

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

Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 11:16:48 2020 Page 1
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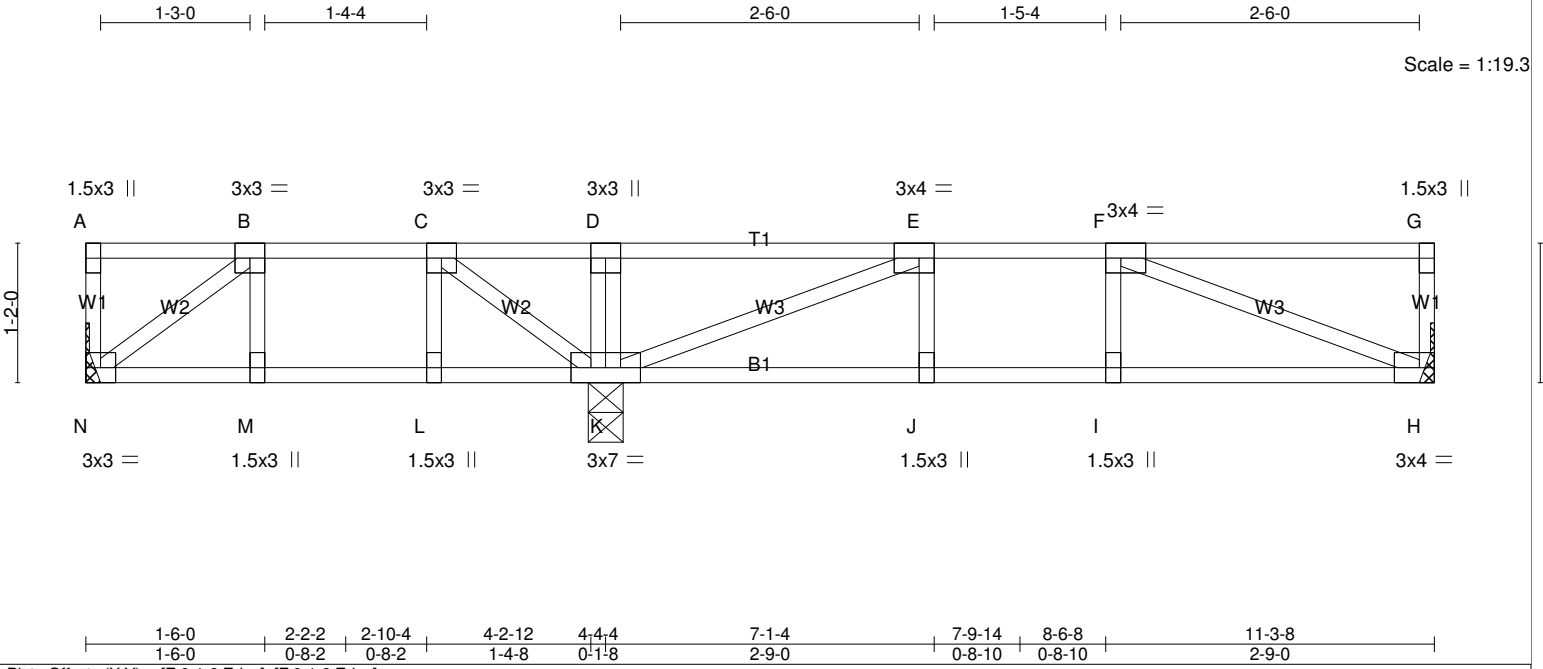


Plate Offsets (X,Y)-- [E:0-1-8,Edge], [F:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.54	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.34	Vert(LL) -0.03 H-I >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.22	Vert(CT) -0.05 H-I >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 H n/a n/a		
	Code IRC2015/TPI2014			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.
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REACTIONS. (lb/size) K=753/0-3-8 (min. 0-1-8), N=265/Mechanical, H=434/Mechanical
 Max Grav K=763(LC 9), N=297(LC 10), H=442(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-N=-78/0, G-H=-140/0, A-B=0/0, B-C=-311/0, C-D=-92/118, D-E=-87/129, E-F=-737/0, F-G=0/0
 BOT CHORD M-N=0/311, L-M=0/311, K-L=0/311, J-K=0/737, I-J=0/737, H-I=0/737
 WEBS D-K=-285/0, B-N=-391/0, B-M=-26/29, F-H=-793/0, F-I=-22/44, E-K=-795/0, E-J=-5/65, C-K=-363/0, C-L=0/46

- 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) CAUTION, Do not erect truss backwards.

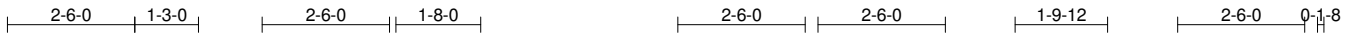
LOAD CASE(S) Standard

Job 19031362	Truss F101	Truss Type Floor	Qty 5	Ply 1	WINSTON EURO
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Job Reference (optional)

