

Plate Offsets (X,Y)-- [D:0-3-0,0-0-0], [F:0-3-0,Edge], [G:0-2-0,Edge], [H:0-1-8,Edge], [J:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.24	in (loc) l/def L/d	MT20	244/180
TCDL 20.0	Plate Grip DOL 1.00	BC 0.60	Vert(LL) -0.06 G-H >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.43	Vert(TL) -0.18 G-H >761 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(TL) 0.03 G n/a n/a		
	Code IRC2009/TPI2007			Weight: 73 lb	FT = 4%F, 1%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) J=778/0-3-8 (min. 0-1-8), G=684/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1876/0, C-D=-1876/0, D-E=-1876/0
 BOT CHORD I-J=0/1440, H-I=0/1876, G-H=0/1300
 WEBS B-J=-1563/0, B-I=0/662, C-I=-404/0, E-G=-1413/0, E-H=0/729, D-H=-259/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2009 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 & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-12 from the left end to 5-11-12 to connect truss(es) FT8 (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-J=-8, A-F=-96
 Concentrated Loads (lb)
 Vert: C=-104(F) D=-104(F) M=-104(F)



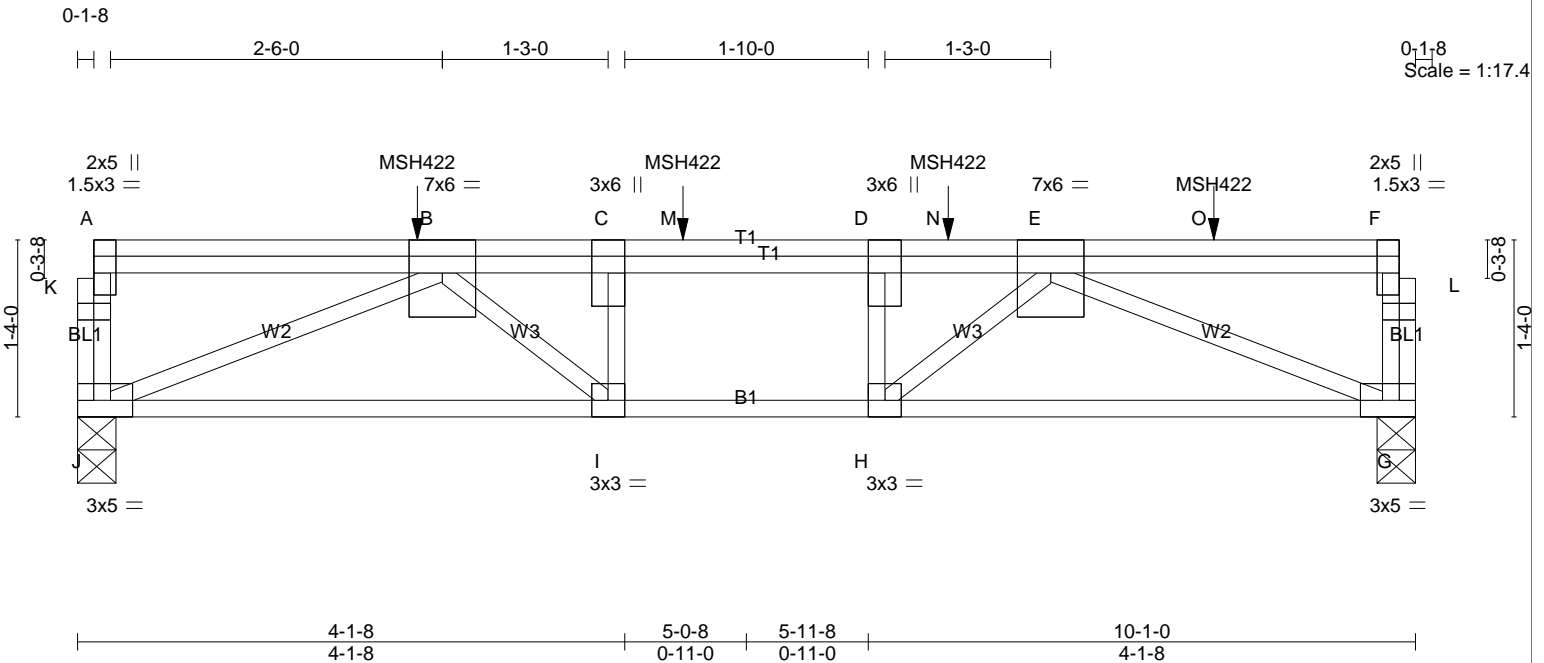


Plate Offsets (X,Y)-- [D:0-3-0,0-0-0], [F:0-3-0,Edge], [G:0-2-0,Edge], [J:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.30	in (loc) l/def L/d	MT20	244/180
TCDL 20.0	Plate Grip DOL 1.00	BC 0.50	Vert(LL) -0.04 H-I >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.42	Vert(TL) -0.08 G-H >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(TL) 0.03 G n/a n/a		
	Code IRC2009/TPI2007			Weight: 65 lb	FT = 4%F, 1%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) J=723/0-3-8 (min. 0-1-8), G=780/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1688/0, C-M=-1688/0, D-M=-1688/0, D-N=-1688/0, E-N=-1688/0
 BOT CHORD I-J=0/1363, H-I=0/1688, G-H=0/1403
 WEBS B-J=-1480/0, B-I=0/500, C-I=-300/0, E-G=-1521/0, E-H=0/438, D-H=-262/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2009 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 & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-6-12 from the left end to 8-6-12 to connect truss(es) FT7 (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-J=-8, A-F=-96
 Concentrated Loads (lb)
 Vert: B=-123(F) M=-123(F) N=-123(F) O=-123(F)



