

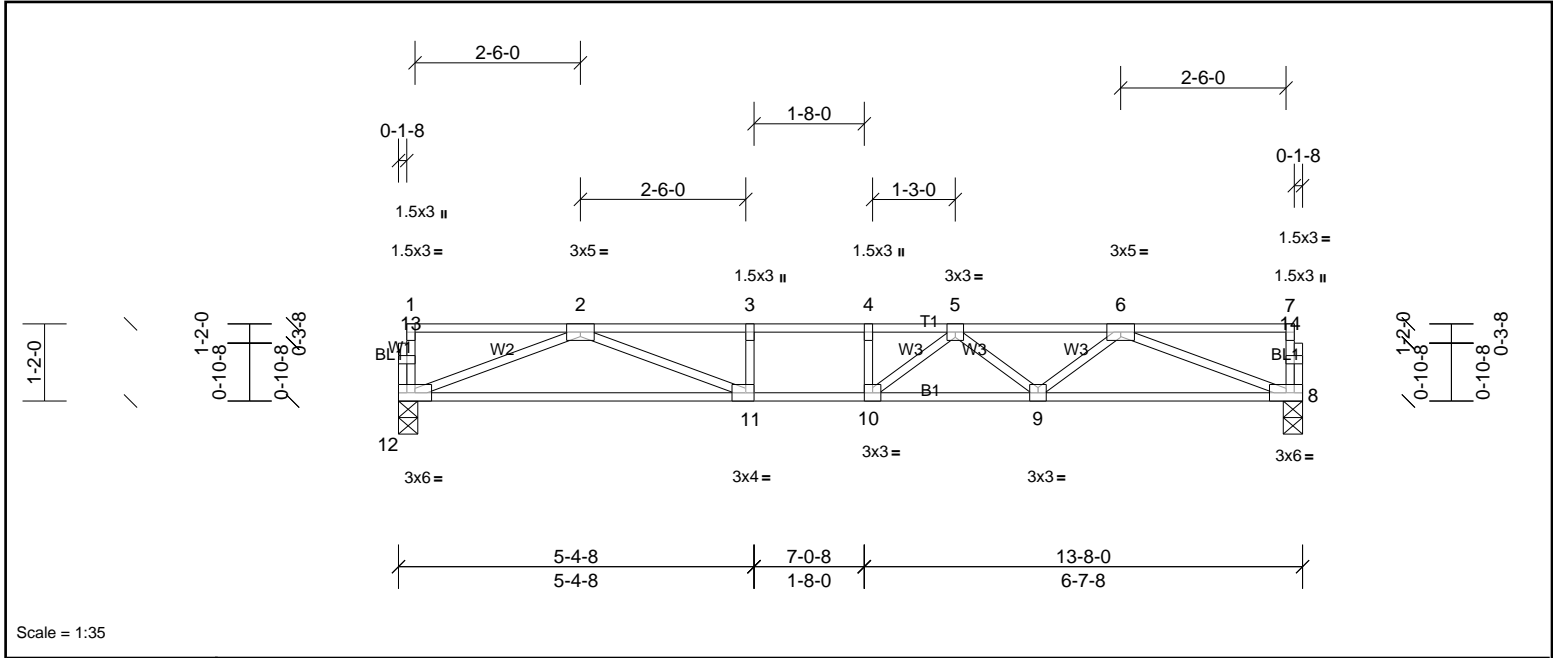
Job 72333199	Truss 2F1	Truss Type Truss	Qty 4	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:16

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ID:J9S0oHjg6CNtodqyaC7sZFyg2Ts-7_dB2M8iGjFT6TtHMwZn87fZn0b2vcky4mFM0qyg4KE



Scale = 1:35

Plate Offsets (X, Y): [11:0-1-8,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	0.56	Vert(LL)	-0.17	9-10	>936	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.22	9-10	>729	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 67 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=732/0-3-8, (min. 0-1-8), 12=732/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2331/0, 3-4=-2331/0, 4-5=-2331/0, 5-6=-1933/0	
BOT CHORD	11-12=0/1536, 10-11=0/2331, 9-10=0/2260, 8-9=0/1547	
WEBS	6-8=-1657/0, 2-12=-1645/0, 6-9=0/502, 2-11=0/911, 5-9=-426/0, 5-10=-144/387, 3-11=-254/0	