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

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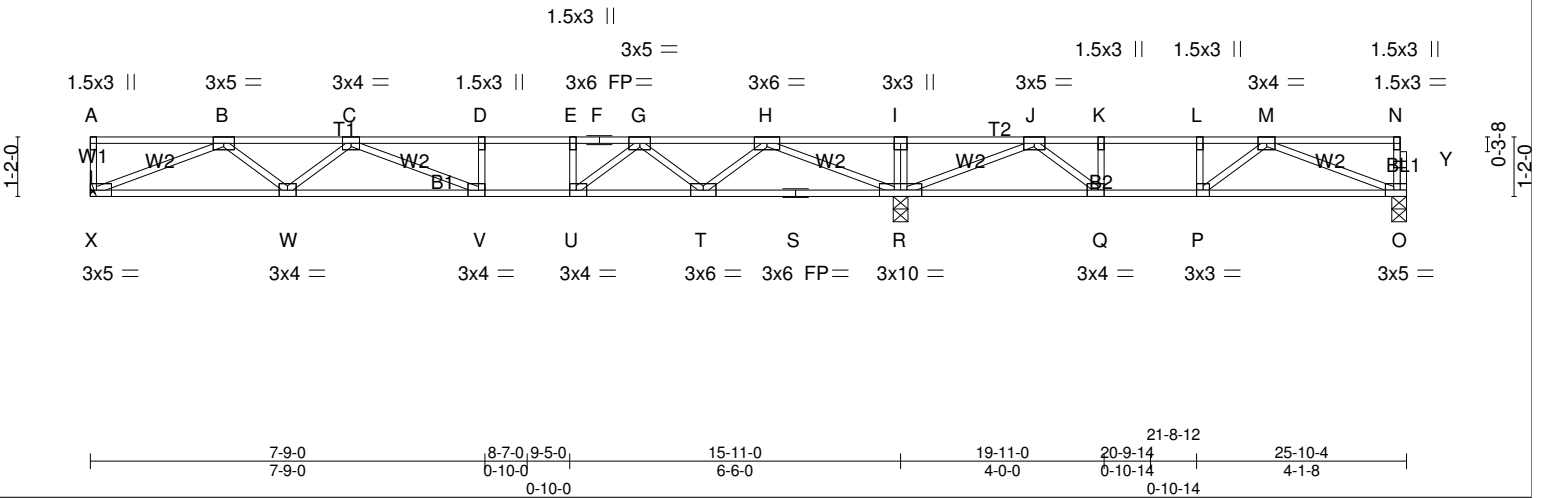


Plate Offsets (X,Y)-- [O:0-2-0,Edge], [Q:0-1-8,Edge], [U:0-1-8,Edge], [V:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.95	Vert(LL) -0.24 V-W >803 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.70	Vert(CT) -0.39 V-W >487 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.05 O n/a n/a		
	Code IRC2015/TPI2014			Weight: 125 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) X=926/Mechanical, O=461/0-3-8 (min. 0-1-8), R=1942/0-3-8 (min. 0-1-8)
Max Grav X=941(LC 10), O=544(LC 4), R=1942(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-X=-129/0, O-Y=-125/0, N-Y=-125/0, A-B=0/0, B-C=-2539/0, C-D=-3159/0, D-E=-3159/0, E-F=-3159/0, F-G=-3159/0, G-H=-1811/0, H-I=0/1569, I-J=0/1569, J-K=-1061/120, K-L=-1061/120, L-M=-1061/120, M-N=-8/0
 BOT CHORD W-X=0/1967, V-W=0/3031, U-V=0/3159, T-U=0/2552, S-T=0/1078, R-S=0/1078, Q-R=-556/621, P-Q=-120/1061, O-P=0/1001
 WEBS I-R=-363/0, B-X=-2123/0, B-W=0/745, C-W=-640/0, C-V=-167/393, D-V=-138/0, H-R=-2547/0, H-T=0/986, G-T=-1011/0, G-U=0/964, E-U=-414/0, M-O=-1069/0, M-P=-258/77, L-P=-47/140, J-R=-1645/0, J-Q=0/868, K-Q=-435/0

- 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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

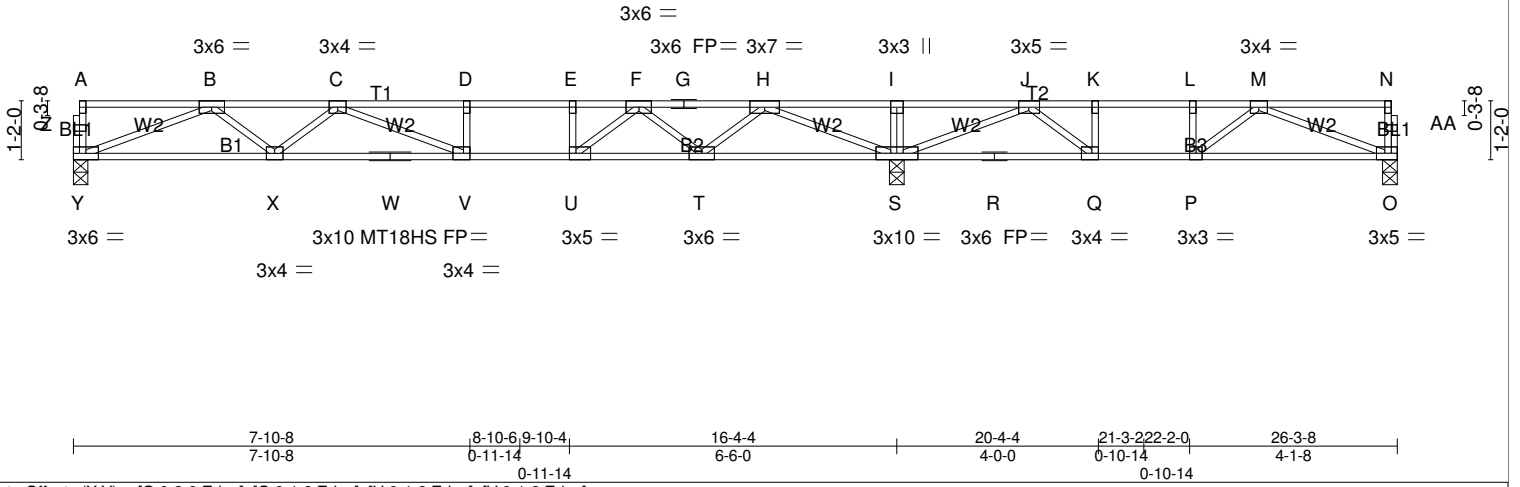
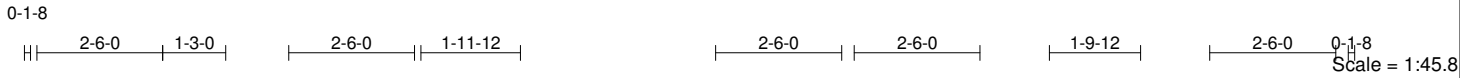


Plate Offsets (X,Y)-- [O:0-2-0,Edge], [Q:0-1-8,Edge], [U:0-1-8,Edge], [V:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.66	Vert(LL) -0.26 V-X >759 480	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.71	Vert(CT) -0.42 V-X >467 360		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	Horz(CT) 0.05 O n/a n/a		
				Weight: 127 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 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: Q-S,P-Q.