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD 8,030 s Oct 5 2016 MiTek Industries, Inc. Tue Mar 14 14:06:13 2017 Page 1
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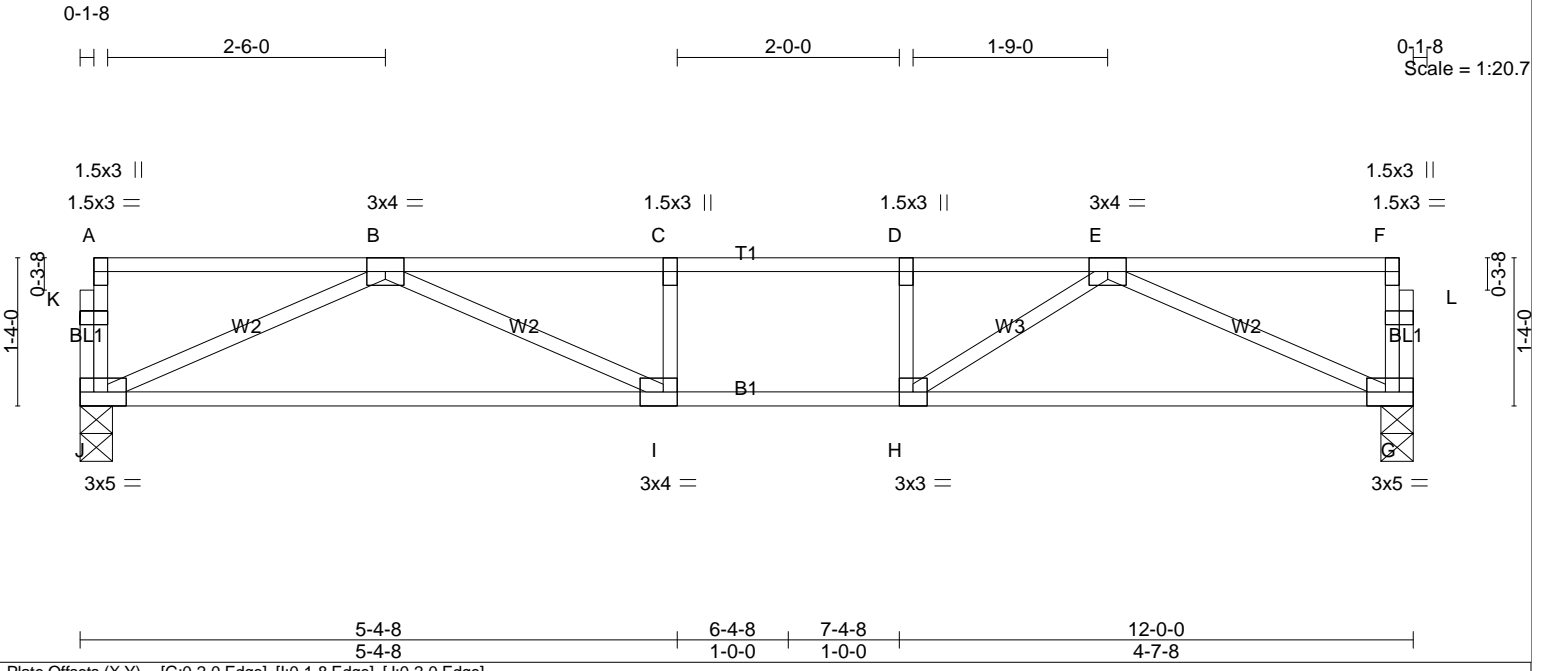


Plate Offsets (X,Y)-- [G:0-2-0,Edge], [I:0-1-8,Edge], [J:0-2-0,Edge]

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 0.77	Vert(LL) -0.17 I-J >820 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.78	Vert(TL) -0.35 I-J >403 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.03 G n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH		Weight: 60 lb	FT = 4%F, 1%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) J=756/0-3-8 (min. 0-1-8), G=756/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1832/0, C-D=-1832/0, D-E=-1832/0
 BOT CHORD I-J=0/1333, H-I=0/1832, G-H=0/1332
 WEBS D-H=-305/0, B-J=-1461/0, B-I=0/656, E-G=-1459/0, E-H=0/710

