Job	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F100	Floor	6	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:03:48 2020 Page 1
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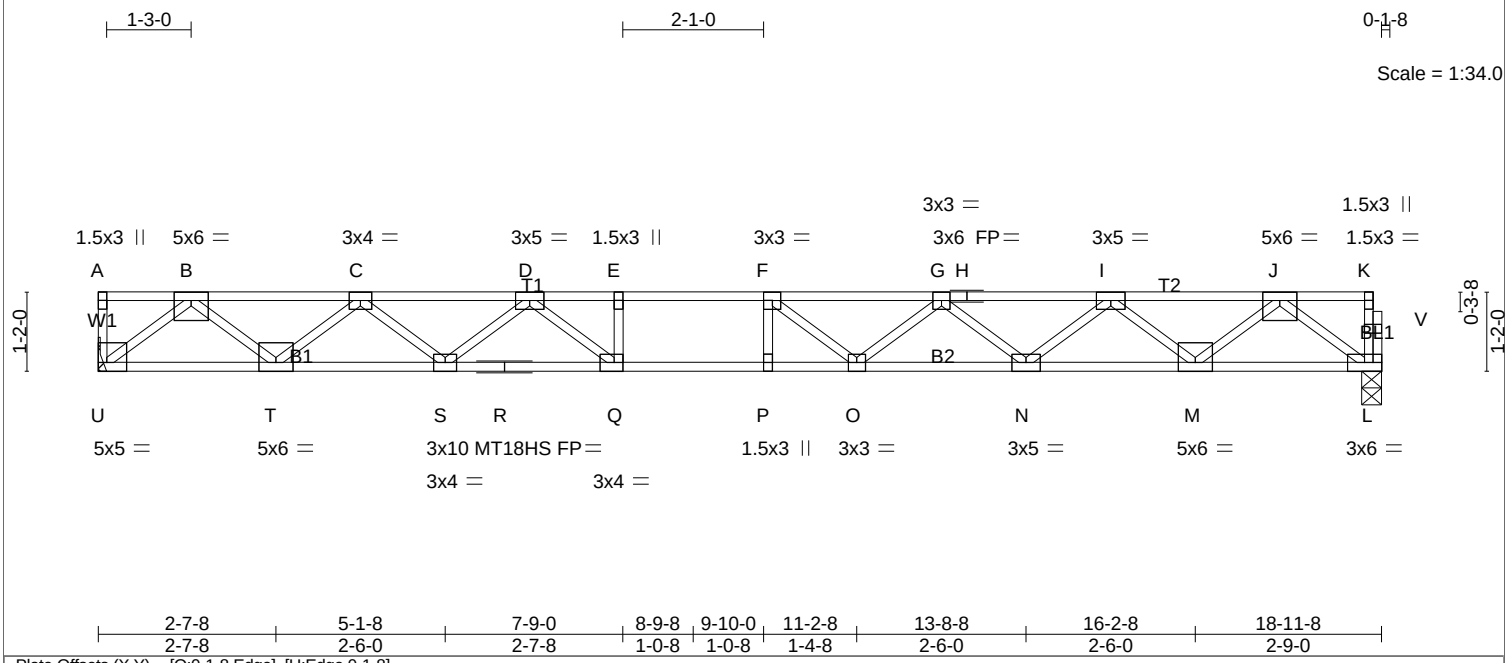

Plate Offsets (X,Y)-- [Q:0-1-8,Edge], [U:Edge,0-1-8]

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	0.73	Vert(LL)	-0.36	P	>632	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.58	P	>390	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.09	L	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 SS(flat)
BOT CHORD 2x4 SP SS(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) L=1213/0-3-8, U=1220/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-U=-47/0, L-V=-45/0, K-V=-45/0, A-B=0/0, B-C=-2554/0, C-D=-4261/0, D-E=-5413/0, E-F=-5413/0, F-G=-5241/0, G-H=-4320/0, H-I=-4320/0, I-J=-2601/0, J-K=-3/0
BOT CHORD T-U=0/1462, S-T=0/3605, R-S=0/4927, Q-R=0/4927, P-Q=0/5413, O-P=0/5413, N-O=0/4981, M-N=0/3640, L-M=0/1526
WEBS J-L=-1912/0, B-U=-1867/0, J-M=0/1398, B-T=0/1422, I-M=-1352/0, C-T=-1367/0, I-N=0/886, C-S=0/855, G-N=-860/0, D-S=-866/0, G-O=0/512, D-Q=0/929, F-O=-576/136, E-Q=-387/0, F-P=-220/102

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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F101	Floor	3	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:03:52 2020 Page 1
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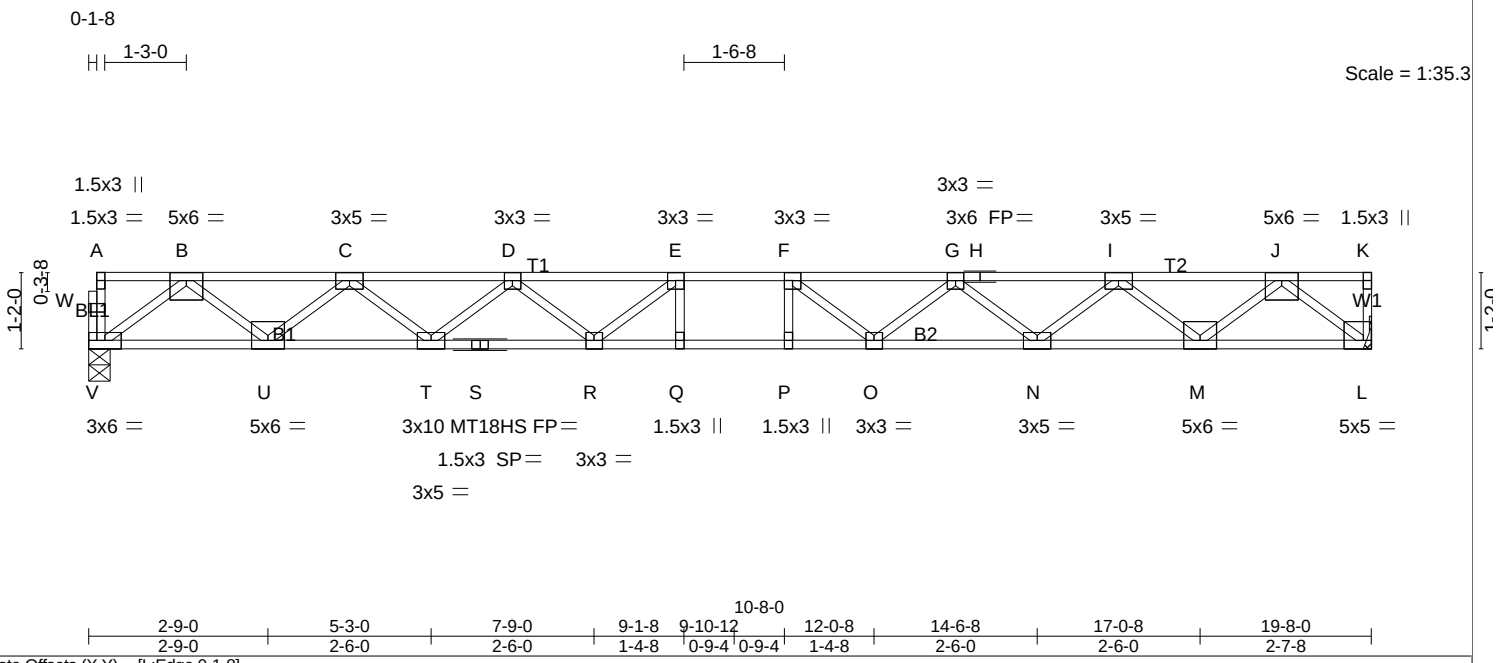

