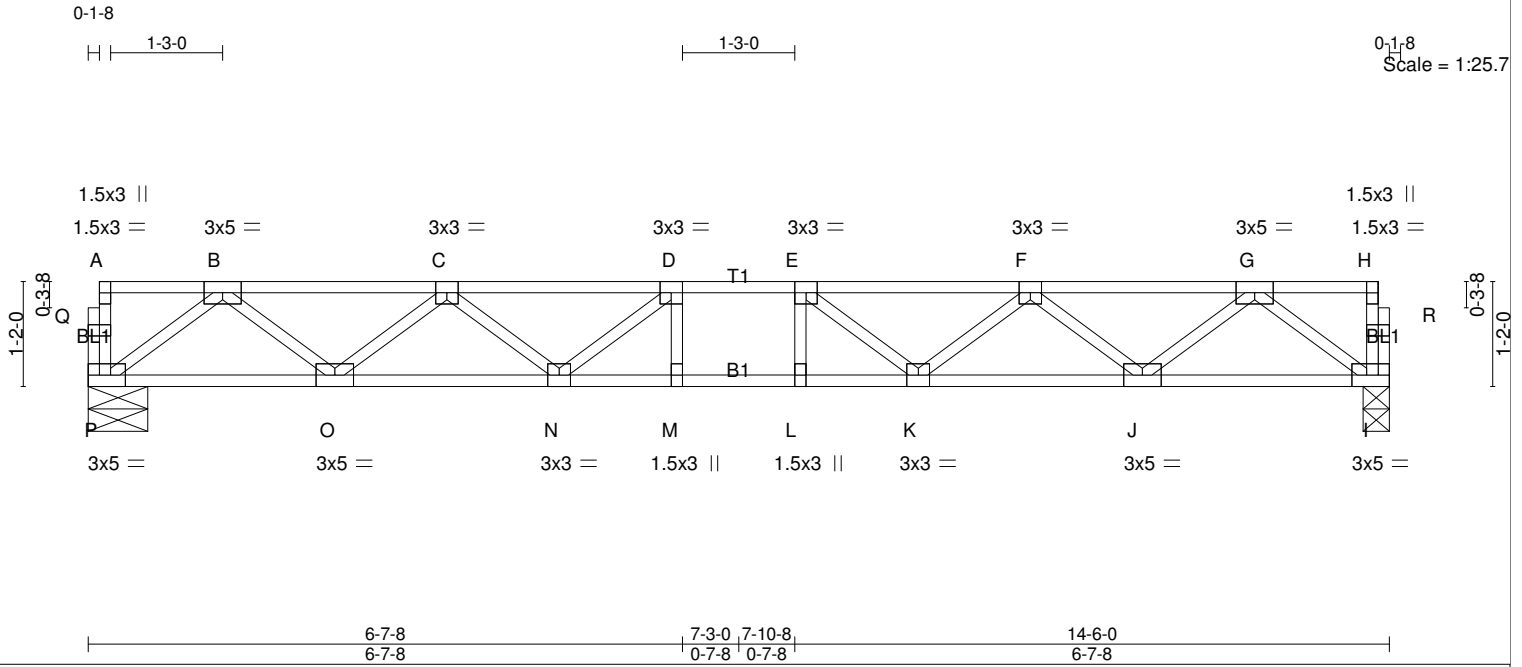


Plate Offsets (X,Y)-- [I:0-2-0,Edge], [P:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.51	Vert(LL)	-0.14	L-M >999	480	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 1.00	Vert(CT)	-0.23	L-M >739	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.05	I n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH						
								Weight: 73 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 2-2-0 oc bracing.

REACTIONS. (lb/size) P=919/0-8-0 (min. 0-1-8), I=919/0-3-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD P-Q=-49/0, A-Q=-49/0, I-R=-49/0, H-R=-49/0, A-B=-3/0, B-C=-1868/0, C-D=-2869/0, D-E=-3164/0, E-F=-2869/0, F-G=-1868/0, G-H=-3/0
BOT CHORD O-P=0/1137, N-O=0/2564, M-N=0/3164, L-M=0/3164, K-L=0/3164, J-K=0/2564, I-J=0/1137
WEBS G-I=-1423/0, B-P=-1423/0, G-J=0/951, B-O=0/951, F-J=-907/0, C-O=907/0, F-K=0/452, C-N=0/452, E-K=-526/0, D-N=-526/0, D-M=-125/147, E-L=-125/147

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 20070595CS	Truss FT2	Truss Type Floor	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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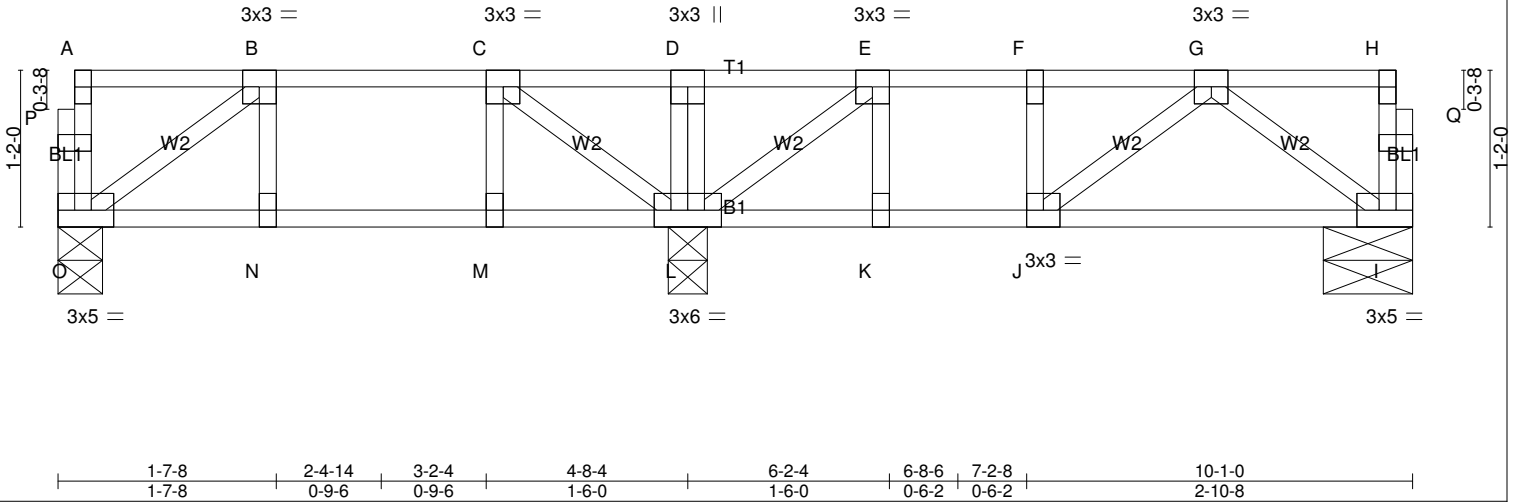


Plate Offsets (X,Y)-- [I:0-2-0,Edge], [O:0-2-0,Edge]
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LOADING (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.23 BC 0.26 WB 0.12 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 I-J >999 480 Vert(CT) -0.03 I-J >999 360 Horz(CT) 0.01 I n/a n/a	PLATES GRIP MT20 244/190 Weight: 54 lb FT = 20%F, 12%E
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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.
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REACTIONS. (lb/size) O=293/0-4-0 (min. 0-1-8), I=339/0-8-0 (min. 0-1-8), L=632/0-3-8 (min. 0-1-8)
Max Grav O=299(LC 10), I=351(LC 7), L=639(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD O-P=-65/0, A-P=-65/0, I-Q=-59/0, H-Q=-59/0, A-B=-4/0, B-C=-328/0, C-D=-88/24, D-E=-88/24, E-F=-455/0, F-G=-455/0, G-H=-4/0
BOT CHORD N-O=0/328, M-N=0/328, L-M=0/328, K-L=0/455, J-K=0/455, I-J=0/368
WEBS D-L=-163/0, B-O=401/0, C-L=-367/0, B-N=0/27, C-M=0/23, G-I=-457/0, E-L=-499/0, G-J=0/118, E-K=0/69, F-J=-75/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 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