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



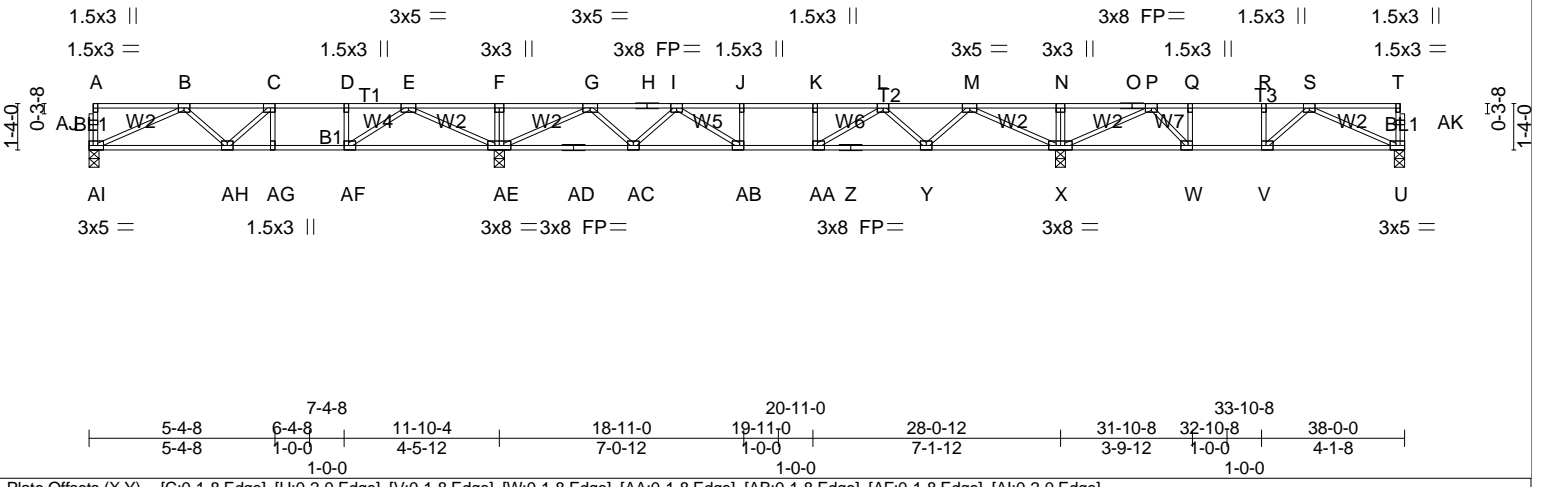
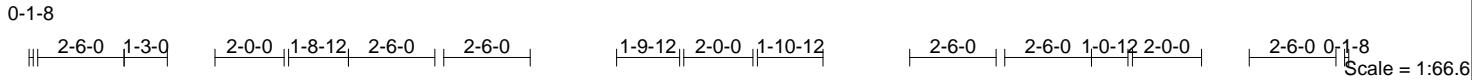


Plate Offsets (X,Y)-- [C:0-1-8,Edge], [U:0-2-0,Edge], [V:0-1-8,Edge], [W:0-1-8,Edge], [AA:0-1-8,Edge], [AB:0-1-8,Edge], [AF:0-1-8,Edge], [AI:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.87	Vert(LL) -0.13 Y-AA >999 480		
BCLL 0.0	Rep Stress Incr YES	WB 0.59	Vert(TL) -0.23 Y-AA >842 360		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH	Horz(TL) 0.06 U n/a n/a		
				Weight: 188 lb	FT = 4%F, 1%E

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: AE-AF,W-X,V-W.

REACTIONS. All bearings 0-3-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) except AI=685(LC 4), AE=1979(LC 11), X=1855(LC 6), U=557(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1380/0, C-D=-1443/0, D-E=-1443/0, E-F=0/1452, F-G=0/1452, G-H=-1431/0, H-I=-1431/0, I-J=-2343/0, J-K=-2343/0, K-L=-2343/0, L-M=-1443/0, M-N=0/1277, N-O=0/1277, O-P=0/1277, P-Q=-962/75, Q-R=-962/75, R-S=-962/75
 BOT CHORD AH-AI=0/1209, AG-AH=0/1443, AF-AG=0/1443, AE-AF=-439/797, AD-AE=0/858, AC-AD=0/858, AB-AC=0/1960, AA-AB=0/2343, Z-AA=0/1958, Y-Z=0/1958, X-Y=0/881, W-X=-418/621, V-W=-75/962, U-V=0/893
 WEBS D-AF=-399/0, J-AB=-261/0, Q-W=-470/0, F-AE=-361/0, N-X=-362/0, B-AI=-1324/0, E-AE=-1705/0, E-AF=0/992, G-AE=-2118/0, G-AC=0/846, I-AC=-799/0, I-AB=0/633, M-X=-2086/0, M-Y=0/831, L-Y=-778/0, L-AA=0/580, P-X=-1437/0, P-W=0/788, S-U=-976/0

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) All plates are 3x4 MT20 unless otherwise indicated.
 3) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Job Reference (optional)

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

8,030 s Oct 5 2016 MiTek Industries, Inc. Tue Mar 14 14:06:14 2017 Page 1
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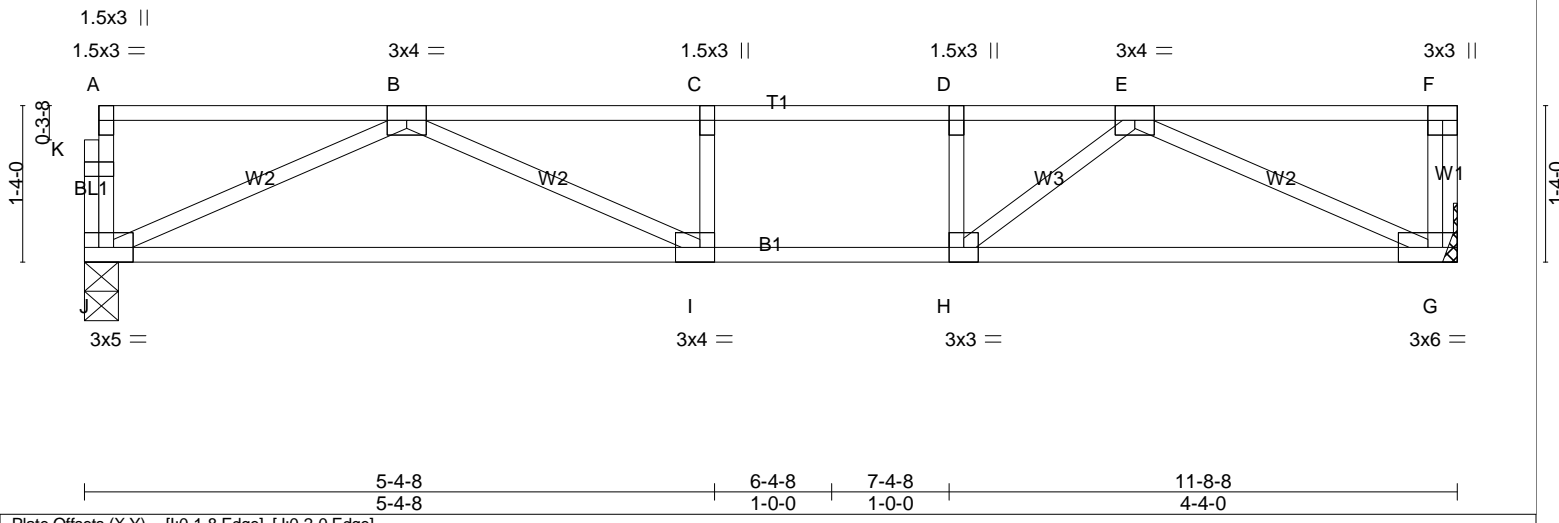