Plate Offsets (X,Y)-- [L:Edge,0-1-8]

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	0.91	Vert(LL)	-0.39	P-Q	>592	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.64	P-Q	>364	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	L	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 97 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.1(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) V=1259/0-4-0, L=1266/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD V-W=-45/0, A-W=-45/0, K-L=-45/0, A-B=-3/0, B-C=-2716/0, C-D=-4546/0, D-E=-5576/0, E-F=-5892/0, F-G=-5560/0, G-H=-4509/0, H-I=-4509/0, I-J=-2661/0, J-K=0/0
BOT CHORD U-V=0/1586, T-U=0/3813, S-T=0/5249, R-S=0/5249, Q-R=0/5892, P-Q=0/5892, O-P=0/5892, N-O=0/5222, M-N=0/3768, L-M=0/1522
WEBS J-L=-1943/0, B-V=-1986/0, J-M=0/1483, B-U=0/1471, I-M=-1441/0, C-U=-1428/0, I-N=0/966, C-T=0/953, G-N=-928/0, D-T=-916/0, G-O=0/574, D-R=0/564, F-O=-711/17, E-R=-696/32, E-Q=-189/208, F-P=-183/214

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint S = 12%
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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F102	Floor	5	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:03:56 2020 Page 1
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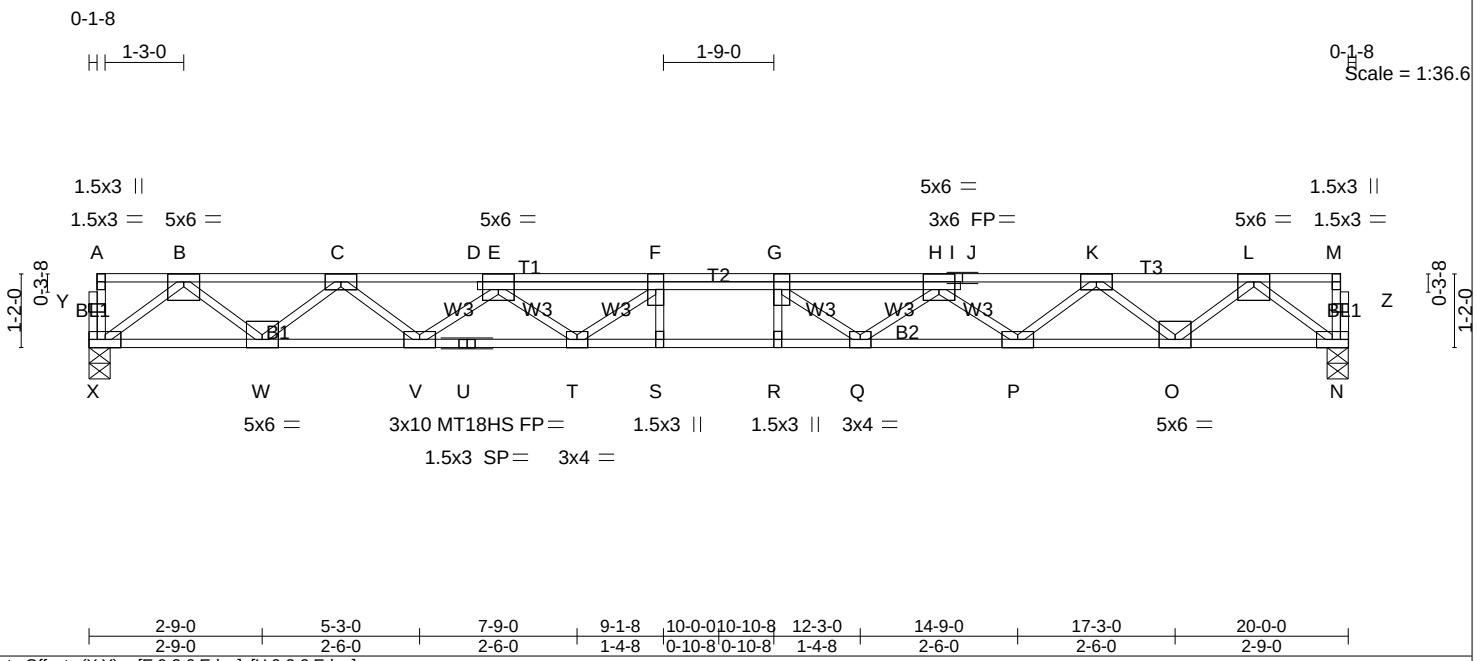

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [H:0-3-0,Edge]

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	0.97	Vert(LL)	-0.40	R-S	>595	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.65	R-S	>365	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.11	N	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 109 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) X=1276/0-4-0, N=1276/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD X-Y=-40/0, A-Y=-40/0, N-Z=-40/0, M-Z=-40/0, A-B=-2/0, B-C=-2754/0, C-D=-4657/0, D-E=-4613/0, E-F=-5966/0, F-G=-6433/0, G-H=-5966/0, H-I=-4613/0, I-J=-4657/0, J-K=-4657/0, K-L=-2754/0, L-M=-2/0
BOT CHORD W-X=0/1616, V-W=0/3858, U-V=0/5485, T-U=0/5485, S-T=0/6433, R-S=0/6433, Q-R=0/6433, P-Q=0/5485, O-P=0/3858, N-O=0/1616
WEBS L-N=-2024/0, B-X=-2024/0, L-O=0/1482, B-W=0/1482, K-O=-1436/0, C-W=-1436/0, K-P=0/1041, C-V=0/1041, H-P=-1051/0, E-V=-1051/0, H-Q=0/746, E-T=0/746, G-Q=-809/0, F-T=-809/0, F-S=-90/109, G-R=-90/109

