

Job 72421463	Truss F100	Truss Type Truss	Qty 11	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:20

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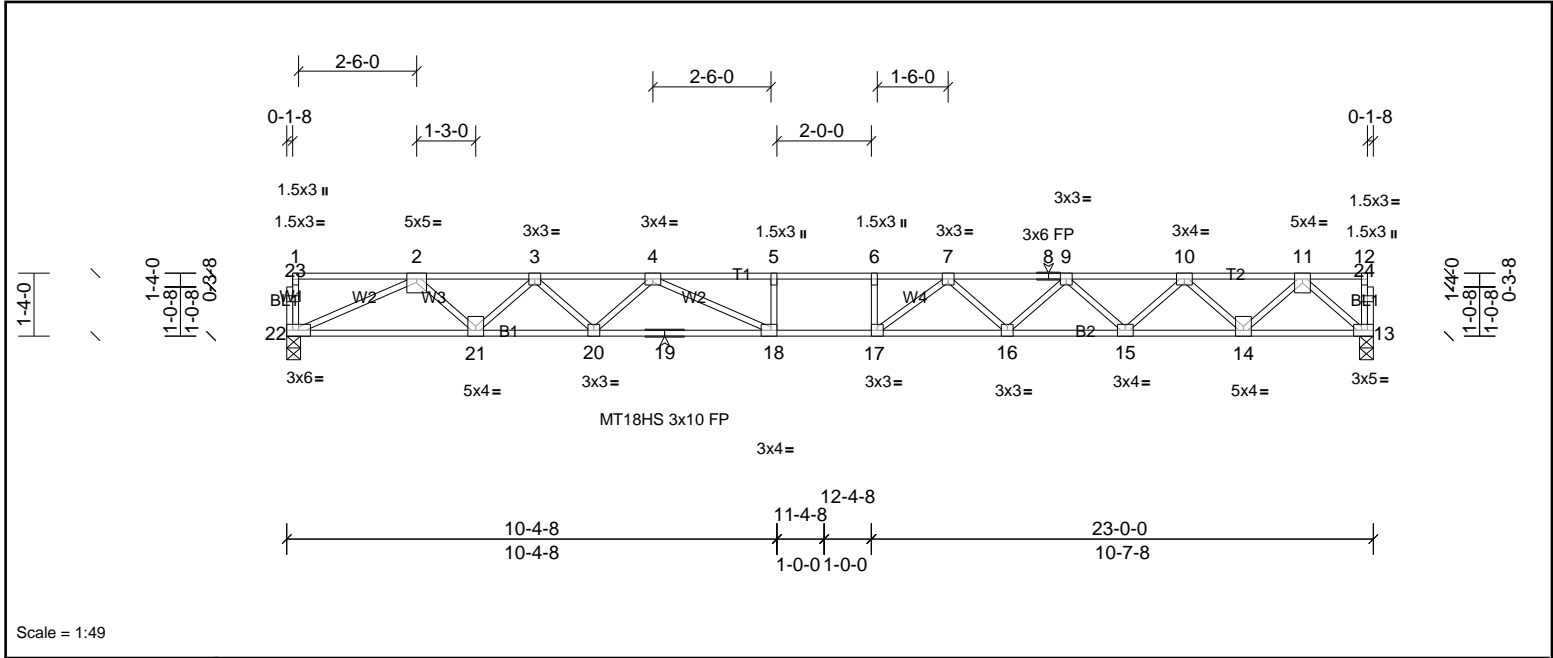


Plate Offsets (X, Y): [13:0-2-0,Edge], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.47	17-18	>575	480	MT18HS 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.65	17-18	>418	360	MT20 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.09	13	n/a	n/a	
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 115 lb FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied, 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS	(lb/size)	13=995/0-3-8, (min. 0-1-8), 22=995/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2643/0, 3-4=-3775/0, 4-5=-4676/0, 5-6=-4676/0, 6-7=-4676/0, 7-8=-4165/0, 8-9=-4165/0, 9-10=-3261/0, 10-11=-1899/0	
BOT CHORD	21-22=0/1951, 20-21=0/3307, 19-20=0/4216, 18-19=0/4216, 17-18=0/4676, 16-17=0/4488, 15-16=0/3819, 14-15=0/2686, 13-14=0/1088	
WEBS	2-22=-2143/0, 2-21=0/962, 3-21=-924/0, 3-20=0/650, 4-20=-613/0, 4-18=0/829, 11-13=-1447/0, 11-14=0/1127, 10-14=-1094/0, 10-15=0/801, 9-15=-775/0, 9-16=0/481, 7-16=-457/0, 7-17=-173/610	

- 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 10-00-00 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.



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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



