

Job 20032323F	Truss FG1	Truss Type Floor Girder	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:14 2020 Page 1
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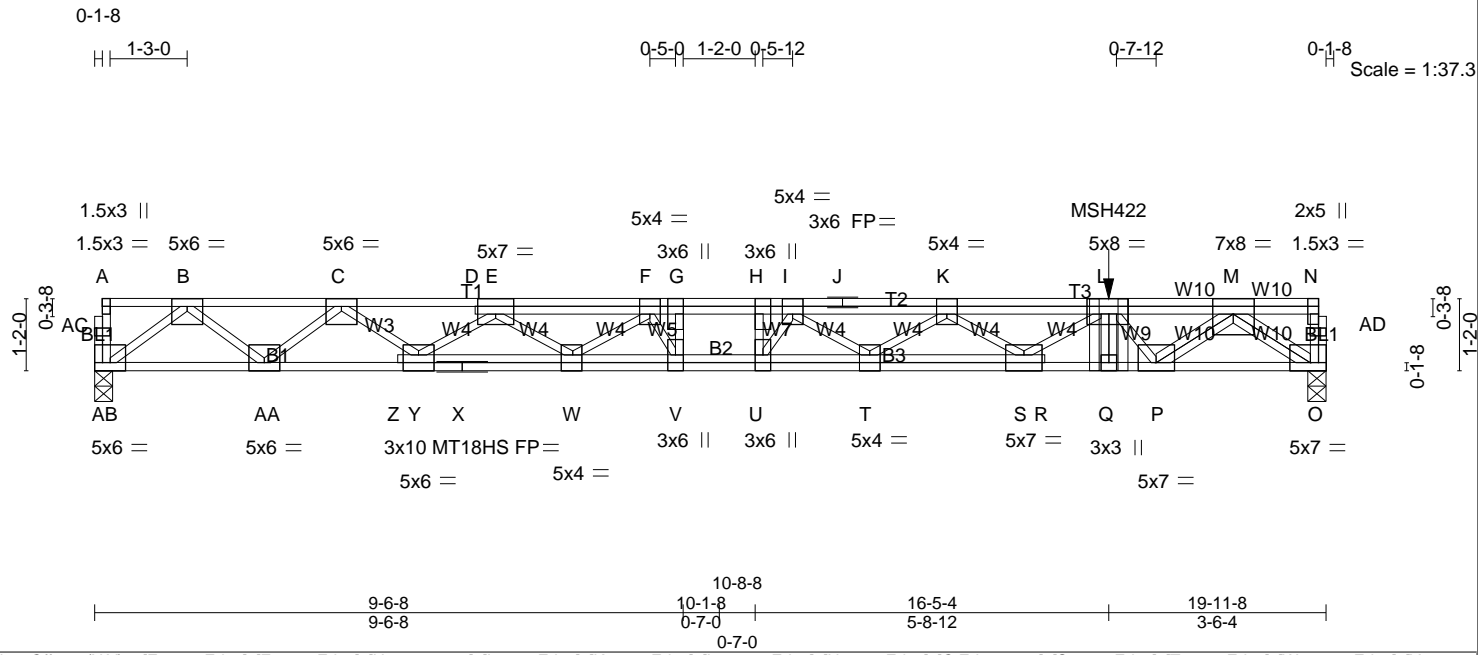


Plate Offsets (X,Y)-- [E:0-3-8,Edge], [F:0-2-0,Edge], [H:0-3-0,0-0-0], [I:0-2-0,Edge], [K:0-2-0,Edge], [L:0-2-12,Edge], [N:0-3-0,Edge], [O:Edge,0-1-8], [S:0-3-8,Edge], [T:0-2-0,Edge], [W:0-1-12,Edge], [Y:0-3-0,Edge]

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 0.70	Vert(LL)	-0.34	U-V	>706	480	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.90	Vert(CT)	-0.55	U-V	>432	360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.78	Horz(CT)	0.10	O	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH							
									Weight: 141 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 5-4-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) AB=1385/0-3-8, O=1804/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD AB-AC=-41/0, A-AC=-41/0, O-AD=78/0, N-AD=-77/0, A-B=-2/0, B-C=-3013/0, C-D=-5312/0, D-E=-5257/0, E-F=-7290/0, F-G=-7945/0, G-H=-7945/0, H-I=-7945/0, I-J=-7817/0, J-K=-7817/0, K-L=-6561/0, L-M=-4227/0, M-N=5/0
 BOT CHORD AA-AB=0/1753, Z-AA=0/4279, Y-Z=0/4213, X-Y=0/6467, W-X=0/6467, V-W=0/7926, U-V=0/7945, T-U=0/8029, S-T=0/7412, R-S=0/5424, Q-R=0/5488, P-Q=0/5482, O-P=0/2416
 WEBS G-V=-343/168, H-U=-149/303, L-Q=-232/0, B-AB=-2196/0, B-AA=0/1641, C-AA=-1648/0, C-Y=0/1312, E-Y=-1433/0, E-W=0/1021, F-W=-877/0, F-V=-261/544, L-S=0/1297, K-S=-1056/0, K-T=0/502, I-T=-342/77, I-U=-543/208, M-O=-2959/0, M-P=0/2359, L-P=-1885/0

- 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) CAUTION, Do not erect truss backwards.
 - 6) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 16-5-4 from the left end to connect truss(es) fg2 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - 7) Fill all nail holes where hanger is in contact with lumber.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

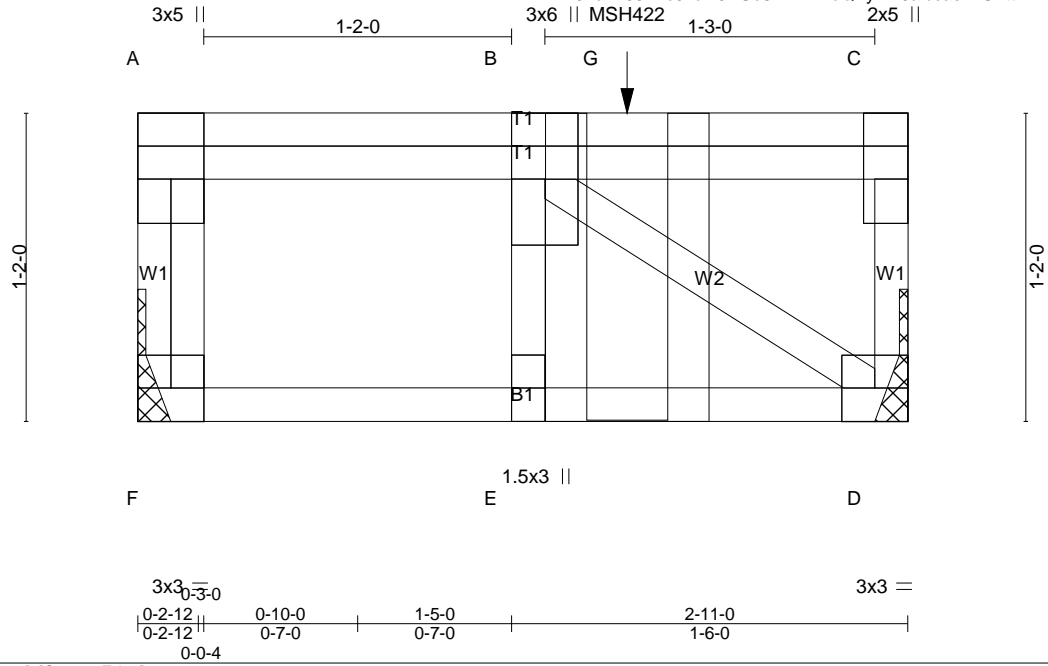
LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: O-AB=-10, A-N=-120
 Concentrated Loads (lb)
 Vert: L=-642(F)

Job 20032323F	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, Rob Ferber

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ID:XTYJZa1n607AuJzbMJwUb8z?rWV-dQVYhiP9albcaeZkSAttnA2DRiM_NiWlyMQDjLzWV2d



Scale = 1:8.7

Plate Offsets (X,Y)-- [A:Edge,0-1-8], [C: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) -0.05 E >619 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.09 E >378 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 D n/a n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-SH		Weight: 20 lb	FT = 20%F, 12%E

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

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

REACTIONS. (lb/size) F=516/Mechanical, D=762/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-F=-428/0, C-D=-676/0, A-B=0/0, B-G=0/0, C-G=0/0
BOT CHORD E-F=0/0, D-E=0/0
WEBS B-D=-0/0, B-E=-146/0

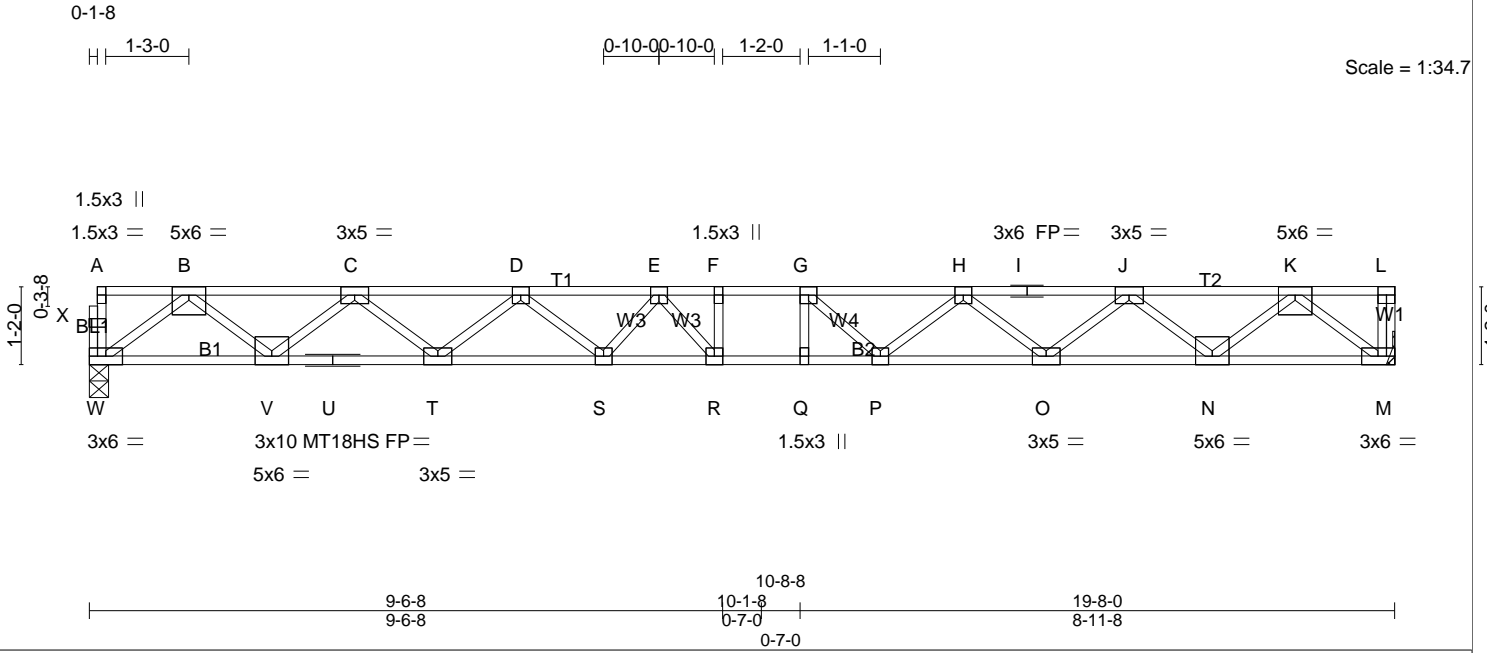
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc 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) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 1-10-4 from the left end to connect truss(es) ft14 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - 5) Fill all nail holes where hanger is in contact with lumber.
 - 6) 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: D-F=-10, A-C=-120
Concentrated Loads (lb)
Vert: G=-923(F)