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint U = 12%
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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F103	Floor	9	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:00 2020 Page 1
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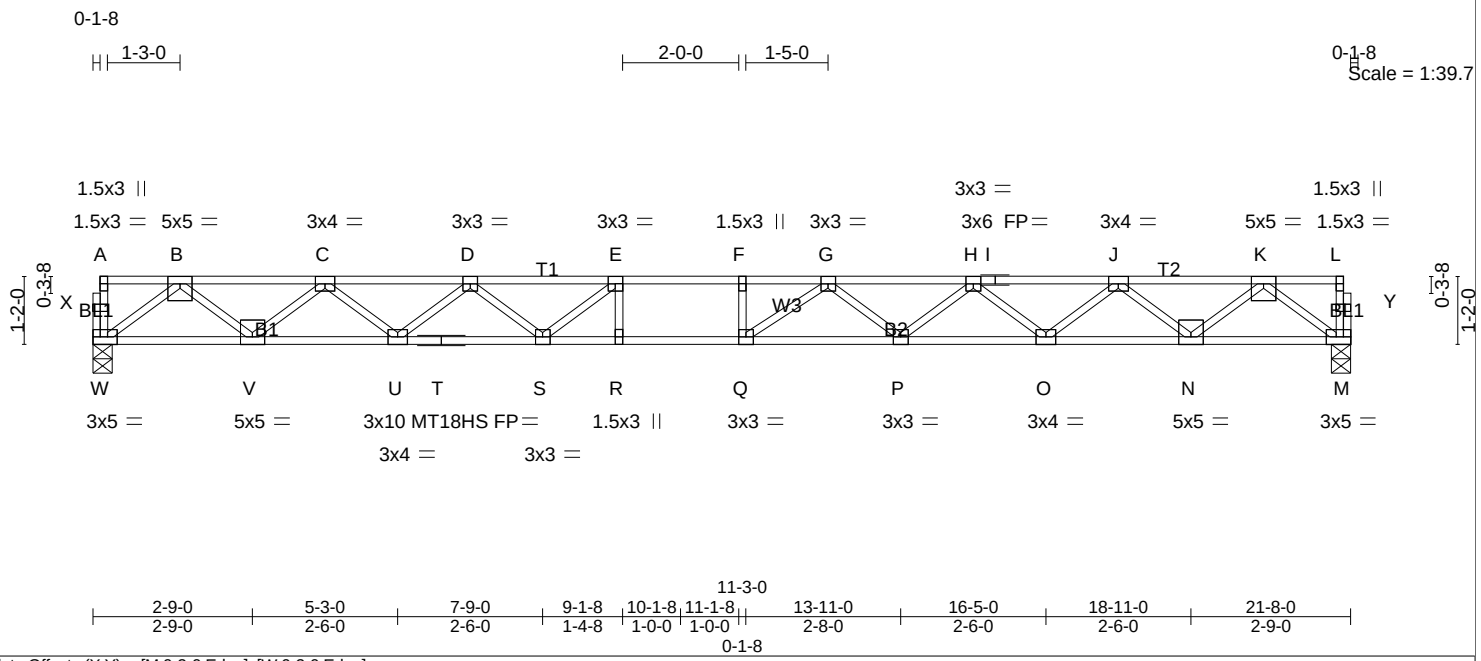

Plate Offsets (X,Y)-- [M:0-2-0,Edge], [W:0-2-0,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.40	P-Q	>647	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.65	P-Q	>397	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.09	M	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 107 lb	FT = 20%F, 12%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) W=923/0-4-0, M=923/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD W-X=-31/0, A-X=-31/0, M-Y=-31/0, L-Y=-31/0, A-B=-2/0, B-C=-2022/0, C-D=-3440/0, D-E=-4335/0, E-F=-4709/0, F-G=-4709/0, G-H=-4341/0, H-I=-3438/0, I-J=-3438/0, J-K=-2022/0, K-L=-2/0
BOT CHORD V-W=0/1167, U-V=0/2856, T-U=0/4000, S-T=0/4000, R-S=0/4709, Q-R=0/4709, P-Q=0/4632, O-P=0/4010, N-O=0/2853, M-N=0/1168
WEBS E-R=-82/185, F-Q=-171/8, B-W=-1461/0, B-V=0/1113, C-V=-1086/0, C-U=0/760, D-U=-729/0, D-S=0/521, E-S=-676/0, K-M=-1462/0, K-N=0/1112, J-N=-1082/0, J-O=0/762, H-O=-745/0, H-P=0/431, G-P=-402/0, G-Q=-197/436

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) Required 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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F103A	Floor	9	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:04 2020 Page 1
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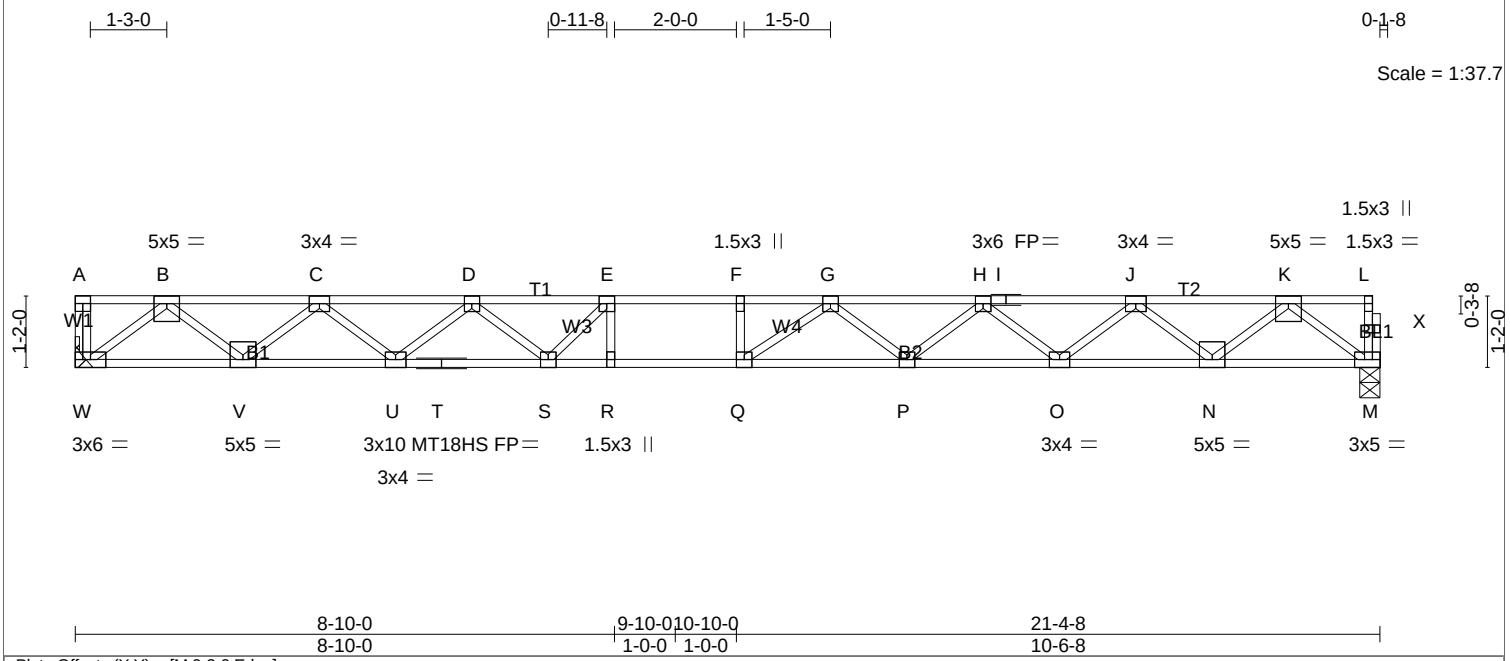