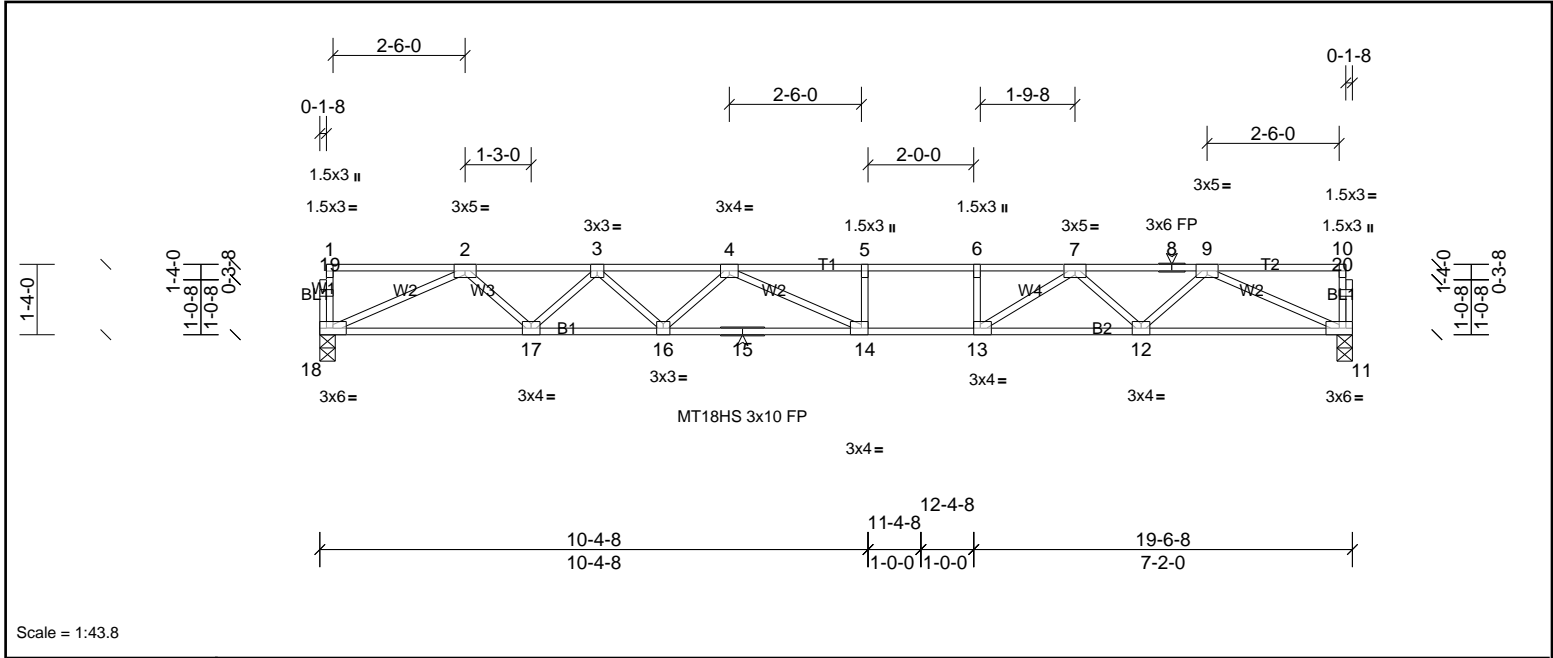
Job 72421463	Truss F101	Truss Type Truss	Qty 5	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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Run: 8.62 S Sep 22 2022 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:20

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Scale = 1:43.8

Plate Offsets (X, Y):	[13:0-1-8,Edge], [14:0-1-8,Edge]											
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.35	14-16	>656	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.49	14-16	>473	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 97 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 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)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS	(lb/size)	11=843/0-3-8, (min. 0-1-8), 18=843/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-3=-2152/0, 3-4=-2999/0, 4-5=-3274/0, 5-6=-3274/0, 6-7=-3274/0, 7-8=-2137/0, 8-9=-2137/0
BOT CHORD		17-18=0/1621, 16-17=0/2667, 15-16=0/3269, 14-15=0/3269, 13-14=0/3274, 12-13=0/2656, 11-12=0/1620
WEBS		6-13=-316/0, 2-18=-1779/0, 2-17=0/739, 3-17=-716/0, 3-16=0/461, 4-16=-376/0, 4-14=-266/417, 9-11=-1778/0, 9-12=0/720, 7-12=-722/0, 7-13=0/888

- 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 10-00-00 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.



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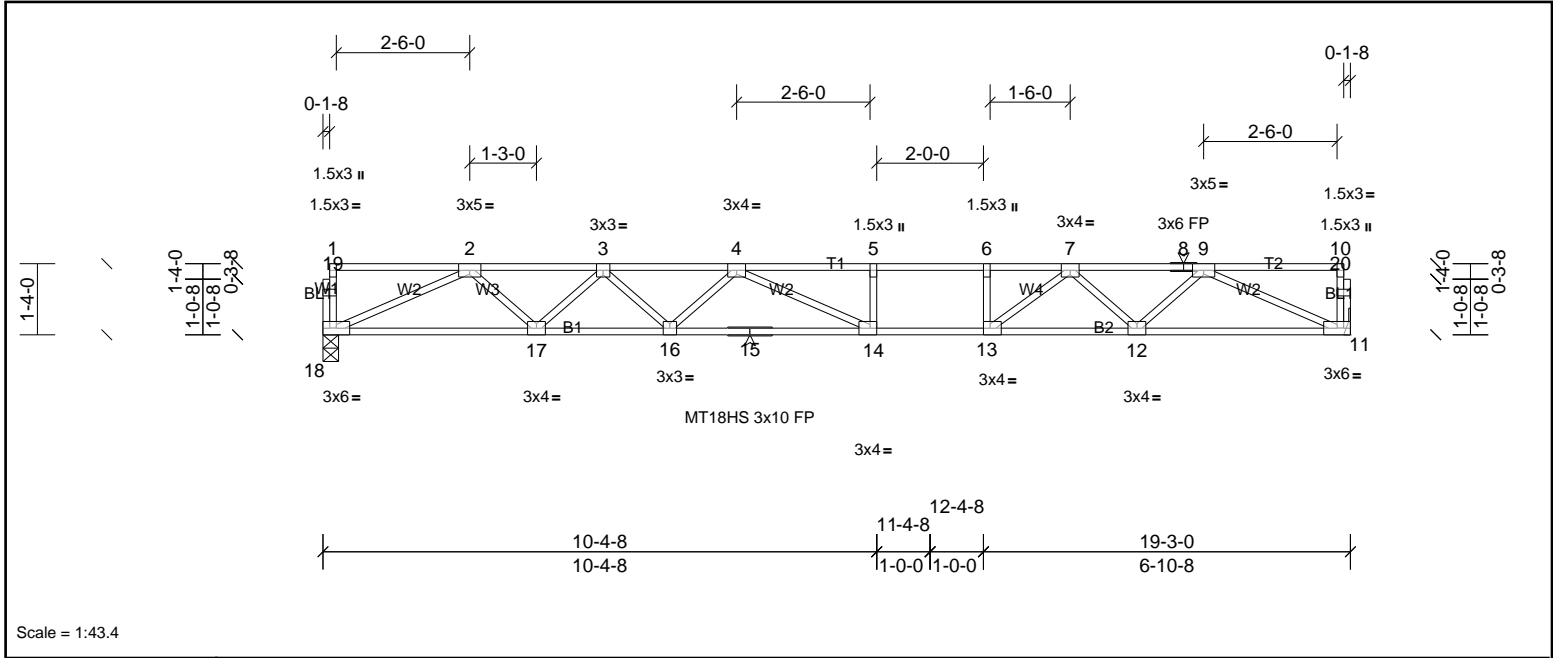
Job 72421463	Truss F102	Truss Type Truss	Qty 2	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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Scale = 1:43.4

Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.34	14-16	>663	480	MT18HS 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.48	14-16	>477	360	MT20 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	11	n/a	n/a	
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 96 lb FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS (lb/size) 11=830/ Mechanical, (min. 0-1-8), 18=830/0-3-8, (min. 0-1-8)

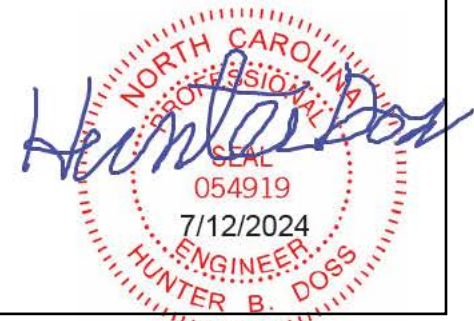
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2111/0, 3-4=-2933/0, 4-5=-3158/0, 5-6=-3158/0, 6-7=-3158/0, 7-8=-2094/0, 8-9=-2094/0

BOT CHORD 17-18=0/1593, 16-17=0/2613, 15-16=0/3189, 14-15=0/3189, 13-14=0/3158, 12-13=0/2605, 11-12=0/1592

WEBS 6-13=-344/0, 2-18=-1749/0, 2-17=0/720, 3-17=-699/0, 3-16=0/445, 4-16=-357/0, 4-14=-285/381, 9-11=-1748/0, 9-12=0/698, 7-12=-711/0, 7-13=0/849

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 10-00-00 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.



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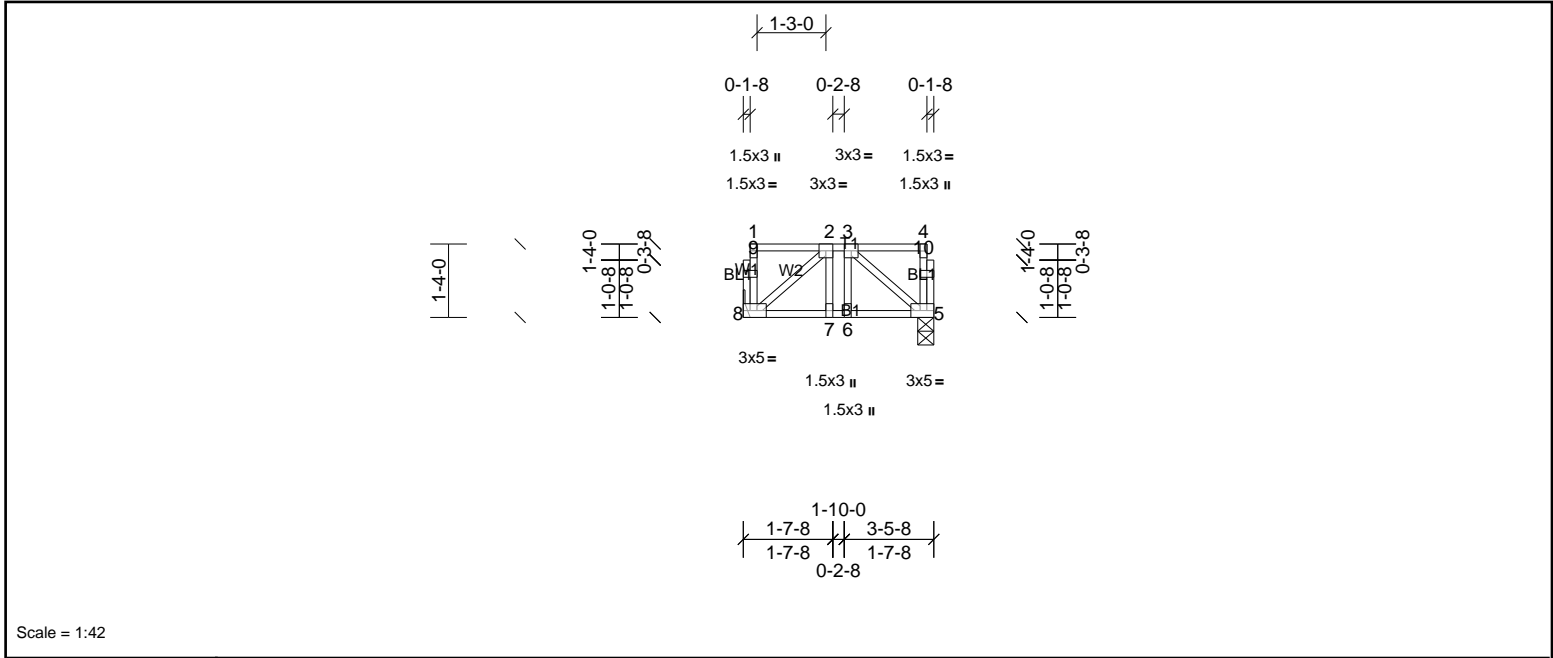
Job 72421463	Truss F103	Truss Type Truss	Qty 1	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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Scale = 1:42

Plate Offsets (X, Y): [5:0-2-0,Edge], [8:0-2-0,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	0.00	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr		NO		Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 24 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 3-5-8 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) 5=136/0-3-8, (min. 0-1-8), 8=136/ Mechanical, (min. 0-1-8)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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 10-00-00 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.