REACTIONS. (lb/size) Y=947/0-3-8 (min. 0-1-8), S=1960/0-3-8 (min. 0-1-8), O=464/0-3-8 (min. 0-1-8)
 Max Grav Y=961(LC 10), S=1960(LC 1), O=546(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD Y-Z=-130/0, A-Z=-130/0, O-AA=-126/0, N-AA=-126/0, A-B=-8/0, B-C=-2670/0, C-D=-3341/0, D-E=-3341/0, E-F=-3341/0, F-G=-1901/0, G-H=-1901/0, H-I=0/1533, I-J=0/1533, J-K=-1071/111, K-L=-1071/111, L-M=-1071/111, M-N=-8/0
 BOT CHORD X-Y=0/2072, W-X=0/3183, V-W=0/3183, U-V=0/3341, T-U=0/2673, S-T=0/1146, R-S=-543/635, Q-R=-543/635, P-Q=-111/1071, O-P=0/1006
 WEBS I-S=-365/0, B-Y=-2220/0, B-X=0/779, C-X=-668/0, C-V=-129/431, D-V=-153/0, H-S=-2594/0, H-T=0/1012, F-T=-1049/0, F-U=0/1041, E-U=-456/0, J-S=-1632/0, J-Q=0/863, K-Q=-434/0, M-O=-1075/0, M-P=-253/83, L-P=-49/138

- 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 1.5x3 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

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

Scale = 1:13.9

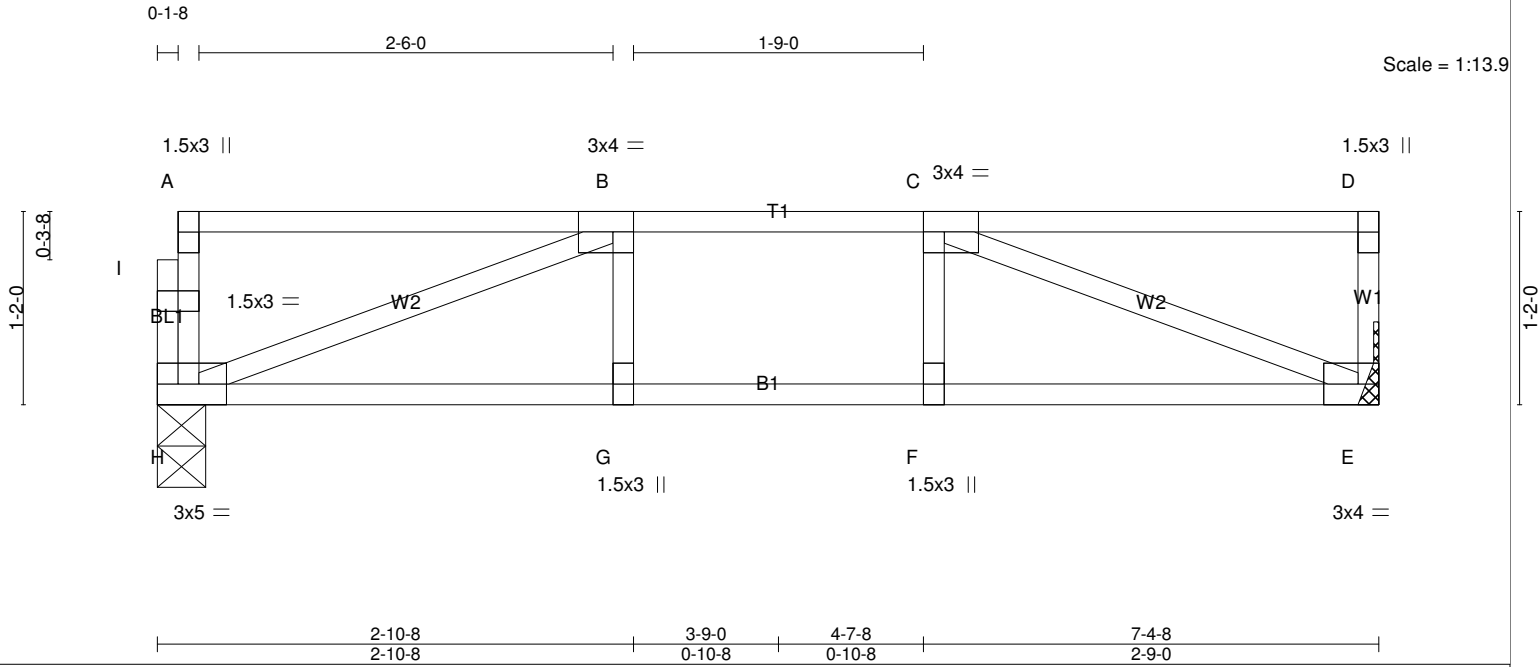


Plate Offsets (X,Y)-- [B:0-1-8,Edge], [C:0-1-8,Edge], [H:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.41	Vert(LL) -0.05 G-H >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.24	Vert(CT) -0.06 G-H >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 36 lb	FT = 20%F, 12%E

<p>LUMBER-</p> <p>TOP CHORD 2x4 SP No.2(flat)</p> <p>BOT CHORD 2x4 SP No.2(flat)</p> <p>WEBS 2x4 SP No.3(flat)</p>	<p>BRACING-</p> <p>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p>
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REACTIONS. (lb/size) H=460/0-3-8 (min. 0-1-8), E=467/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD H-I=-142/0, A-I=-142/0, D-E=-141/0, A-B=-9/0, B-C=-813/0, C-D=0/0