Plate Offsets (X,Y)-- [M:0-2-0,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.38	P-Q	>660	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.63	P-Q	>405	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.08	M	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 106 lb	FT = 20%F, 12%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) W=915/Mechanical, M=910/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-W=-35/0, M-X=-31/0, L-X=-31/0, A-B=0/0, B-C=-1991/0, C-D=-3376/0, D-E=-4255/0, E-F=-4572/0, F-G=-4572/0, G-H=-4251/0, H-I=-3376/0, I-J=-3376/0, J-K=-1991/0, K-L=-2/0
BOT CHORD V-W=0/1150, U-V=0/2811, T-U=0/3916, S-T=0/3916, R-S=0/4572, Q-R=0/4572, P-Q=0/4524, O-P=0/3934, N-O=0/2806, M-N=0/1151
WEBS E-R=-79/222, F-Q=-162/11, B-W=-1443/0, B-V=0/1094, C-V=-1068/0, C-U=0/735, D-U=-703/0, D-S=0/537, E-S=-650/0, K-M=-1442/0, K-N=0/1093, J-N=-1062/0, J-O=0/741, H-O=-727/0, H-P=0/413, G-P=-380/0, G-Q=-214/401

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x3 MT20 unless otherwise indicated.
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) Required 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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F104	Floor	1	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:07 2020 Page 1
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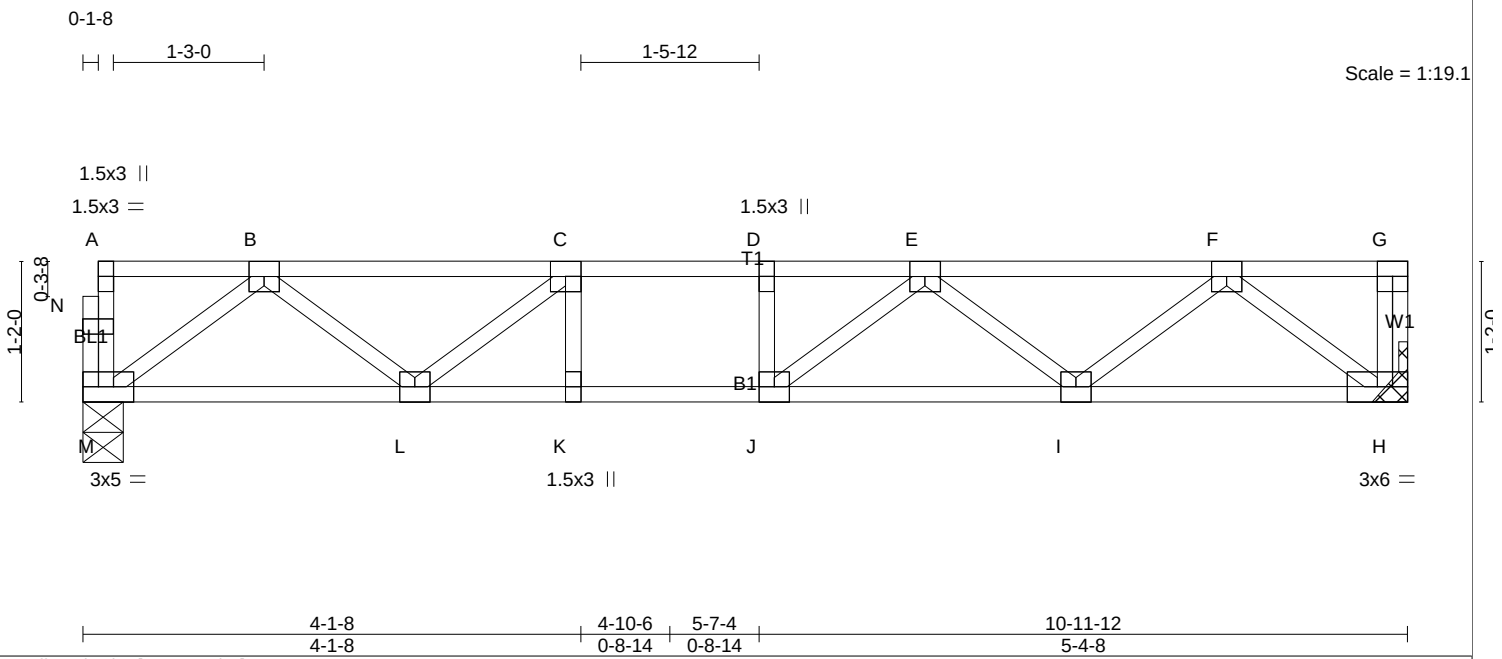

Plate Offsets (X,Y)-- [M:0-2-0,Edge]

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	0.40	Vert(LL)	-0.08	I-J	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.12	I-J	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	H	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 57 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) M=690/0-4-0, H=697/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD M-N=-44/0, A-N=-44/0, G-H=-48/0, A-B=-3/0, B-C=-1287/0, C-D=-1754/0, D-E=-1754/0, E-F=-1293/0, F-G=0/0
BOT CHORD L-M=0/837, K-L=0/1754, J-K=0/1754, I-J=0/1693, H-I=0/845
WEBS F-H=-1060/0, B-M=-1047/0, F-I=0/583, B-L=0/586, E-I=-522/0, C-L=-605/0, E-J=-79/288, C-K=-37/124, D-J=-125/0