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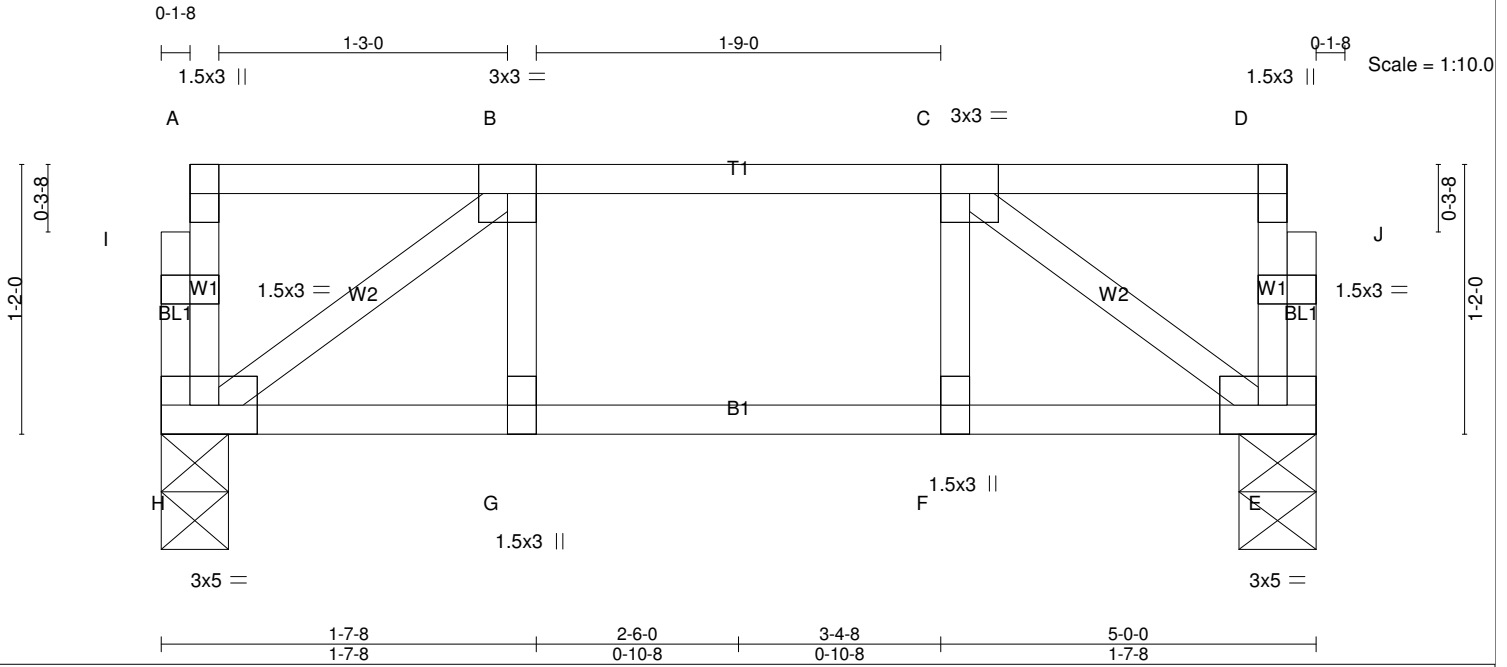


Plate Offsets (X,Y)-- [E:0-2-0,Edge], [H:0-2-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.17	Vert(LL) -0.01 G >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.15	Vert(CT) -0.01 G >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 E n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 27 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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=301/0-3-8 (min. 0-1-8), E=301/0-4-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD H-I=-66/0, A-I=-66/0, E-J=-66/0, D-J=-66/0, A-B=-4/0, B-C=-328/0, C-D=-4/0
BOT CHORD G-H=0/328, F-G=0/328, E-F=0/328
WEBS C-E=-400/0, B-H=400/0, B-G=-2/36, C-F=-2/36

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



0-1-8
Scale = 1:26.0

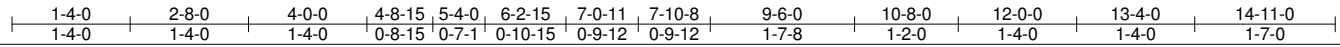
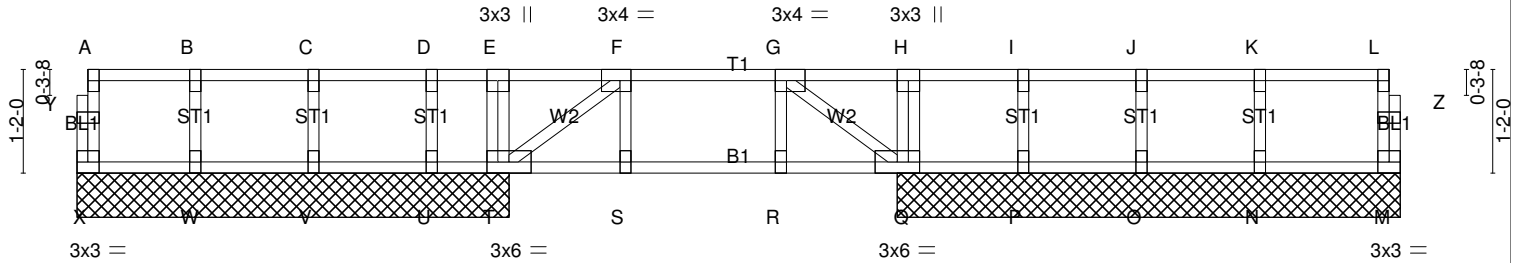


Plate Offsets (X,Y)-- [F:0-1-8,Edge], [G:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.83	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.55	Vert(LL) -0.02 R-S >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.41	Vert(CT) -0.03 R-S >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 M 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.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 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) X=278/4-10-7 (min. 0-2-15), M=350/5-8-0 (min. 0-3-4), Q=1892/5-8-0 (min. 0-3-4), T=1756/4-10-7 (min. 0-2-15), W=859/4-10-7 (min. 0-2-15), V=882/4-10-7 (min. 0-2-15), U=553/4-10-7 (min. 0-2-15), P=800/5-8-0 (min. 0-3-4), O=815/5-8-0 (min. 0-3-4), N=976/5-8-0 (min. 0-3-4)
 Max Grav X=278(LC 1), M=350(LC 4), Q=1892(LC 1), T=1756(LC 1), W=861(LC 3), V=882(LC 1), U=658(LC 3), P=800(LC 1), O=816(LC 4), N=976(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD X-Y=-274/0, A-Y=-273/0, M-Z=-345/0, L-Z=-344/0, A-B=-16/0, B-C=-16/0, C-D=-16/0, D-E=-16/0, E-F=-16/0, F-G=-1421/0, G-H=-21/0, H-I=-21/0, I-J=-21/0, J-K=-21/0, K-L=-21/0
 BOT CHORD W-X=0/16, V-W=0/16, U-V=0/16, T-U=0/16, S-T=0/1421, R-S=0/1421, Q-R=0/1421, P-Q=0/21, O-P=0/21, N-O=0/21, M-N=0/21
 WEBS E-T=-671/0, H-Q=-836/0, G-Q=-1729/0, F-T=-1743/0, F-S=-11/5, G-R=0/13, B-W=-848/0, C-V=-863/0, D-U=-662/0, I-P=-804/0, J-O=-798/0, K-N=-961/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: M-X=-10, A-L=-620