Job 20032323F	Truss FT1	Truss Type Floor	Qty 8	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:15 2020 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.68	Vert(LL) -0.39 R >597 480	MT18HS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.70	Vert(CT) -0.63 R >367 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.10 M n/a n/a		
	Code IRC2015/TPI2014			Weight: 100 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) W=1255/0-3-8, M=1262/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD W-X=-46/0, A-X=-46/0, L-M=50/0, A-B=-3/0, B-C=-2707/0, C-D=-4521/0, D-E=-5565/0, E-F=-5843/0, F-G=-5843/0, G-H=-5554/0, H-I=-4523/0, I-J=-4523/0, J-K=-2707/0, K-L=0/0
 BOT CHORD V-W=0/1580, U-V=0/3802, T-U=0/3802, S-T=0/5212, R-S=0/5782, Q-R=0/5843, P-Q=0/5843, O-P=0/5218, N-O=0/3800, M-N=0/1581
 WEBS F-R=-210/73, G-Q=-152/179, B-W=-1978/0, B-V=0/1468, C-V=-1425/0, C-T=0/936, D-T=-899/0, D-S=0/493, E-S=-435/0, E-R=-266/472, K-M=-1984/0, K-N=0/1466, J-N=-1423/0, J-O=0/942, H-O=-904/0, H-P=0/575, G-P=-630/11

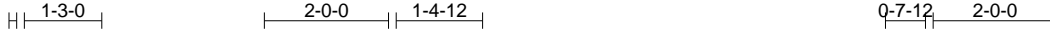
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x3 MT20 unless otherwise indicated.
 - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) 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 20032323F	Truss FT2	Truss Type FLOOR	Qty 6	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
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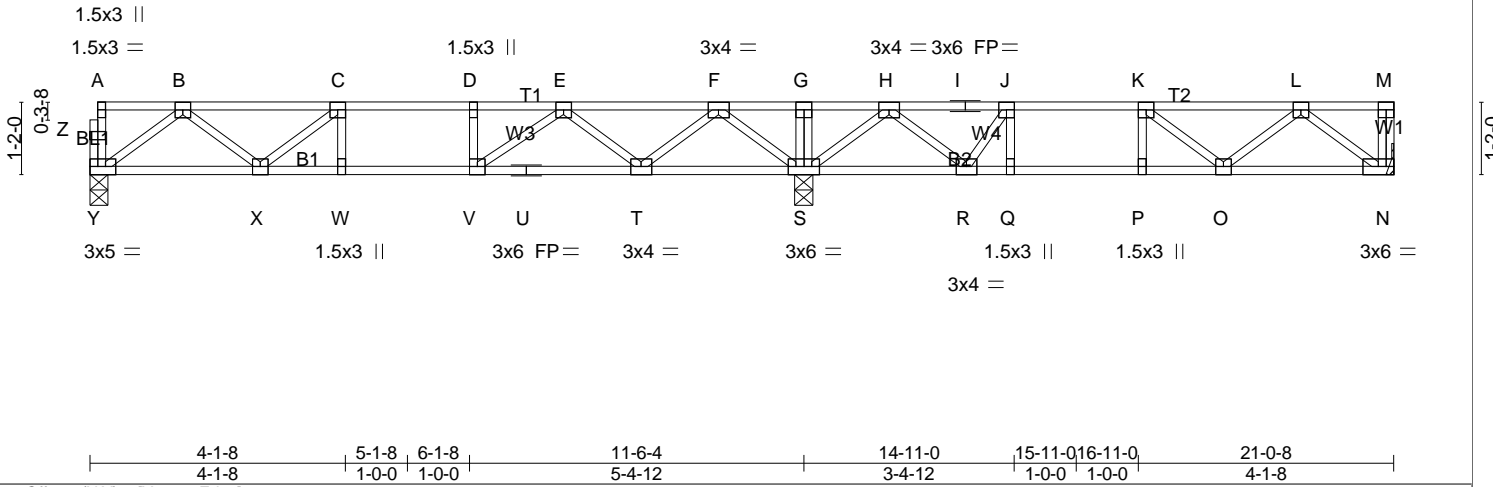


Plate Offsets (X,Y)-- [Y:0-2-0,Edge]

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 O-P >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.12 O-P >974 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.03 N n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 105 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-T,R-S
 2-2-0 oc bracing: P-Q.

REACTIONS. (lb/size) Y=655/0-3-8, S=1524/0-3-8, N=516/Mechanical
 Max GravY=673(LC 10), S=1524(LC 1), N=563(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD Y-Z=-43/0, A-Z=-43/0, M-N=-36/0, A-B=-3/0, B-C=-1247/0, C-D=-1675/0, D-E=-1675/0, E-F=-892/0, F-G=0/973, G-H=0/973, H-I=-793/106, I-J=-793/106, J-K=-1120/0, K-L=-945/0, L-M=0/0
 BOT CHORD X-Y=0/818, W-X=0/1675, V-W=0/1675, U-V=0/1423, T-U=0/1423, S-T=-38/331, R-S=-390/327, Q-R=0/1120, P-Q=0/1120, O-P=0/1120, N-O=0/684
 WEBS C-W=-59/67, D-V=-206/0, J-Q=0/304, K-P=-183/0, G-S=-160/0, B-Y=-1023/0, B-X=0/558, C-X=-546/0, F-S=-1245/0, F-T=0/776, E-T=-750/0, E-V=0/484, H-S=-995/0, H-R=0/723, L-N=-858/0, L-O=0/339, K-O=-223/104, J-R=-746/0

- 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 20032323F	Truss FT3	Truss Type Floor	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:16 2020 Page 1
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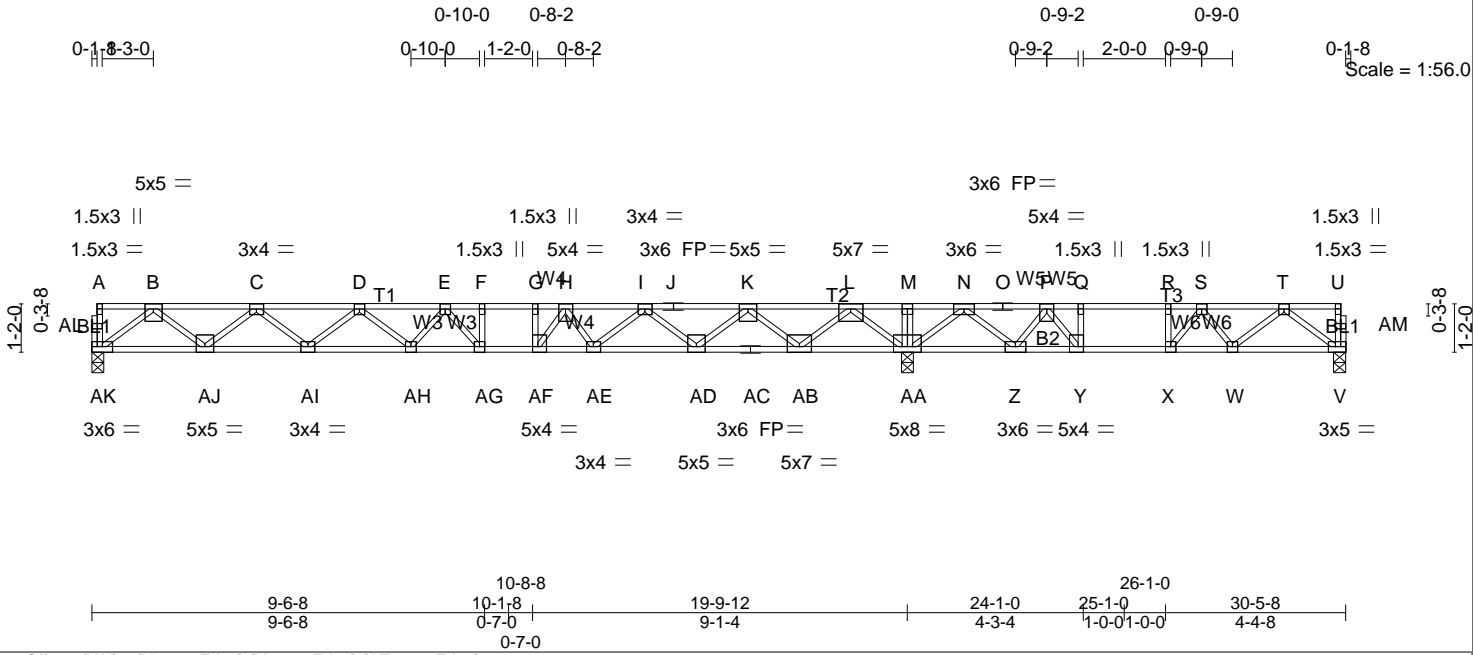


Plate Offsets (X,Y)-- [V:0-2-0,Edge], [Y:0-1-8,Edge], [AF:0-1-8,Edge]

LOADING (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.78 BC 0.65 WB 0.84 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.30 AG-AH >789 480 Vert(CT) -0.48 AG-AH >494 360 Horz(CT) 0.06 AA n/a n/a	PLATES MT20 GRIP 244/190 Weight: 154 lb FT = 20%F, 12%E
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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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) V=348/0-3-8, AK=1097/0-3-8, AA=2468/0-3-8
 Max Uplift V=41(LC 3)
 Max Grav V=523(LC 4), AK=1111(LC 3), AA=2468(LC 1)