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



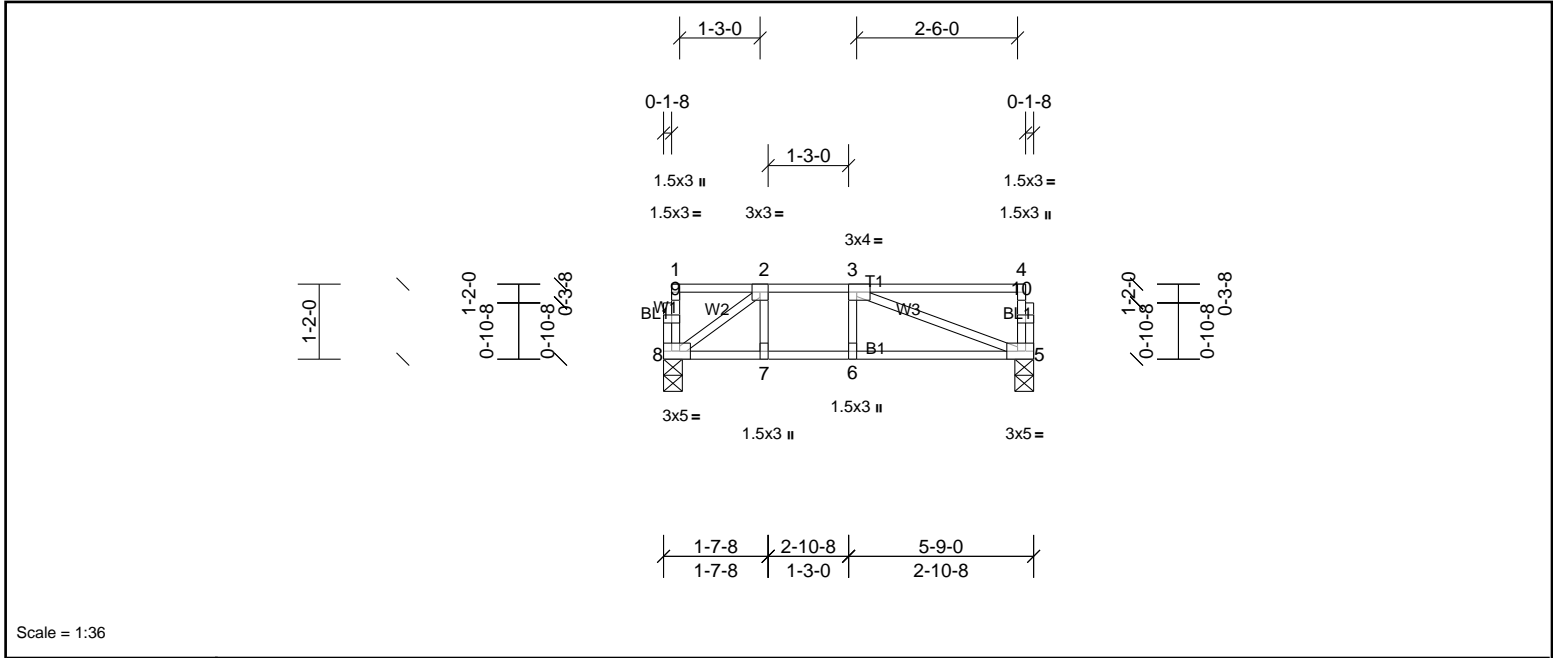
Job 72333199	Truss 2F2	Truss Type Truss	Qty 2	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:17

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ID:J9S0oHjg6CNtodqyaC7sZFyg2Ts-3NlxT2AyoKWBln1gULcFDYkwHqOLNcOFX4kS4jyg4KC



Scale = 1:36

Plate Offsets (X, Y): [3:0-1-8,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	0.49	Vert(LL)	-0.04	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.05	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 31 lb	FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-9-0 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=296/0-3-8, (min. 0-1-8), 8=296/0-3-8, (min. 0-1-8)

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

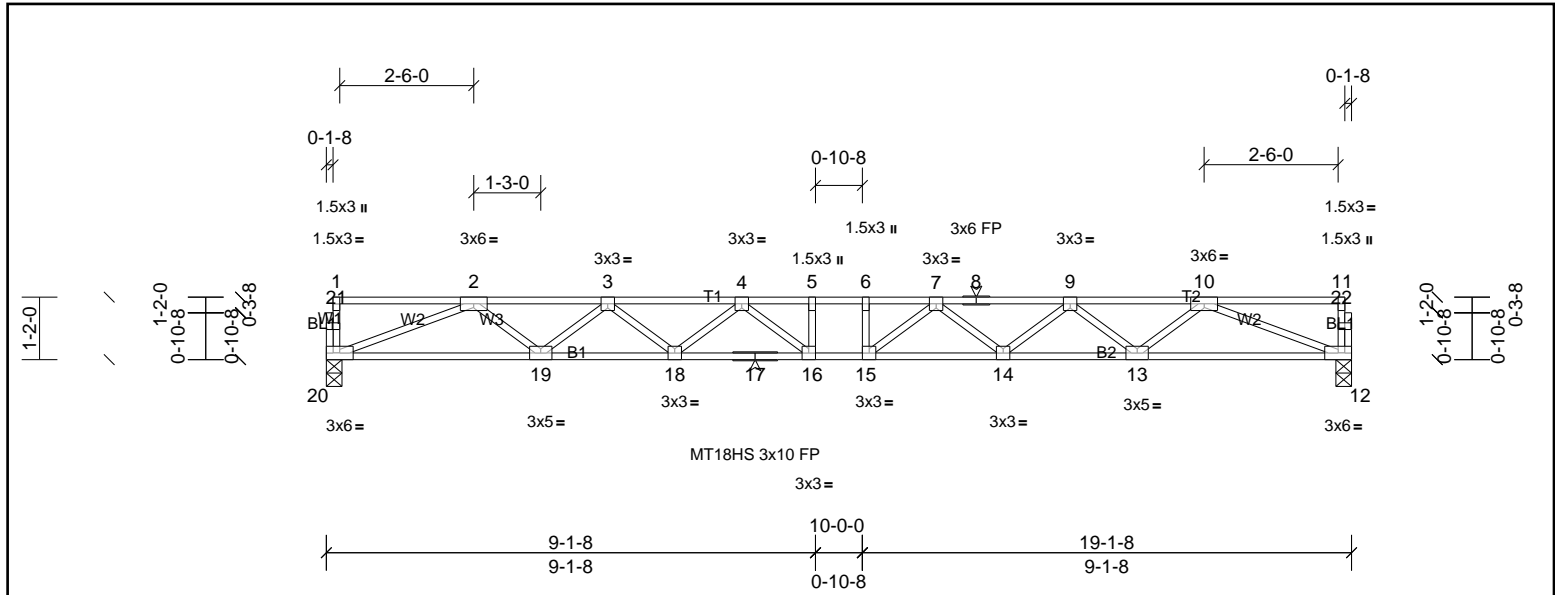
TOP CHORD	2-3=-398/0
BOT CHORD	7-8=0/398, 6-7=0/398, 5-6=0/398
WEBS	3-5=-419/0, 2-8=-489/0

