

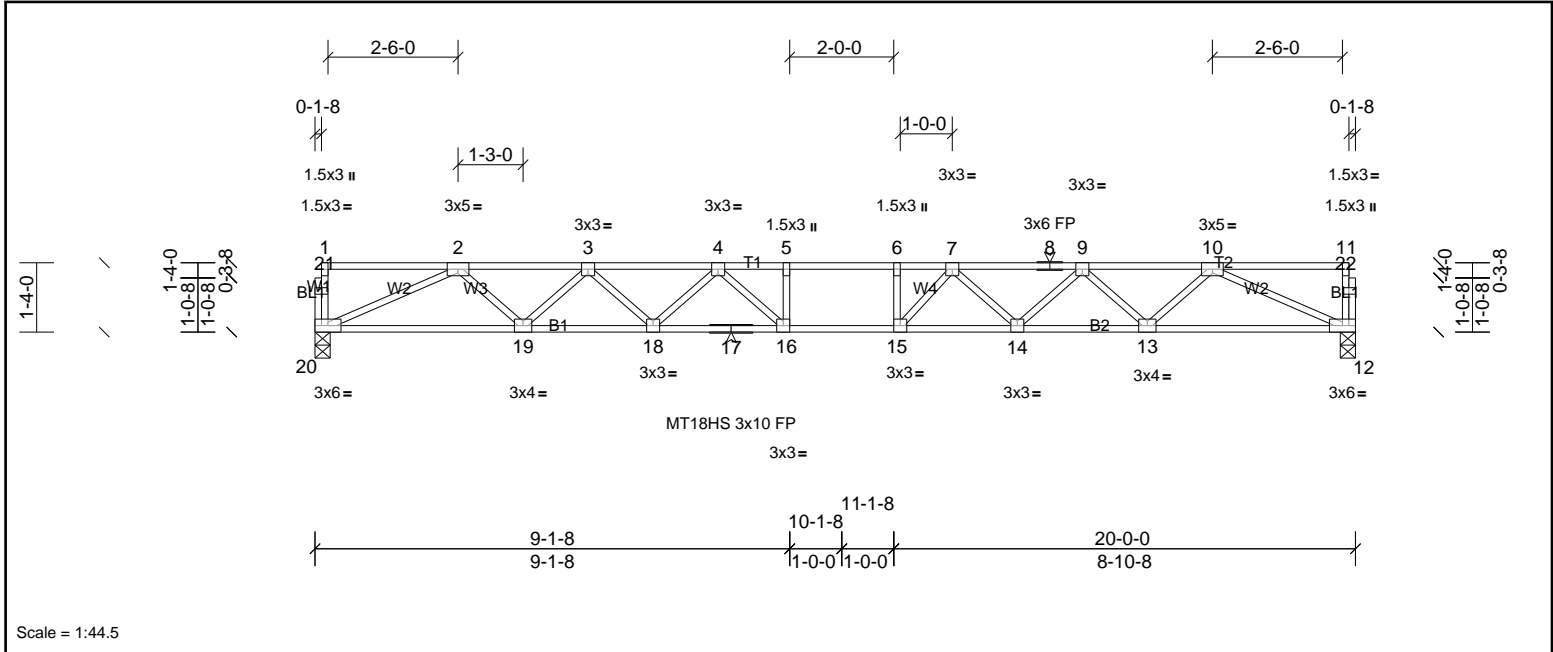
Job 72427241	Truss F200	Truss Type Truss	Qty 2	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:4C

Page: 1

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Scale = 1:44.5

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	0.64	Vert(LL)	-0.30	15-16	>803	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.41	15-16	>584	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							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.1(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)	
<b>REACTIONS</b> (lb/size) 12=863/0-3-8, (min. 0-1-8), 20=863/0-3-8, (min. 0-1-8)	
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2224/0, 3-4=-3073/0, 4-5=-3515/0, 5-6=-3515/0, 6-7=-3515/0, 7-8=-3070/0, 8-9=-3070/0, 9-10=-2224/0	
BOT CHORD 19-20=0/1665, 18-19=0/2752, 17-18=0/3373, 16-17=0/3373, 15-16=0/3515, 14-15=0/3375, 13-14=0/2752, 12-13=0/1666	
WEBS 6-15=-275/25, 2-20=-1829/0, 2-19=0/776, 3-19=-735/0, 3-18=0/447, 4-18=-417/0, 4-16=-122/493, 10-12=-1829/0, 10-13=0/777, 9-13=-733/0, 9-14=0/443, 7-14=-427/0, 7-15=-118/511	

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x3 MT20 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.



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 72427241	Truss F201	Truss Type Truss	Qty 7	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:40

Page: 1

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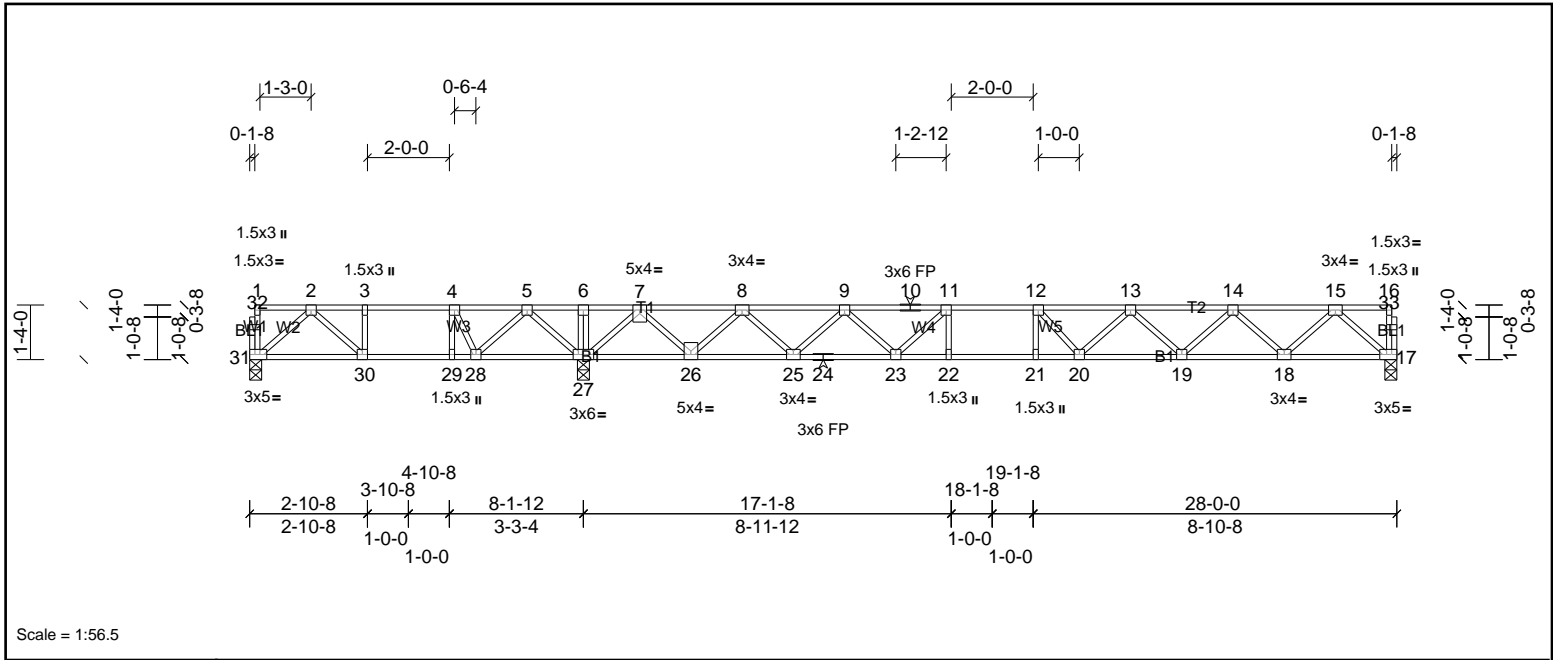