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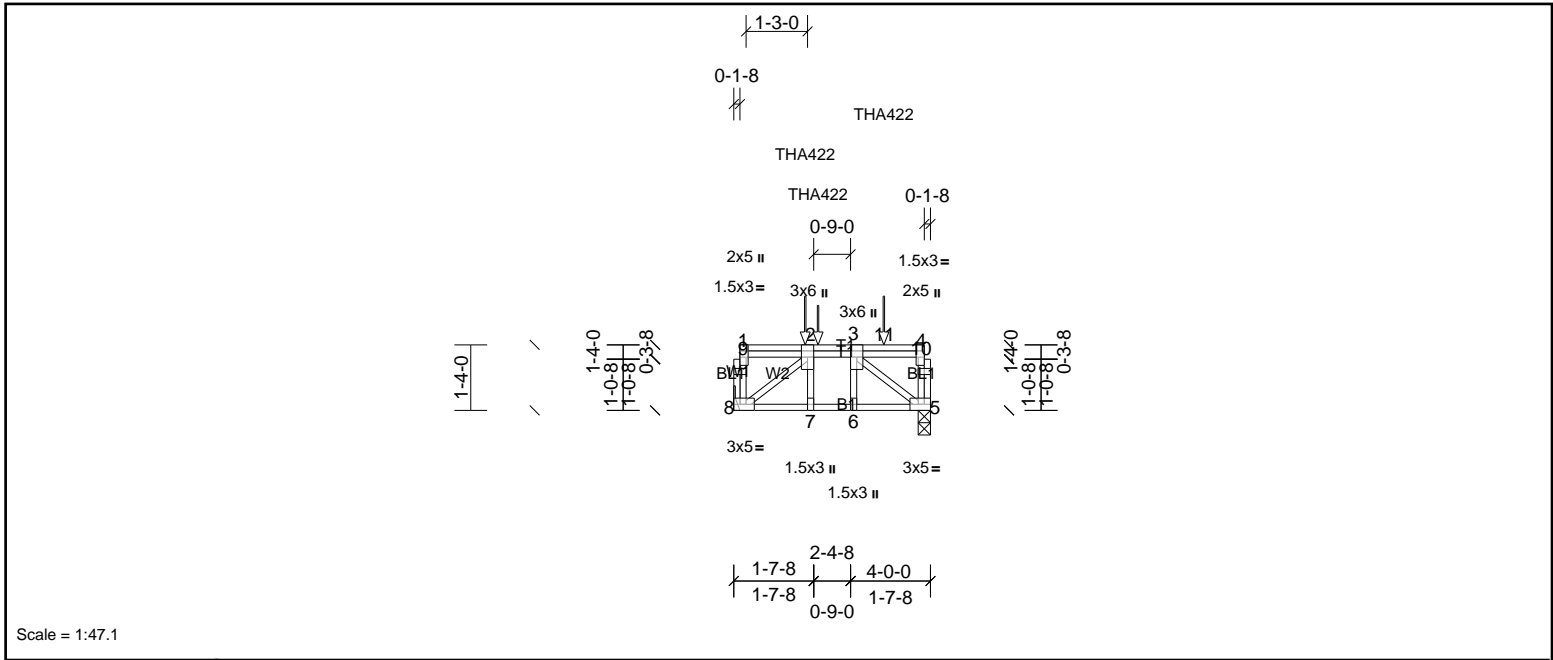
Job 72421463	Truss F104	Truss Type Truss	Qty 1	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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Scale = 1:47.1

Plate Offsets (X, Y):	[4:0-3-0,Edge], [5:0-2-0,Edge], [8:0-2-0,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	0.61	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.02	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 30 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 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)	5=1097/0-3-0, (min. 0-1-8), 8=863/ Mechanical, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		5-10=-410/0, 4-10=-410/0, 2-3=-962/0
BOT CHORD		7-8=0/962, 6-7=0/962, 5-6=0/962
WEBS		3-5=-1207/0, 2-8=-1224/0

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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 Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-8-9 from the left end to connect truss(es) to front face of top chord.
 - Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 1-5-7 from the left end to 3-0-10 to connect truss(es) to back 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 (lb/ft)	
Vert: 5-8=-10, 1-4=-100	
Concentrated Loads (lb)	
Vert: 2=-807 (F=-56, B=-751), 11=-752 (B)	

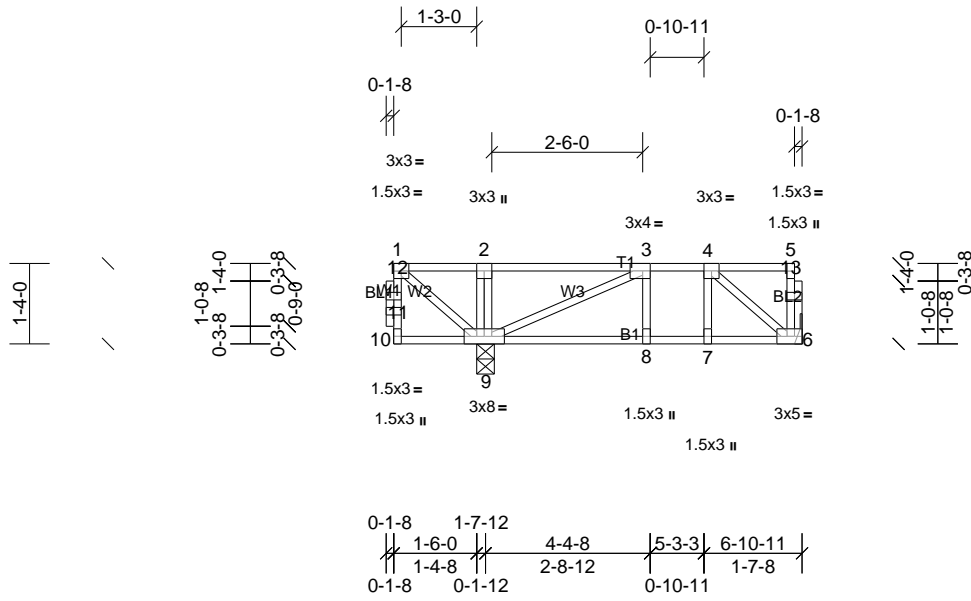


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Job 72421463	Truss F106	Truss Type Truss	Qty 14	Ply 1	PBSWILSON C OR D 2ND FL
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:21 Page: 1
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Scale = 1:38.3