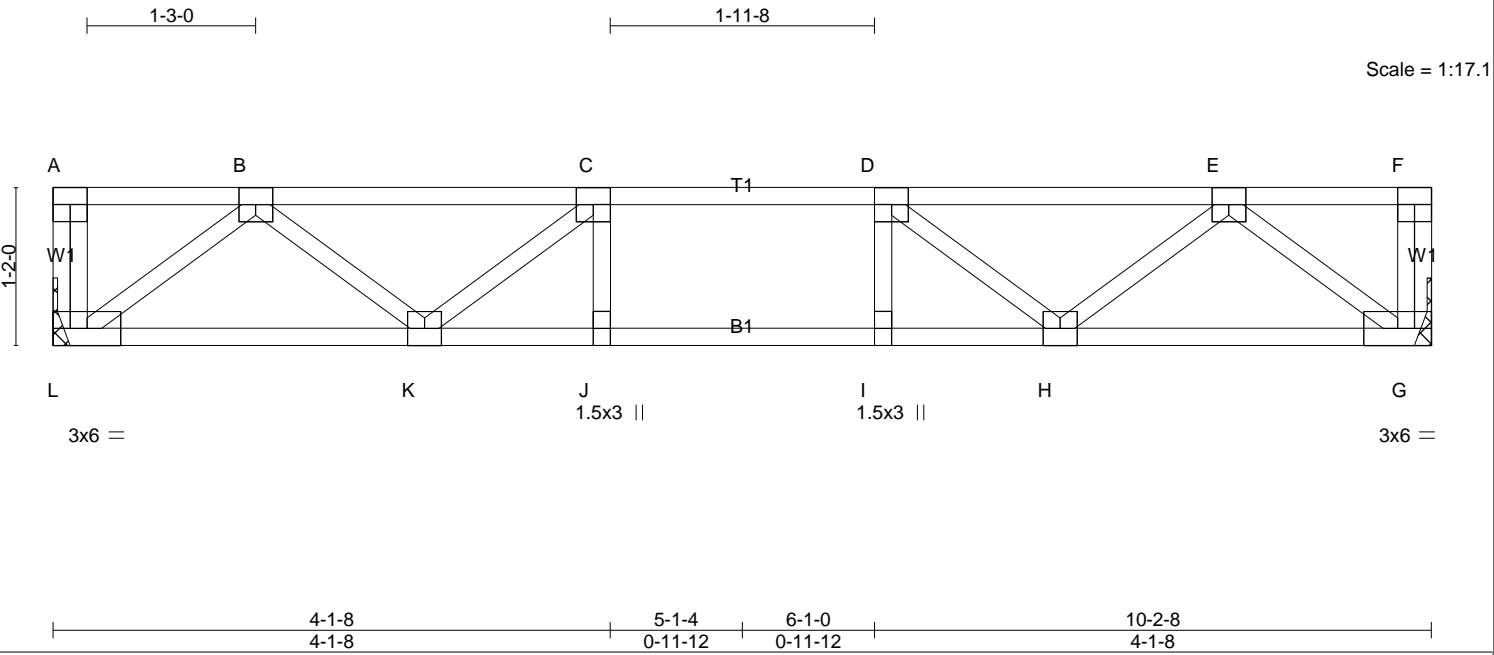
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD AK-AL=-46/0, A-AL=-46/0, V-AM=-59/0, U-AM=-59/0, A-B=-3/0, B-C=-2348/0, C-D=-3815/0, D-E=-4532/0, E-F=-4464/0, F-G=-4464/0, G-H=-4464/0, H-I=-3824/0, I-J=-2369/0, J-K=-2369/0, K-L=-117/412, L-M=0/3326, M-N=0/3326, N-O=-85/1828, O-P=-85/1828, P-Q=-913/866, Q-R=-913/866, R-S=-913/866, S-T=-901/227, T-U=-4/0
 BOT CHORD AJ-AK=0/1391, AI-AJ=0/3270, AH-AI=0/4339, AG-AH=0/4614, AF-AG=0/4464, AE-AF=0/4146, AD-AE=0/3265, AC-AD=0/1432, AB-AC=0/1432, AA-AB=-1530/0, Z-AA=-2331/0, Y-Z=-1447/492, X-Y=-866/913, W-X=-412/1016, V-W=-85/611
 WEBS F-AG=-114/218, G-AF=-464/0, Q-Y=-697/0, R-X=0/366, M-AA=-147/0, B-AK=-1742/0, B-AJ=0/1246, C-AJ=-1200/0, C-AI=0/709, D-AI=-682/0, D-AH=0/313, E-AH=-232/60, E-AG=-513/181, L-AA=-2254/0, L-AB=0/1759, K-AB=-1741/0, K-AD=0/1248, I-AD=-1194/0, I-AE=0/754, H-AE=-625/0, N-AA=-1497/0, N-Z=0/1045, P-Z=-970/0, T-V=-762/108, T-W=-186/377, S-W=-198/316, H-AF=0/830, P-Y=0/1274, S-X=-769/0

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 41 lb uplift at joint V.
 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 20032323F	Truss FT4	Truss Type Floor	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
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 ID:XTYJZa1n607AuJzbMJwUb8z?rWV-2?A4KjR2sgzBR5HJ7IRaPoguwwvPda36keKftKgzWV2a



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.64	Vert(LL) -0.06 J-K >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.23	Vert(CT) -0.08 J >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 G n/a n/a		
	Code IRC2015/TPI2014			Weight: 52 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) L=647/Mechanical, G=647/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-L=-44/0, F-G=-44/0, A-B=0/0, B-C=-1159/0, C-D=-1526/0, D-E=-1159/0, E-F=0/0
 BOT CHORD K-L=0/780, J-K=0/1526, I-J=0/1526, H-I=0/1526, G-H=0/780
 WEBS C-J=-74/101, D-I=-74/101, B-L=-979/0, B-K=0/493, C-K=-507/0, E-G=-979/0, E-H=0/493, D-H=-507/0

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) All plates are 3x3 MT20 unless otherwise indicated.
 3) The Fabrication Tolerance at joint A = 1%, joint L = 1%, joint F = 1%, joint G = 1%, joint J = 1%, joint C = 1%, joint I = 1%, joint D = 1%, joint B = 1%, joint K = 1%, joint E = 1%, joint H = 1%
 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

Job 20032323F	Truss FT5	Truss Type Floor	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:17 2020 Page 1
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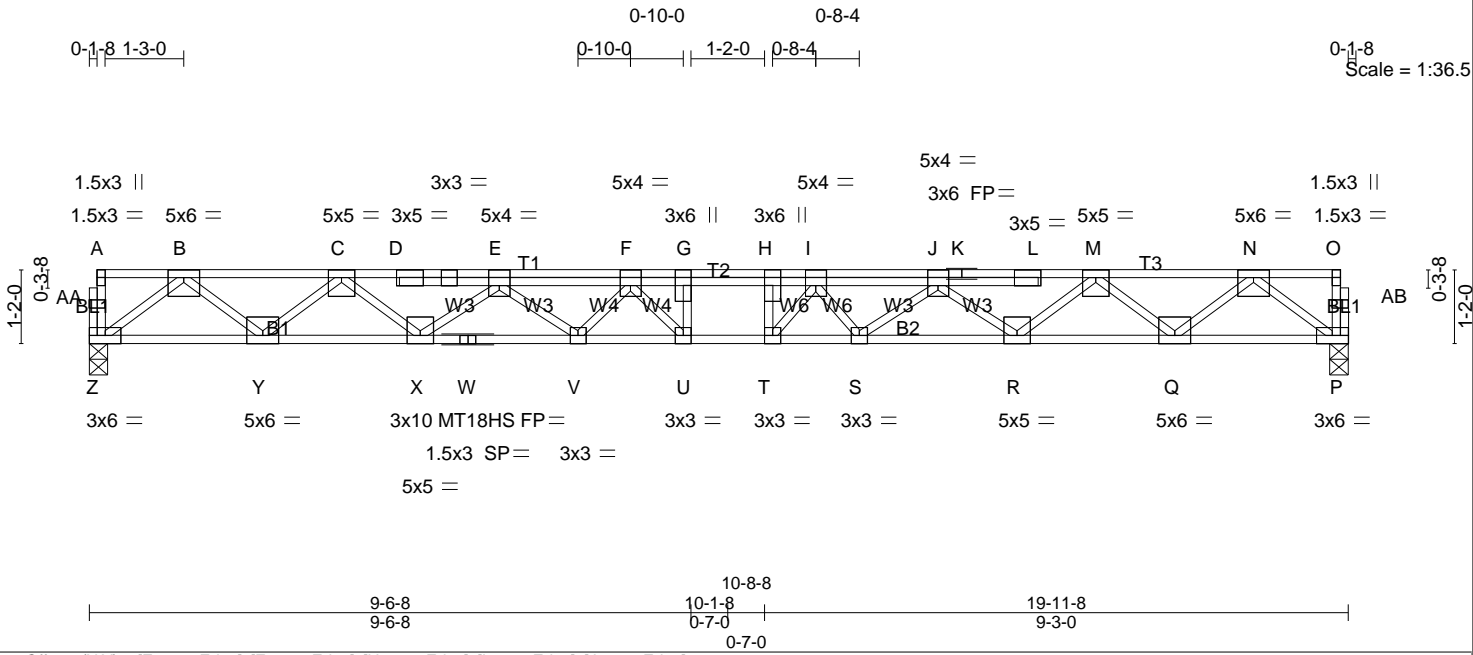


Plate Offsets (X,Y)-- [E:0-2-0,Edge], [F:0-2-0,Edge], [H:0-3-0,Edge], [I:0-2-0,Edge], [J:0-2-0,Edge]

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 0.68	Vert(LL) -0.38 U >629 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.72	Vert(CT) -0.61 T-U >387 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.11 P n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 115 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 4-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) Z=1274/0-3-8, P=1274/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD Z-AA=-40/0, A-AA=-40/0, P-AB=-40/0, O-AB=-39/0, A-B=-2/0, B-C=-2745/0, C-D=-4698/0, D-E=-4702/0, E-F=-6016/0, F-G=-6362/0, G-H=-6362/0, H-I=-6362/0, I-J=-6027/0, J-K=-4708/0, K-L=-4712/0, L-M=-4708/0, M-N=-2745/0, N-O=-2/0
 BOT CHORD Y-Z=0/1613, X-Y=0/3846, W-X=0/5574, V-W=0/5574, U-V=0/6291, T-U=0/6362, S-T=0/6251, R-S=0/5596, Q-R=0/3845, P-Q=0/1613
 WEBS G-U=-318/173, H-T=-388/153, B-Z=-2021/0, B-Y=0/1474, C-Y=-1432/0, C-X=0/1109, E-X=-1113/0, E-V=0/578, F-V=-456/0, F-U=-278/503, N-P=-2021/0, N-Q=0/1473, M-Q=-1432/0, M-R=0/1124, J-R=-1127/0, J-S=0/588, I-S=-441/0, I-T=-233/565

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 W = 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.