Plate Offsets (X, Y): [17:0-2-0,Edge], [31:0-2-0,Edge]

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	0.85	Vert(LL)	-0.25	20-21	>955	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.34	20-21	>697	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 144 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.1(flat)	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

**REACTIONS**

(lb/size)	17=779/0-3-8, (min. 0-1-8), 27=1511/0-3-8, (min. 0-1-8), 31=141/0-3-8, (min. 0-1-8)
Max Uplift	31=94 (LC 4)
Max Grav	17=788 (LC 7), 27=1511 (LC 1), 31=275 (LC 3)

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

TOP CHORD	2-3=-343/417, 3-4=-343/417, 4-5=-198/668, 5-6=0/1410, 6-7=0/1410, 7-8=-557/0, 8-9=-1804/0, 9-10=-2585/0, 10-11=-2585/0, 11-12=-2916/0, 12-13=-2861/0, 13-14=-2385/0, 14-15=-1450/0
BOT CHORD	30-31=-141/251, 29-30=-417/343, 28-29=-417/343, 27-28=-973/0, 26-27=-400/0, 25-26=0/1289, 24-25=0/2292, 23-24=0/2292, 22-23=0/2916, 21-22=0/2916, 20-21=0/2916, 19-20=0/2732, 18-19=0/2022, 17-18=0/854
WEBS	4-29=0/373, 2-31=-331/187, 2-30=-375/125, 5-27=-696/0, 5-28=0/612, 4-28=-722/0, 7-27=-1344/0, 7-26=0/1059, 8-26=-1040/0, 8-25=0/735, 9-25=-696/0, 9-23=0/470, 11-23=-623/0, 15-17=-1134/0, 15-18=0/830, 14-18=-796/0, 14-19=0/504, 13-19=-482/0, 13-20=0/292, 12-20=-324/193

- 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 94 lb uplift at joint 31.
  - 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 10-00-00 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.



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 72427241	Truss F202	Truss Type Truss	Qty 2	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:41

Page: 1

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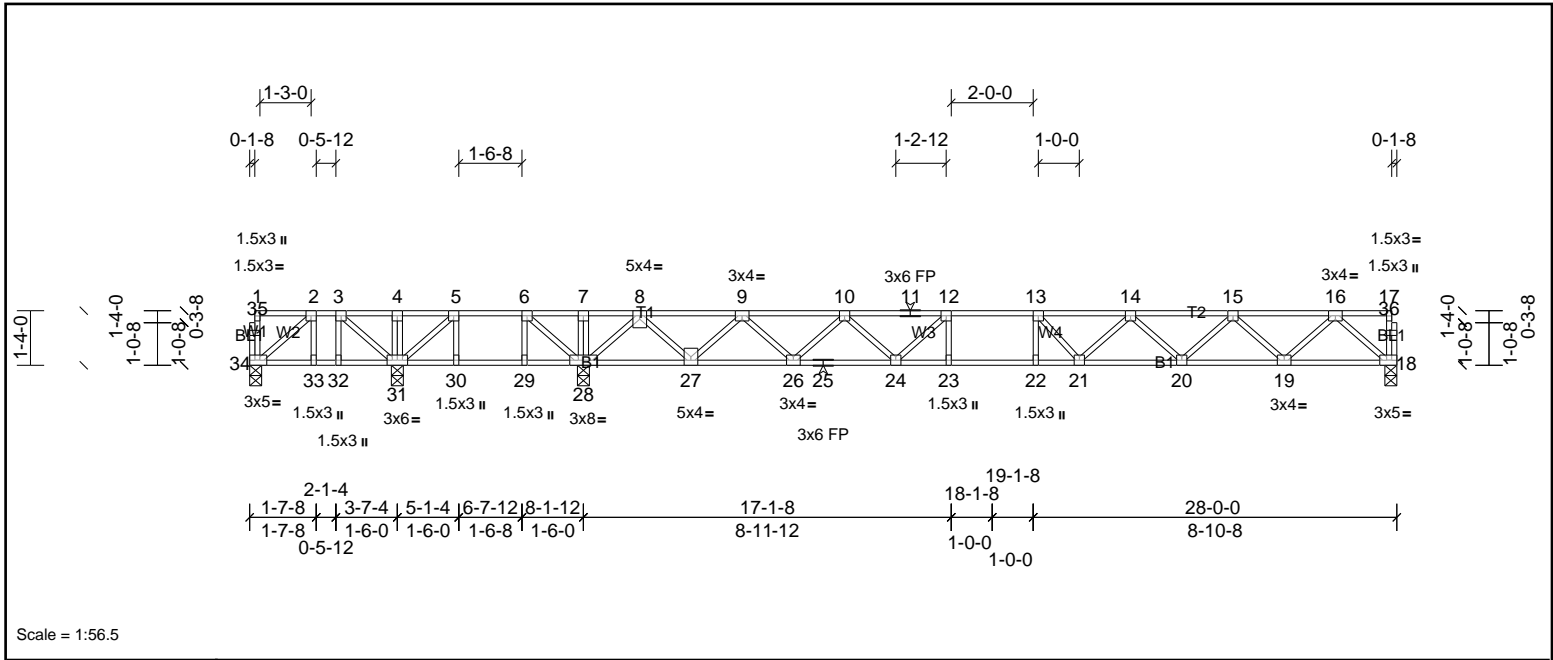


Plate Offsets (X, Y): [18:0-2-0,Edge], [34:0-2-0,Edge]

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	0.81	Vert(LL)	-0.24	21-22	>985	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.33	21-22	>717	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 149 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.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS** All bearings 0-3-8.  
 (lb) - Max Uplift All uplift 100 (lb) or less at joint(s) except 34=336 (LC 4)  
 Max Grav All reactions 250 (lb) or less at joint(s) 34 except 18=767 (LC 13), 28=1303 (LC 14), 31=604 (LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=0/510, 3-4=0/1092, 4-5=0/1092, 5-6=0/1267, 6-7=0/1610, 7-8=0/1610, 8-9=257/0, 9-10=1543/0, 10-11=2371/0, 11-12=2371/0, 12-13=2742/0, 13-14=2724/0, 14-15=2294/0, 15-16=1403/0  
 BOT CHORD 33-34=510/0, 32-33=510/0, 31-32=510/0, 30-31=-1267/0, 29-30=-1267/0, 28-29=-1267/0, 27-28=-561/0, 26-27=0/1008, 25-26=0/2052, 24-25=0/2052, 23-24=0/2742, 22-23=0/2742, 21-22=0/2742, 20-21=0/2621, 19-20=0/1953, 18-19=0/829  
 WEBS 5-31=-130/288, 6-28=-569/0, 3-31=-851/0, 2-34=0/669, 3-32=0/263, 8-28=-1404/0, 8-27=-1050/0, 9-26=0/748, 10-26=-711/0, 10-24=0/477, 12-24=-632/0, 16-18=-1102/0, 16-19=0/798, 15-19=-764/0, 15-20=0/475, 14-20=-455/0, 14-21=0/273, 13-21=-295/203

- 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 335 lb uplift at joint 34.
  - 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 10-00-00 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.