Plate Offsets (X,Y)-- [I:0-1-8,Edge], [J:0-2-0,Edge]

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 0.83	Vert(LL) -0.17 I-J >802 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.79	Vert(TL) -0.36 I-J >380 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.03 G n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH			
				Weight: 59 lb	FT = 4%F, 1%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) J=737/0-3-8 (min. 0-1-8), G=745/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1735/0, C-D=-1735/0, D-E=-1735/0
 BOT CHORD I-J=0/1292, H-I=0/1735, G-H=0/1298
 WEBS D-H=-330/0, B-J=-1416/0, B-I=0/599, E-G=-1429/0, E-H=0/678

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2009 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD Job Reference (optional): 8,030 s Oct 5 2016 MiTek Industries, Inc. Tue Mar 14 14:06:15 2017 Page 1
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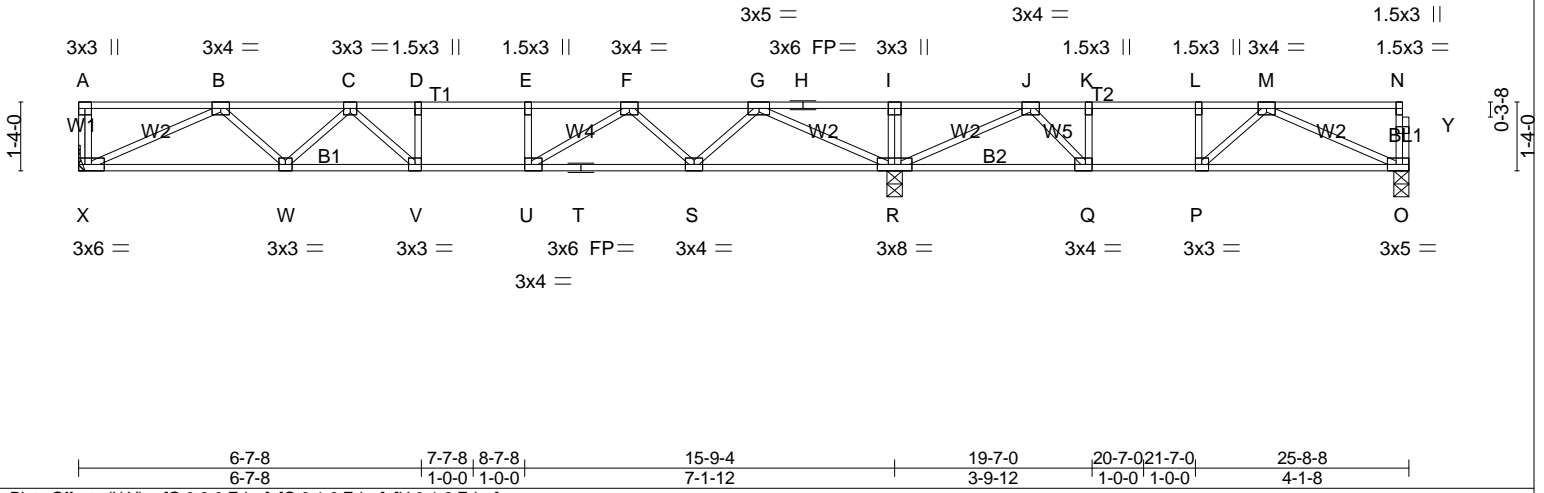


Plate Offsets (X,Y)-- [O:0-2-0,Edge], [Q:0-1-8,Edge], [U:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.97	Vert(LL) -0.16 V-W >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.61	Vert(TL) -0.29 V-W >652 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.07 O n/a n/a		
	Code IRC2009/TPI2007			Weight: 129 lb	FT = 4%F, 1%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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (lb/size) X=921/Mechanical, R=1903/0-3-8 (min. 0-1-8), O=478/0-3-8 (min. 0-1-8)
 Max Grav X=938(LC 7), R=1903(LC 1), O=557(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2177/0, C-D=-2754/0, D-E=-2754/0, E-F=-2754/0, F-G=-1649/0, G-H=0/1277, H-I=0/1277, I-J=0/1277, J-K=-958/73, K-L=-958/73, L-M=-958/73
 BOT CHORD W-X=0/1724, V-W=0/2582, U-V=0/2754, T-U=0/2239, S-T=0/2239, R-S=0/1025, Q-R=-417/615, P-Q=-73/958, O-P=0/893
 WEBS E-U=-313/0, K-Q=-482/0, I-R=-362/0, B-X=-1898/0, B-W=0/629, C-W=-564/0, C-V=-47/424, G-R=-2219/0, G-S=0/903, F-S=-866/0, F-U=0/788, J-R=-1431/0, J-Q=0/793, M-O=-976/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2009 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, MJUDD