BOT CHORD G-H=0/813, F-G=0/813, E-F=0/813

WEBS B-H=-863/0, B-G=-23/66, C-E=-875/0, C-F=-20/70

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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job Reference (optional)

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

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 11:17:06 2020 Page 1
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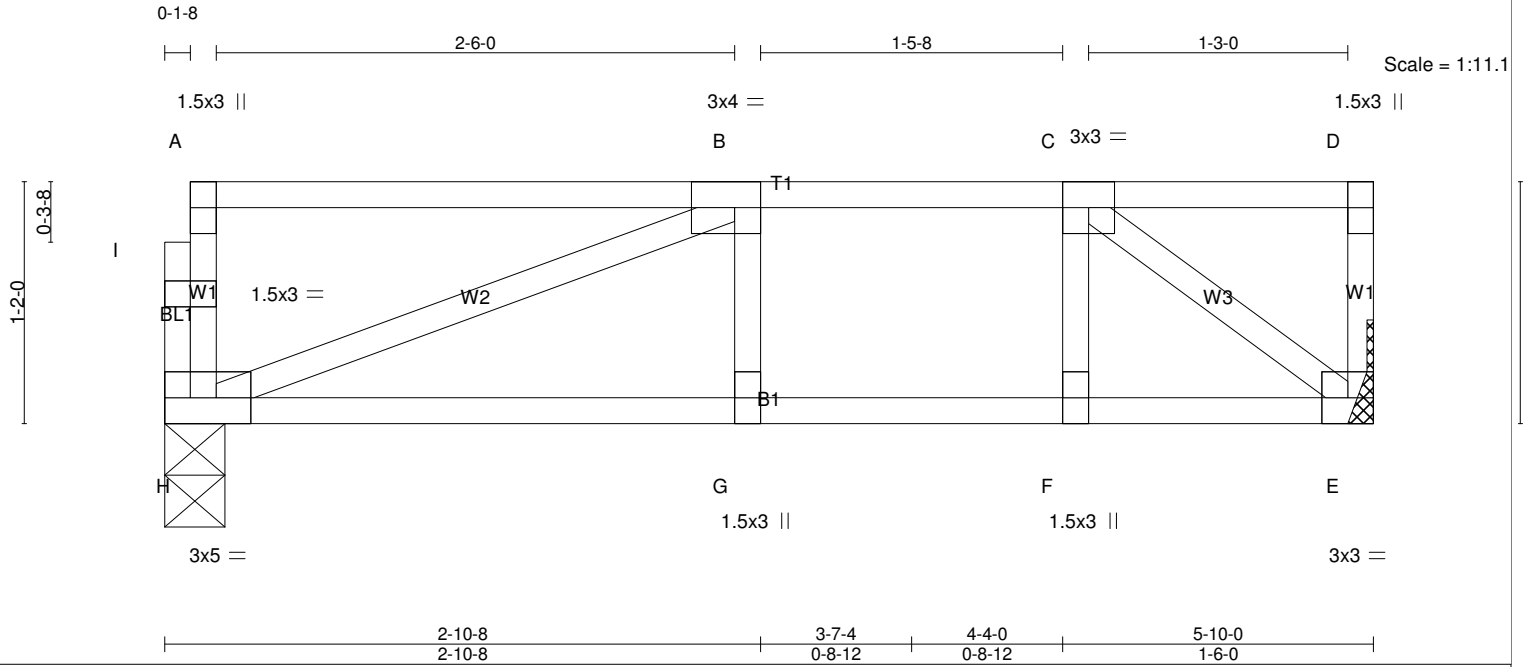


Plate Offsets (X,Y)-- [B:0-1-8,Edge], [H:0-2-0,Edge]

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 0.60	Vert(LL) -0.05 G-H >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.53	Vert(CT) -0.07 G-H >911 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 E n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 30 lb	FT = 20%F, 12%E

<p>LUMBER-</p> <p>TOP CHORD 2x4 SP No.2(flat)</p> <p>BOT CHORD 2x4 SP No.2(flat)</p> <p>WEBS 2x4 SP No.3(flat)</p>	<p>BRACING-</p> <p>TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins, except end verticals.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p>
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REACTIONS. (lb/size) H=360/0-3-8 (min. 0-1-8), E=367/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD H-I=-148/0, A-I=-148/0, D-E=-52/23, A-B=-9/0, B-C=-486/0, C-D=0/0

BOT CHORD G-H=0/486, F-G=0/486, E-F=0/486

WEBS B-H=-512/0, B-G=-66/1, C-E=-610/0, C-F=0/133

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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

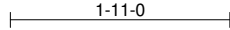
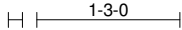
Job 19031362	Truss FG1	Truss Type FLOOR GIRDER	Qty 1	Ply 1	WINSTON EURO
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Job Reference (optional)