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 72427241	Truss F203	Truss Type Truss	Qty 1	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:42

Page: 1

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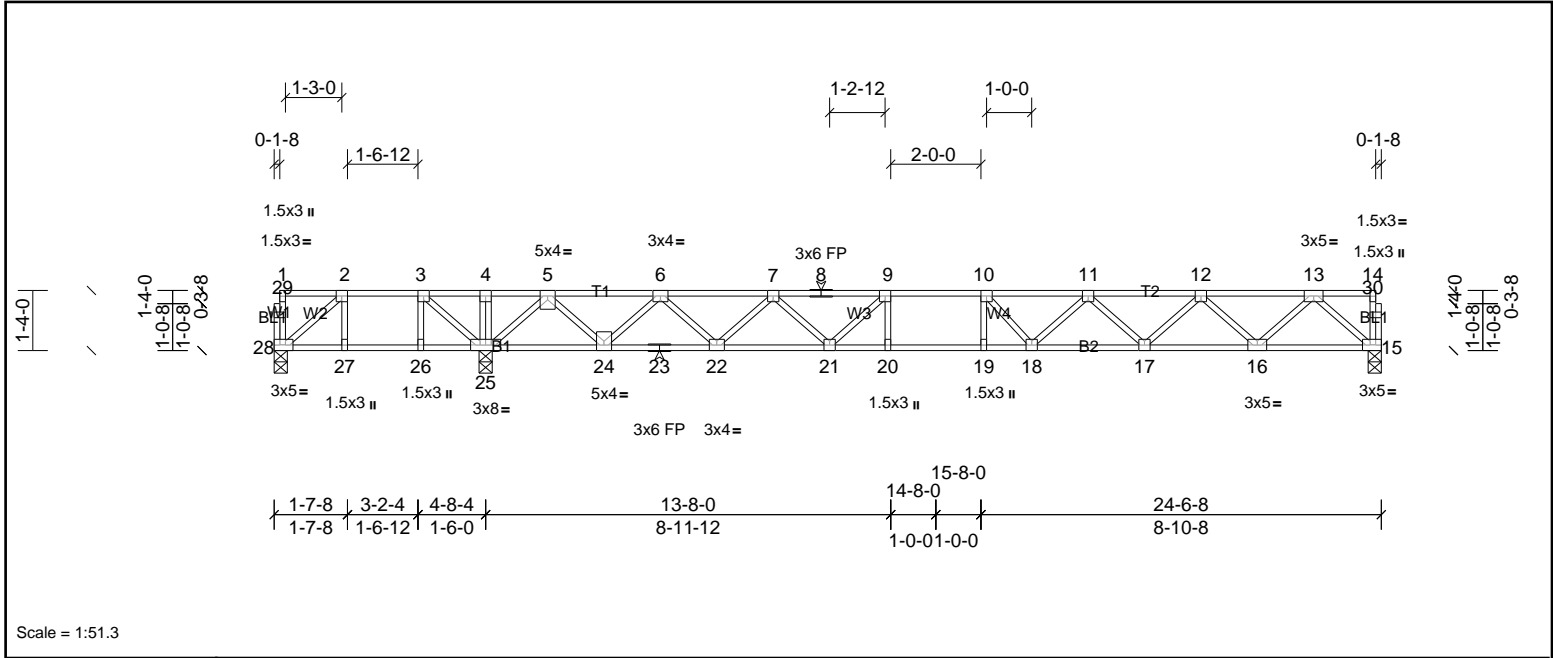


Plate Offsets (X, Y): [15:0-2-0,Edge], [28:0-2-0,Edge]

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	0.72	Vert(LL)	-0.24	19	>994	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.33	19	>724	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 127 lb	FT = 20%F, 11%E

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28,26-27,25-26.

**REACTIONS**  
(lb/size) 15=804/0-3-8, (min. 0-1-8), 25=1379/0-3-8, (min. 0-1-8), 28=57/0-3-8, (min. 0-1-8)  
Max Uplift 28=-197 (LC 4)  
Max Grav 15=807 (LC 7), 25=1379 (LC 1), 28=125 (LC 3)

**FORCES**  
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-46/421, 3-4=0/1008, 4-5=0/1008, 5-6=-830/0, 6-7=-2029/0, 7-8=-2775/0, 8-9=-2775/0, 9-10=-3068/0, 10-11=-2980/0, 11-12=-2465/0, 12-13=-1491/0  
BOT CHORD 27-28=-421/46, 26-27=-421/46, 25-26=-421/46, 23-24=0/1536, 22-23=0/1536, 21-22=0/2502, 20-21=0/3068, 19-20=0/3068, 18-19=0/3068, 17-18=0/2829, 16-17=0/2083, 15-16=0/875  
WEBS 3-25=-880/0, 2-28=-56/555, 5-25=-1367/0, 5-24=0/1030, 6-24=-990/0, 6-22=0/694, 7-22=-664/0, 7-21=0/447, 9-21=-573/0, 13-15=-1162/0, 13-16=0/857, 12-16=-824/0, 12-17=0/531, 11-17=-507/0, 11-18=0/334, 10-18=-382/144

- 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 197 lb uplift at joint 28.
  - 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 10-00-00 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.



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 72427241	Truss F204	Truss Type Truss	Qty 3	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:42