8,030 s Oct 5 2016 MiTek Industries, Inc. Tue Mar 14 14:06:15 2017 Page 1
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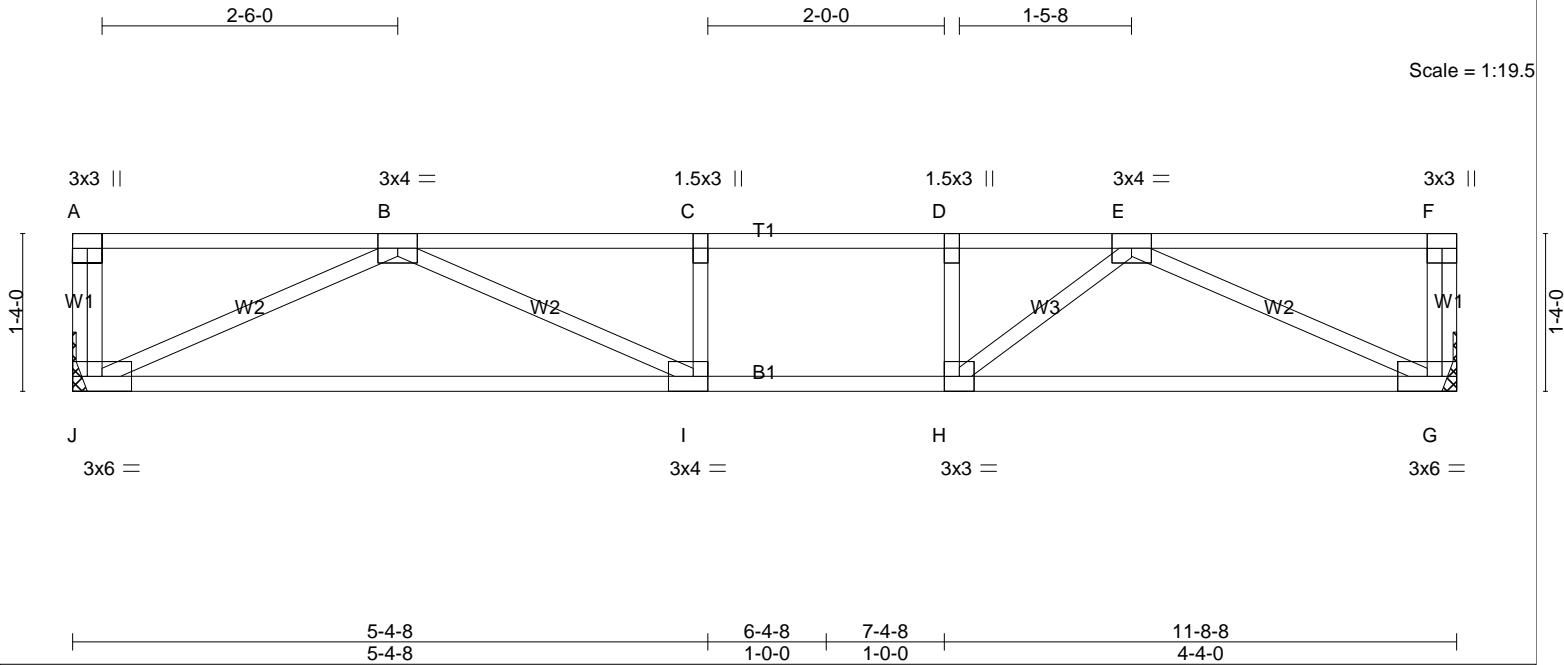


Plate Offsets (X,Y)-- [I:0-1-8,Edge]

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 0.82	Vert(LL) -0.17 I-J >803 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.79	Vert(TL) -0.36 I-J >381 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.03 G n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH			
				Weight: 59 lb	FT = 4%F, 1%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) J=745/Mechanical, G=745/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1735/0, C-D=-1735/0, D-E=-1735/0
 BOT CHORD I-J=0/1295, H-I=0/1735, G-H=0/1298
 WEBS D-H=-330/0, B-J=-1425/0, B-I=0/598, E-G=-1429/0, E-H=0/678