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

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0-1-8



0-1-8

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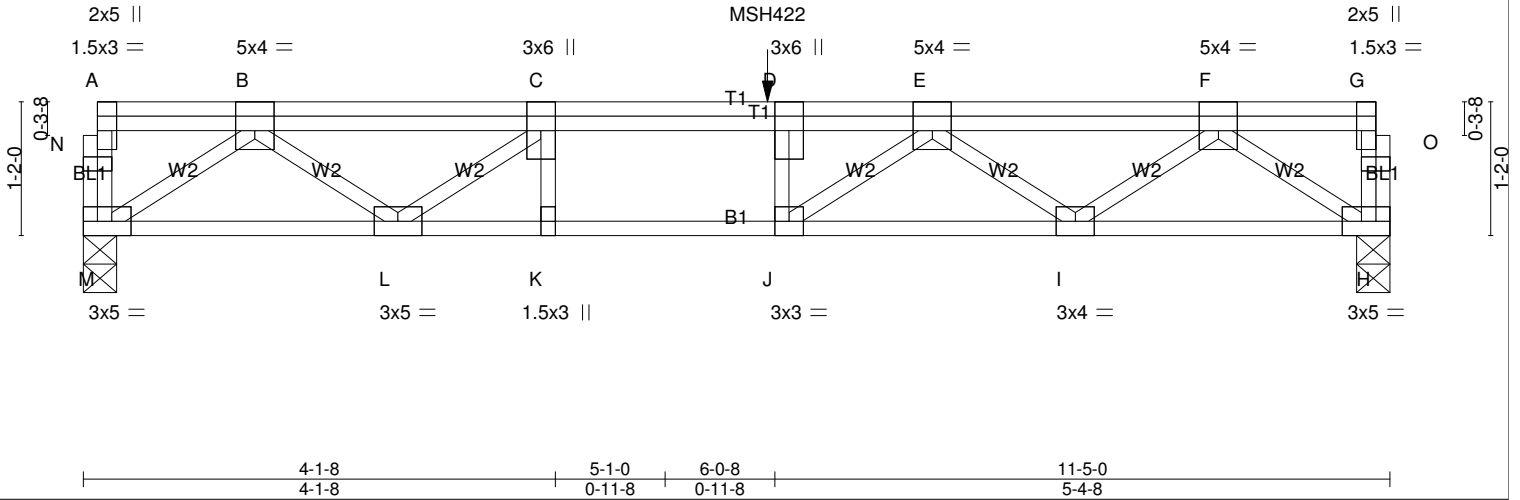


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [D:0-3-0,0-0-0], [E:0-2-0,Edge], [F:0-2-0,Edge], [G:0-3-0,Edge], [H:0-2-0,Edge], [M:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.87	Vert(LL) -0.08 I-J >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.42	Vert(CT) -0.13 I-J >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 H n/a n/a		
	Code IRC2015/TPI2014			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 10-0-0 oc bracing.

REACTIONS. (lb/size) M=809/0-3-8 (min. 0-1-8), H=822/0-3-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD M-N=-79/0, A-N=-79/0, H-O=-58/0, G-O=-58/0, A-B=-5/0, B-C=-1705/0, C-D=-2433/0, D-E=-2433/0, E-F=-1718/0, F-G=-4/0
BOT CHORD L-M=0/1011, K-L=0/2433, J-K=0/2433, I-J=0/2316, H-I=0/1066
WEBS B-M=-1235/0, B-L=0/881, C-L=909/0, C-K=0/85, F-H=-1304/0, F-I=0/828, E-I=-760/0, E-J=-42/407, D-J=-237/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - 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.
 - Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 5-11-12 from the left end to connect truss(es) FG3 (1 ply 2x4 SP) to front face of top chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - 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: H-M=-10, A-G=-120
Concentrated Loads (lb)
Vert: D=-194(F)