LOAD CASE(S) Standard

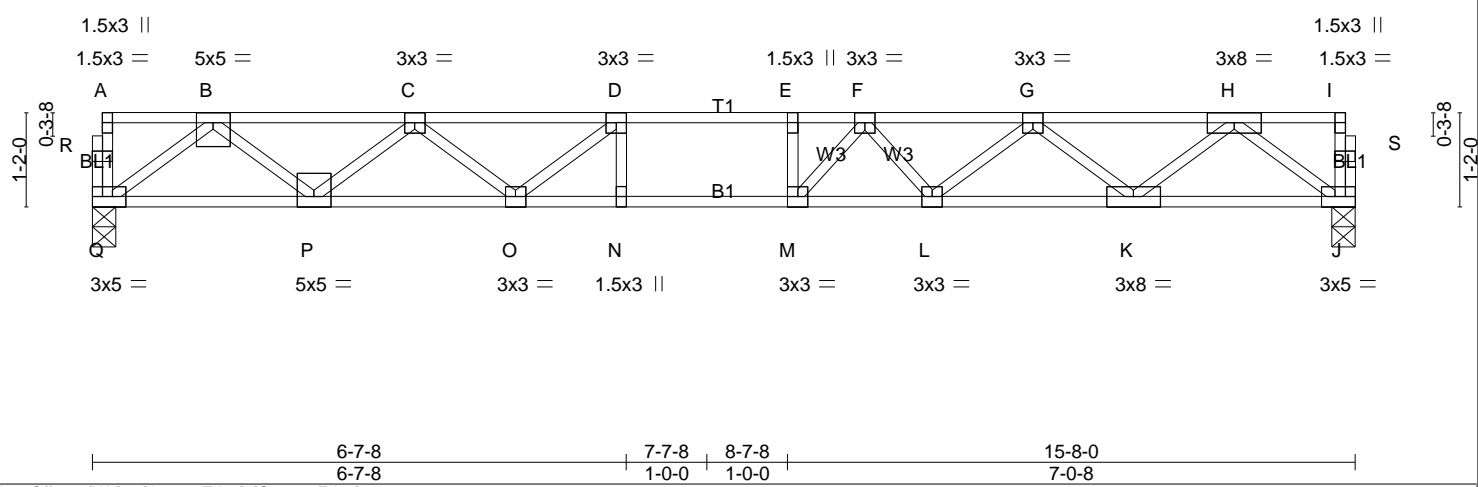
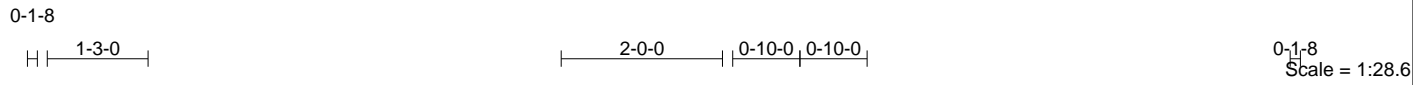


Plate Offsets (X,Y)-- [J:0-2-0,Edge], [Q:0-2-0,Edge]

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) -0.18 L-M >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.30 M-N >624 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.06 J n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 78 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 5-9-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) Q=995/0-3-8, J=995/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD Q-R=-49/0, A-R=-48/0, J-S=-44/0, I-S=-44/0, A-B=-3/0, B-C=-2056/0, C-D=-3245/0, D-E=-3659/0, E-F=-3659/0, F-G=-3256/0, G-H=-2053/0, H-I=-3/0
 BOT CHORD P-Q=0/1239, O-P=0/2838, N-O=0/3659, M-N=0/3659, L-M=0/3520, K-L=0/2833, J-K=0/1241
 WEBS D-N=-102/159, E-M=-282/0, B-Q=-1551/0, B-P=0/1064, C-P=-1018/0, C-O=0/583, D-O=-698/0, H-J=-1553/0, H-K=0/1058, G-K=-1015/0, G-L=0/551, F-L=-444/0, F-M=-92/531

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 20032323F	Truss FT7	Truss Type FLOOR	Qty 4	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:18 2020 Page 1
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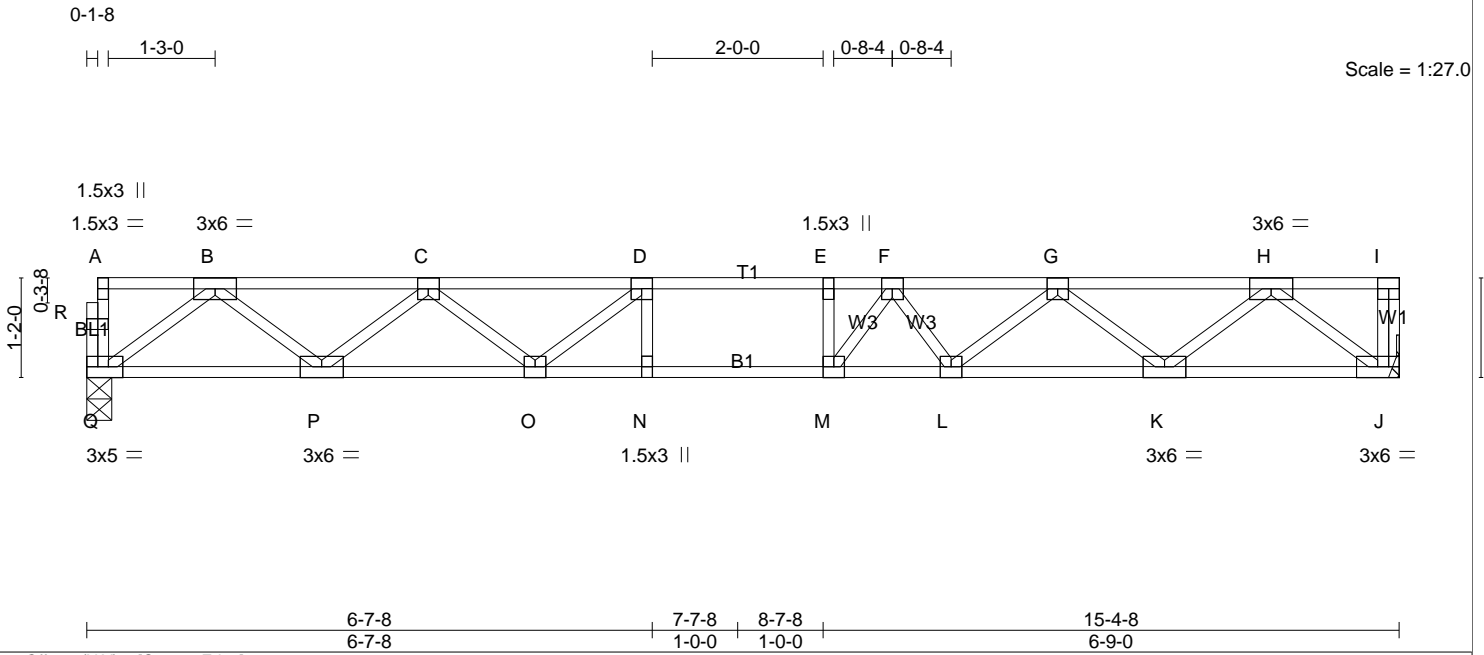


Plate Offsets (X,Y)-- [Q:0-2-0,Edge]

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 0.65	Vert(LL) -0.17 M-N >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.84	Vert(CT) -0.27 M-N >662 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.05 J n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 78 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) Q=976/0-3-8, J=983/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD Q-R=-49/0, A-R=-49/0, I-J=-48/0, A-B=-3/0, B-C=-2009/0, C-D=-3151/0, D-E=-3525/0, E-F=-3525/0, F-G=-3165/0, G-H=-2006/0, H-I=0/0
BOT CHORD P-Q=0/1213, O-P=0/2771, N-O=0/3525, M-N=0/3525, L-M=0/3379, K-L=0/2760, J-K=0/1218
WEBS D-N=-112/142, E-M=-316/0, B-Q=-1518/0, B-P=0/1036, C-P=-992/0, C-O=0/552, D-O=649/0, H-J=-1527/0, H-K=0/1027, G-K=-981/0, G-L=0/528, F-L=-432/0, F-M=-72/561

- 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 20032323F	Truss FT8	Truss Type FLOOR	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:19 2020 Page 1
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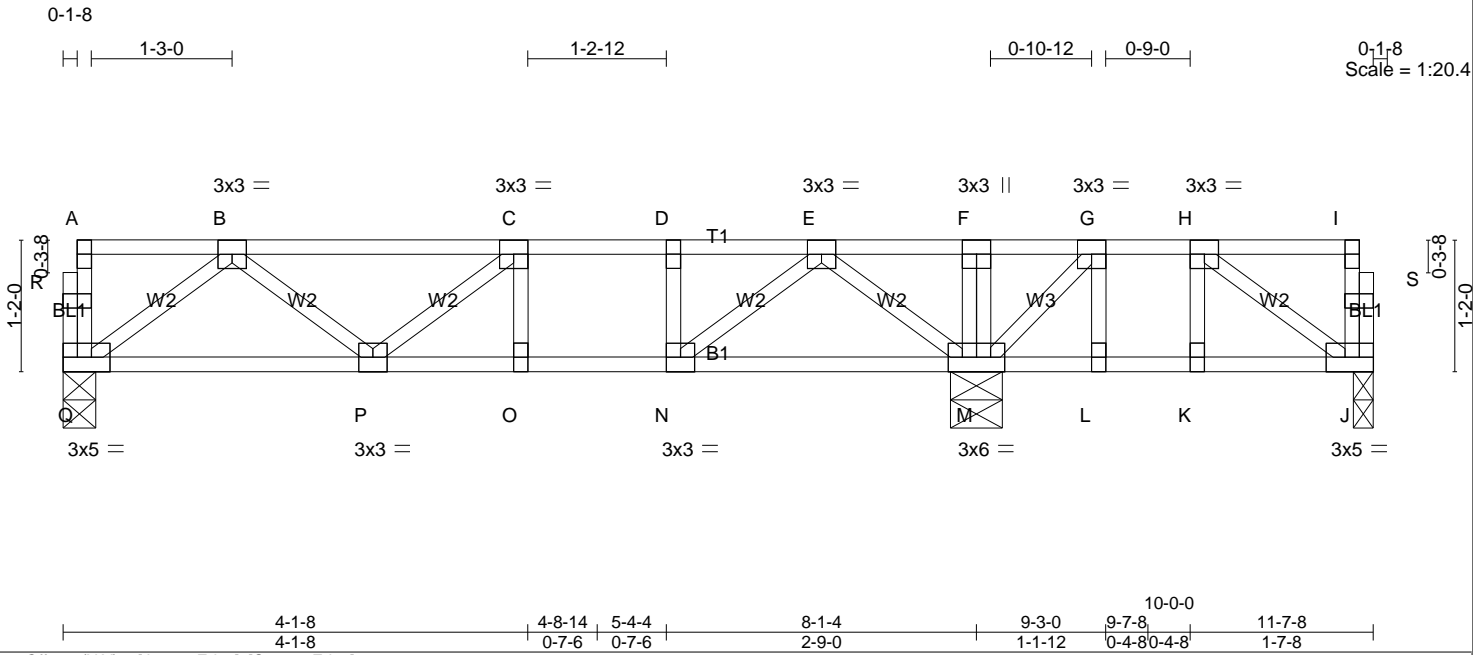


Plate Offsets (X,Y)-- [J:0-2-0,Edge], [Q:0-2-0,Edge]

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 0.41	Vert(LL) -0.04 O-P >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.57	Vert(CT) -0.06 O-P >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.01 J n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 63 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) Q=507/0-3-8, J=205/0-2-2, M=752/0-5-8
Max GravQ=510(LC 10), J=237(LC 7), M=752(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD Q-R=-30/0, A-R=-30/0, J-S=-81/0, I-S=-81/0, A-B=-2/0, B-C=-830/0, C-D=-962/0, D-E=-962/0, E-F=-84/121, F-G=-85/119, G-H=-222/0, H-I=-5/0
BOT CHORD P-Q=0/624, O-P=0/962, N-O=0/962, M-N=0/575, L-M=0/222, K-L=0/222, J-K=0/222
WEBS F-M=-170/0, B-Q=-780/0, B-P=0/269, C-P=-174/0, C-O=-115/0, E-M=-721/0, E-N=0/518, D-N=-222/0, H-J=-269/0, H-K=-39/1, G-M=-309/0, G-L=0/64