Plate Offsets (X, Y): [3:0-1-8,Edge], [6:0-2-0,Edge]

Loading	(psf)	Spacing		1-7-3	CSI		DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL		1.00	TC	0.36	Vert(LL)	0.02	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL		1.00	BC	0.17	Vert(CT)	0.01	8-9	>999	360		
BCLL	0.0	Rep Stress Incr		NO	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014		Matrix-SH							Weight: 41 lb	FT = 20%F, 11%E

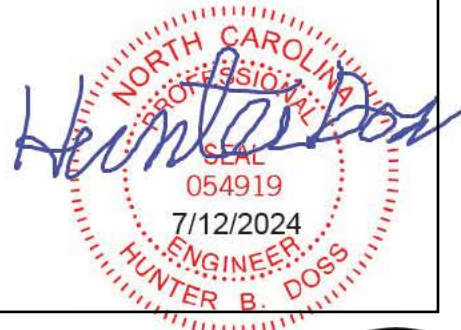
LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS	(lb/size)	
	6=126/ Mechanical, (min. 0-1-8), 9=707/0-3-8, (min. 0-1-8)	
	Max Uplift 6=33 (LC 3)	
	Max Grav 6=140 (LC 4), 9=707 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=0/381, 2-3=0/384
WEBS	1-9=-494/0, 3-9=-479/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 6.
 - 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) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S)	Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00	
Uniform Loads (lb/ft)	
Vert: 6-10=-8, 1-5=-80	
Concentrated Loads (lb)	
Vert: 10=-100, 1=-160	



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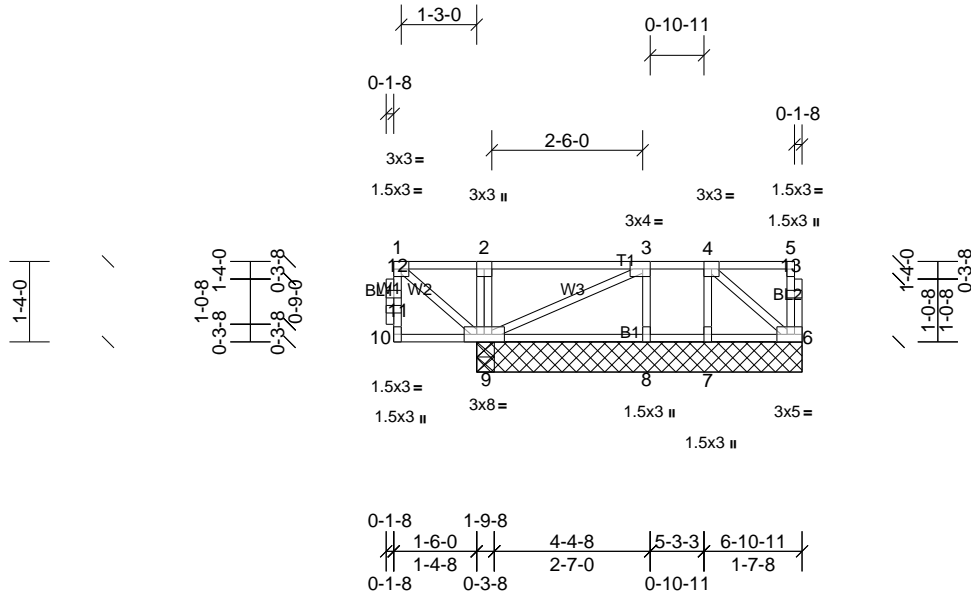
Job 72421463	Truss F107	Truss Type Truss	Qty 1	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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Run: 8.62 S Sep 22 2022 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:21

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Scale = 1:38.3

Plate Offsets (X, Y): [3:0-1-8,Edge], [6:0-2-0,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	0.00	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	0.00	8-9	>999	360		
BCLL	0.0	Rep Stress Incr		NO	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 41 lb	FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS All bearings 5-4-11.
 (lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 6, 8
 Max Grav All reactions 250 (lb) or less at joint(s) 6, 7, 8 except 9=632 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=0/371, 2-3=0/374
 WEBS 1-9=-481/0, 3-9=-299/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 6 and 82 lb uplift at joint 8.
 - 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) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down at 0-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 6-10=-8, 1-5=-80
 Concentrated Loads (lb)
 Vert: 10=-100, 1=-160



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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