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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F105	Floor	11	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:11 2020 Page 1
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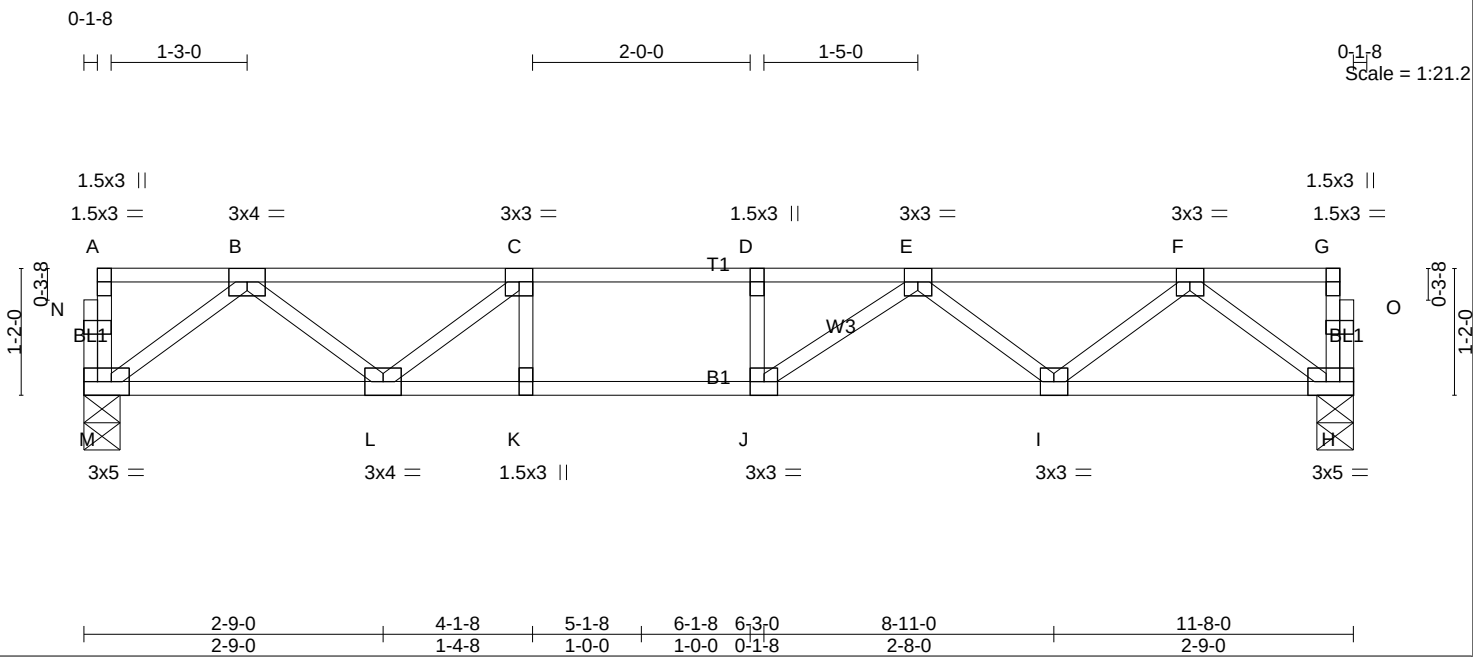

Plate Offsets (X,Y)-- [H:0-2-0,Edge], [M:0-2-0,Edge]

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	0.57	Vert(LL)	-0.13	I-J	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.19	I-J	>723	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	H	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 58 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) M=735/0-4-0, H=735/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD M-N=-51/0, A-N=-51/0, H-O=-44/0, G-O=-44/0, A-B=-3/0, B-C=-1404/0, C-D=-1968/0, D-E=-1968/0, E-F=-1410/0, F-G=-3/0
BOT CHORD L-M=0/886, K-L=0/1968, J-K=0/1968, I-J=0/1856, H-I=0/905
WEBS C-K=-17/158, D-J=-167/0, B-M=-1108/0, B-L=0/674, C-L=-738/0, F-H=-1132/0, F-I=0/657, E-I=-582/0, E-J=-30/366

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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F106	Floor	7	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:15 2020 Page 1
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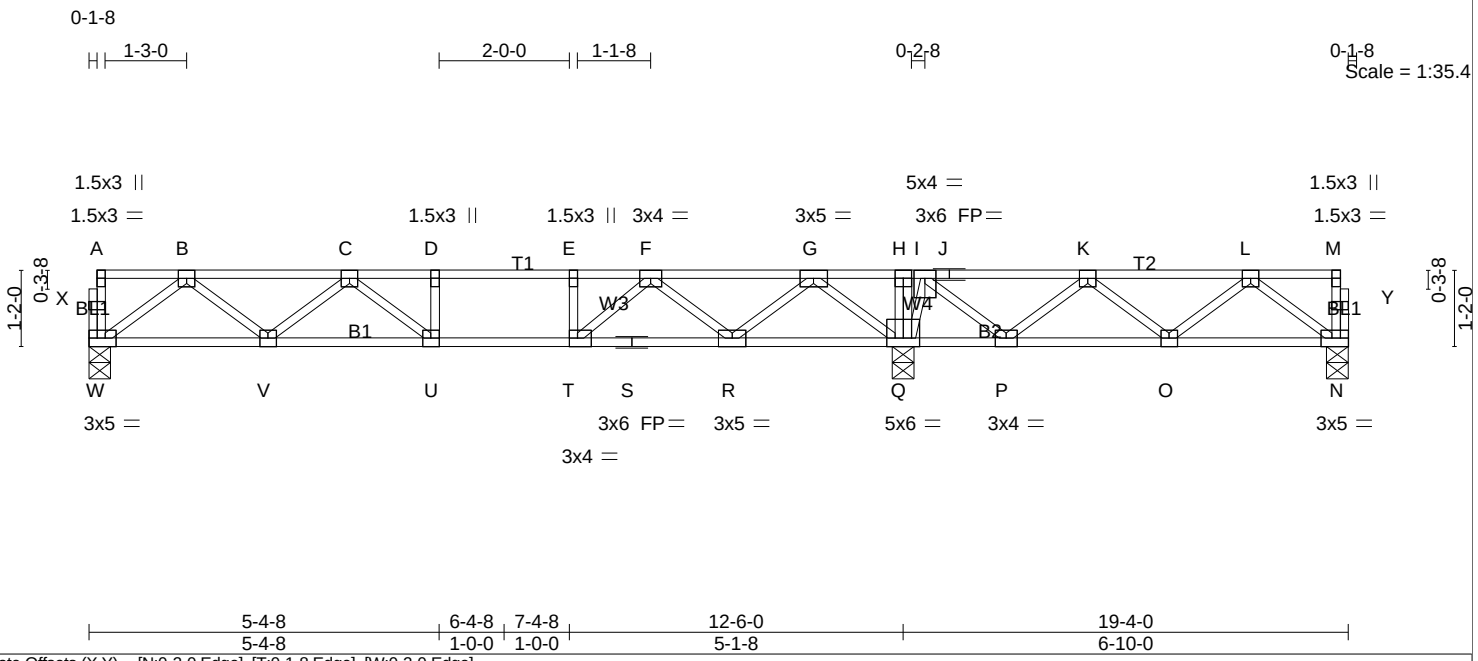

Plate Offsets (X,Y)-- [N:0-2-0,Edge], [T:0-1-8,Edge], [W:0-2-0,Edge]

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	0.72	Vert(LL)	-0.11	U-V	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.17	U-V	>861	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	Q	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 99 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 6-0-0 oc bracing.