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint Q = 1%, joint A = 1%, joint J = 1%, joint I = 1%, joint F = 1%, joint B = 1%, joint P = 1%, joint C = 1%, joint O = 1%, joint E = 1%, joint N = 1%, joint D = 1%, joint H = 1%, joint K = 1%, joint M = 1%, joint G = 1%, joint L = 1%, joint R = 1%, joint S = 1%
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) J.
 - 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

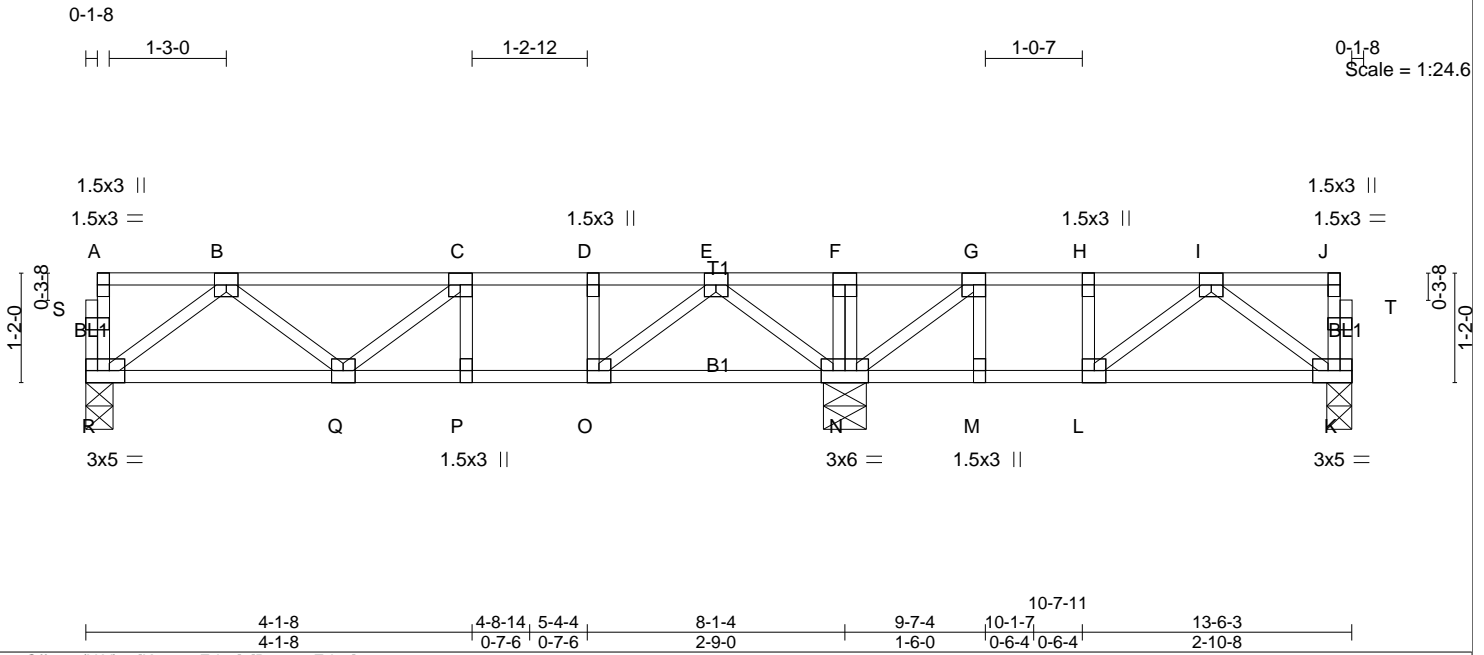


Plate Offsets (X,Y)-- [K:0-2-0,Edge], [R:0-2-0,Edge]

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) -0.04 P-Q >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.56	Vert(CT) -0.06 P-Q >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.01 K n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 71 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) R=513/0-3-8, K=339/0-3-3, N=858/0-5-8
 Max GravR=519(LC 10), K=360(LC 7), N=858(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD R-S=-31/0, A-S=-31/0, K-T=-59/0, J-T=-59/0, A-B=-2/0, B-C=-854/0, C-D=-1003/0, D-E=-1003/0, E-F=-126/78, F-G=-126/78, G-H=-481/0, H-I=-481/0, I-J=-4/0
 BOT CHORD Q-R=0/635, P-Q=0/1003, O-P=0/1003, N-O=0/634, M-N=0/481, L-M=0/481, K-L=0/379
 WEBS F-N=-180/0, B-R=-794/0, B-Q=0/285, C-Q=-190/0, C-P=-110/0, E-N=-721/0, E-O=0/515, D-O=-221/0, I-K=-471/0, I-L=0/131, H-L=-85/0, G-N=-527/0, G-M=0/74

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 MT20 unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint R = 1%, joint A = 1%, joint K = 1%, joint J = 1%, joint F = 1%, joint B = 1%, joint Q = 1%, joint C = 1%, joint P = 1%, joint E = 1%, joint O = 1%, joint D = 1%, joint I = 1%, joint L = 1%, joint H = 1%, joint N = 1%, joint G = 1%, joint M = 1%, joint S = 1%, joint T = 1%
 - 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 20032323F	Truss FT10	Truss Type FLOOR	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:20 2020 Page 1
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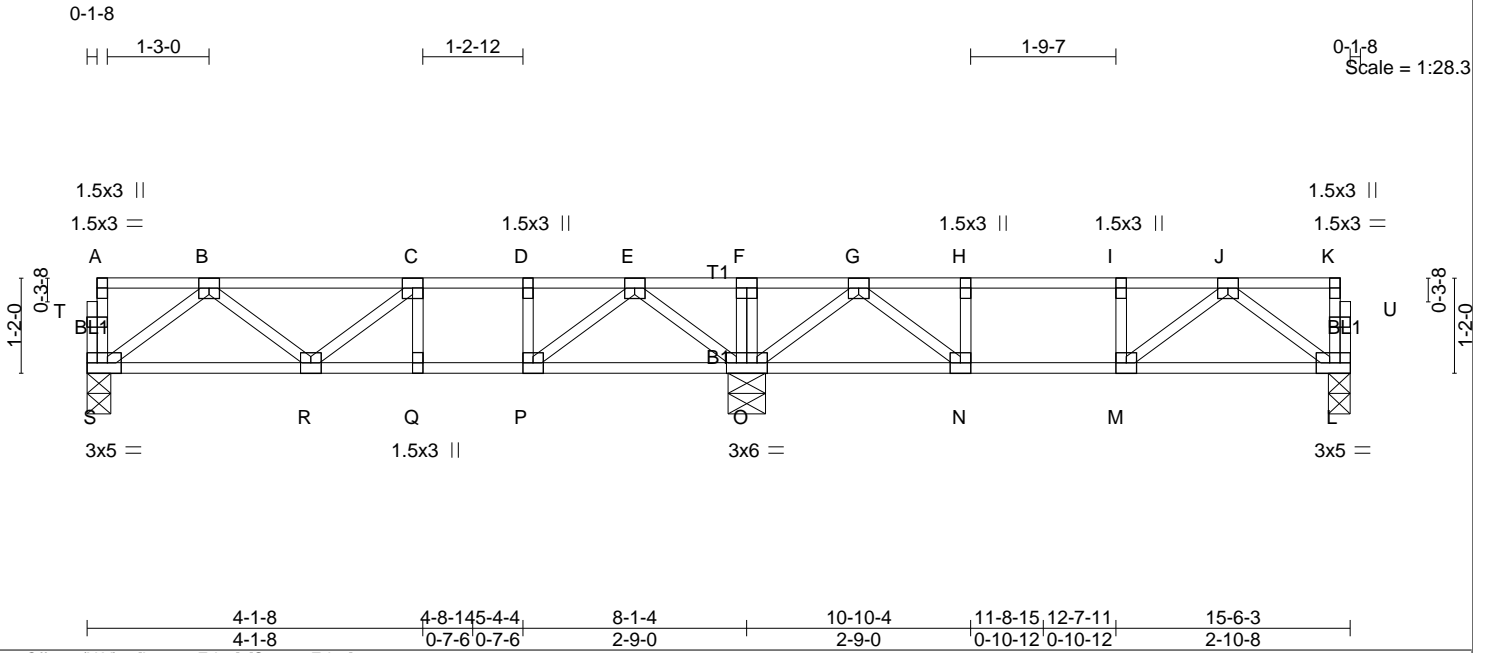


Plate Offsets (X,Y)-- [L:0-2-0,Edge], [S:0-2-0,Edge]

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 0.43	Vert(LL) -0.04 Q-R >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.60	Vert(CT) -0.06 Q-R >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.01 L n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 80 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)	

REACTIONS. (lb/size) S=487/0-3-8, L=440/0-3-3, O=1043/0-5-8
Max GravS=508(LC 10), L=452(LC 7), O=1043(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD S-T=-30/0, A-T=-30/0, L-U=-65/0, K-U=-65/0, A-B=-2/0, B-C=-825/0, C-D=-952/0, D-E=-952/0, E-F=0/265, F-G=0/265, G-H=-751/0, H-I=-751/0, I-J=-751/0, J-K=-4/0
BOT CHORD R-S=0/621, Q-R=0/952, P-Q=0/952, O-P=0/560, N-O=0/430, M-N=0/751, L-M=0/496
WEBS F-O=-202/0, B-S=-777/0, B-R=0/265, C-R=-163/0, C-Q=-132/0, E-O=-757/0, E-P=0/585, D-P=-250/0, J-L=-618/0, J-M=0/326, I-M=-186/0, G-O=-669/0, G-N=0/473, H-N=-253/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 MT20 unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint S = 1%, joint A = 1%, joint L = 1%, joint K = 1%, joint F = 1%, joint B = 1%, joint R = 1%, joint C = 1%, joint Q = 1%, joint E = 1%, joint P = 1%, joint D = 1%, joint J = 1%, joint M = 1%, joint I = 1%, joint O = 1%, joint G = 1%, joint N = 1%, joint H = 1%, joint T = 1%, joint U = 1%
 - 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 20032323F	Truss FT11	Truss Type FLOOR	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:20 2020 Page 1