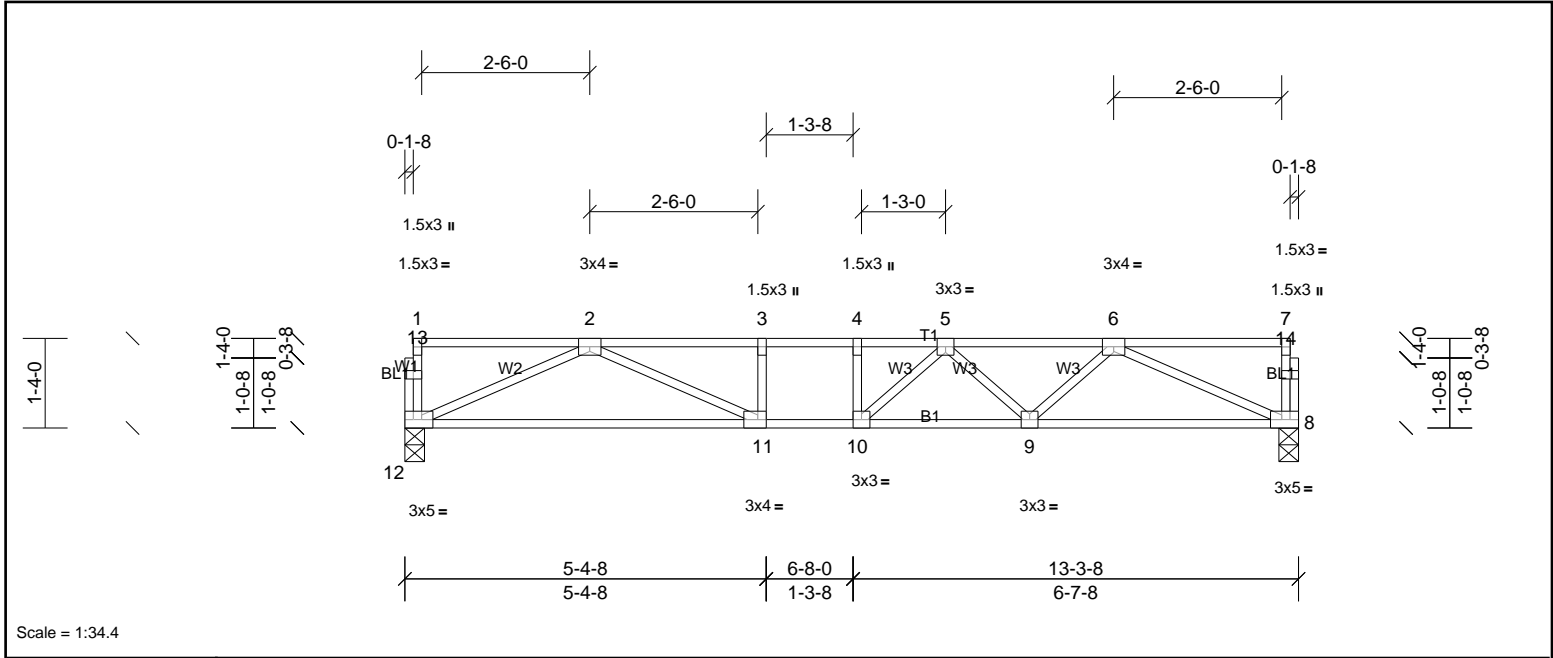
Job 72421463	Truss F109	Truss Type Truss	Qty 12	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:21

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Scale = 1:34.4

Plate Offsets (X, Y): [8:0-2-0,Edge], [11:0-1-8,Edge], [12:0-2-0,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.13	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 68 lb	FT = 20%F, 11%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)	8=568/0-3-8, (min. 0-1-8), 12=568/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1528/0, 3-4=-1528/0, 4-5=-1528/0, 5-6=-1281/0	
BOT CHORD	11-12=0/1025, 10-11=0/1528, 9-10=0/1491, 8-9=0/1032	
WEBS	6-8=-1132/0, 2-12=-1124/0, 6-9=0/346, 2-11=0/588, 5-9=-293/0, 5-10=-115/253	

- 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 10-00-00 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.



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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



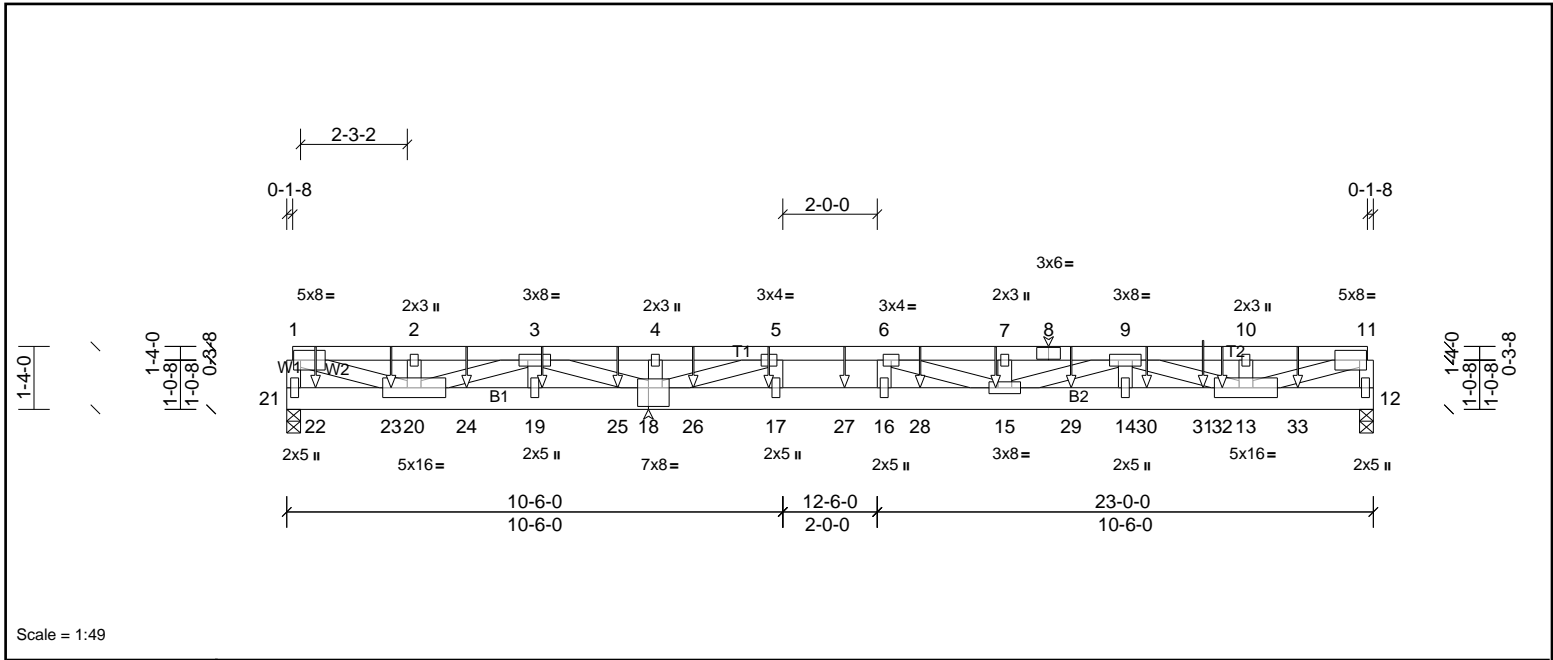
Job 72421463	Truss FG1	Truss Type Truss	Qty 1	Ply 3	PBSWILSON C OR D 2ND FL Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:22