- NOTES
- Unbalanced floor live loads have been considered for this design.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.





Scale = 1:43.2

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	0.37	Vert(LL)	-0.35	15-16	>651	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.48	15-16	>474	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 95 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP SS(flat)
BOT CHORD 2x4 SP SS(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 (lb/size) 12=1032/0-3-8, (min. 0-1-8), 20=1032/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-3042/0, 3-4=-4160/0, 4-5=-4674/0, 5-6=-4674/0, 6-7=-4674/0, 7-8=-4160/0, 8-9=-4160/0, 9-10=-3042/0

BOT CHORD 19-20=0/2290, 18-19=0/3752, 17-18=0/4541, 16-17=0/4541, 15-16=0/4674, 14-15=0/4541, 13-14=0/3752, 12-13=0/2290

WEBS 10-12=-2456/0, 2-20=-2456/0, 10-13=0/979, 2-19=0/979, 9-13=-924/0, 3-19=-924/0, 9-14=0/532, 3-18=0/532, 7-14=-496/0, 4-18=-496/0, 7-15=-201/497, 4-16=-201/497

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x3 MT20 unless otherwise indicated.
 - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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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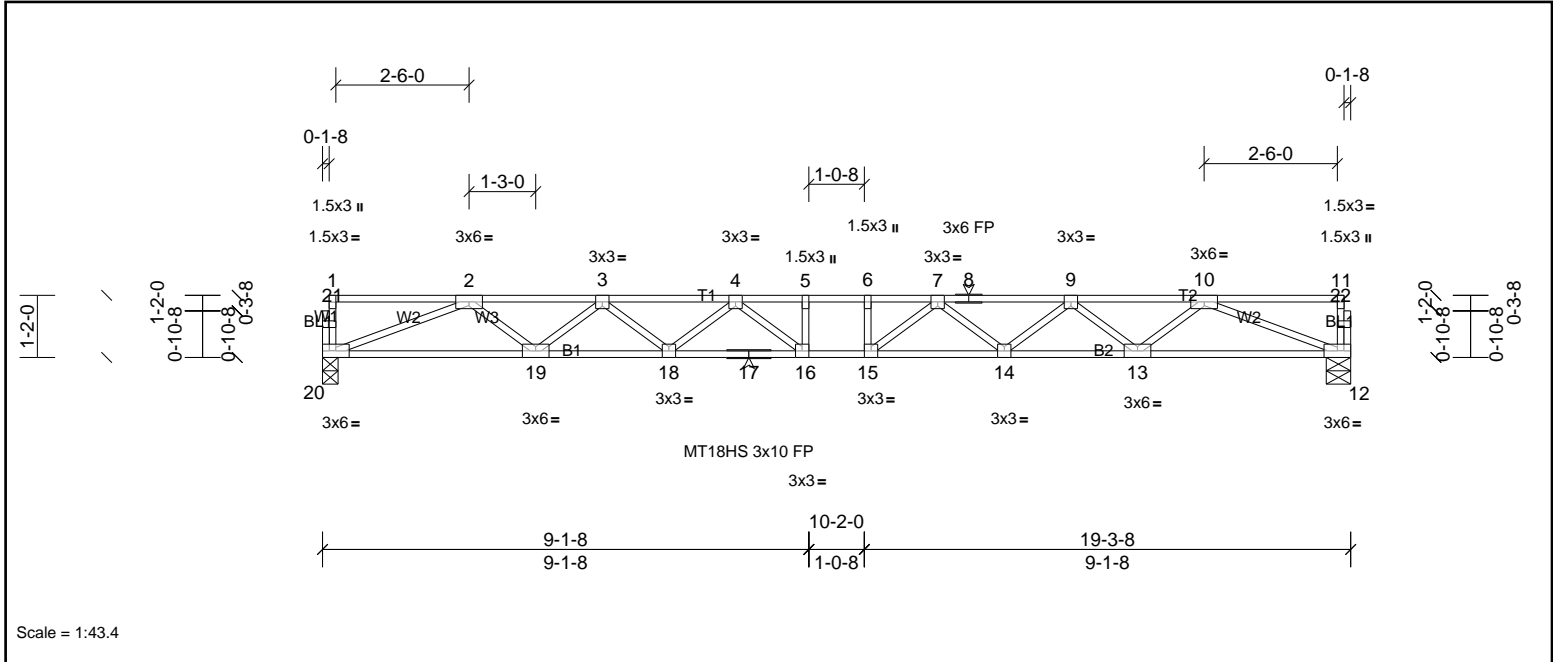
Job 72333199	Truss 2F4	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:18