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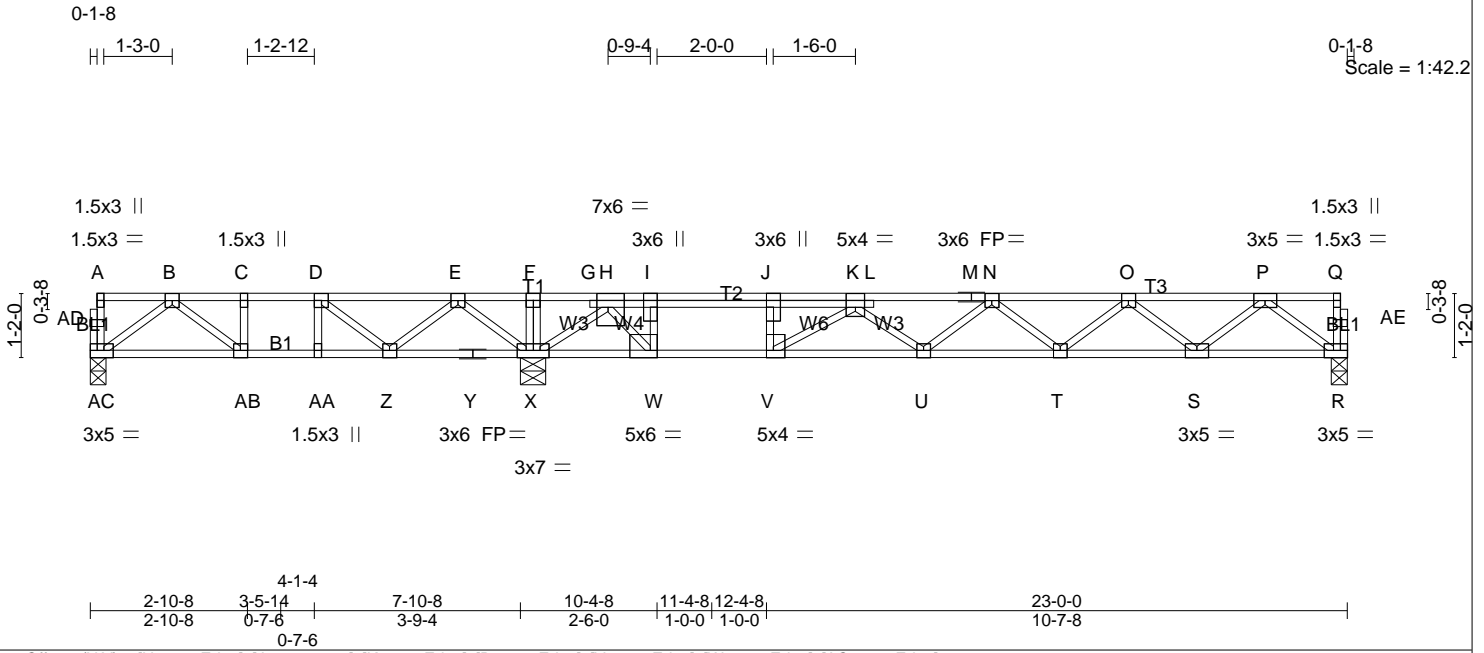


Plate Offsets (X,Y)-- [H:0-2-8,Edge], [J:0-3-0,0-0-0], [K:0-2-0,Edge], [R:0-2-0,Edge], [V:0-1-8,Edge], [W:0-1-8,Edge], [AC:0-2-0,Edge]

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 0.99	Vert(LL)	-0.21	U-V	>835	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.87	Vert(CT)	-0.35	U-V	>513		
BCLL 0.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.04	R	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH						
								Weight: 122 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
W4: 2x4 SP No.2(flat)

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

REACTIONS. (lb/size) AC=324/0-3-8, X=1768/0-5-8, R=851/0-3-8
Max GravAC=404(LC 3), X=1768(LC 1), R=871(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD AC-AD=62/0, A-AD=62/0, R-AE=-46/0, Q-AE=-46/0, A-B=-4/0, B-C=621/111, C-D=-621/111, D-E=-285/439, E-F=0/1437, F-G=0/1438, G-H=0/1421, H-I=-1535/0, I-J=-1535/0, J-K=-1535/0, K-L=-2791/0, L-M=-2809/0, M-N=-2809/0, N-O=-2630/0, O-P=-1747/0, P-Q=-3/0
BOT CHORD AB-AC=0/439, AA-AB=-111/621, Z-AA=-111/621, Y-Z=-746/0, X-Y=746/0, W-X=-292/159, V-W=0/1535, U-V=0/2653, T-U=0/2868, S-T=0/2382, R-S=0/1075
WEBS I-W=-1509/0, J-V=0/656, F-X=-253/0, B-AC=-547/0, B-AB=-164/232, C-AB=-114/67, E-X=-1012/0, E-Z=0/614, D-Z=-618/0, D-AA=-3/116, H-X=-1604/0, H-W=0/2180, P-R=-1345/0, P-S=0/875, O-S=-826/0, O-T=0/324, N-T=-309/0, N-U=-119/5, K-U=0/246, K-V=-1416/0

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 20032323F	Truss FT13	Truss Type FLOOR	Qty 5	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:21 2020 Page 1
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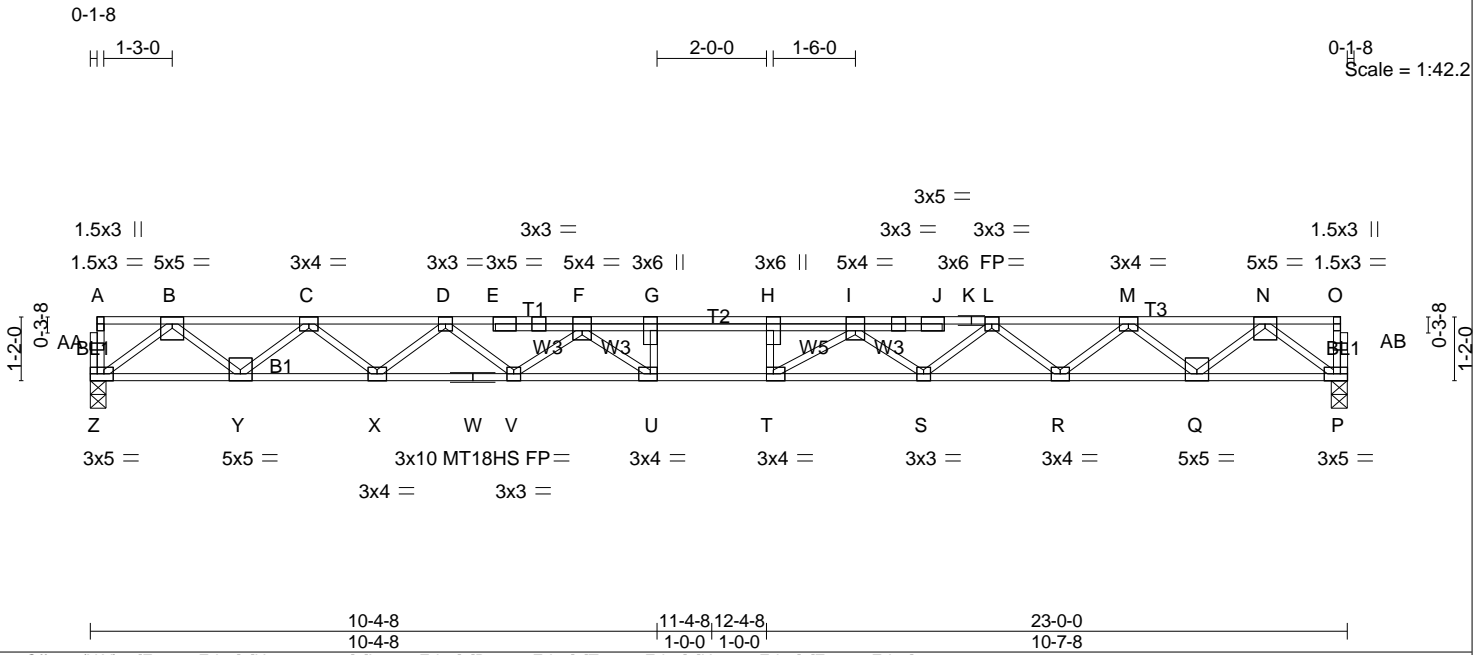


Plate Offsets (X,Y)-- [F:0-2-0,Edge], [H:0-3-0,0-0-0], [I:0-2-0,Edge], [P:0-2-0,Edge], [T:0-1-8,Edge], [U:0-1-8,Edge], [Z:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.64	Vert(LL) -0.45 T-U >604 480	MT18HS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.57	Vert(CT) -0.74 T-U >371 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.11 P n/a n/a		
	Code IRC2015/TPI2014			Weight: 124 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 4-10-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) Z=981/0-3-8, P=981/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD Z-AA=-32/0, A-AA=-32/0, P-AB=-32/0, O-AB=-32/0, A-B=-2/0, B-C=-2169/0, C-D=-3714/0, D-E=-4836/0, E-F=-4839/0, F-G=-5653/0, G-H=-5653/0, H-I=-5653/0, I-J=-4844/0, J-K=-4840/0, K-L=-4840/0, L-M=-3713/0, M-N=-2169/0, N-O=-2/0
BOT CHORD Y-Z=0/1241, X-Y=0/3074, W-X=0/4337, V-W=0/4337, U-V=0/5345, T-U=0/5653, S-T=0/5351, R-S=0/4337, Q-R=0/3074, P-Q=0/1241
WEBS G-U=-369/7, H-T=-318/12, B-Z=-1555/0, B-Y=0/1207, C-Y=-1178/0, C-X=0/834, D-X=-811/0, D-V=0/649, F-V=-647/0, F-U=-37/698, N-P=-1555/0, N-Q=0/1207, M-Q=-1178/0, M-R=0/833, L-R=-811/0, L-S=0/656, I-S=-648/0, I-T=-53/682

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

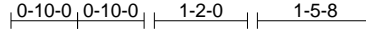
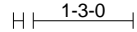
Job 20032323F	Truss FT14	Truss Type FLOOR	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:21 2020 Page 1

ID:XTYJZa1n607AuJzbMJwUb8z?rWV-wmQb95UYwvTdwjb4M8VWZerRKWI?V0MKZyd5TRzWV2W

0-1-8



Scale = 1:28.9

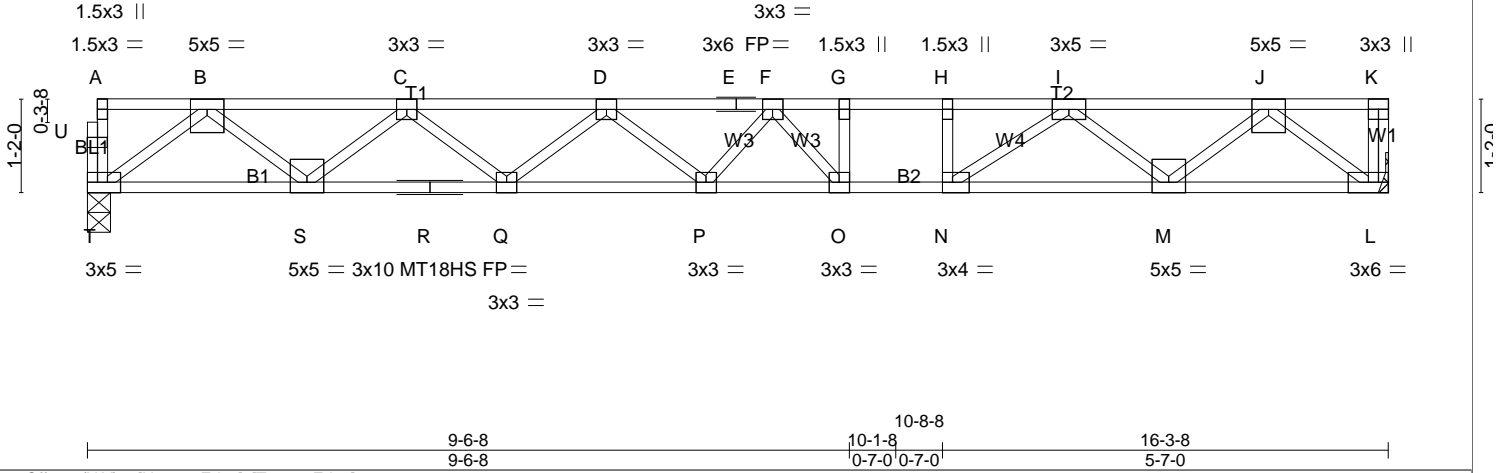


Plate Offsets (X,Y)-- [N:0-1-8,Edge], [T:0-2-0,Edge]