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

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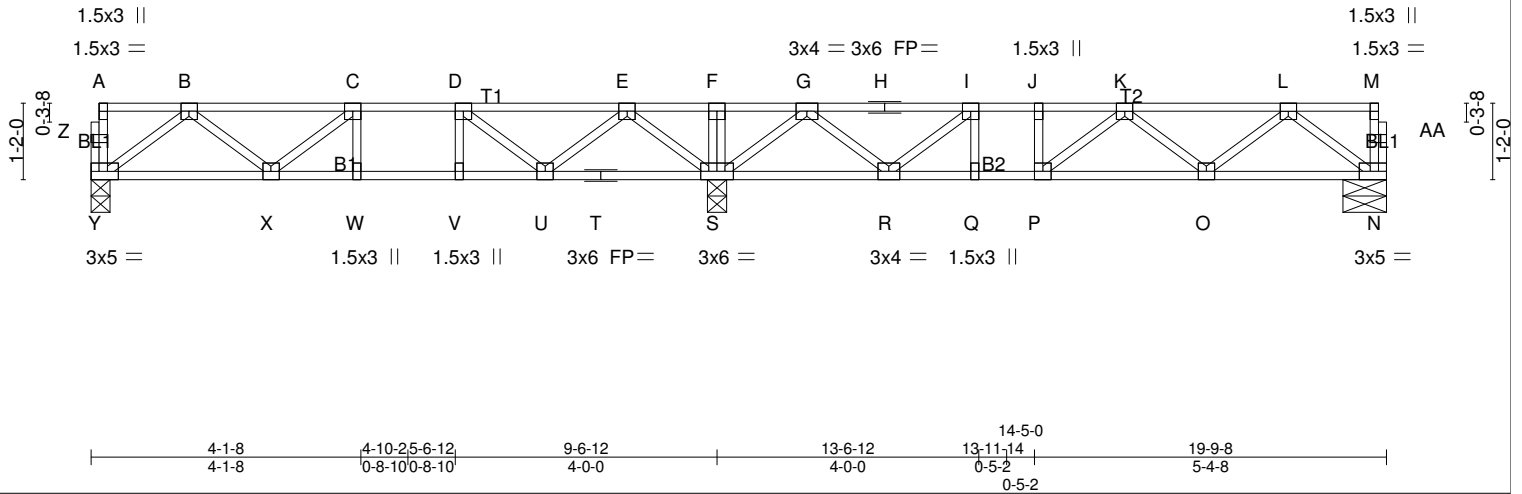


Plate Offsets (X,Y)-- [N:0-2-0,Edge], [Y:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.67	Vert(LL) -0.05 W-X >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.33	Vert(CT) -0.07 O-P >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 N n/a n/a		
	Code IRC2015/TPI2014			Weight: 102 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, Except: 6-0-0 oc bracing: S-U,R-S.

REACTIONS. (lb/size) Y=500/0-3-8 (min. 0-1-8), S=1475/0-3-8 (min. 0-1-8), N=550/0-8-0 (min. 0-1-8)
 Max Grav Y=536(LC 3), S=1475(LC 1), N=581(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD Y-Z=-31/0, A-Z=-31/0, N-AA=43/0, M-AA=43/0, A-B=-2/0, B-C=-894/0, C-D=-1074/0, D-E=-612/81, E-F=0/1031, F-G=0/1031, G-H=-693/11, H-I=-693/11, I-J=-1201/0, J-K=-1201/0, K-L=-1021/0, L-M=-3/0
 BOT CHORD X-Y=0/655, W-X=0/1074, V-W=0/1074, U-V=0/1074, T-U=-318/189, S-T=-318/189, R-S=-253/219, Q-R=0/1201, P-Q=0/1201, O-P=0/1293, N-O=0/701
 WEBS F-S=-125/0, B-Y=-819/0, B-X=0/311, C-X=-230/45, C-W=-151/0, E-S=-1051/0, E-U=0/612, D-U=-682/0, D-V=0/175, L-N=-876/0, G-S=-1132/0, L-O=0/416, G-R=0/688, K-O=-355/0, I-R=-737/0, K-P=-286/22, I-Q=0/156, J-P=0/78

- 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

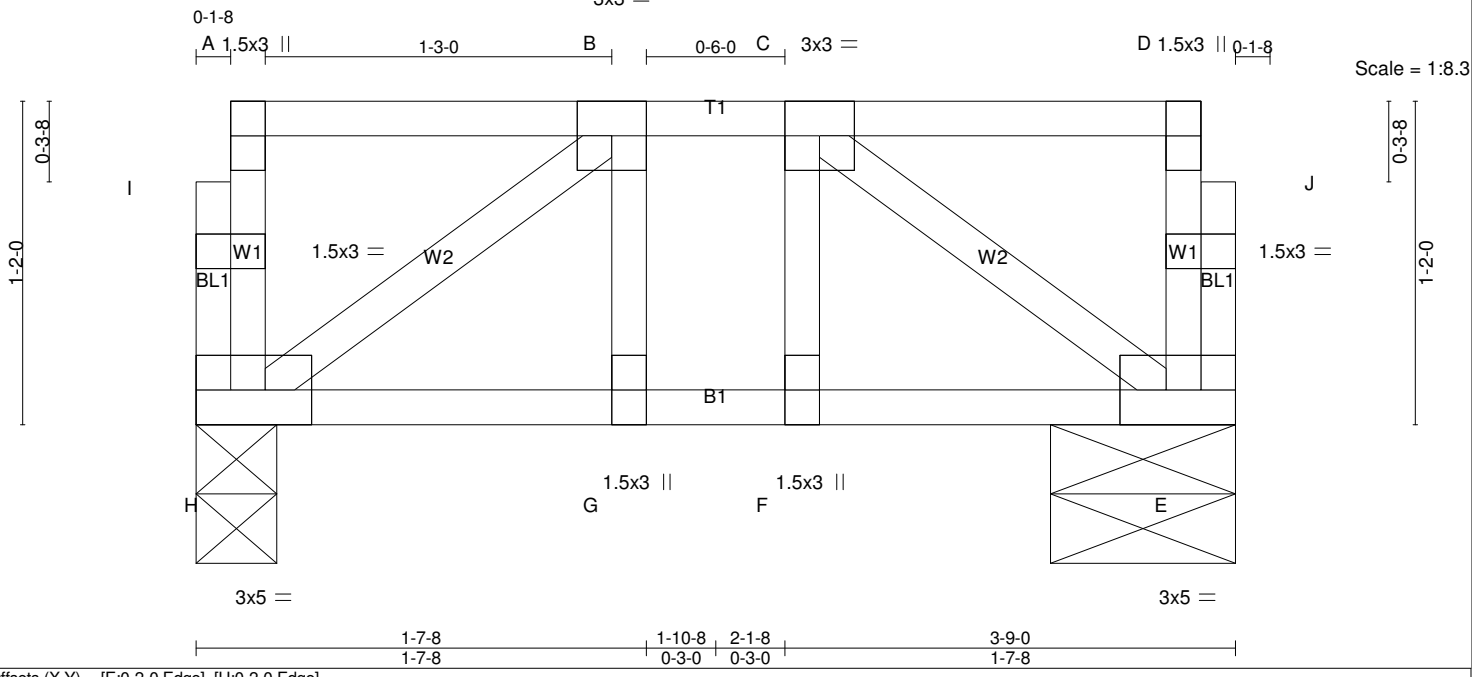


Plate Offsets (X,Y)-- [E:0-2-0,Edge], [H:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.13	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.08	Vert(LL) -0.00 G >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.06	Vert(CT) -0.00 G >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 23 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 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=220/0-3-8 (min. 0-1-8), E=220/0-8-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD H-I=-74/0, A-I=-74/0, E-J=-74/0, D-J=-74/0, A-B=-4/0, B-C=-201/0, C-D=-4/0
BOT CHORD G-H=0/201, F-G=0/201, E-F=0/201
WEBS C-E=-243/0, B-H=-243/0, B-G=-18/39, C-F=-18/39