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Scale = 1:49

Plate Offsets (X, Y):	[1:0-1-12,0-2-8], [11:0-1-12,0-2-8], [12:0-2-8,0-0-8], [18:0-2-12,0-4-12], [21:0-2-8,0-1-0]											
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.49	16-17	>557	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.65	16-17	>419	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 372 lb	FT = 11%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	12=2618/0-3-8, (min. 0-1-8), 21=2104/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		1-21=-1741/0, 11-12=-2299/0, 1-2=-4498/0, 2-3=-4498/0, 3-4=-10266/0, 4-5=-10287/0, 5-6=-12312/0, 6-7=-11320/0, 7-8=-11320/0, 8-9=-11320/0, 9-10=-5974/0, 10-11=-5974/0
BOT CHORD		21-22=0/301, 22-23=0/301, 20-23=0/301, 20-24=0/8416, 19-24=0/8416, 19-25=0/8416, 18-25=0/8416, 18-26=0/12312, 17-26=0/12312, 17-27=0/12312, 16-27=0/12312, 16-28=0/12312, 15-28=0/12312, 15-29=0/10169, 14-29=0/10169, 14-30=0/10169, 30-31=0/10169, 31-32=0/10169, 13-32=0/10169, 13-33=0/379, 12-33=0/379
WEBS		11-13=0/5976, 1-20=0/4483, 9-13=-4481/0, 3-20=-4186/0, 9-15=0/1251, 3-18=0/1991, 6-15=-2011/336, 5-18=-2704/0, 5-17=-38/663, 3-19=0/476, 9-14=0/867, 6-16=-216/510

- NOTES**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced floor live loads have been considered for this design.
 - The Fabrication Tolerance at joint 8 = 11%
 - 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 10-00-00 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down and 38 lb up at 0-7-5, 134 lb down and 39 lb up at 2-2-8, 134 lb down and 39 lb up at 3-9-11, 134 lb down and 39 lb up at 5-4-14, 134 lb down and 39 lb up at 7-0-1, 134 lb down and 39 lb up at 8-7-4, 134 lb down and 39 lb up at 10-2-7, 134 lb down and 39 lb up at 11-9-11, 134 lb down and 39 lb up at 13-4-14, 134 lb down and 39 lb up at 15-0-1, 134 lb down and 39 lb up at 16-7-4, 134 lb down and 39 lb up at 18-2-7, 855 lb down at 19-4-12, and 134 lb down and 39 lb up at 19-9-10, and 134 lb down and 39 lb up at 21-4-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)	Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00	
Uniform Loads (lb/ft)	
	Vert: 12-21=-8, 1-11=-80
Concentrated Loads (lb)	
	Vert: 15=-134 (F), 17=-134 (F), 19=-134 (F), 22=-135 (F), 23=-134 (F), 24=-134 (F), 25=-134 (F), 26=-134 (F), 27=-134 (F), 28=-134 (F), 29=-134 (F), 30=-134 (F), 31=-855 (B), 32=-134 (F), 33=-134 (F)



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 UFPI plant. 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, erection and bracing available from SBCA and Truss Plate Institute.



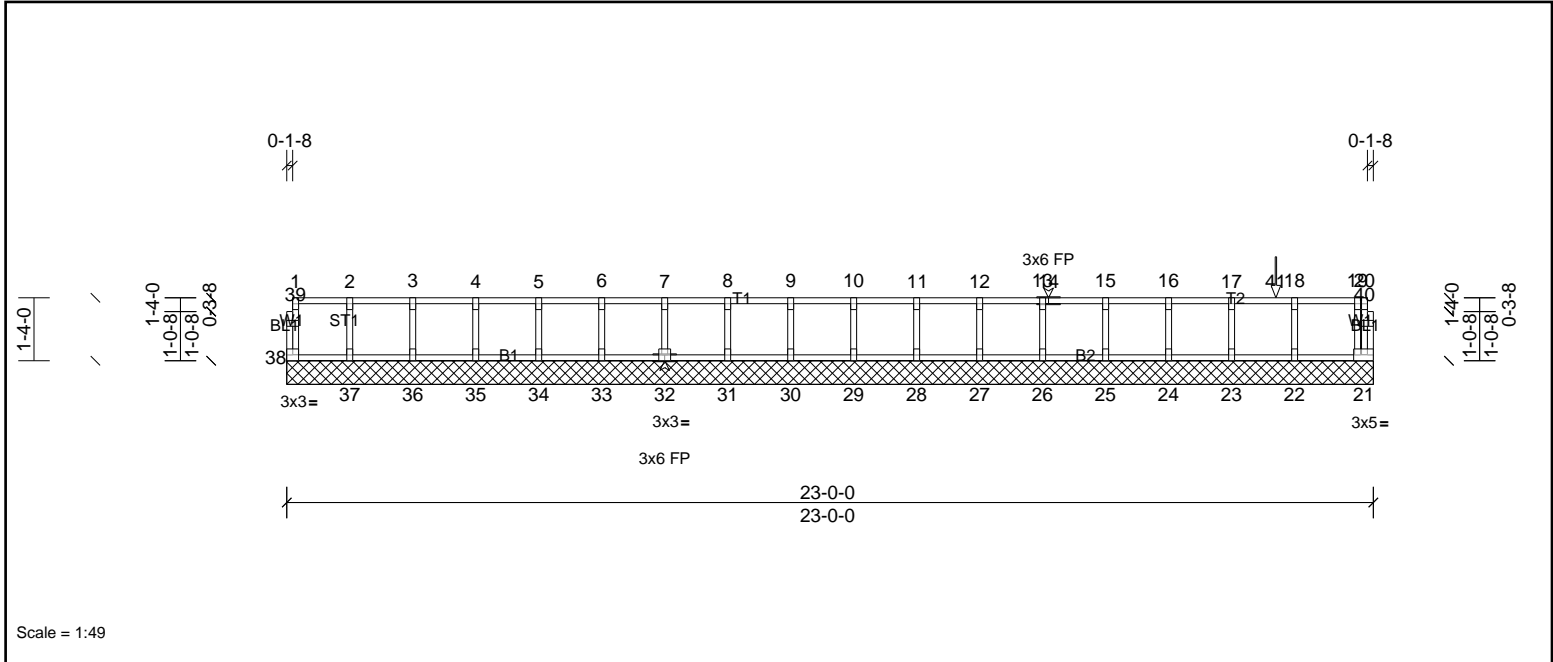
Job 72421463	Truss L100	Truss Type Truss	Qty 1	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Fri Jul 12 07:29:22