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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	0.38	Vert(LL)	-0.36	15-16	>636	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.49	15-16	>463	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.08	12	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 SS(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) 12=1041/0-5-8, (min. 0-1-8), 20=1041/0-3-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3076/0, 3-4=-4216/0, 4-5=-4754/0, 5-6=-4754/0, 6-7=-4754/0, 7-8=-4216/0, 8-9=-4216/0, 9-10=-3076/0
 BOT CHORD 19-20=0/2313, 18-19=0/3797, 17-18=0/4608, 16-17=0/4608, 15-16=0/4754, 14-15=0/4608, 13-14=0/3797, 12-13=0/2313
 WEBS 10-12=-2481/0, 2-20=-2481/0, 10-13=0/994, 2-19=0/994, 9-13=-938/0, 3-19=-938/0, 9-14=0/546, 3-18=0/546, 7-14=-510/0, 4-18=-510/0, 7-15=-197/527, 4-16=-197/527

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x3 MT20 unless otherwise indicated.
 - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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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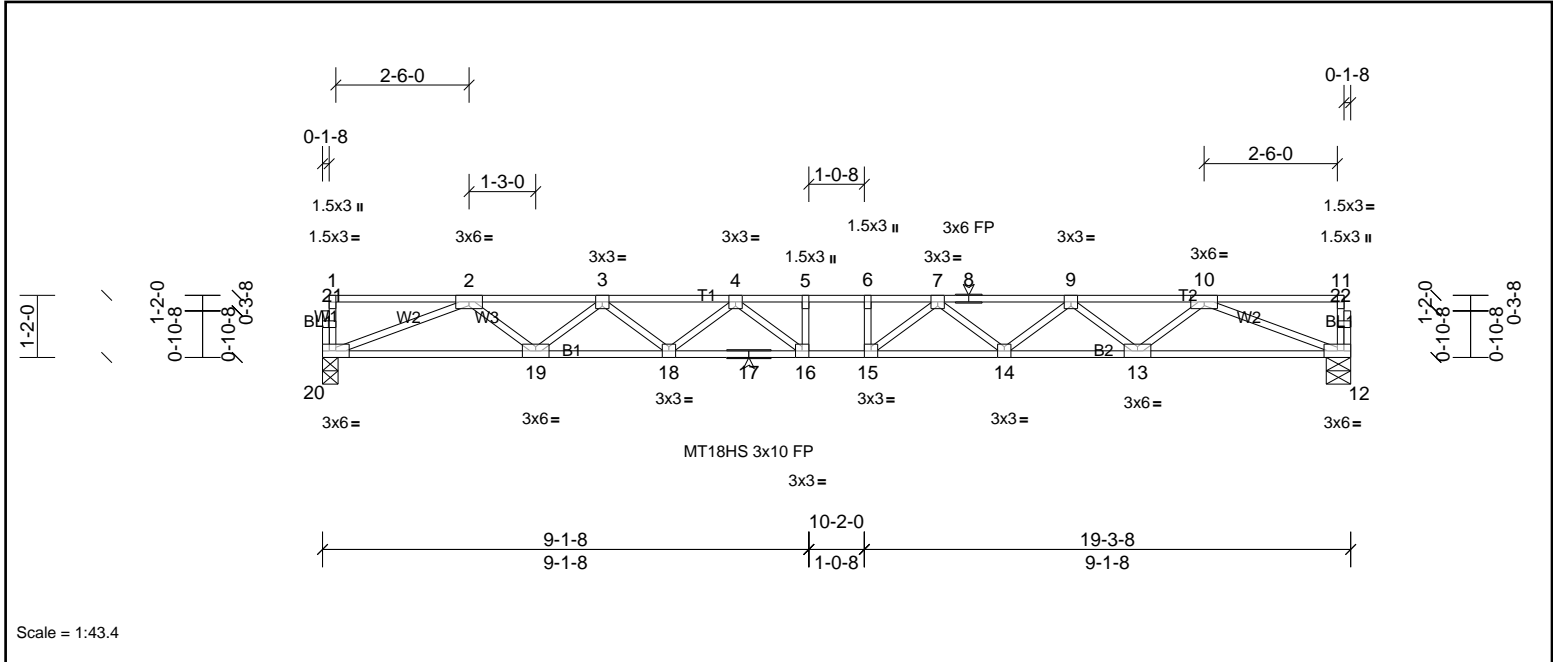
Job 72333199	Truss 2F5	Truss Type Truss	Qty 2	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:18