Page: 1

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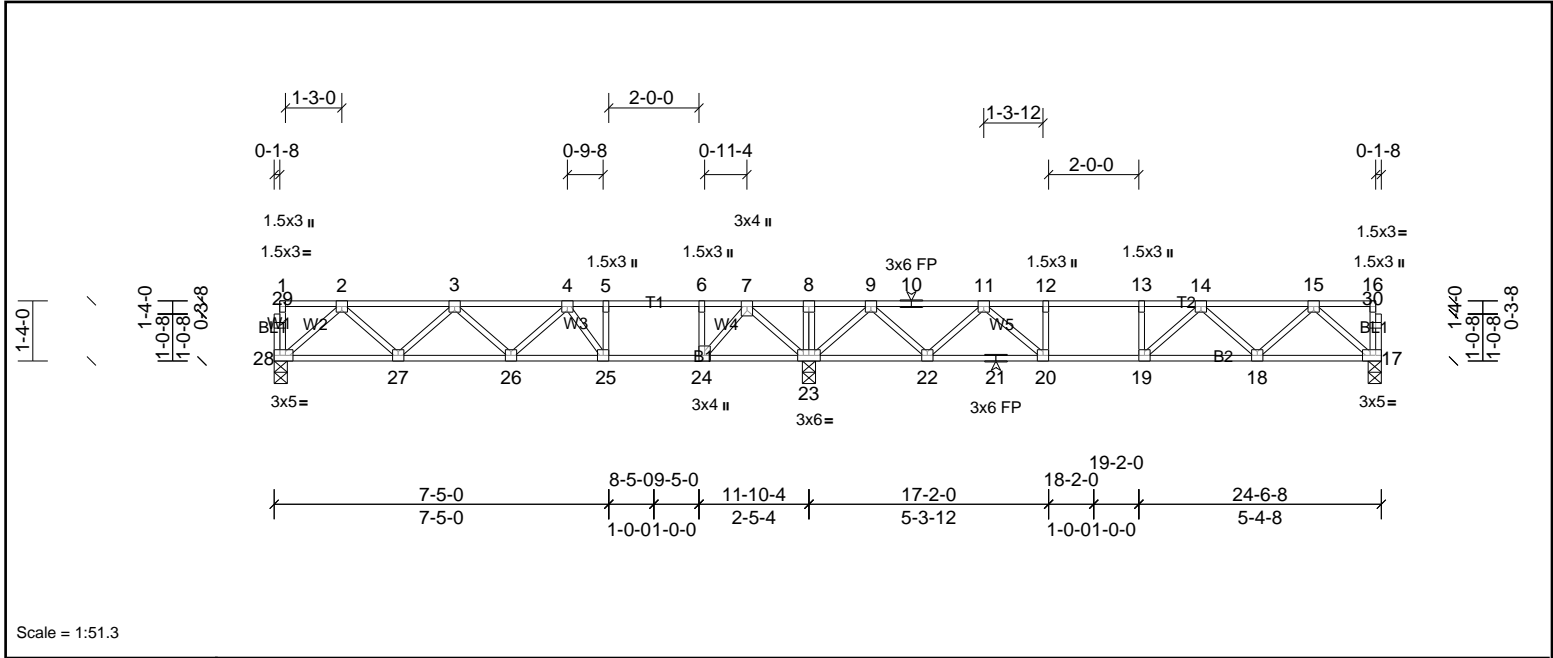


Plate Offsets (X, Y): [17:0-2-0,Edge], [28:0-2-0,Edge]

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	0.87	Vert(LL)	-0.16	25-26	>902	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.21	25-26	>660	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 127 lb	FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.1(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, Except: 6-0-0 oc bracing: 23-24.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS** (lb/size) 17=525/0-3-8, (min. 0-1-8), 23=1114/0-3-8, (min. 0-1-8), 28=487/0-3-8, (min. 0-1-8)  
 Max Grav 17=532 (LC 7), 23=1114 (LC 1), 28=517 (LC 10)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-860/0, 3-4=-1257/0, 4-5=-1054/0, 5-6=-1054/0, 6-7=-1054/0, 7-8=-68/389, 8-9=-68/389, 9-10=-799/0, 10-11=-799/0, 11-12=-1328/0, 12-13=-1328/0, 13-14=-1328/0, 14-15=-894/0  
 BOT CHORD 27-28=0/544, 26-27=0/1163, 25-26=0/1275, 24-25=0/1054, 23-24=-161/580, 22-23=0/432, 21-22=0/1134, 20-21=0/1134, 19-20=0/1328, 18-19=0/1194, 17-18=0/566  
 WEBS 5-25=0/268, 6-24=-500/0, 15-17=-752/0, 15-18=0/455, 14-18=-417/0, 14-19=0/297, 9-23=-816/0, 9-22=0/531, 11-22=-506/0, 11-20=0/352, 2-28=-723/0, 2-27=0/438, 3-27=-422/0, 4-25=-484/0, 7-23=-739/0, 7-24=0/844

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x3 MT20 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.
  - CAUTION, Do not erect truss backyards.



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Job 72427241	Truss F205	Truss Type Truss	Qty 4	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:42

Page: 1

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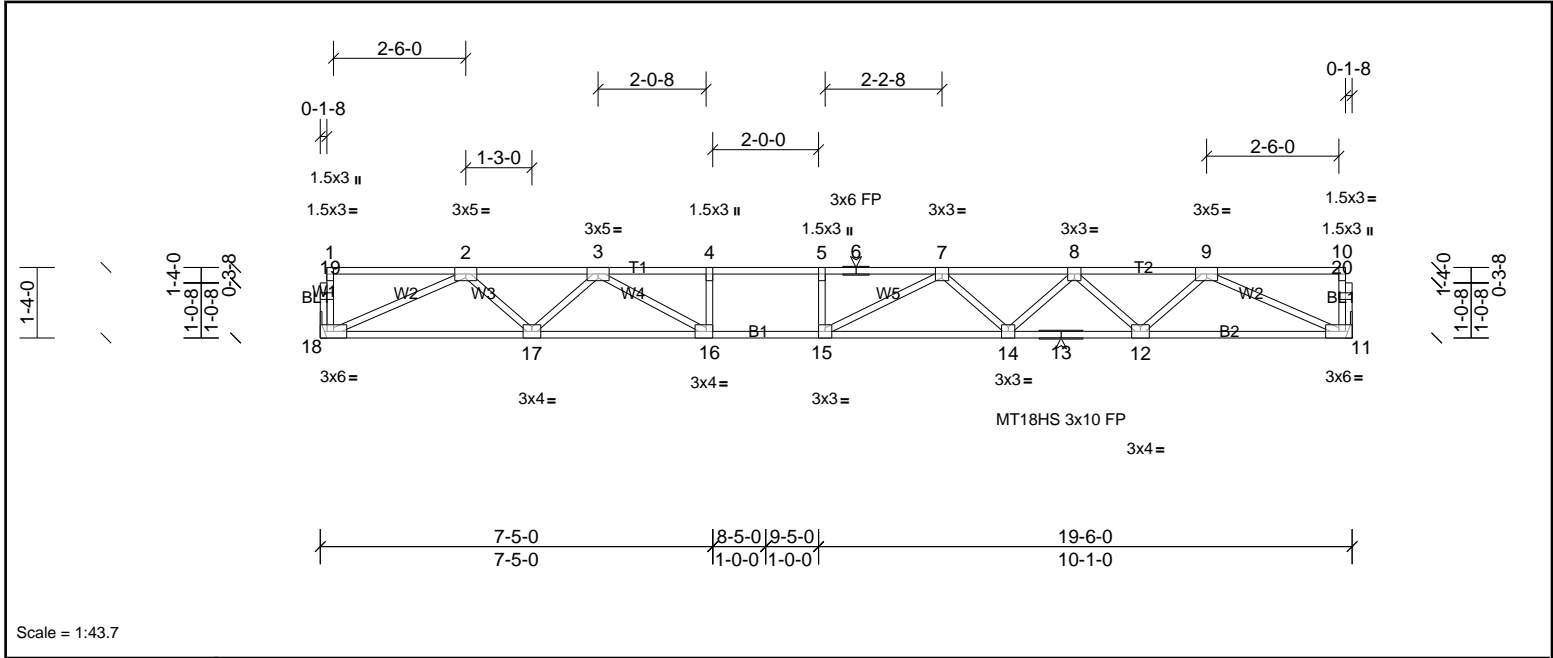


Plate Offsets (X, Y): [16:0-1-8,Edge]

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	0.73	Vert(LL)	-0.33	14-15	>708	480	MT18HS 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.45	14-15	>513	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 6-0-0 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=841/ Mechanical, (min. 0-1-8), 18=841/ Mechanical, (min. 0-1-8)
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2137/0, 3-4=-3282/0, 4-5=-3282/0, 5-6=-3282/0, 6-7=-3282/0, 7-8=-2981/0, 8-9=-2148/0	
BOT CHORD	17-18=0/1616, 16-17=0/2648, 15-16=0/3282, 14-15=0/3249, 13-14=0/2660, 12-13=0/2660, 11-12=0/1617	
WEBS	4-16=-288/0, 2-18=-1775/0, 2-17=0/724, 3-17=-711/0, 3-16=0/884, 9-11=-1775/0, 9-12=0/739, 8-12=-712/0, 8-14=0/448, 7-14=-372/0, 7-15=-241/426	

- 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.