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD Job Reference (optional): 8,030 s Oct 5 2016 MiTek Industries, Inc. Tue Mar 14 14:06:16 2017 Page 1
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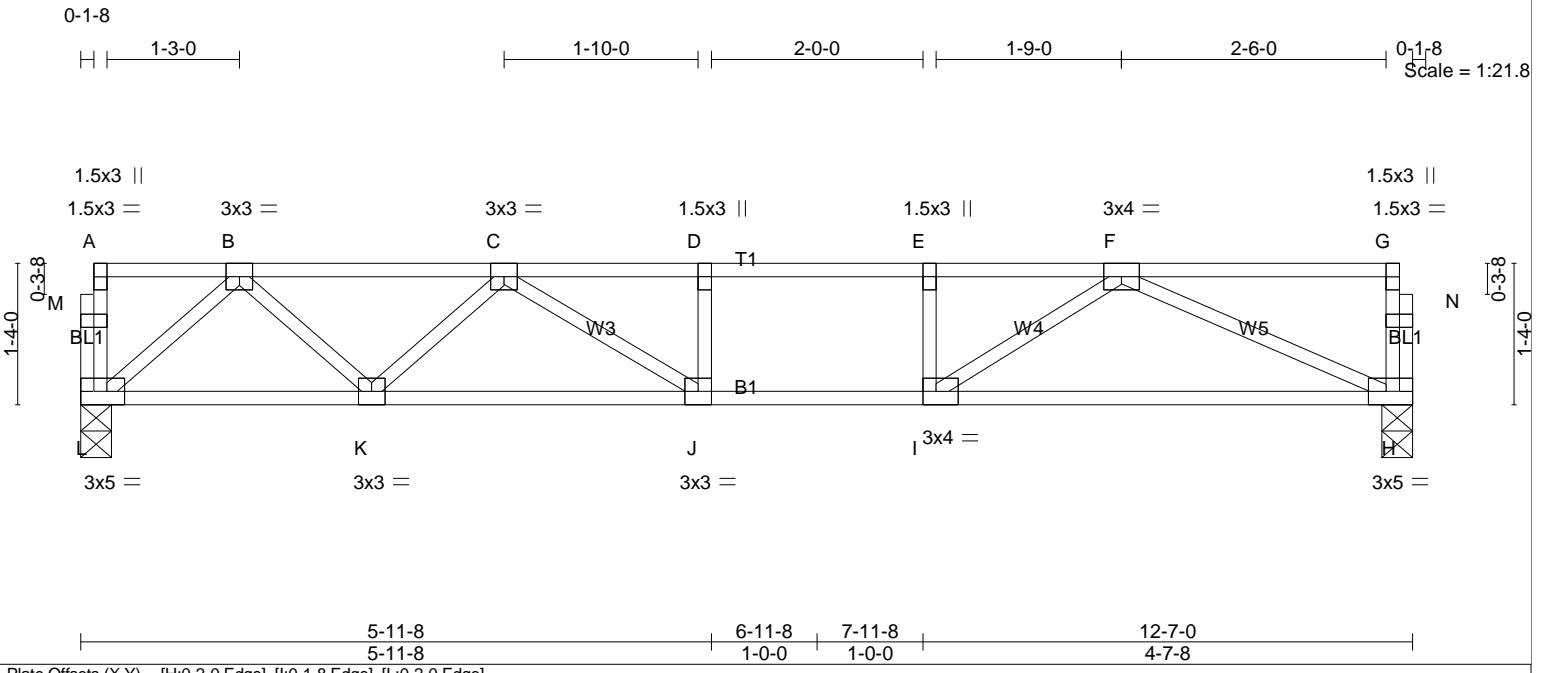


Plate Offsets (X,Y)-- [H:0-2-0,Edge], [I:0-1-8,Edge], [L:0-2-0,Edge]	
LOADING (psf)	SPACING- 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 20.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2009/TPI2007
CSI.	DEFL. in (loc) l/def L/d
TC 0.80	Vert(LL) -0.16 J-K >952 480
BC 0.89	Vert(TL) -0.26 J-K >570 360
WB 0.43	Horz(TL) 0.04 H n/a n/a
Matrix-SH	
PLATES	GRIP
MT20	244/190
	Weight: 64 lb FT = 4%F, 1%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=794/0-3-8 (min. 0-1-8), H=794/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1351/0, C-D=-1987/0, D-E=-1987/0, E-F=-1987/0
 BOT CHORD K-L=0/848, J-K=0/1799, I-J=0/1987, H-I=0/1416
 WEBS E-I=-322/0, B-L=-1126/0, B-K=0/700, C-K=-624/0, C-J=0/440, F-H=-1551/0, F-I=0/779

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) This truss is designed in accordance with the 2009 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job Reference (optional)

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

8,030 s Oct 5 2016 MiTek Industries, Inc. Tue Mar 14 14:06:16 2017 Page 1
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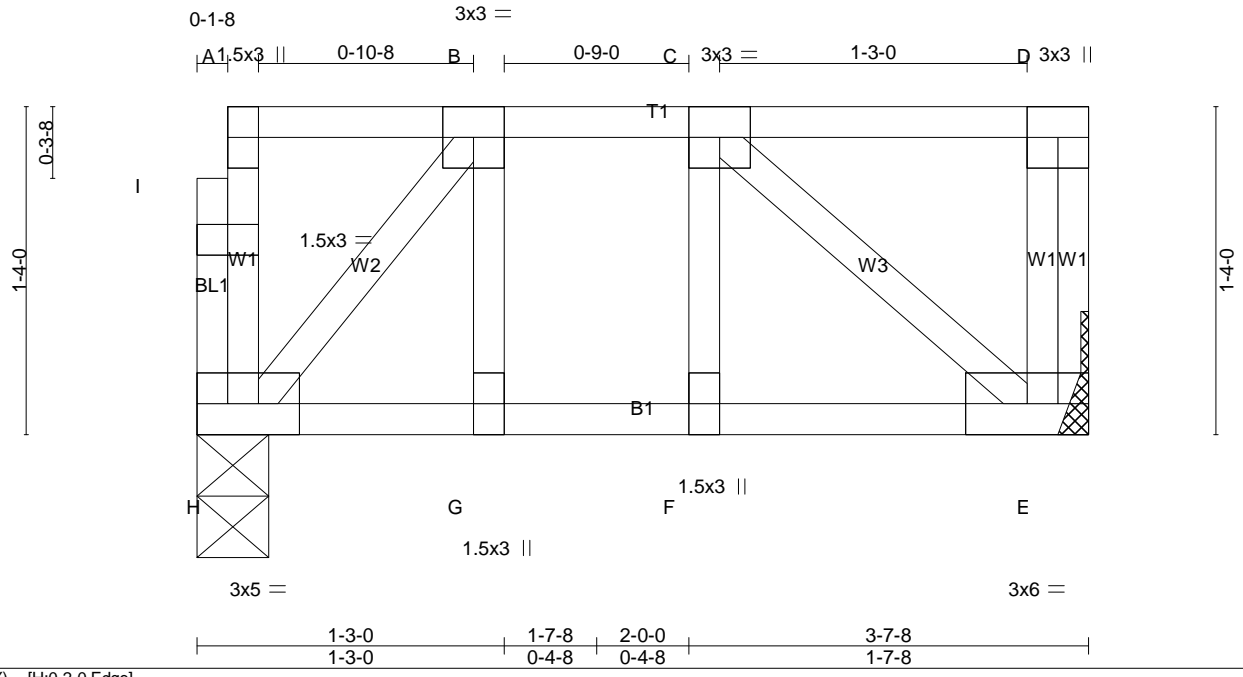