REACTIONS. (lb/size) W=698/0-4-0, N=251/0-4-0, Q=1517/0-4-0
Max GravW=707(LC 3), N=345(LC 4), Q=1517(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD W-X=-44/0, A-X=-44/0, N-Y=-44/0, M-Y=-44/0, A-B=-3/0, B-C=-1341/0, C-D=-1803/0, D-E=-1803/0, E-F=-1803/0, F-G=-696/0, G-H=0/1224, H-I=0/1225, I-J=-64/612, J-K=-64/612, K-L=-428/156, L-M=-3/0
BOT CHORD V-W=0/869, U-V=0/1749, T-U=0/1803, S-T=0/1360, R-S=0/1360, Q-R=-246/49, P-Q=-983/0, O-P=-321/435, N-O=-28/386
WEBS D-U=-137/0, E-T=-343/0, H-Q=-36/101, B-W=-1087/0, B-V=0/615, C-V=-532/0, C-U=-59/228, G-Q=-1360/0, G-R=0/867, F-R=-879/0, F-T=0/690, L-N=-481/36, L-O=-167/55, K-O=-9/215, K-P=-652/0, I-P=0/671, I-Q=-750/0

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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F107	Floor	2	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:19 2020 Page 1
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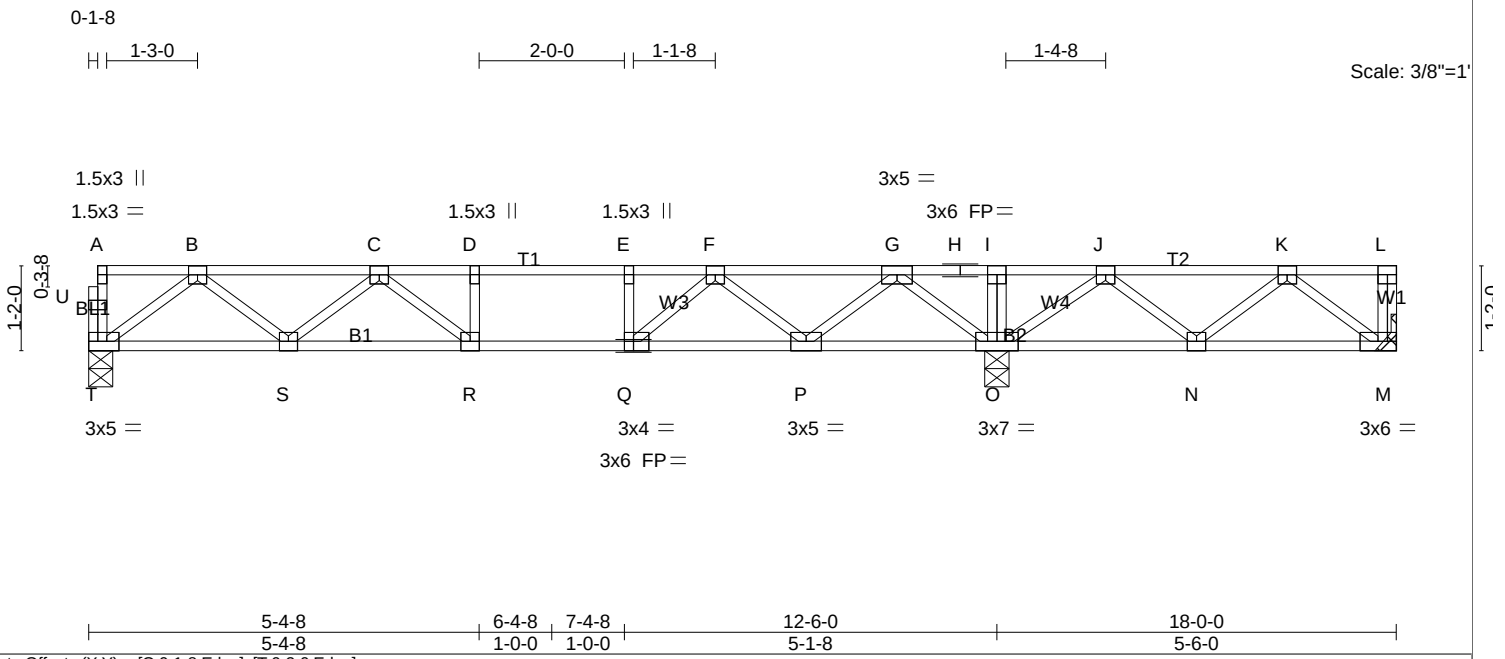

Plate Offsets (X,Y)-- [Q:0-1-8,Edge], [T:0-2-0,Edge]

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	0.70	Vert(LL)	-0.11	R-S	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.17	R-S	>872	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	O	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 92 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 6-0-0 oc bracing.