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.





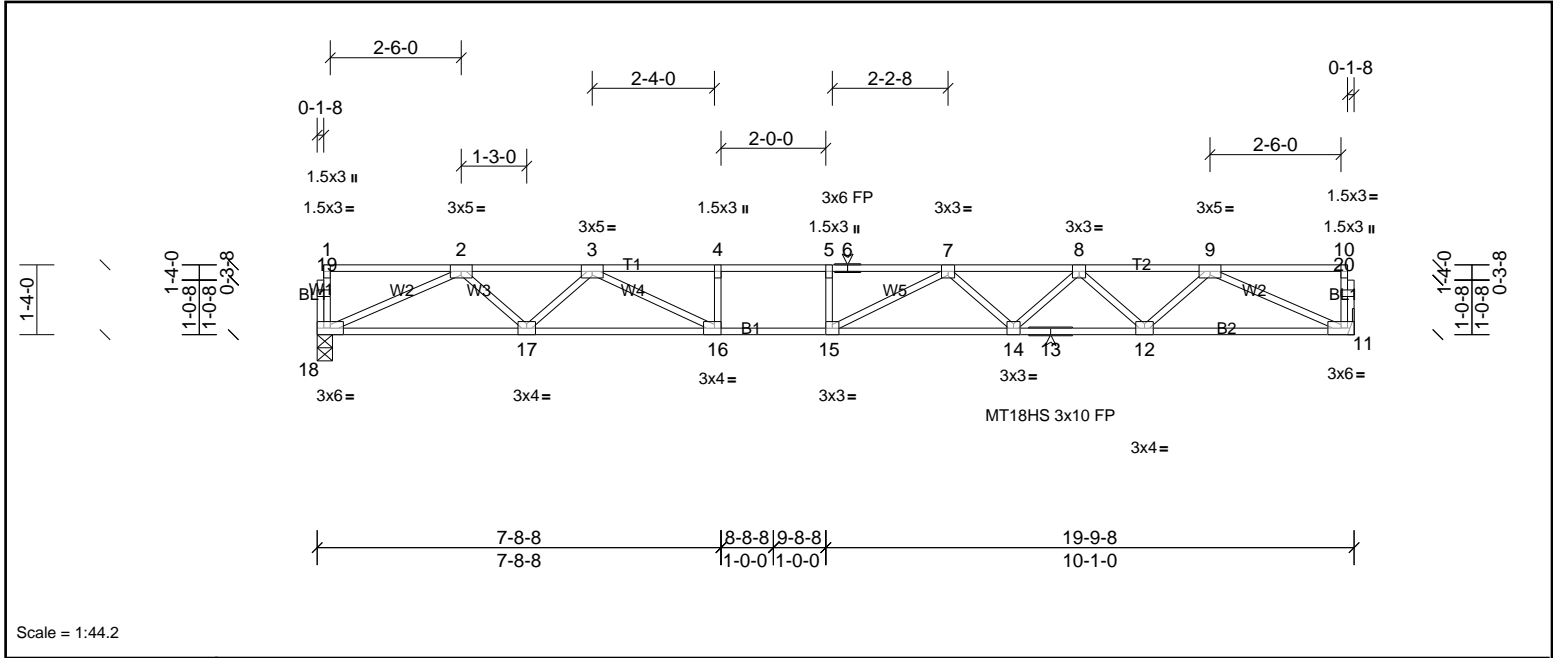
Job 72427241	Truss F206	Truss Type Truss	Qty 4	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:43

Page: 1

ID:ViPh4jYgr0QrblS0qeleA3zS9R1-pRApzmUSYci4OrRX7NuaQxxZAxe2?J23OyuniybJLbc



Scale = 1:44.2

Plate Offsets (X, Y):	[16:0-1-8,Edge]											
<b>Loading</b>	(psf)	<b>Spacing</b>	1-7-3	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.36	14-15	>656	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.49	14-15	>478	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 20%F, 11%E

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.2(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)		

<b>REACTIONS</b>	(lb/size)	11=854/ Mechanical, (min. 0-1-8), 18=854/0-3-8, (min. 0-1-8)
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-3=-2182/0, 3-4=-3397/0, 4-5=-3397/0, 5-6=-3397/0, 6-7=-3397/0, 7-8=-3048/0, 8-9=-2189/0
BOT CHORD		17-18=0/1644, 16-17=0/2706, 15-16=0/3397, 14-15=0/3328, 13-14=0/2714, 12-13=0/2714, 11-12=0/1645
WEBS		4-16=-262/0, 2-18=-1805/0, 2-17=0/748, 3-17=-729/0, 3-16=0/927, 9-11=-1806/0, 9-12=0/757, 8-12=-730/0, 8-14=0/464, 7-14=-390/0, 7-15=-220/461

- 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.



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.



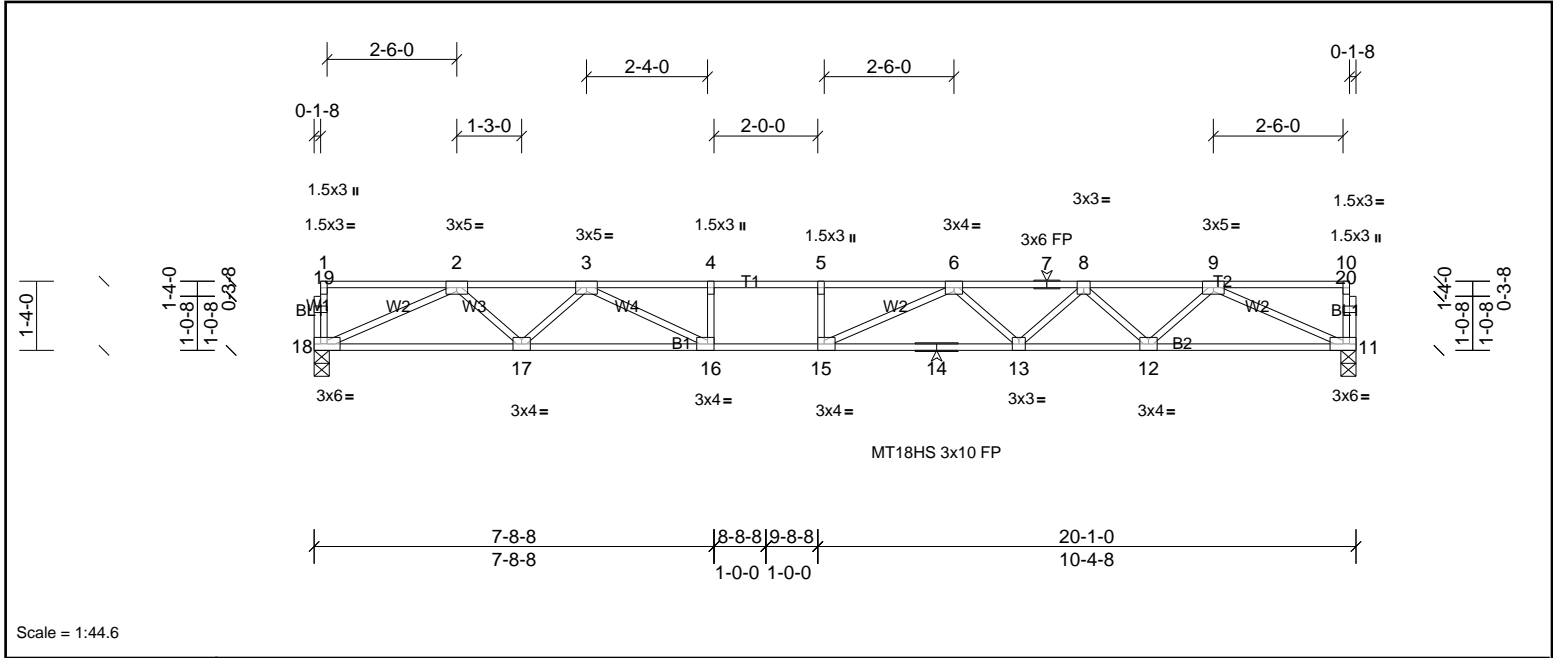
Job 72427241	Truss F207	Truss Type Truss	Qty 3	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:43