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ID:nL00?dkltVvKpN98we56Syg2Tr-XZJKgOAAzee2zxcS137UmlH7mDiX6wtOmkU0c9yg4KB



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	0.38	Vert(LL)	-0.36	15-16	>636	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.49	15-16	>463	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.08	12	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 SS(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) 12=1041/0-5-8, (min. 0-1-8), 20=1041/0-3-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3076/0, 3-4=-4216/0, 4-5=-4754/0, 5-6=-4754/0, 6-7=-4754/0, 7-8=-4216/0, 8-9=-4216/0, 9-10=-3076/0
 BOT CHORD 19-20=0/2313, 18-19=0/3797, 17-18=0/4608, 16-17=0/4608, 15-16=0/4754, 14-15=0/4608, 13-14=0/3797, 12-13=0/2313
 WEBS 10-12=-2481/0, 2-20=-2481/0, 10-13=0/994, 2-19=0/994, 9-13=-938/0, 3-19=-938/0, 9-14=0/546, 3-18=0/546, 7-14=-510/0, 4-18=-510/0, 7-15=-197/527, 4-16=-197/527

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x3 MT20 unless otherwise indicated.
 - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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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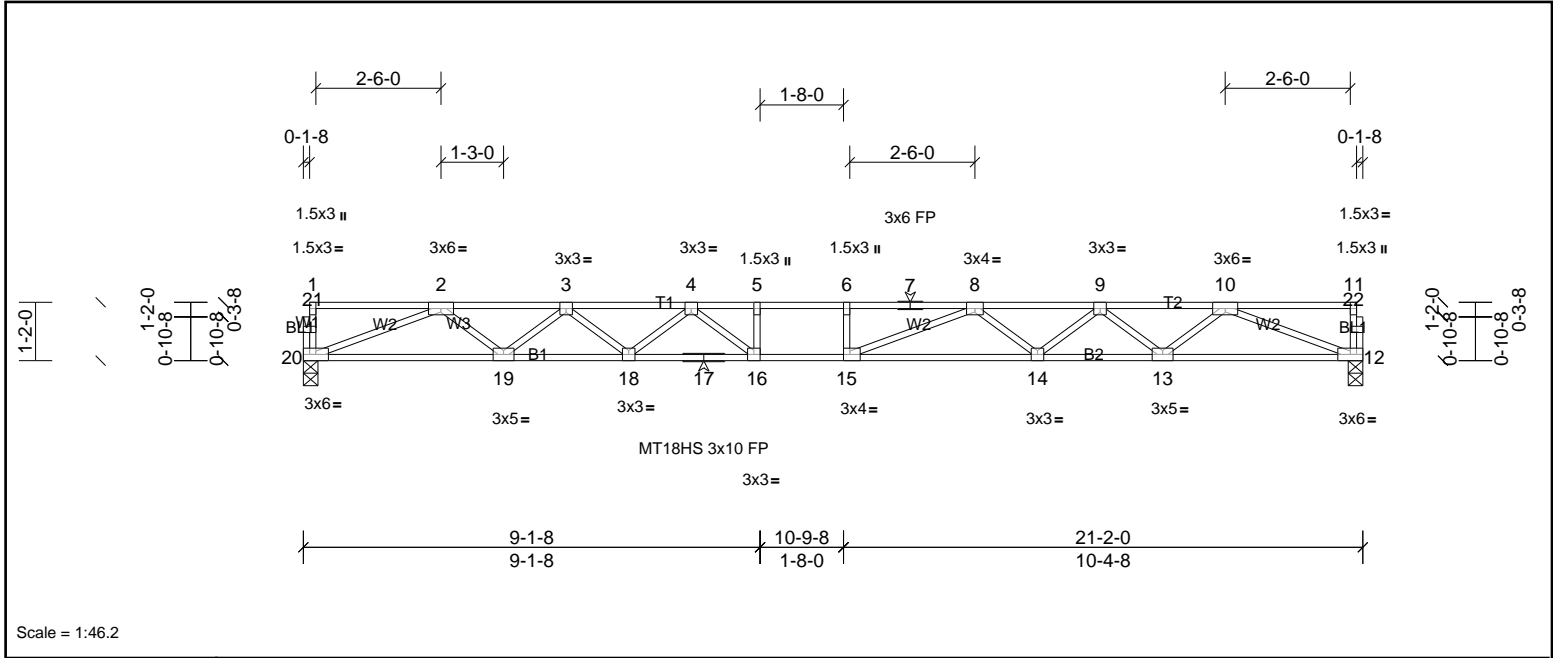
Job 72333199	Truss 2F6	Truss Type Truss	Qty 12	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:19