REACTIONS. (lb/size) T=703/0-4-0, M=131/Mechanical, O=1466/0-4-0
Max UpliftM=-74(LC 3)
Max GravT=707(LC 3), M=255(LC 4), O=1466(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD T-U=-44/0, A-U=-43/0, L-M=-45/0, A-B=-3/0, B-C=-1341/0, C-D=-1805/0, D-E=-1805/0, E-F=-1805/0, F-G=-699/0, G-H=0/1190, H-I=0/1190, I-J=0/1191, J-K=-177/358, K-L=0/0
BOT CHORD S-T=0/869, R-S=0/1750, Q-R=0/1805, P-Q=0/1362, O-P=-203/110, N-O=-617/59, M-N=-130/262
WEBS D-R=-142/0, E-Q=-336/0, I-O=-121/0, B-T=-1087/0, B-S=0/615, C-S=-532/0, C-R=-42/240, G-O=-1365/0, G-P=0/862, F-P=-872/0, F-Q=0/673, K-M=-329/163, K-N=-334/0, J-N=0/375, J-O=-881/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint M.
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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	F108	Floor	5	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:22 2020 Page 1
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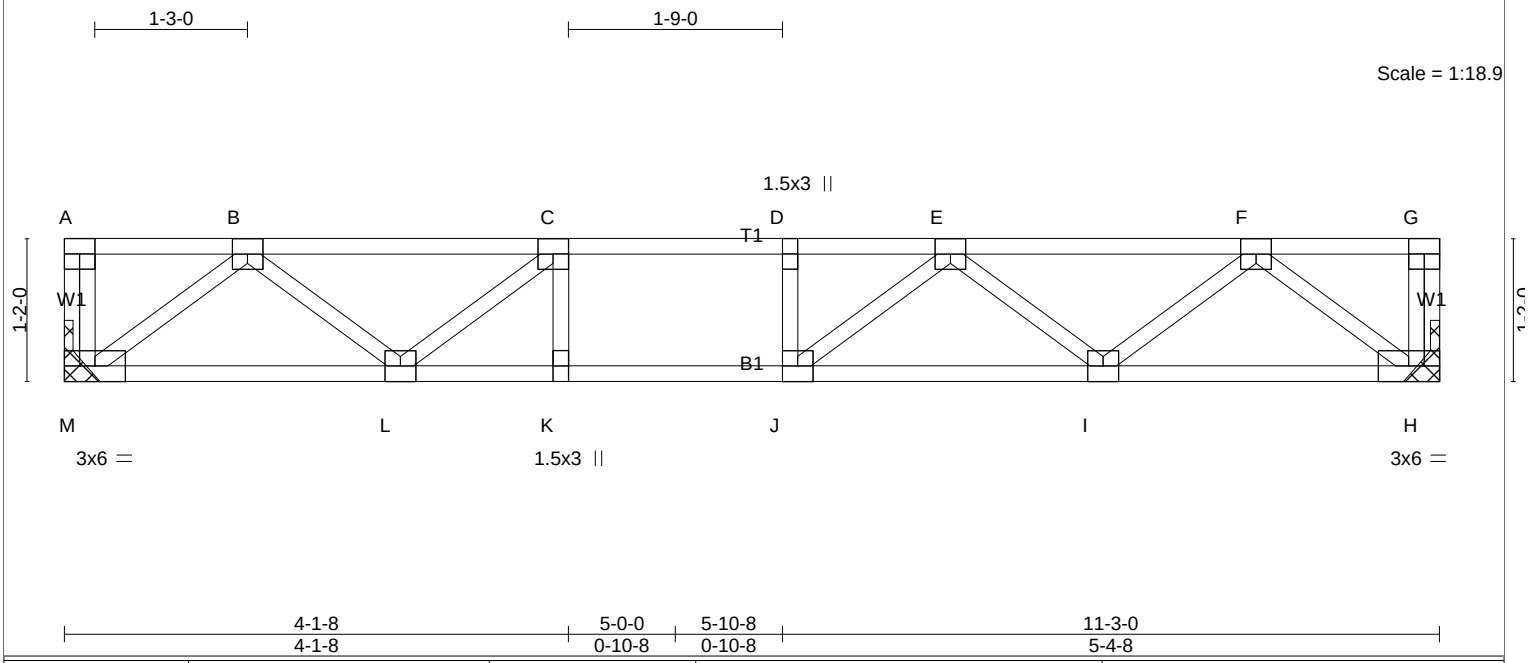

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.10	I-J	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.14	I-J	>914	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	H	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 58 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) M=715/Mechanical, H=715/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-M=-51/0, G-H=-48/0, A-B=0/0, B-C=-1334/0, C-D=-1836/0, D-E=-1836/0, E-F=-1338/0, F-G=0/0
BOT CHORD L-M=0/858, K-L=0/1836, J-K=0/1836, I-J=0/1757, H-I=0/869
WEBS F-H=-1090/0, B-M=-1076/0, F-I=0/611, B-L=0/619, E-I=-545/0, C-L=-657/0, E-J=-58/322, C-K=-29/136, D-J=-150/0

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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	KW1	Floor Supported Gable	1	1	Job Reference (optional)

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

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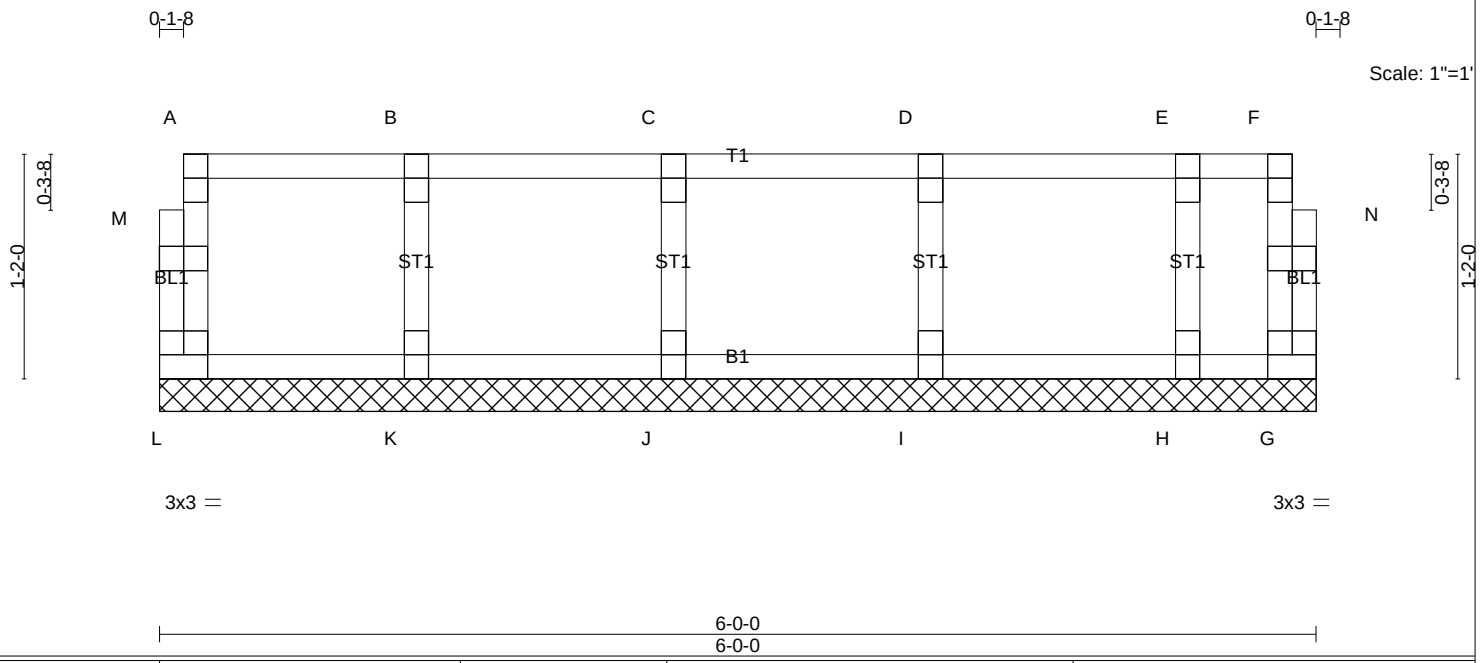