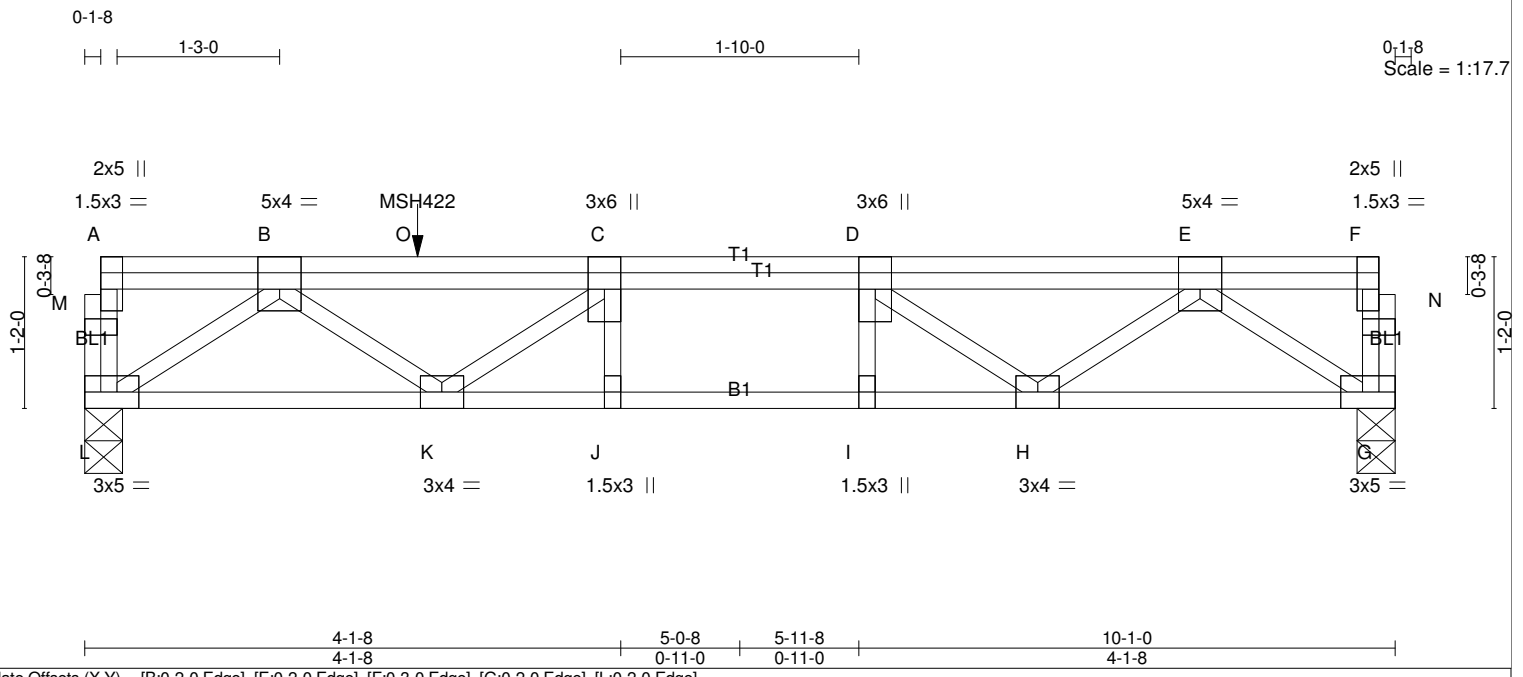


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [E:0-2-0,Edge], [F:0-3-0,Edge], [G:0-2-0,Edge], [L:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.		PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.53	Vert(LL) -0.05	J >999	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.80	Vert(CT) -0.09	J >999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.36	Horz(CT) 0.02	G n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH				
						Weight: 64 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.
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REACTIONS. (lb/size) L=866/0-3-8 (min. 0-1-8), G=709/0-3-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD L-M=0/61, A-M=0/61, G-N=65/0, F-N=65/0, A-B=0/4, B-O=-1632/0, C-O=-1632/0, C-D=-1979/0, D-E=-1423/0, E-F=-4/0
BOT CHORD K-L=0/1239, J-K=0/1979, I-J=0/1979, H-I=0/1979, G-H=0/890
WEBS B-L=-1523/0, B-K=0/499, C-K=-441/0, C-J=-71/0, E-G=-1088/0, E-H=0/676, D-H=-711/0, D-I=0/94

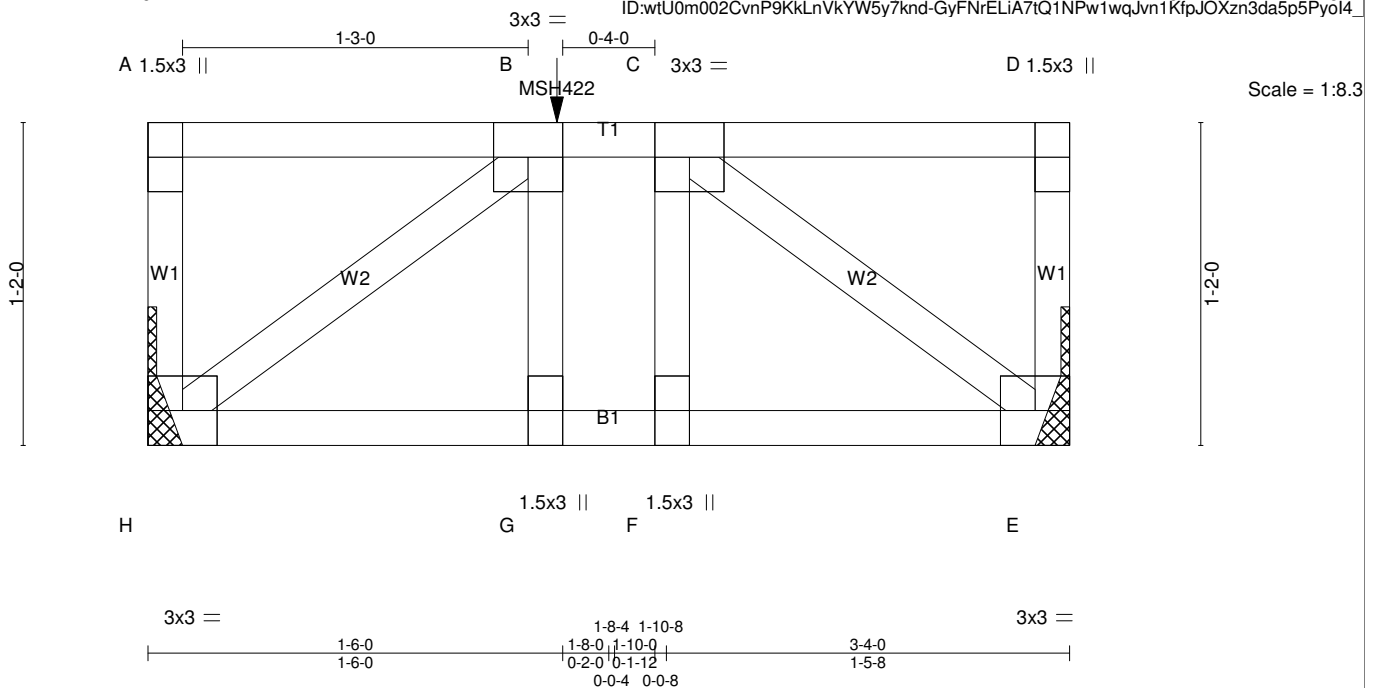
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc 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 2-6-12 from the left end to connect truss(es) FG4 (1 ply 2x4 SP) to front face of top chord.
 - 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: G-L=-10, A-F=-120
Concentrated Loads (lb)
Vert: O=-312(F)

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

Job Reference (optional)
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ID:wtU0m002CvnP9KkLnVkyW5y7knd-GyFNrELIA7IQ1NPw1wqJvn1KfpJOXzn3da5p5Pyoi4_



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 0.20	Vert(LL) -0.00 G-H >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.22	Vert(CT) -0.01 G-H >999 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.10	Horz(CT) 0.00 E n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 20 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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=350/Mechanical, E=314/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-H=-84/0, D-E=-63/0, A-B=0/0, B-C=-335/0, C-D=0/0
BOT CHORD G-H=0/335, F-G=0/335, E-F=0/335
WEBS B-H=-421/0, B-G=-90/0, C-E=-421/0, C-F=0/107

- 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 1-5-12 from the left end to connect truss(es) F104 (1 ply 2x4 SP) to back face of top chord.
 - 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: E-H=-10, A-D=-120
Concentrated Loads (lb)
Vert: B=-247(B)