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Scale = 1:46.2

Plate Offsets (X, Y):	[15:0-1-8,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	0.47	Vert(LL)	-0.43	14-15	>580	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.60	14-15	>418	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.09	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 103 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP SS(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)	12=915/0-3-8, (min. 0-1-8), 20=915/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-3=-2766/0, 3-4=-3863/0, 4-5=-4576/0, 5-6=-4576/0, 6-7=-4576/0, 7-8=-4576/0, 8-9=-3892/0, 9-10=-2759/0
BOT CHORD		19-20=0/2055, 18-19=0/3438, 17-18=0/4286, 16-17=0/4286, 15-16=0/4576, 14-15=0/4302, 13-14=0/3438, 12-13=0/2055
WEBS		10-12=-2205/0, 2-20=-2206/0, 10-13=0/917, 2-19=0/925, 9-13=-883/0, 3-19=-875/0, 9-14=0/592, 3-18=0/553, 8-14=-533/0, 4-18=-552/0, 8-15=-136/673, 4-16=-77/672, 5-16=-284/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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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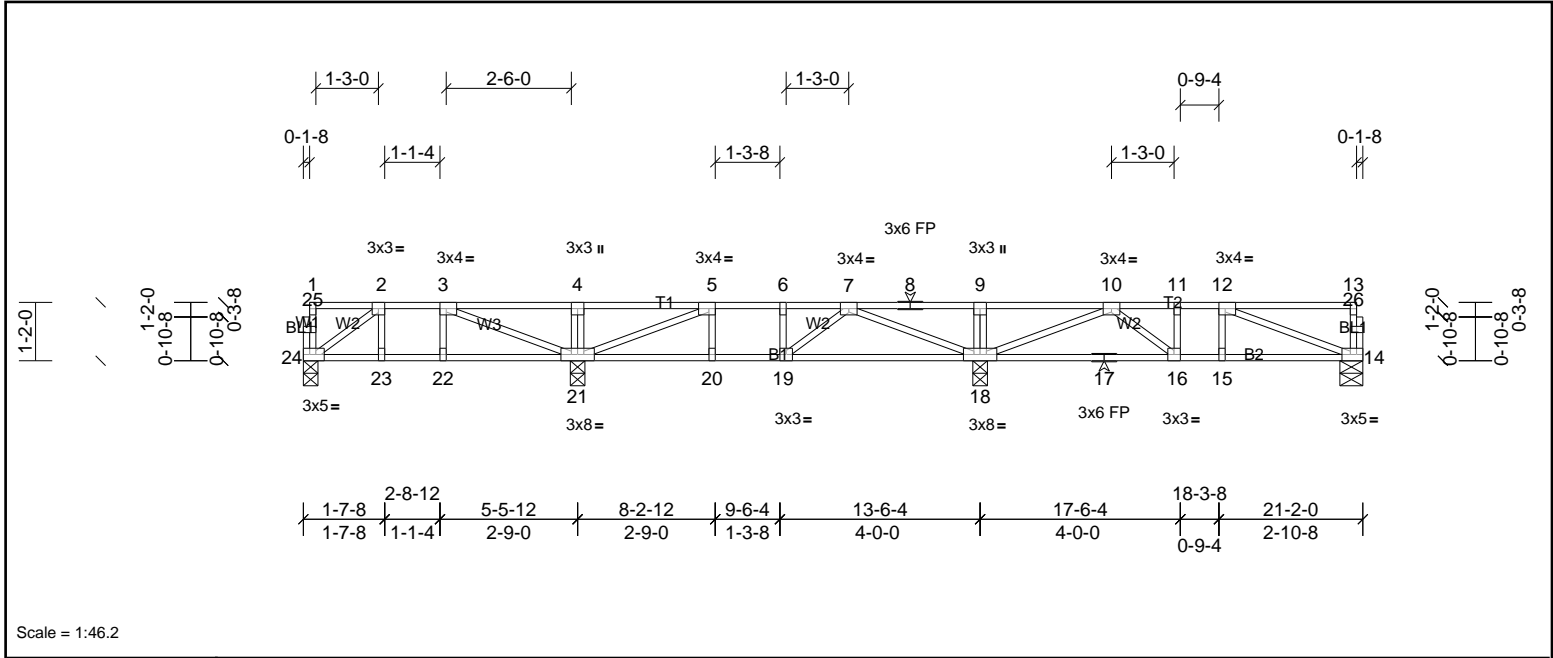
Job 72333199	Truss 2F7	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:19

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ID:FXamDzkwepdb1x_LidAKegy2Tq-?litkBDKymub4B3bmejlzqHud7xrUdY?ODZ9byg4KA



Scale = 1:46.2

Plate Offsets (X, Y): [3:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [24:0-2-0,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	0.42	Vert(LL)	-0.03	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.04	18-19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH								
											Weight: 108 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 0-3-8, except 14=0-5-8
 (lb) - Max Grav All reactions 250 (lb) or less at joint(s) 24 except 14=290 (LC 13), 18=774 (LC 11), 21=636 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=0/263, 4-5=0/263, 5-6=-435/60, 6-7=-435/60, 7-8=0/461, 8-9=0/461, 9-10=0/461, 10-11=-486/0, 11-12=-486/0
 BOT CHORD 20-21=-60/435, 19-20=-60/435, 18-19=-102/361, 17-18=-93/403, 16-17=-93/403, 15-16=0/486, 14-15=0/486
 WEBS 3-21=-450/0, 2-24=-269/0, 7-18=-683/0, 5-21=-612/0, 10-18=-735/0, 12-14=-516/0, 10-16=0/255

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
 - 5) CAUTION, Do not erect truss backwards.