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Scale = 1:49

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 101 lb	FT = 20%F, 11%E

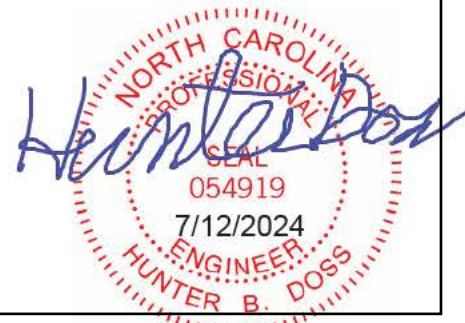
LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 (flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 (flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 (flat)		
OTHERS	2x4 SP No.3 (flat)		

REACTIONS All bearings 23-0-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 except 22=271 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 18-22=-255/0

- NOTES**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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 10-00-00 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
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 21-38=-10, 1-20=-100
Concentrated Loads (lb)
Vert: 41=-136



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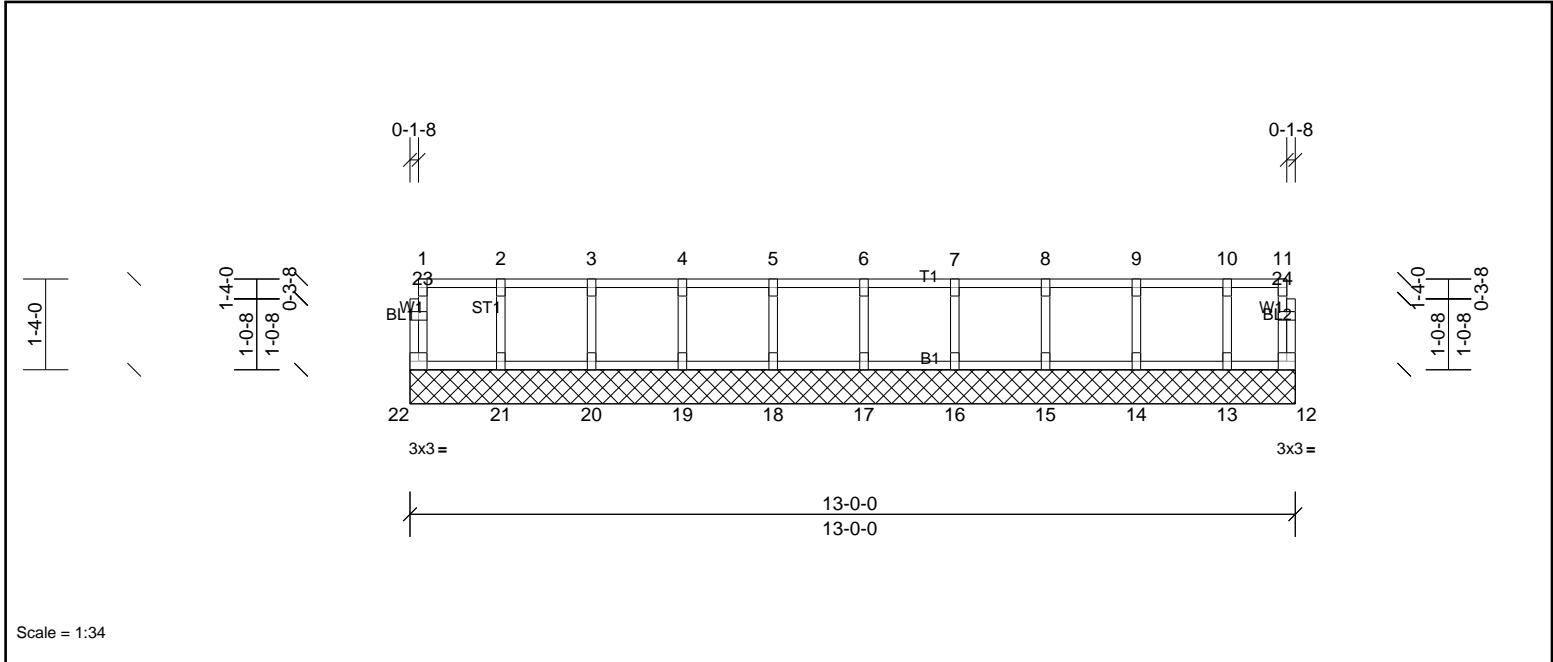
Job 72421463	Truss L109	Truss Type Truss	Qty 2	Ply 1	PBSWILSON C OR D 2ND FL Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Scale = 1:34

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 59 lb	FT = 20%F, 11%E

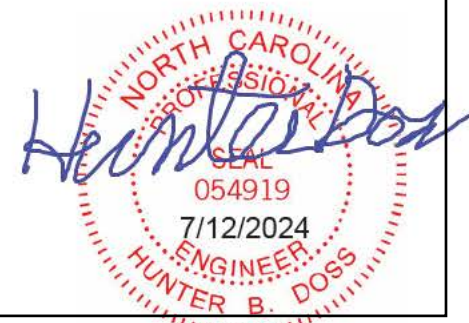
LUMBER
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat) *Except* BL2:2x4 SP No.2(flat)

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 All bearings 13-0-0.
 (lb) - Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

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

- NOTES**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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 10-00-00 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.



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