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 0.86	Vert(LL) -0.24 O-P >818 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.38 O-P >504 360	MT18HS 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.06 L n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 83 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) T=1035/0-3-8, L=1043/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD T-U=-46/0, A-U=-46/0, K-L=-46/0, A-B=-3/0, B-C=-2158/0, C-D=-3441/0, D-E=-3990/0, E-F=-3990/0, F-G=-3721/0, G-H=-3721/0, H-I=-3721/0, I-J=-2133/0, J-K=0/0
BOT CHORD S-T=0/1292, R-S=0/2988, Q-R=0/2988, P-Q=0/3879, O-P=0/3992, N-O=0/3721, M-N=0/2979, L-M=0/1294
WEBS G-O=-59/220, H-N=-357/0, B-T=-1617/0, B-S=0/1128, C-S=-1081/0, C-Q=0/589, D-Q=-570/0, D-P=0/232, F-P=-149/109, F-O=-580/60, J-L=-1624/0, J-M=0/1092, I-M=-1102/0, I-N=0/1007

- 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

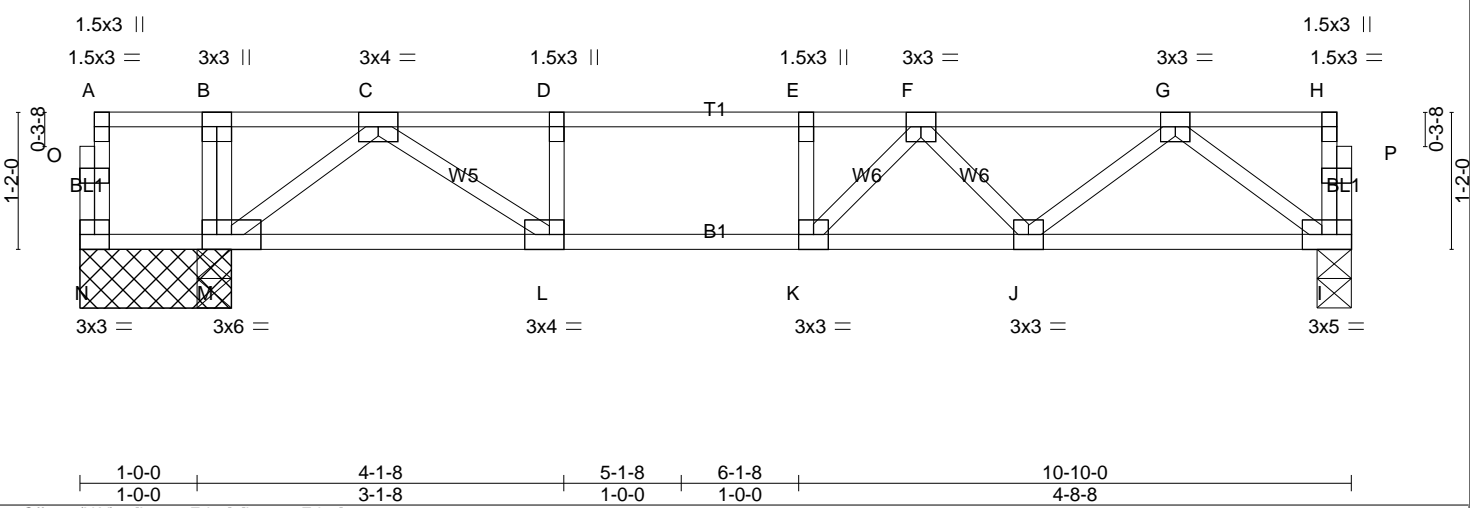
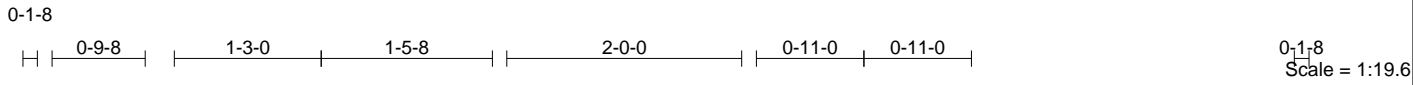


Plate Offsets (X,Y)-- [L:0-2-0,Edge], [L:0-1-8,Edge]

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 0.69	Vert(LL) -0.09 J-K >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.13 J-K >885 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.02 I n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 56 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: M-N.

REACTIONS. (lb/size) N=43/1-3-8, I=611/0-3-8, M=707/1-3-8, M=707/1-3-8
 Max GravN=66(LC 10), I=611(LC 4), M=707(LC 1), M=707(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD N-O=-45/4, A-O=-45/4, I-P=-52/0, H-P=-52/0, A-B=-3/0, B-C=-3/0, C-D=-1324/0, D-E=-1324/0, E-F=-1324/0, F-G=-1111/0, G-H=-3/0
 BOT CHORD M-N=-0/3, L-M=0/692, K-L=0/1324, J-K=0/1338, I-J=0/731
 WEBS D-L=-348/0, E-K=-141/0, G-I=-913/0, G-J=0/495, F-J=-342/0, F-K=-114/198, B-M=-190/0, C-M=-868/0, C-L=0/776

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 20032323F	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, Rob Ferber

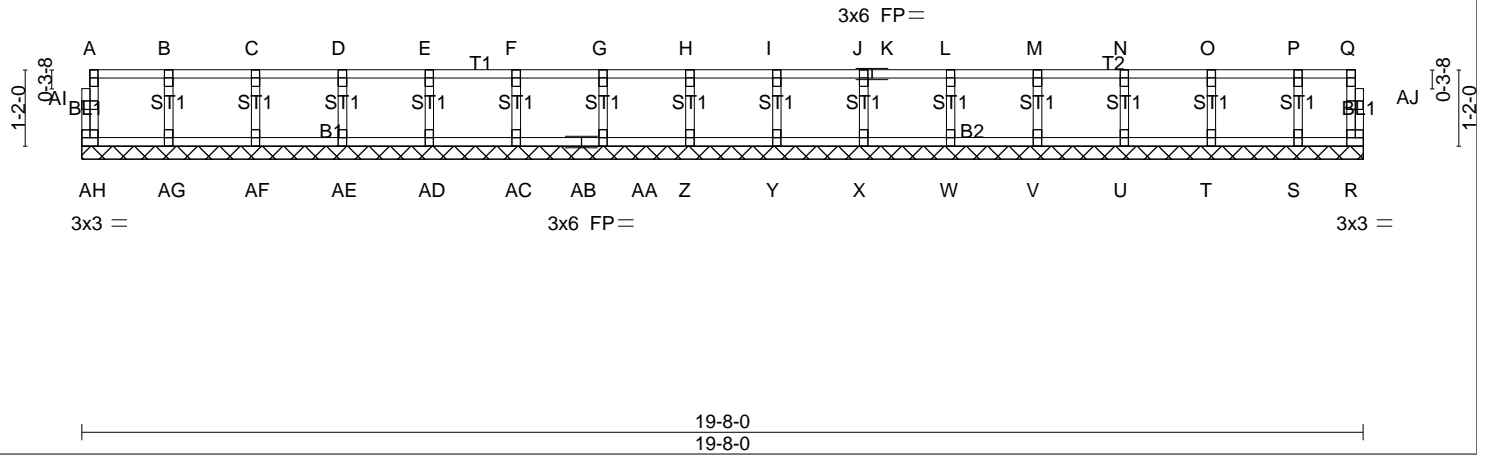
8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:22 2020 Page 1

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0-1-8

0-1-8

Scale = 1:35.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl 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 R n/a n/a		
	Code IRC2015/TPI2014			Weight: 82 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) AH=63/19-8-0, R=43/19-8-0, AG=173/19-8-0, AF=174/19-8-0, AE=173/19-8-0, AD=173/19-8-0, AC=173/19-8-0, AA=173/19-8-0, Z=173/19-8-0, Y=173/19-8-0, X=173/19-8-0, W=173/19-8-0, V=174/19-8-0, U=172/19-8-0, T=179/19-8-0, S=145/19-8-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD AH-AI=-59/0, A-AI=-59/0, R-AJ=-37/0, Q-AJ=-37/0, 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, I-J=-8/0, J-K=-8/0, K-L=-8/0, L-M=-8/0, M-N=-8/0, N-O=-8/0, O-P=-8/0, P-Q=-8/0
BOT CHORD AG-AH=0/8, AF-AG=0/8, AE-AF=0/8, AD-AE=0/8, AC-AD=0/8, AB-AC=0/8, AA-AB=0/8, Z-AA=0/8, Y-Z=0/8, X-Y=0/8, W-X=0/8, V-W=0/8, U-V=0/8, T-U=0/8, S-T=0/8, R-S=0/8
WEBS B-AG=-158/0, C-AF=-161/0, D-AE=-160/0, E-AD=-160/0, F-AC=-160/0, G-AA=-160/0, H-Z=-160/0, I-Y=-160/0, J-X=-160/0, L-W=-160/0, M-V=-160/0, N-U=-159/0, O-T=-165/0, P-S=-136/0

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint AH = 1%, joint AB = 4%, joint A = 1%, joint R = 1%, joint Q = 1%, joint K = 4%, joint AG = 1%, joint B = 1%, joint AF = 1%, joint C = 1%, joint AE = 1%, joint D = 1%, joint AD = 1%, joint E = 1%, joint AC = 1%, joint F = 1%, joint AA = 1%, joint G = 1%, joint Z = 1%, joint H = 1%, joint Y = 1%, joint I = 1%, joint X = 1%, joint J = 1%, joint W = 1%, joint L = 1%, joint V = 1%, joint M = 1%, joint U = 1%, joint N = 1%, joint T = 1%, joint O = 1%, joint S = 1%, joint P = 1%, joint AI = 1%, joint AJ = 1%
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - 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 20032323F	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, Rob Ferber

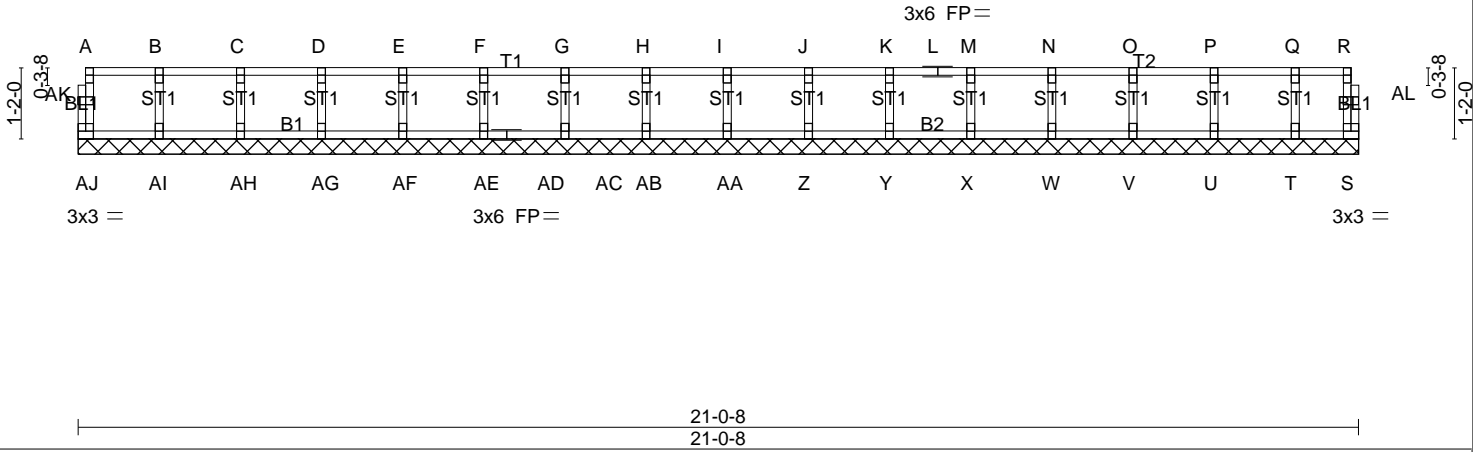
8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:23 2020 Page 1