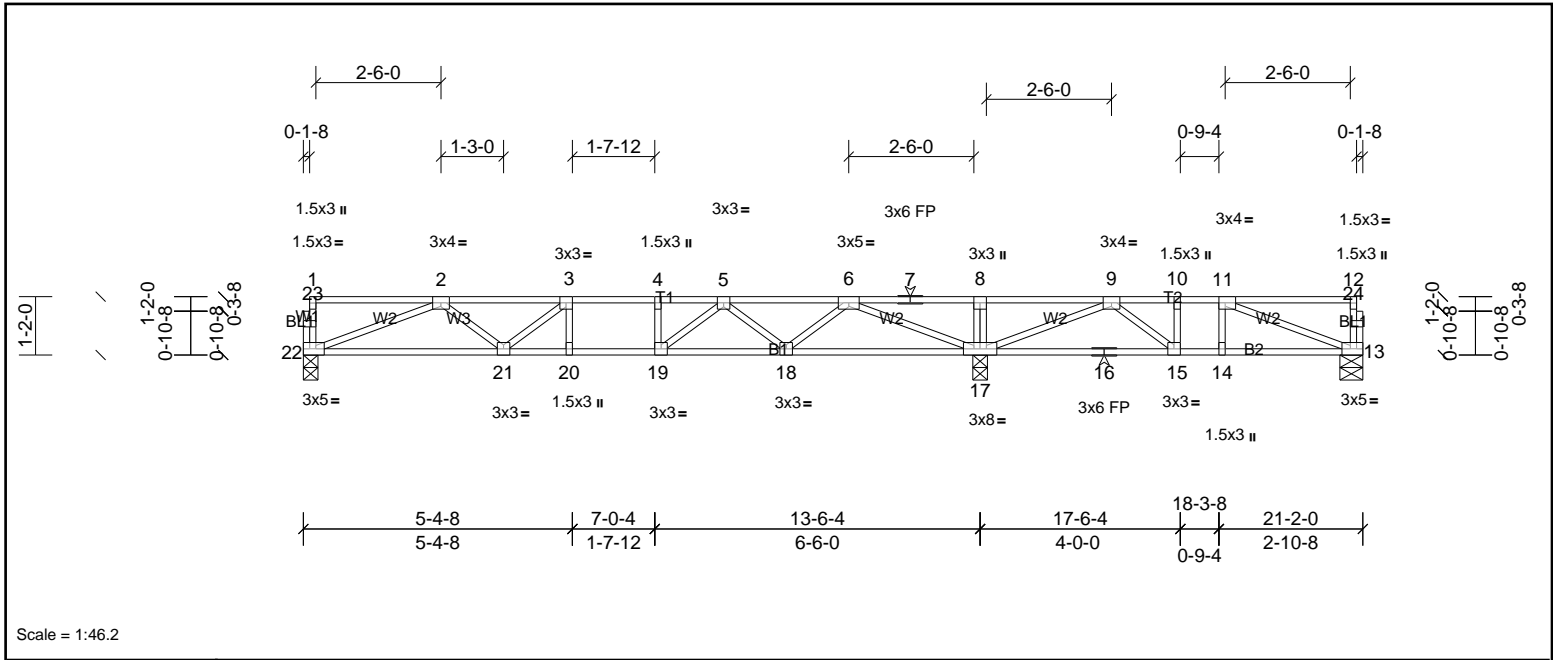
Job 72333199	Truss 2F8	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:20

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Scale = 1:46.2

Plate Offsets (X, Y): [11:0-1-8,Edge], [13:0-2-0,Edge], [22:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.10	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.14	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 105 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	(lb/size)
	13=235/0-5-8, (min. 0-1-8), 17=1420/0-3-8, (min. 0-1-8), 22=634/0-3-8, (min. 0-1-8)
	Max Uplift 13=-46 (LC 3)
	Max Grav 13=343 (LC 4), 17=1420 (LC 1), 22=645 (LC 10)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1605/0, 3-4=-1824/0, 4-5=-1824/0, 5-6=-1134/0, 6-7=0/1217, 7-8=0/1217, 8-9=0/1217, 9-10=-551/257, 10-11=-551/257
BOT CHORD	21-22=0/1332, 20-21=0/1824, 19-20=0/1824, 18-19=0/1586, 17-18=0/650, 16-17=-556/415, 15-16=-556/415, 14-15=-257/551, 13-14=-257/551
WEBS	8-17=-293/0, 6-17=-1824/0, 2-22=-1427/0, 6-18=0/655, 2-21=0/354, 5-18=-625/0, 3-21=-336/0, 5-19=0/484, 9-17=-1140/0, 11-13=-584/278, 9-15=0/525

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 13.
 - 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 backwards.