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 20070595CS	Truss FT7	Truss Type Floor	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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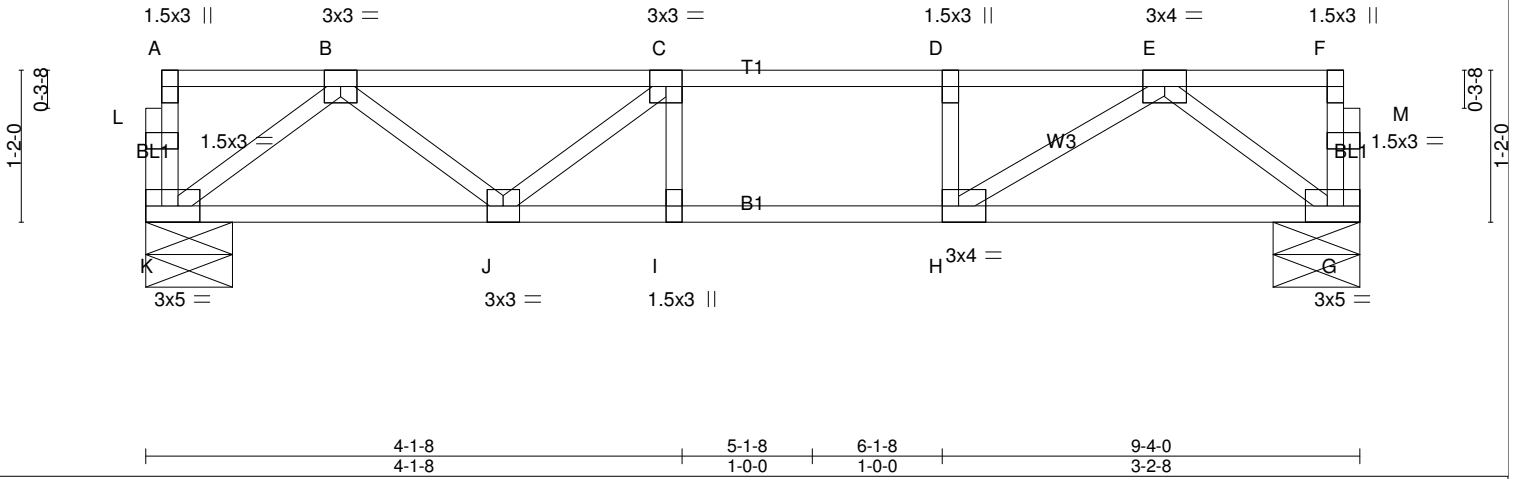
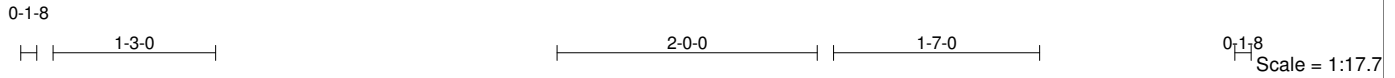


Plate Offsets (X,Y)-- [G:0-2-0,Edge], [H:0-1-8,Edge], [K:0-2-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.55	Vert(LL) -0.08 I-J >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.11 I-J >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.01 G n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 47 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.

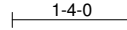
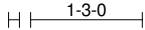
REACTIONS. (lb/size) K=583/0-8-0 (min. 0-1-8), G=583/0-8-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD K-L=-32/0, A-L=-32/0, G-M=-70/0, F-M=-70/0, A-B=-2/0, B-C=-1014/0, C-D=-1243/0, D-E=-1243/0, E-F=-4/0
BOT CHORD J-K=0/717, I-J=0/1243, H-I=0/1243, G-H=0/677
WEBS B-K=-897/0, B-J=0/386, C-J=-352/0, C-I=-108/22, E-G=-844/0, E-H=0/685, D-H=-283/0

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

0-1-8



0-1-8
Scale = 1:25.8

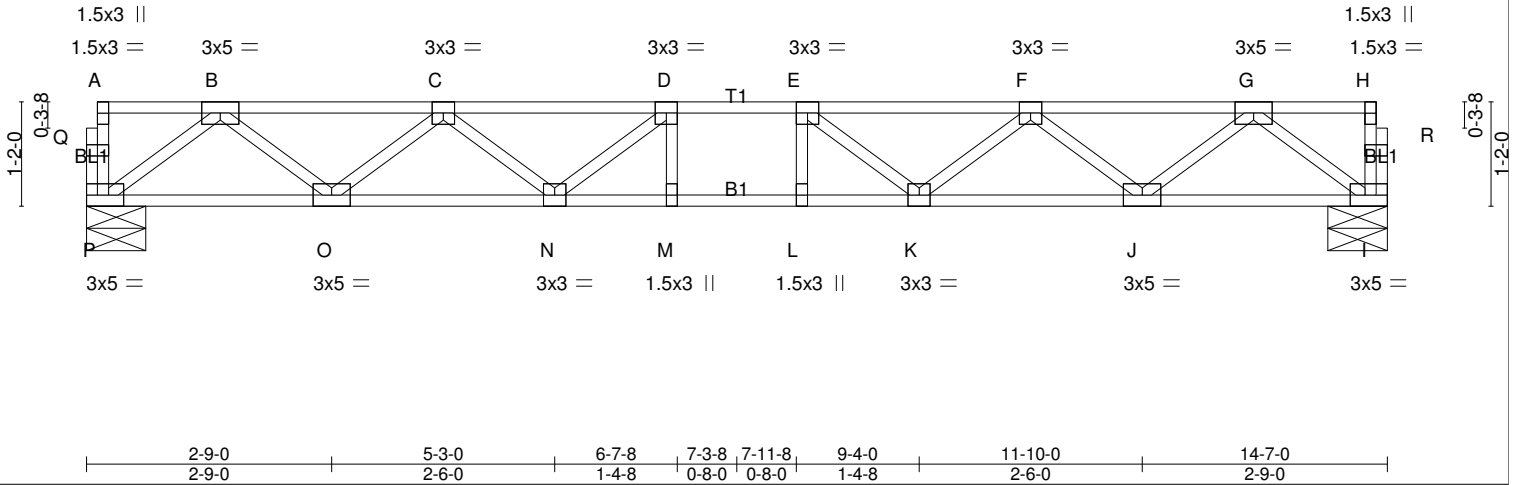


Plate Offsets (X,Y)-- [I:0-2-0,Edge], [P:0-2-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.53	Vert(LL) -0.14 L-M >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.73	Vert(CT) -0.22 L-M >774 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.05 l n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 74 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 2-0-0 oc purlins (6-0-0 max.): A-H, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) P=924/0-8-0 (min. 0-1-8), I=924/0-8-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD P-Q=-48/0, A-Q=-48/0, I-R=-48/0, H-R=-48/0, A-B=-3/0, B-C=-1881/0, C-D=-2894/0, D-E=-3197/0, E-F=-2894/0, F-G=-1881/0, G-H=-3/0
 BOT CHORD O-P=0/1144, N-O=0/2584, M-N=0/3197, L-M=0/3197, K-L=0/3197, J-K=0/2584, I-J=0/1144
 WEBS G-I=-1432/0, B-P=-1432/0, G-J=0/959, B-O=0/959, F-J=-915/0, C-O=-915/0, F-K=0/458, C-N=0/458, E-K=-542/0, D-N=-542/0, D-M=-132/155, E-L=-132/155