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	G	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 28 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) L=62/6-0-0, G=20/6-0-0, K=174/6-0-0, J=171/6-0-0, I=181/6-0-0, H=124/6-0-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD L-M=-59/0, A-M=-58/0, G-N=-10/0, F-N=-10/0, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0, E-F=-8/0
BOT CHORD K-L=0/8, J-K=0/8, I-J=0/8, H-I=0/8, G-H=0/8
WEBS B-K=-159/0, C-J=-159/0, D-I=-166/0, E-H=-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	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	KW2	GABLE	1	1	Job Reference (optional)

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

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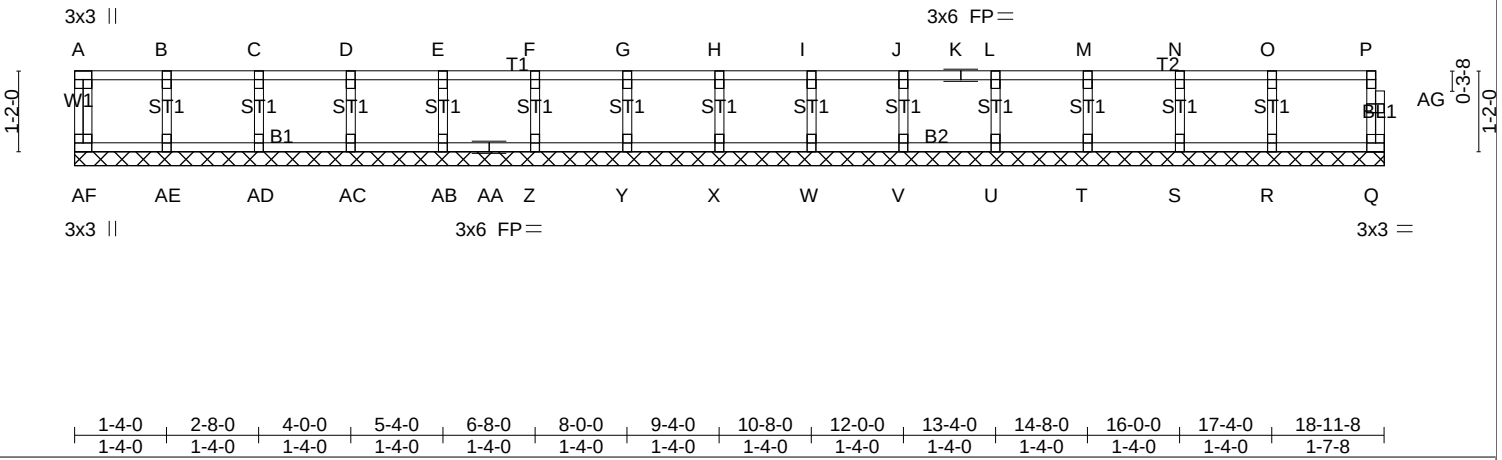

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-11-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-8

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	0.12	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	Q	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 79 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) AF=79/18-11-8, Q=86/18-11-8, AE=163/18-11-8, AD=176/18-11-8, AC=173/18-11-8, AB=174/18-11-8, Z=173/18-11-8, Y=173/18-11-8, X=173/18-11-8, W=173/18-11-8, V=173/18-11-8, U=173/18-11-8, T=175/18-11-8, S=168/18-11-8, R=193/18-11-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-AF=-70/0, Q-AG=-81/0, P-AG=-80/0, 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, H-I=-16/0, I-J=-16/0, J-K=-16/0, K-L=-16/0, L-M=-16/0, M-N=-16/0, N-O=-16/0, O-P=-16/0
BOT CHORD AE-AF=0/16, AD-AE=0/16, AC-AD=0/16, AB-AC=0/16, AA-AB=0/16, Z-AA=0/16, Y-Z=0/16, X-Y=0/16, W-X=0/16, V-W=0/16, U-V=0/16, T-U=0/16, S-T=0/16, R-S=0/16, Q-R=0/16
WEBS B-AE=-153/0, C-AD=-162/0, D-AC=-160/0, E-AB=-160/0, F-Z=-160/0, G-Y=-160/0, H-X=-160/0, I-W=-160/0, J-V=-160/0, L-U=-160/0, M-T=-161/0, N-S=-155/0, O-R=-177/0

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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	288 NC2015
19122412F	KW3	Floor Supported Gable	1	1	Job Reference (optional)

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:04:34 2020 Page 1
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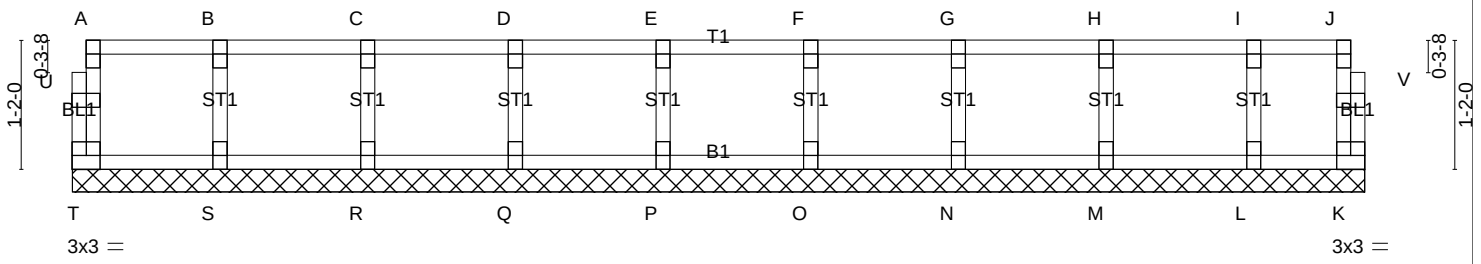

11-8-0
11-8-0

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	0.10	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	K	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							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)
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) T=63/11-8-0, K=44/11-8-0, S=173/11-8-0, R=174/11-8-0, Q=173/11-8-0, P=173/11-8-0, O=174/11-8-0, N=172/11-8-0, M=180/11-8-0, L=144/11-8-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD T-U=-59/0, A-U=-59/0, K-V=-38/0, J-V=-37/0, A-B=-9/0, B-C=-9/0, C-D=-9/0, D-E=-9/0, E-F=-9/0, F-G=-9/0, G-H=-9/0, H-I=-9/0, I-J=-9/0
BOT CHORD S-T=0/9, R-S=0/9, Q-R=0/9, P-Q=0/9, O-P=0/9, N-O=0/9, M-N=0/9, L-M=0/9, K-L=0/9
WEBS B-S=-158/0, C-R=-161/0, D-Q=-160/0, E-P=-160/0, F-O=-160/0, G-N=-159/0, H-M=-165/0, I-L=-136/0

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