Page: 1

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Scale = 1:44.6

Plate Offsets (X, Y):	[15:0-1-8,Edge], [16:0-1-8,Edge]											
<b>Loading</b>	(psf)	<b>Spacing</b>	1-7-3	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.37	13-15	>646	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.51	13-15	>469	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 99 lb	FT = 20%F, 11%E

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-5-7 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)		

<b>REACTIONS</b>	(lb/size)	11=867/0-3-8, (min. 0-1-8), 18=867/0-3-8, (min. 0-1-8)
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-3=-2220/0, 3-4=-3492/0, 4-5=-3492/0, 5-6=-3492/0, 6-7=-3120/0, 7-8=-3120/0, 8-9=-2229/0
BOT CHORD		17-18=0/1671, 16-17=0/2758, 15-16=0/3492, 14-15=0/3418, 13-14=0/3418, 12-13=0/2767, 11-12=0/1672
WEBS		4-16=-282/0, 2-18=-1835/0, 2-17=0/764, 3-17=-748/0, 3-16=0/975, 9-11=-1836/0, 9-12=0/774, 8-12=-749/0, 8-13=0/491, 6-13=-414/0, 6-15=-230/487

- 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.





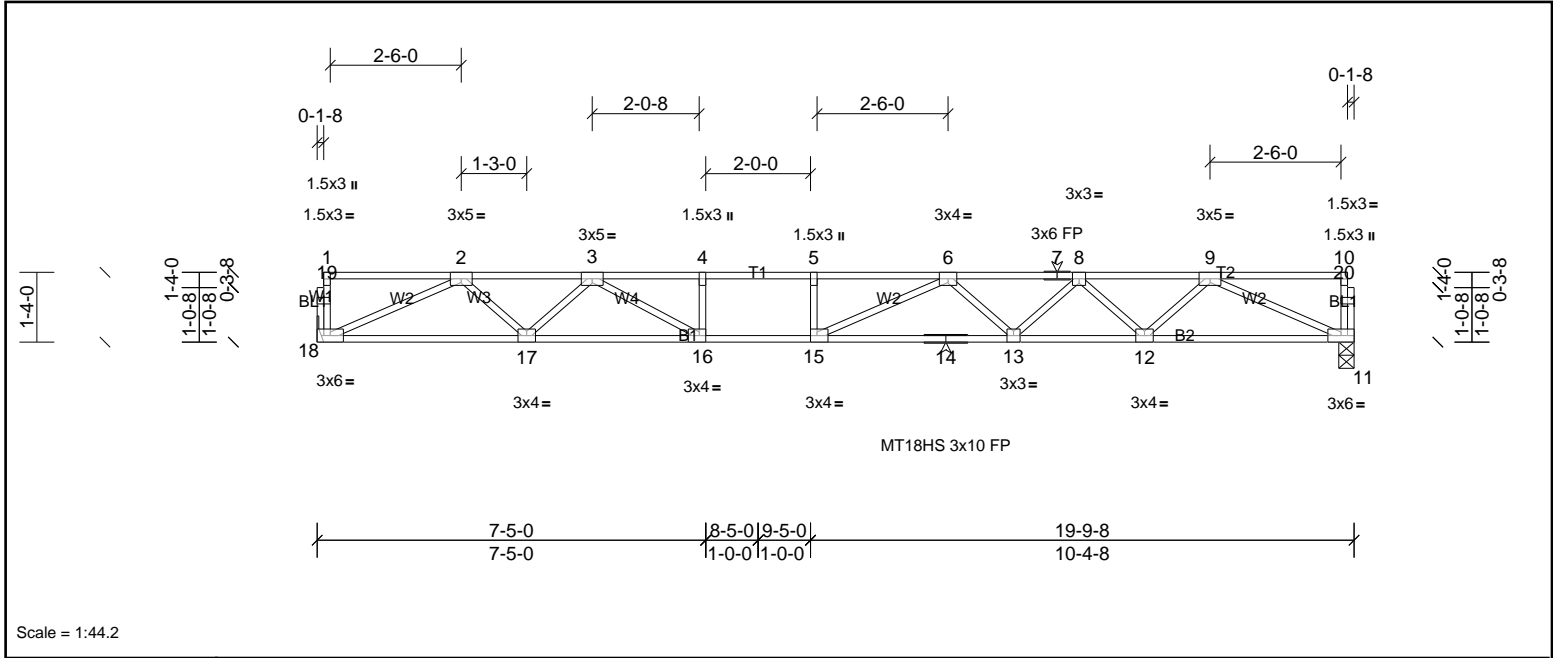
Job 72427241	Truss F208	Truss Type Truss	Qty 5	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:43

Page: 1

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Scale = 1:44.2

Plate Offsets (X, Y):	[15:0-1-8,Edge], [16:0-1-8,Edge]											
<b>Loading</b>	(psf)	<b>Spacing</b>	1-7-3	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.36	13-15	>651	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.50	13-15	>471	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 20%F, 11%E

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-3-4 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)		
OTHERS	2x4 SP No.3(flat)		

<b>REACTIONS</b>	(lb/size)	11=854/0-3-8, (min. 0-1-8), 18=854/ Mechanical, (min. 0-1-8)
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-3=-2175/0, 3-4=-3374/0, 4-5=-3374/0, 5-6=-3374/0, 6-7=-3055/0, 7-8=-3055/0, 8-9=-2187/0
BOT CHORD		17-18=0/1643, 16-17=0/2702, 15-16=0/3374, 14-15=0/3338, 13-14=0/3338, 12-13=0/2713, 11-12=0/1645
WEBS		4-16=-298/0, 2-18=-1804/0, 2-17=0/740, 3-17=-733/0, 3-16=0/926, 9-11=-1806/0, 9-12=0/755, 8-12=-732/0, 8-13=0/475, 6-13=-394/0, 6-15=-250/449

- 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.