Plate Offsets (X,Y)-- [H:0-2-0,Edge]

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 0.16	Vert(LL) -0.00 F >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.12	Vert(TL) -0.01 E-F >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00 E n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH		Weight: 25 lb	FT = 4%F, 1%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=212/0-3-8 (min. 0-1-8), E=219/Mechanical

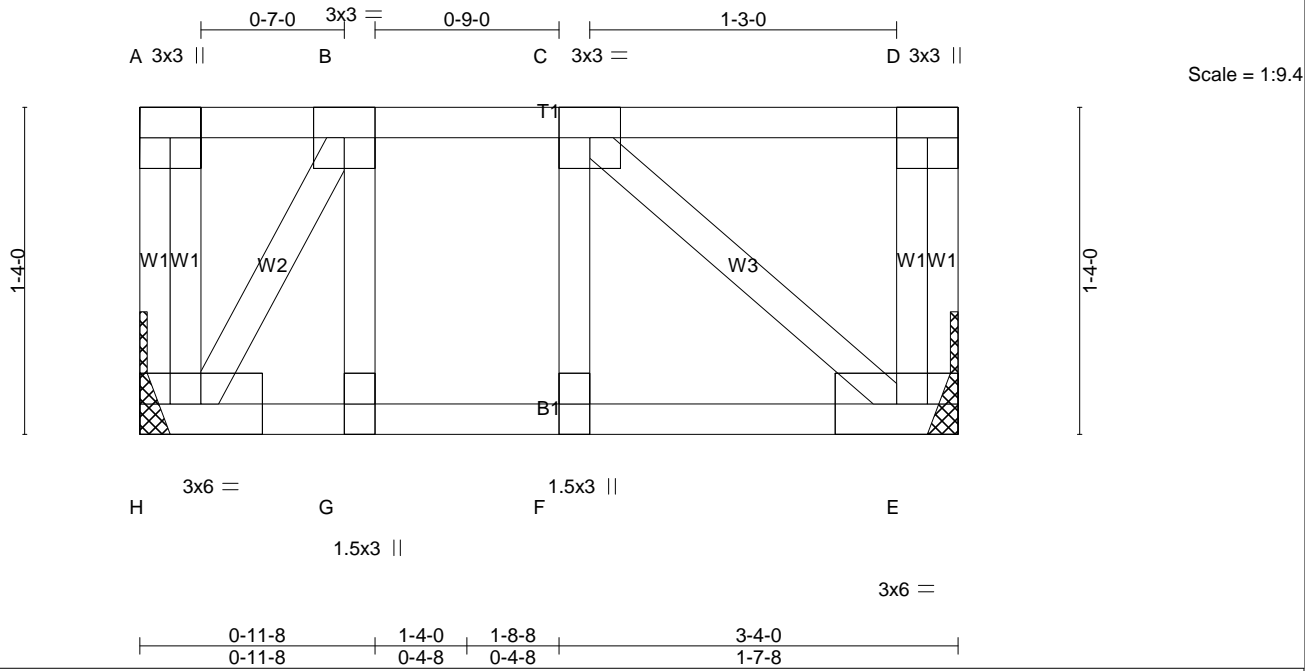
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2009 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





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 0.16	Vert(LL) -0.00 F >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.13	Vert(TL) -0.01 E-F >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00 E n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH		Weight: 24 lb	FT = 4%F, 1%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=200/Mechanical, E=200/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