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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 20070595CS	Truss FT8A	Truss Type Floor	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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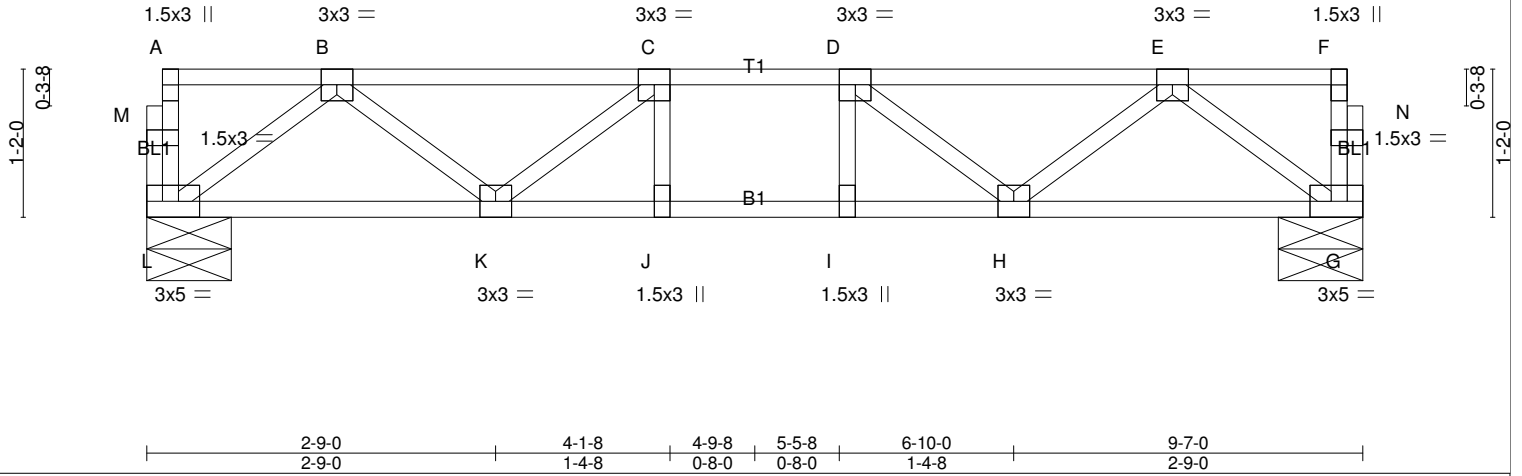
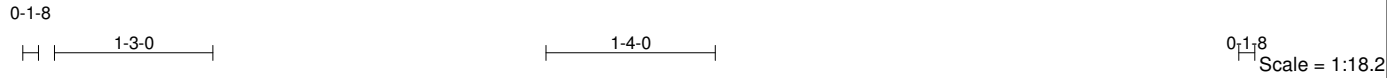


Plate Offsets (X,Y)-- [G:0-2-0,Edge], [L:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.40	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.53	Vert(LL) -0.04 J-K >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.21	Vert(CT) -0.06 J-K >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 G n/a n/a		
	Code IRC2015/TPI2014			Weight: 50 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 2-0-0 oc purlins (6-0-0 max.): A-F, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) L=599/0-8-0 (min. 0-1-8), G=599/0-8-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD L-M=-37/0, A-M=-37/0, G-N=-37/0, F-N=-37/0, A-B=-2/0, B-C=-1054/0, C-D=-1364/0, D-E=-1054/0, E-F=-2/0
BOT CHORD K-L=0/729, J-K=0/1364, I-J=0/1364, H-I=0/1364, G-H=0/729
WEBS E-G=-912/0, B-L=-912/0, E-H=0/424, B-K=0/424, D-H=-420/0, C-K=-420/0, C-J=-80/98, D-I=-80/98

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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 20070595CS	Truss KW1	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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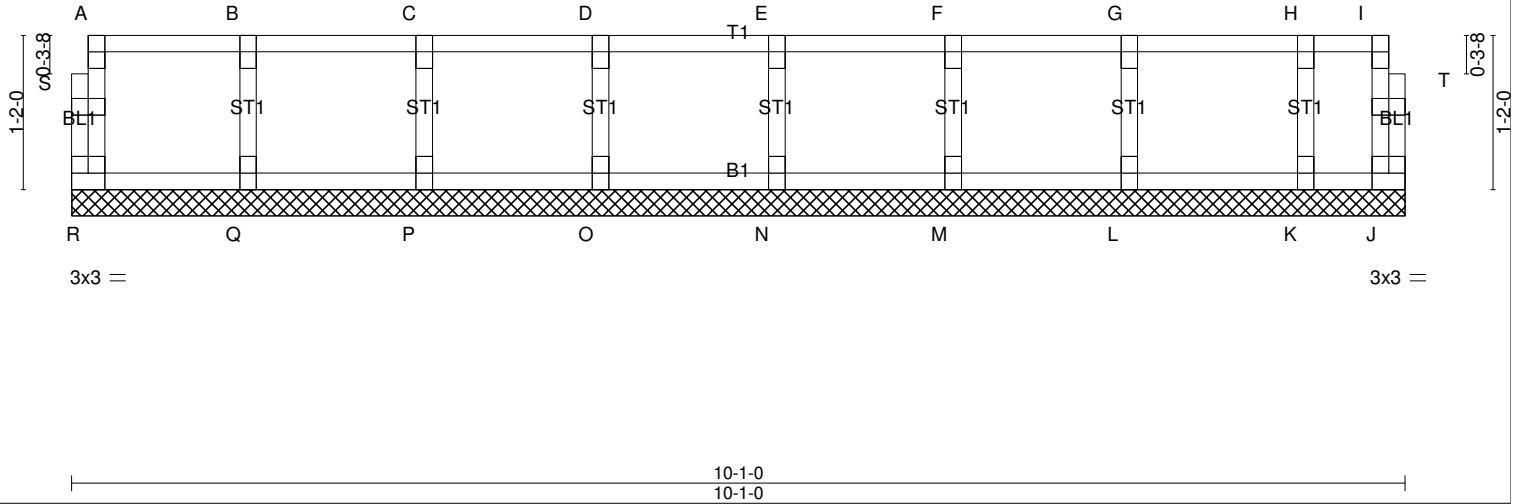
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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0-1-8