ID:XTYJZa1n607AuJzbMJwUb8z?rWV-t9XLanWpSWjK90ITUZY_e3wzqKbL_qgc0G6CXJzWV2U

0-1-8

0-1-8

Scale = 1:37.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl 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 S n/a n/a		
	Code IRC2015/TPI2014			Weight: 88 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) AJ=63/21-0-8, S=46/21-0-8, AI=173/21-0-8, AH=174/21-0-8, AG=173/21-0-8, AF=173/21-0-8, AE=173/21-0-8, AC=173/21-0-8, AB=173/21-0-8, AA=173/21-0-8, Z=173/21-0-8, Y=173/21-0-8, X=173/21-0-8, W=174/21-0-8, V=172/21-0-8, U=179/21-0-8, T=148/21-0-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD AJ-AK=-59/0, A-AK=-59/0, S-AL=-40/0, R-AL=-40/0, 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, I-J=-8/0, J-K=-8/0, K-L=-8/0, L-M=-8/0, M-N=-8/0, N-O=-8/0, O-P=-8/0, P-Q=-8/0, Q-R=-8/0
BOT CHORD AI-AJ=0/8, AH-AI=0/8, AG-AH=0/8, AF-AG=0/8, AE-AF=0/8, AD-AE=0/8, AC-AD=0/8, AB-AC=0/8, AA-AB=0/8, Z-AA=0/8, Y-Z=0/8, X-Y=0/8, W-X=0/8, V-W=0/8, U-V=0/8, T-U=0/8, S-T=0/8
WEBS B-AI=-158/0, C-AH=-161/0, D-AG=-160/0, E-AF=-160/0, F-AE=-160/0, G-AC=-160/0, H-AB=-160/0, I-AA=-160/0, J-Z=-160/0, K-Y=-160/0, M-X=-160/0, N-W=-160/0, O-V=-159/0, P-U=-165/0, Q-T=-139/0

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint AJ = 1%, joint AD = 4%, joint A = 1%, joint S = 1%, joint R = 1%, joint L = 4%, joint AI = 1%, joint B = 1%, joint AH = 1%, joint C = 1%, joint AG = 1%, joint D = 1%, joint AF = 1%, joint E = 1%, joint AE = 1%, joint F = 1%, joint AC = 1%, joint G = 1%, joint AB = 1%, joint H = 1%, joint AA = 1%, joint I = 1%, joint Z = 1%, joint J = 1%, joint Y = 1%, joint K = 1%, joint X = 1%, joint M = 1%, joint W = 1%, joint N = 1%, joint V = 1%, joint O = 1%, joint U = 1%, joint P = 1%, joint T = 1%, joint Q = 1%, joint AK = 1%, joint AL = 1%
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - 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 20032323F	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, Rob Ferber

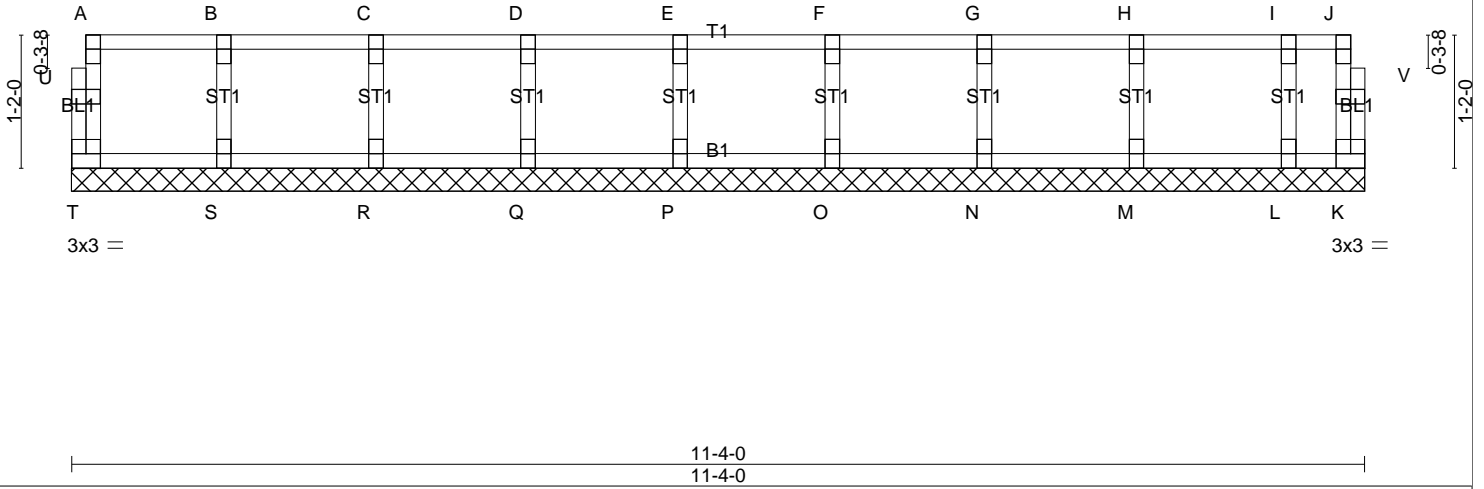
8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:23 2020 Page 1

ID:XTYJZa1n607AuJzbMJwUb8z?rWV-t9XLanWpSWjK90ITUZY_e3wzpkbB_qgc0G6CXJzWV2U

0-1-8

0-1-8

Scale = 1:20.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl 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 K n/a n/a		
	Code IRC2015/TPI2014			Weight: 49 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) T=62/11-4-0, K=19/11-4-0, S=174/11-4-0, R=173/11-4-0, Q=173/11-4-0, P=173/11-4-0, O=174/11-4-0, N=171/11-4-0, M=181/11-4-0, L=124/11-4-0

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) The Fabrication Tolerance at joint T = 1%, joint K = 1%, joint A = 1%, joint J = 1%, joint S = 1%, joint B = 1%, joint R = 1%, joint C = 1%, joint Q = 1%, joint D = 1%, joint P = 1%, joint E = 1%, joint O = 1%, joint F = 1%, joint N = 1%, joint G = 1%, joint M = 1%, joint H = 1%, joint L = 1%, joint I = 1%, joint U = 1%, joint V = 1%
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 20032323F	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, Rob Ferber

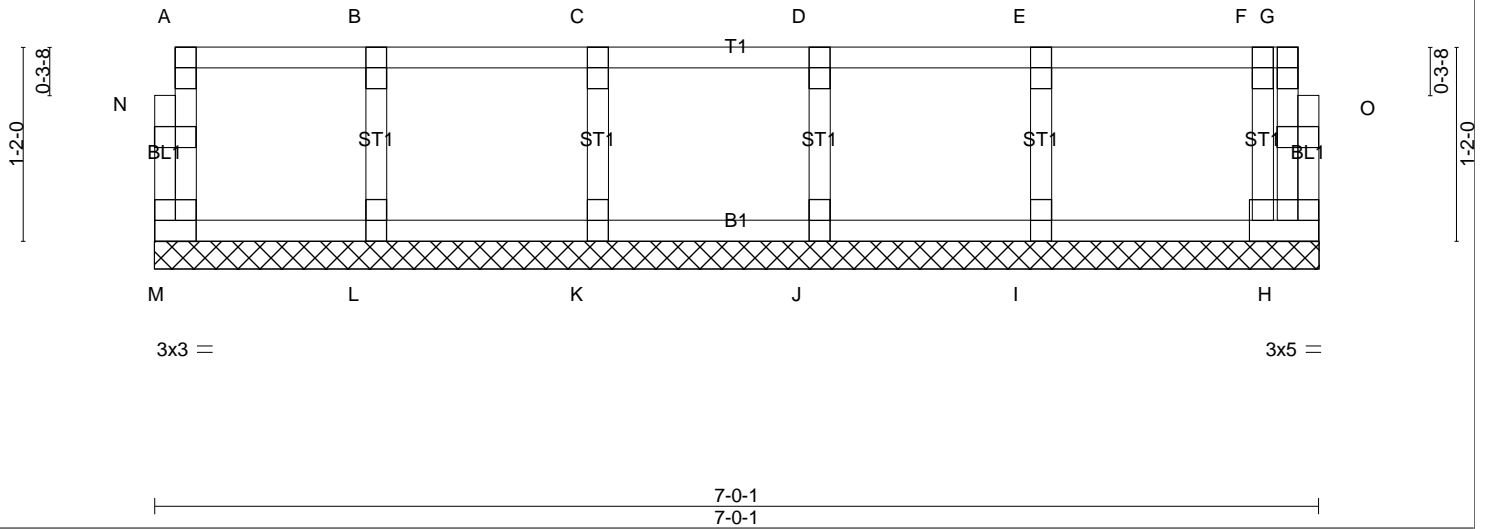
8.320 s Nov 19 2019 MiTek Industries, Inc. Sat Mar 28 06:54:23 2020 Page 1

ID:XTYJZa1n607AuJzbMJwUb8z?rWV-t9XLanWpSWjK90ITUZY_e3wzjKb5_qfc0G6CXJzWV2U

0'-1 7/8

0'-1 7/8

Scale = 1:13.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.03	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 H n/a n/a		
	Code IRC2015/TPI2014			Weight: 32 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) M=73/7-0-1, H=95/7-0-1, L=160/7-0-1, K=178/7-0-1, J=168/7-0-1, I=188/7-0-1

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD M-N=-65/0, A-N=-64/0, H-O=0/26, G-O=0/26, A-B=-18/0, B-C=-18/0, C-D=-18/0, D-E=-18/0, E-F=-18/0, F-G=-3/0
BOT CHORD L-M=0/18, K-L=0/18, J-K=0/18, I-J=0/18, H-I=0/18
WEBS B-L=-152/0, C-K=-163/0, D-J=-157/0, E-I=-171/0, F-H=-117/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) The Fabrication Tolerance at joint M = 1%, joint H = 1%, joint A = 1%, joint G = 1%, joint L = 1%, joint B = 1%, joint K = 1%, joint C = 1%, joint J = 1%, joint D = 1%, joint I = 1%, joint E = 1%, joint F = 1%, joint N = 1%, joint O = 1%
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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