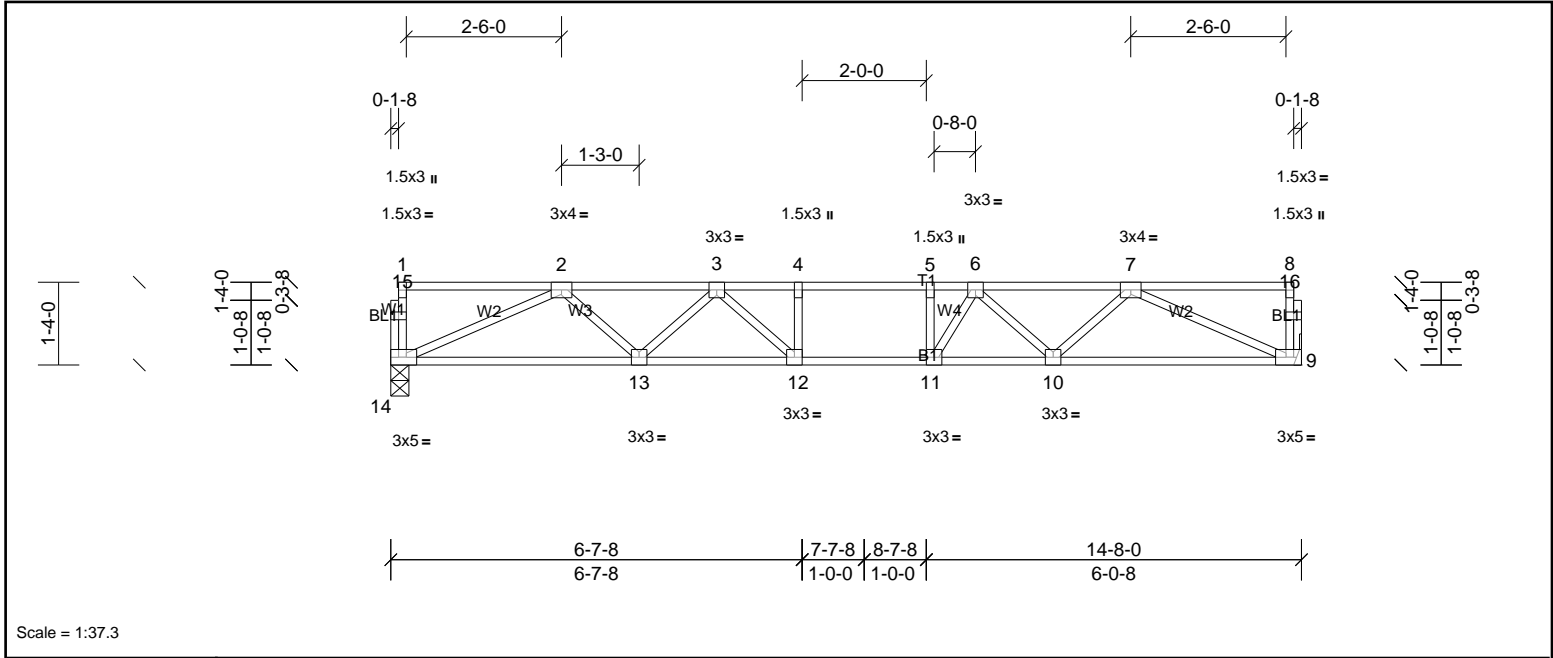
Job 72427241	Truss F209	Truss Type Truss	Qty 2	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:43

Page: 1

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Scale = 1:37.3

Plate Offsets (X, Y): [9:0-2-0,Edge], [14:0-2-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.10	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 75 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) 9=524/ Mechanical, (min. 0-1-8), 14=524/0-3-8, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1228/0, 3-4=-1552/0, 4-5=-1552/0, 5-6=-1552/0, 6-7=-1224/0  
 BOT CHORD 13-14=0/970, 12-13=0/1456, 11-12=0/1552, 10-11=0/1460, 9-10=0/969  
 WEBS 2-14=-1064/0, 2-13=0/359, 3-13=-316/0, 3-12=-30/295, 7-9=-1062/0, 7-10=0/355, 6-10=-329/0, 6-11=-29/354

- 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 10-00-00 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.



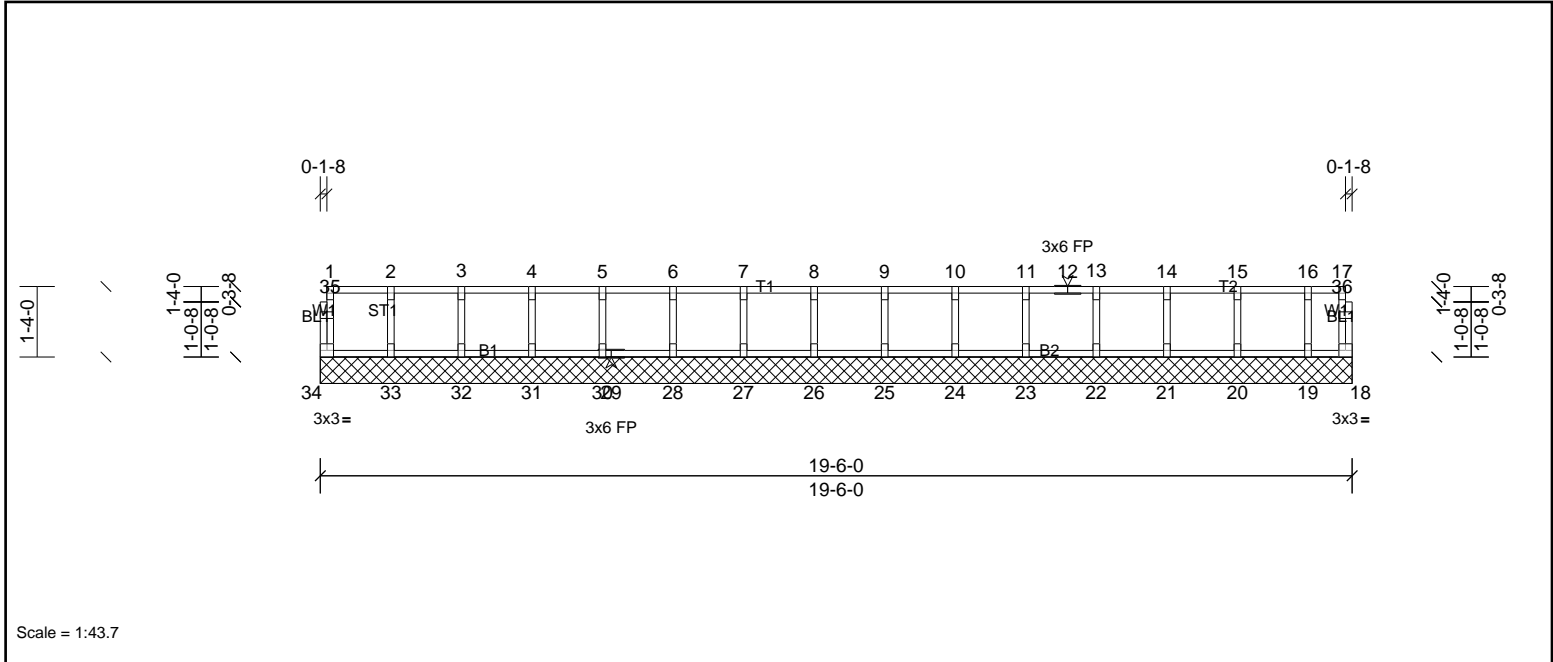
Job 72427241	Truss K200	Truss Type Truss	Qty 1	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:43