0-1-8

Scale = 1:17.4



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 J n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 44 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
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) R=62/10-1-0 (min. 0-1-8), J=26/10-1-0 (min. 0-1-8), Q=174/10-1-0 (min. 0-1-8), P=173/10-1-0 (min. 0-1-8), O=173/10-1-0 (min. 0-1-8), N=174/10-1-0 (min. 0-1-8), M=171/10-1-0 (min. 0-1-8), L=181/10-1-0 (min. 0-1-8), K=129/10-1-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD R-S=-59/0, A-S=-58/0, J-T=-18/0, I-T=-17/0, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0, E-F=-8/0, F-G=-8/0, G-H=-8/0, H-I=-8/0
BOT CHORD Q-R=0/8, P-Q=0/8, O-P=0/8, N-O=0/8, M-N=0/8, L-M=0/8, K-L=0/8, J-K=0/8
WEBS B-Q=-159/0, C-P=-161/0, D-O=-160/0, E-N=-160/0, F-M=-158/0, G-L=-166/0, H-K=-125/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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) Non Standard bearing condition. Review required.
 - 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 20070595CS	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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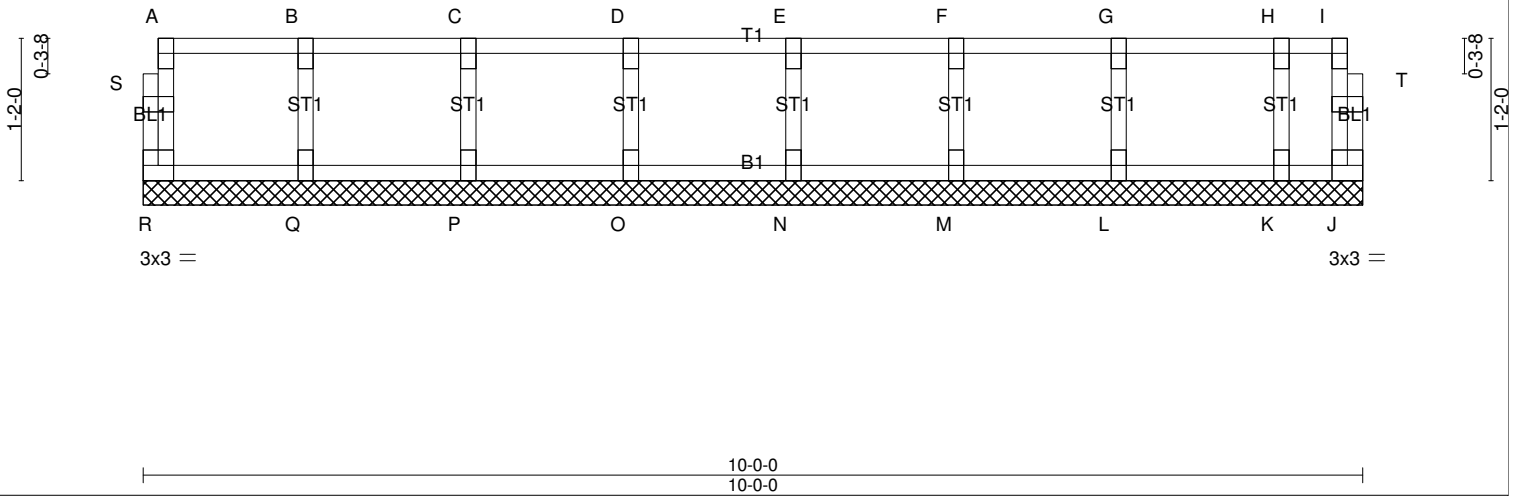
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:38 2020 Page 1
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0-1-8

0-1-8

Scale = 1:18.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 J n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
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) R=62/10-0-0 (min. 0-1-8), J=19/10-0-0 (min. 0-1-8), Q=174/10-0-0 (min. 0-1-8), P=173/10-0-0 (min. 0-1-8), O=173/10-0-0 (min. 0-1-8), N=174/10-0-0 (min. 0-1-8), M=171/10-0-0 (min. 0-1-8), L=181/10-0-0 (min. 0-1-8), K=124/10-0-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD R-S=-59/0, A-S=-58/0, J-T=-10/0, I-T=-9/0, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0, E-F=-8/0, F-G=-8/0, G-H=-8/0, H-I=-8/0
 BOT CHORD Q-R=0/8, P-Q=0/8, O-P=0/8, N-O=0/8, M-N=0/8, L-M=0/8, K-L=0/8, J-K=0/8
 WEBS B-Q=-159/0, C-P=-161/0, D-O=-160/0, E-N=-160/0, F-M=-158/0, G-L=-166/0, H-K=-123/0

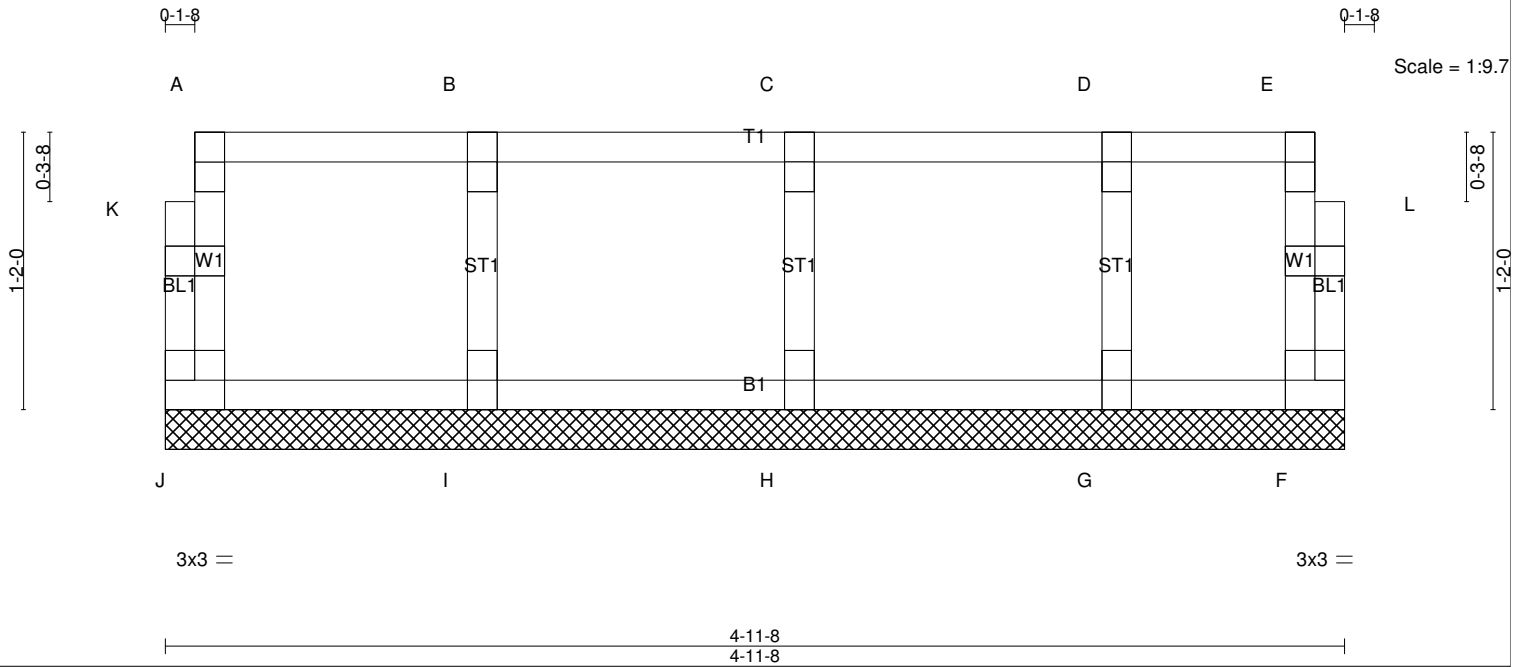
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed 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 20070595CS	Truss KW3	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:39 2020 Page 1
ID:6XSV96XfyL_h7KumLTx5TgzzQcx-ezz3GvM5Q0rT_kdV6nxqi4BeMb8h?_?i3I1YddyxCQA



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 23 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-11-8 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) J=64/4-11-8 (min. 0-1-8), F=42/4-11-8 (min. 0-1-8), I=171/4-11-8 (min. 0-1-8), H=180/4-11-8 (min. 0-1-8), G=140/4-11-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD J-K=-60/0, A-K=-59/0, F-L=-35/0, E-L=-34/0, A-B=-9/0, B-C=-9/0, C-D=-9/0, D-E=-9/0
 BOT CHORD I-J=0/9, H-I=0/9, G-H=0/9, F-G=0/9
 WEBS B-I=-156/0, C-H=-166/0, D-G=-133/0