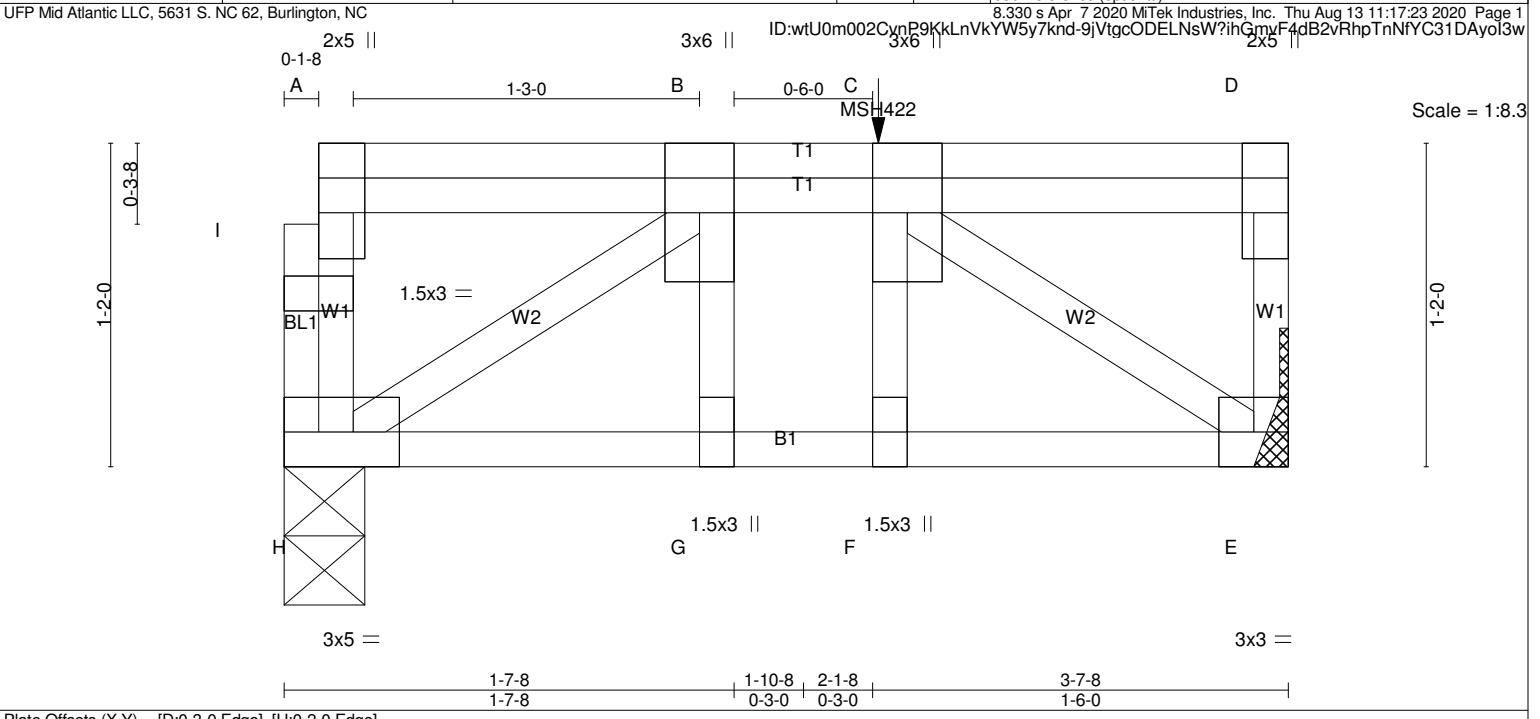


Plate Offsets (X,Y)-- [D:0-3-0,Edge], [H:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.12	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.19	Vert(LL) -0.00 F >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.13	Vert(CT) -0.01 F >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 26 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 3-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=355/0-3-8 (min. 0-1-8), E=432/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD H-I=-60/1, A-I=-60/1, D-E=-115/0, A-B=-4/0, B-C=-438/0, C-D=0/0
BOT CHORD G-H=0/438, F-G=0/438, E-F=0/438
WEBS B-H=-525/0, B-G=0/48, C-E=-537/0, C-F=-31/0

- 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) CAUTION, Do not erect truss backwards.
 - 5) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 2-1-12 from the left end to connect truss(es) F103 (1 ply 2x4 SP) to front face of top chord.
 - 6) Fill all nail holes where hanger is in contact with lumber.
 - 7) 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: E-H=-10, A-D=-120

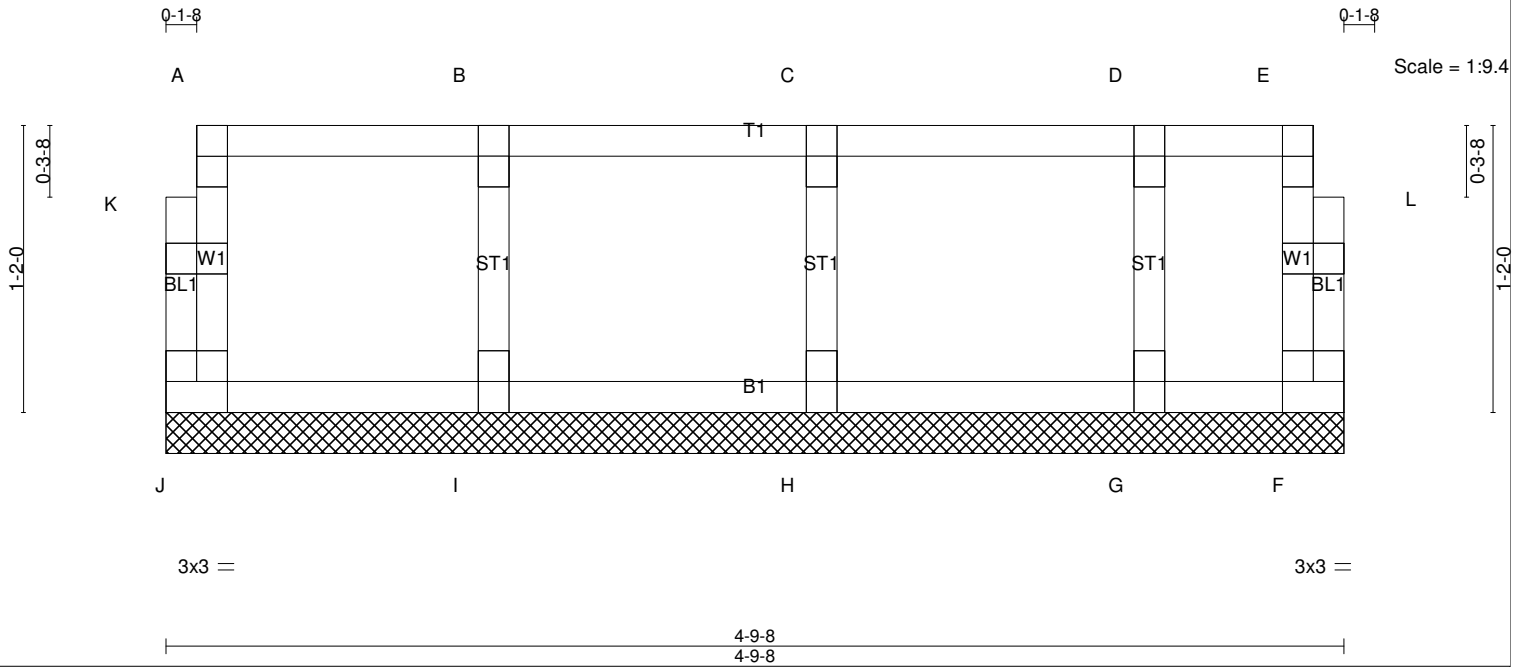
Concentrated Loads (lb)
Vert: C=-347(F)