Page: 1

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Scale = 1:43.7

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	0.06	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	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 86 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 19-6-0.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34

**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 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 10-00-00 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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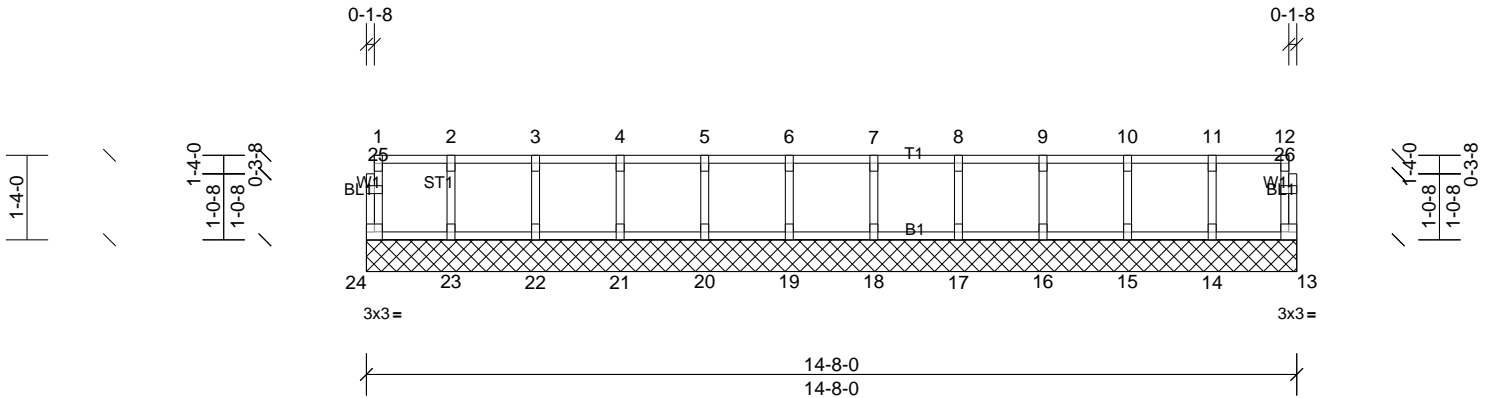
Job 72427241	Truss K201	Truss Type Truss	Qty 1	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

Run: 8.73 S Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Wed Aug 28 11:49:43

Page: 1

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Scale = 1:36.5

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	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 65 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)

**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 14-8-0.  
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

**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 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 10-00-00 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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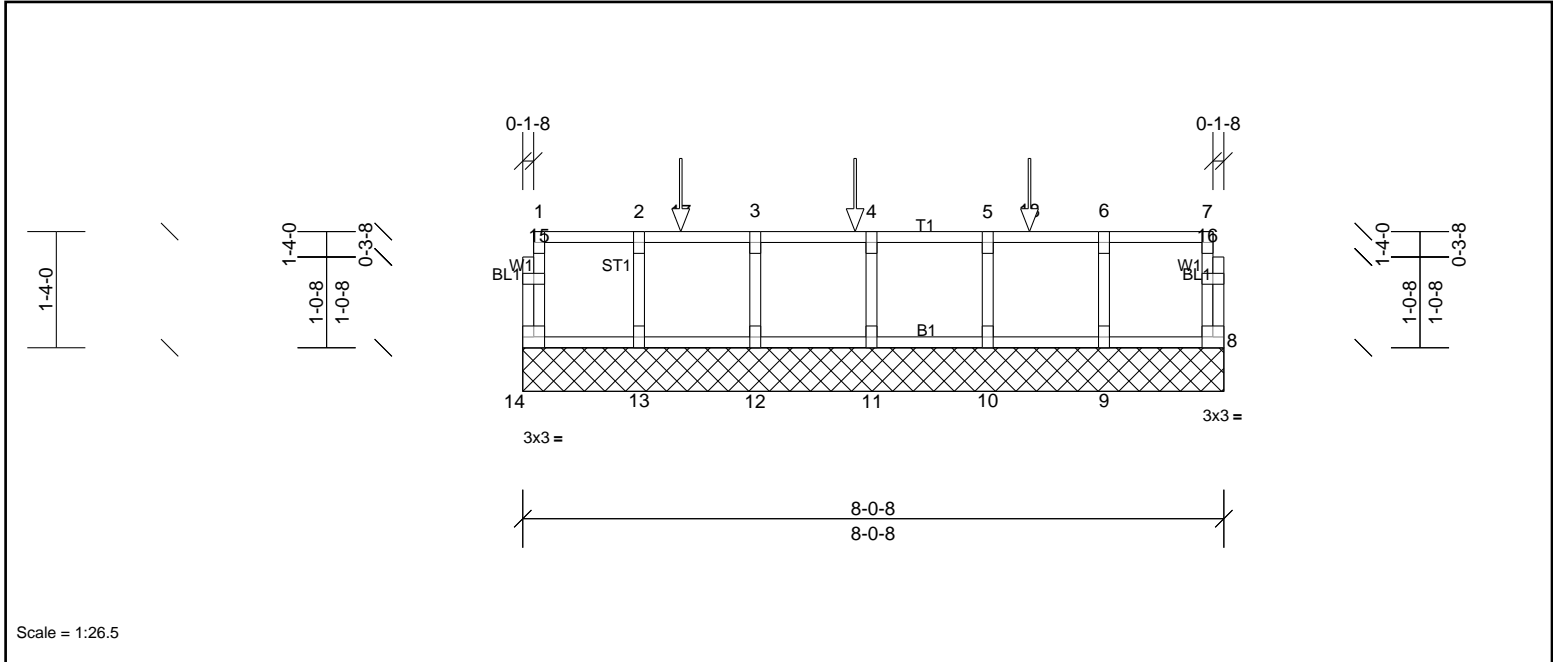
Job 72427241	Truss K202	Truss Type Truss	Qty 1	Ply 1	PBS/SMITHFIELD FC 2ND FLR OW Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Hannah Hill

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Page: 1

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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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R						Weight: 38 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.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

**REACTIONS** All bearings 8-0-8.  
 (lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 10, 11, 12, 13, 14  
 Max Grav All reactions 250 (lb) or less at joint(s) 8, 9, 10, 11, 12, 13, 14

**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.
  - 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 13, 12, 11, 10, 9.
  - 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) 198 lb down and 62 lb up at 1-9-12, and 198 lb down and 62 lb up at 3-9-12, and 198 lb down and 62 lb up at 5-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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: 8-14=-8, 1-7=-80
Concentrated Loads (lb)
Vert: 4=-91 (B), 17=-91 (B), 18=-91 (B)



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.