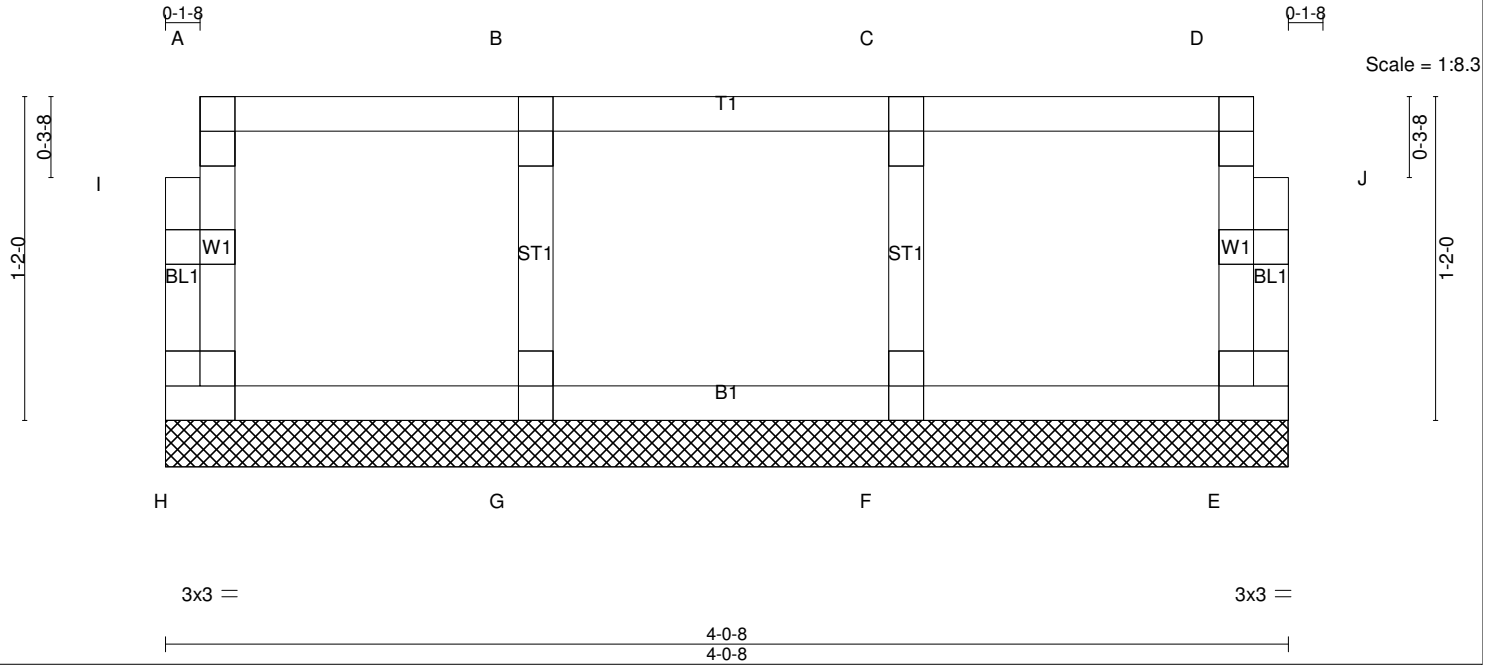
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed 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 20070595CS	Truss KW4	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:40 2020 Page 1
ID:6XSV96XfyL_h7KumLTX5TgzzQcx-6A7RUFMjBKzKbuCigVS3FijpE?U?jRGrly1693yxCQ9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.01	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 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-0-8 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) H=68/4-0-8 (min. 0-1-8), E=70/4-0-8 (min. 0-1-8), G=168/4-0-8 (min. 0-1-8), F=173/4-0-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD H-I=-62/0, A-I=-61/0, E-J=-64/0, D-J=-63/0, A-B=-13/0, B-C=-13/0, C-D=-13/0
 BOT CHORD G-H=0/13, F-G=0/13, E-F=0/13
 WEBS B-G=-156/0, C-F=-160/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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) Non Standard bearing condition. Review required.
 - 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 20070595CS	Truss KW5	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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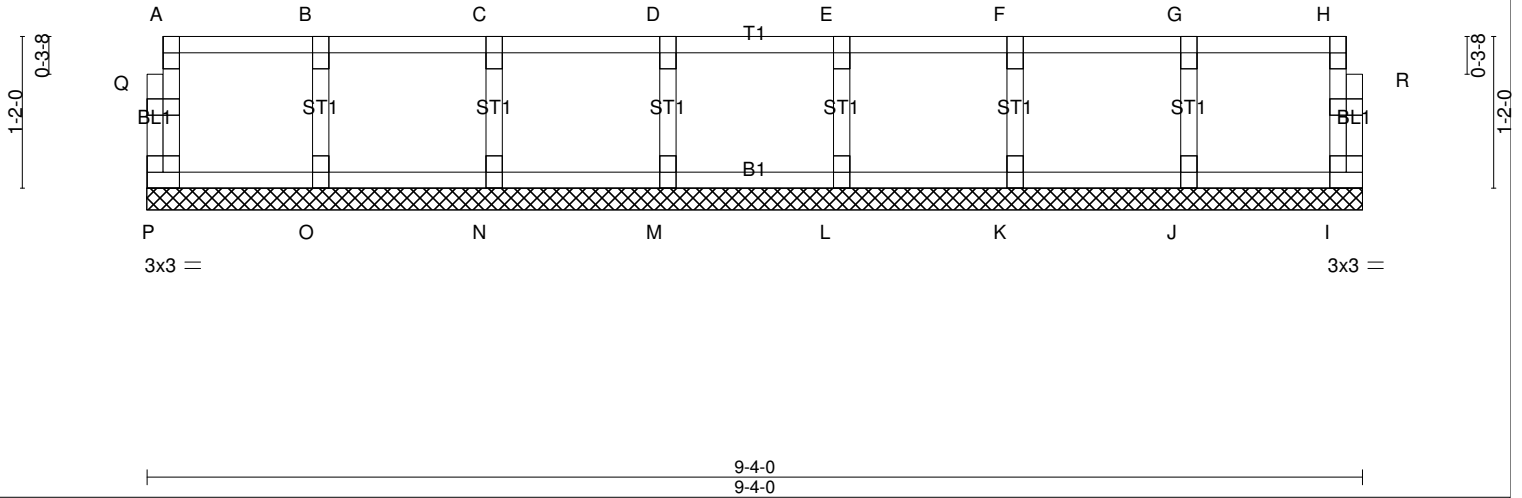
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:41 2020 Page 1
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0-1-8