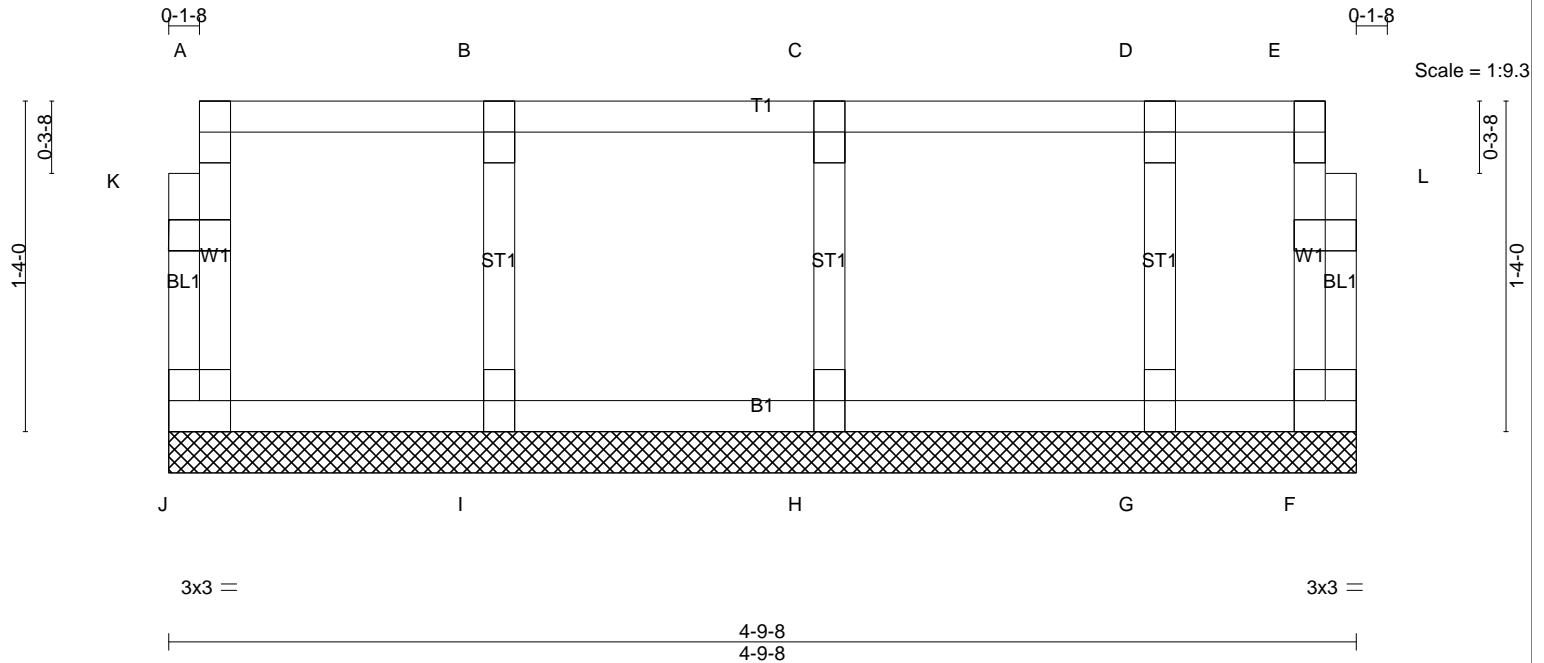
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc 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



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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(TL) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 F n/a n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-R			
				Weight: 25 lb	FT = 4%F, 1%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 4-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-9-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) J, F, I, H, G

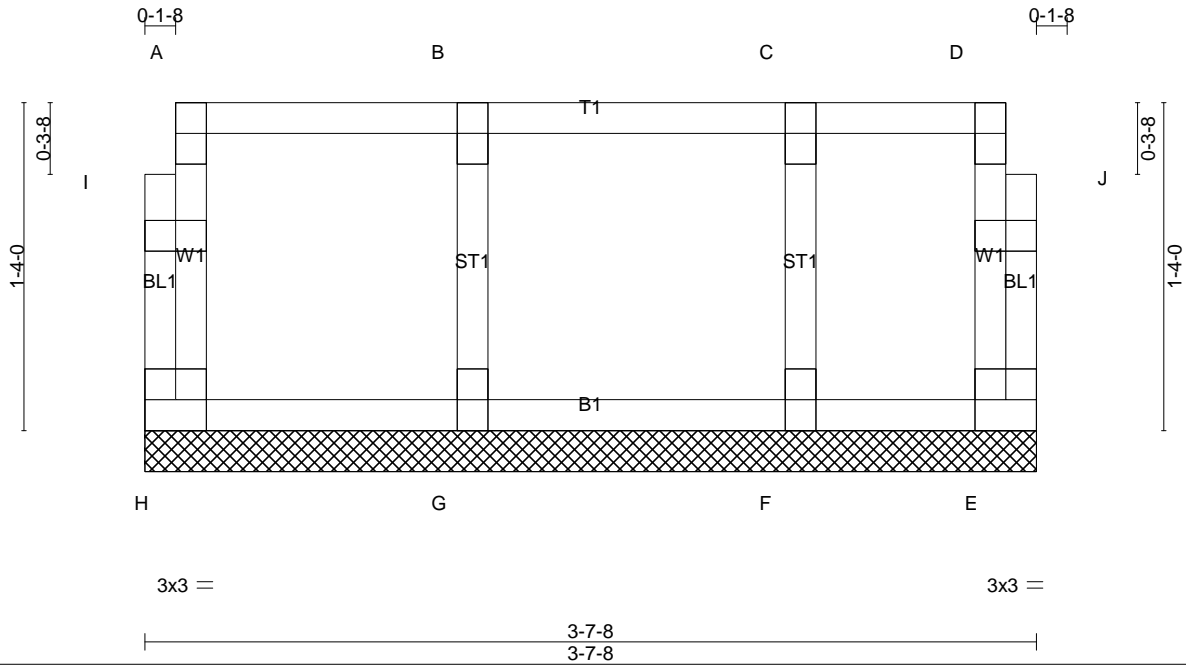
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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 2009 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



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



Scale = 1:9.4

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.02	Vert(TL) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 E n/a n/a	
BCDL 5.0	Code IRC2009/TPI2007	Matrix-R		Weight: 20 lb FT = 4%F, 1%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-7-8 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. All bearings 3-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) H, E, G, F

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
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