Job 19031362	Truss KW1	Truss Type Floor Supported Gable	Qty 1	Ply 1	WINSTON EURO
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Job Reference (optional)

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

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 11:17:27 2020 Page 1
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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 F n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		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 4-9-8 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=63/4-9-8 (min. 0-1-8), F=30/4-9-8 (min. 0-1-8), I=172/4-9-8 (min. 0-1-8), H=181/4-9-8 (min. 0-1-8), G=130/4-9-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD J-K=-59/0, A-K=-59/0, F-L=-22/0, E-L=-21/0, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0
BOT CHORD I-J=0/8, H-I=0/8, G-H=0/8, F-G=0/8
WEBS B-I=-157/0, C-H=-167/0, D-G=-126/0

- 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 19031362	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	WINSTON EURO
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Job Reference (optional)

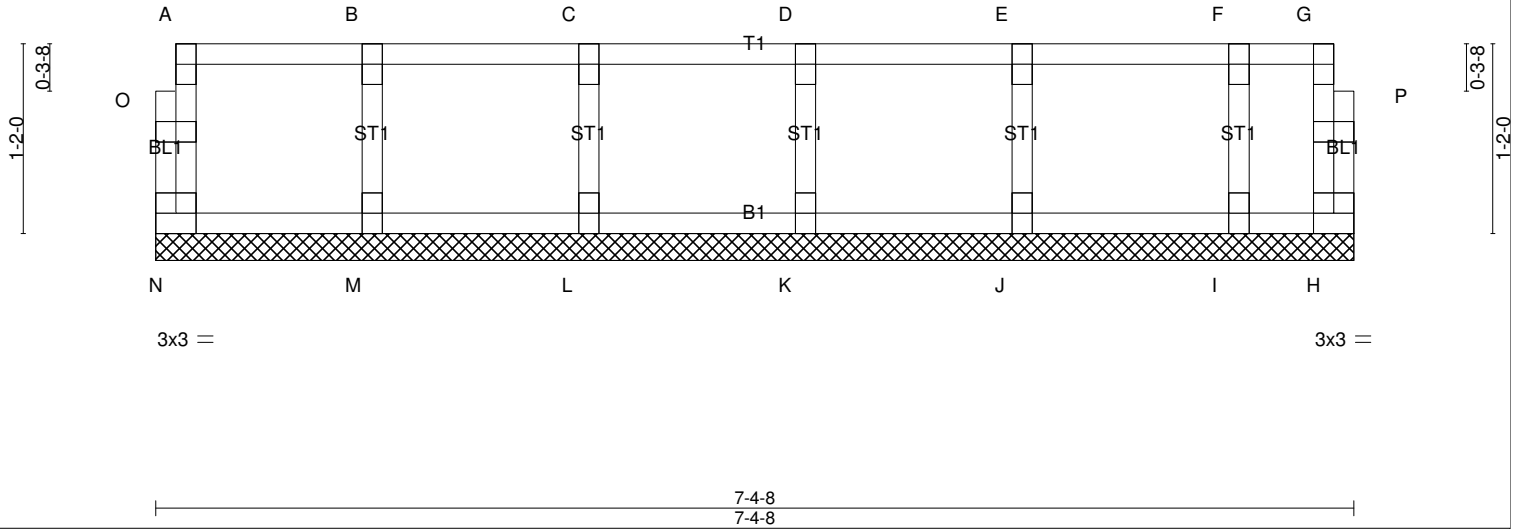
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 11:17:33 2020 Page 1
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0-1-8

0-1-8

Scale = 1:14.2



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 H n/a n/a		
	Code IRC2015/TPI2014			Weight: 33 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) N=62/7-4-8 (min. 0-1-8), H=23/7-4-8 (min. 0-1-8), M=174/7-4-8 (min. 0-1-8), L=174/7-4-8 (min. 0-1-8), K=171/7-4-8 (min. 0-1-8), J=181/7-4-8 (min. 0-1-8), I=126/7-4-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD N-O=-59/0, A-O=-58/0, H-P=-14/0, G-P=-14/0, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0, E-F=-8/0, F-G=-8/0
 BOT CHORD M-N=0/8, L-M=0/8, K-L=0/8, J-K=0/8, I-J=0/8, H-I=0/8
 WEBS B-M=-158/0, C-L=-161/0, D-K=-158/0, E-J=-166/0, F-I=-124/0

- 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