0-1-8

Scale = 1:17.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.01	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 l n/a n/a		
	Code IRC2015/TPI2014			Weight: 41 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
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) P=67/9-4-0 (min. 0-1-8), I=67/9-4-0 (min. 0-1-8), O=168/9-4-0 (min. 0-1-8), N=175/9-4-0 (min. 0-1-8), M=173/9-4-0 (min. 0-1-8), L=173/9-4-0 (min. 0-1-8), K=175/9-4-0 (min. 0-1-8), J=168/9-4-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD P-Q=-61/0, A-Q=-61/0, I-R=-61/0, H-R=-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
BOT CHORD O-P=0/12, N-O=0/12, M-N=0/12, L-M=0/12, K-L=0/12, J-K=0/12, I-J=0/12
WEBS B-O=-156/0, C-N=-161/0, D-M=-160/0, E-L=-160/0, F-K=-161/0, G-J=-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 20070595CS	Truss KW6	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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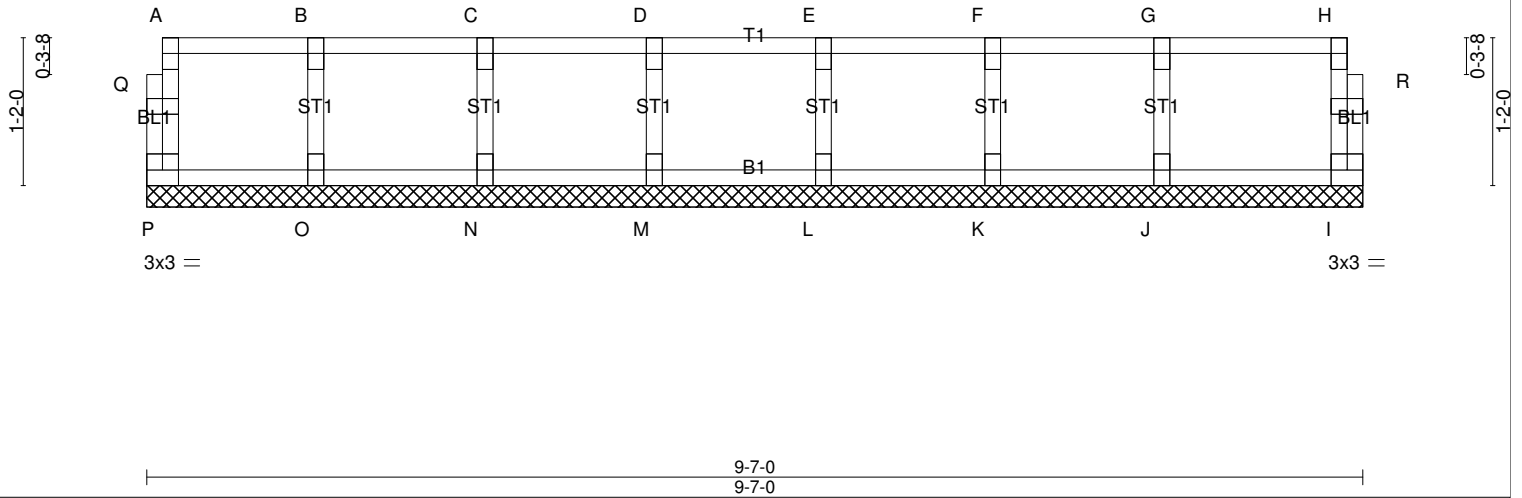
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:43 2020 Page 1
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0-1-8

0-1-8

Scale = 1:18.2



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.11	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 l n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 41 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-H, 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) P=71/9-7-0 (min. 0-1-8), I=83/9-7-0 (min. 0-1-8), O=163/9-7-0 (min. 0-1-8), N=176/9-7-0 (min. 0-1-8), M=172/9-7-0 (min. 0-1-8), L=175/9-7-0 (min. 0-1-8), K=169/9-7-0 (min. 0-1-8), J=189/9-7-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD P-Q=-64/0, A-Q=-63/0, I-R=-78/0, H-R=-77/0, A-B=-16/0, B-C=-16/0, C-D=-16/0, D-E=-16/0, E-F=-16/0, F-G=-16/0, G-H=-16/0
BOT CHORD O-P=0/16, N-O=0/16, M-N=0/16, L-M=0/16, K-L=0/16, J-K=0/16, I-J=0/16
WEBS B-O=-153/0, C-N=-162/0, D-M=-159/0, E-L=-161/0, F-K=-156/0, G-J=-173/0

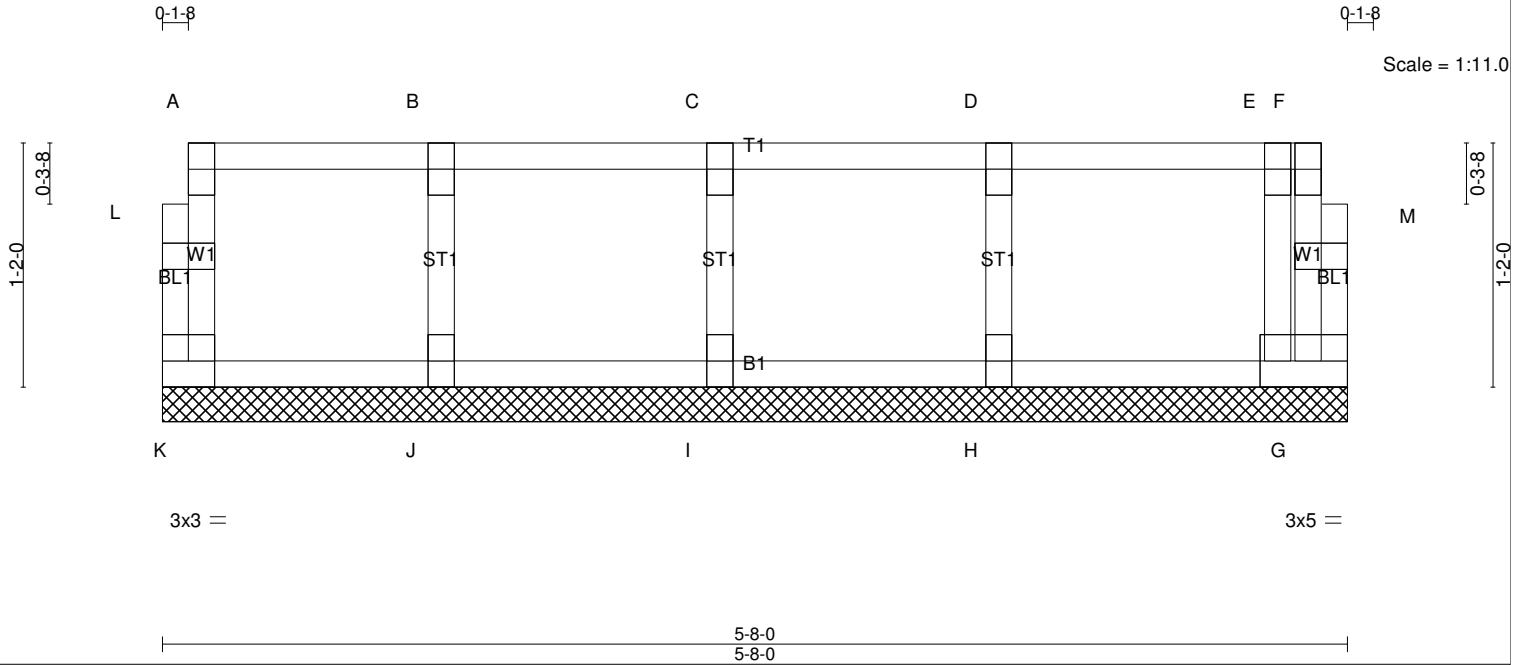
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 7) 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 20070595CS	Truss KW7	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

Run: 8.330 s Apr 7 2020 Print: 8.330 s Apr 7 2020 MiTek Industries, Inc. Fri Jul 17 10:21:45 2020 Page 1
ID:6XSV96XfyL_h7KumLTx5TgzzQcx-S7xKXzQs0scdif5fS21EyLQgh0BvOiUaRElsqHyxCO4



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.11	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 G n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 27 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD 2-0-0 oc purlins: A-F, 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) K=73/5-8-0 (min. 0-1-8), G=94/5-8-0 (min. 0-1-8), J=161/5-8-0 (min. 0-1-8), I=173/5-8-0 (min. 0-1-8), H=187/5-8-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD K-L=-65/0, A-L=-64/0, G-M=0/26, F-M=0/26, A-B=-18/0, B-C=-18/0, C-D=-18/0, D-E=-18/0, E-F=-3/0
BOT CHORD J-K=0/18, I-J=0/18, H-I=0/18, G-H=0/18
WEBS B-J=-153/0, C-I=-159/0, D-H=-170/0, E-G=-117/0

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 7) 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