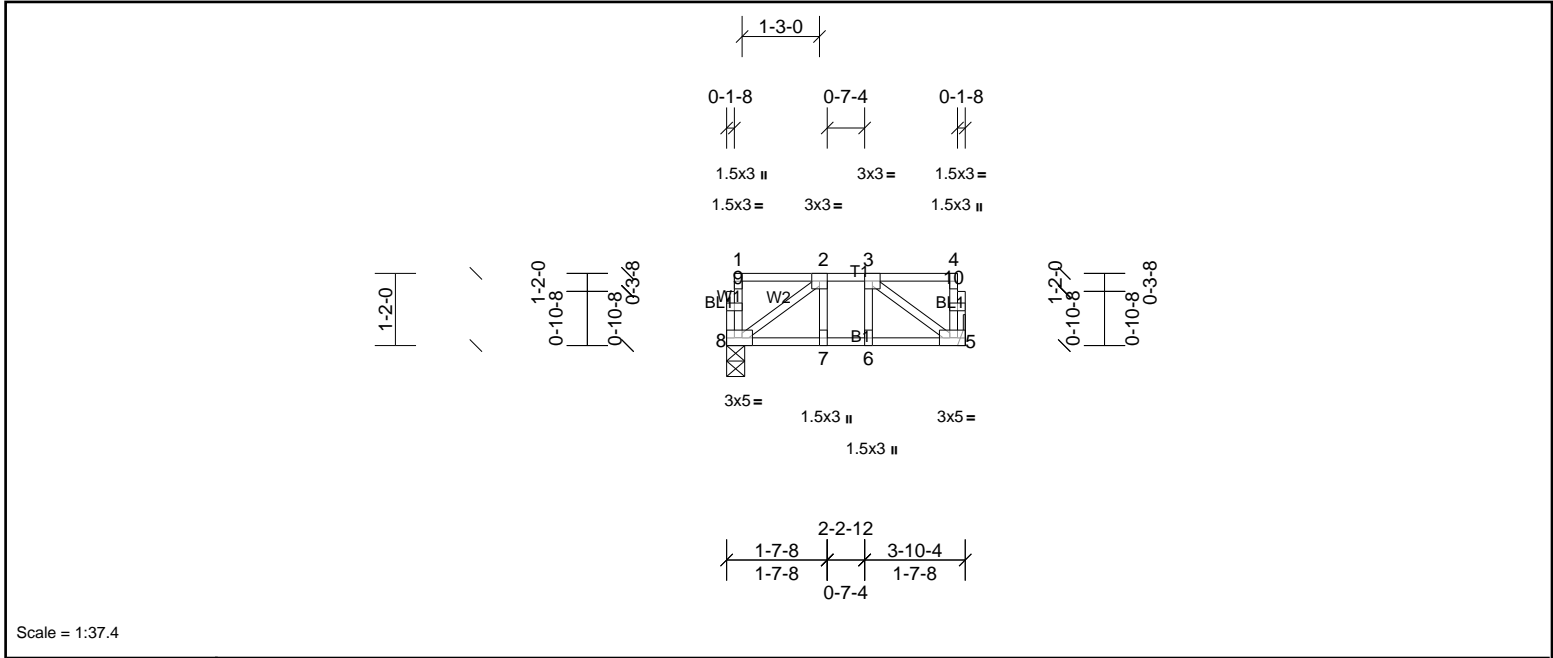
Job 72333199	Truss 2F9	Truss Type Truss	Qty 2	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Scale = 1:37.4

Plate Offsets (X, Y): [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	0.12	Vert(LL)	0.00	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 23 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 3-10-4 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=192/ Mechanical, (min. 0-1-8), 8=192/0-3-8, (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.



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.



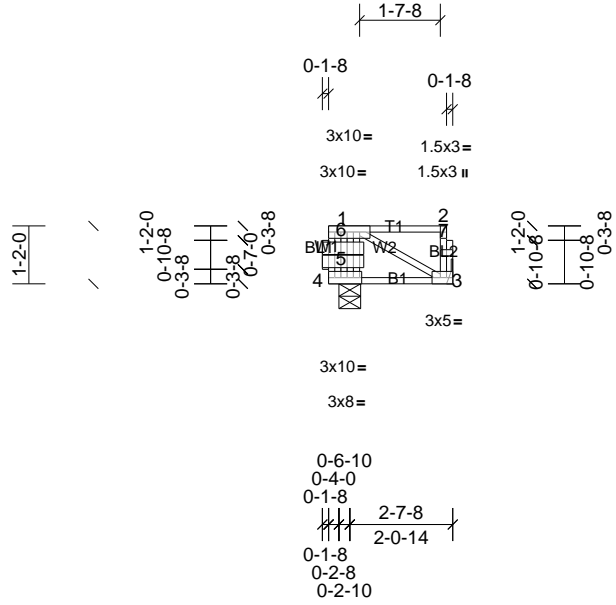
Job 72333199	Truss 2F10	Truss Type Truss	Qty 8	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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Scale = 1:46.6

Plate Offsets (X, Y): [1:0-2-8,Edge], [3:0-2-0,Edge], [5:0-1-8,0-1-8], [6:0-1-8,0-1-8]

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-7-8 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 (lb/size) 3=174/ Mechanical, (min. 0-1-8), 4=549/0-5-4, (min. 0-1-8)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-498/0, 5-6=-538/0, 1-6=-553/0

- NOTES**
- 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 backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 3-4=-10, 1-2=-100
 Concentrated Loads (lb)
 Vert: 1=-500



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.



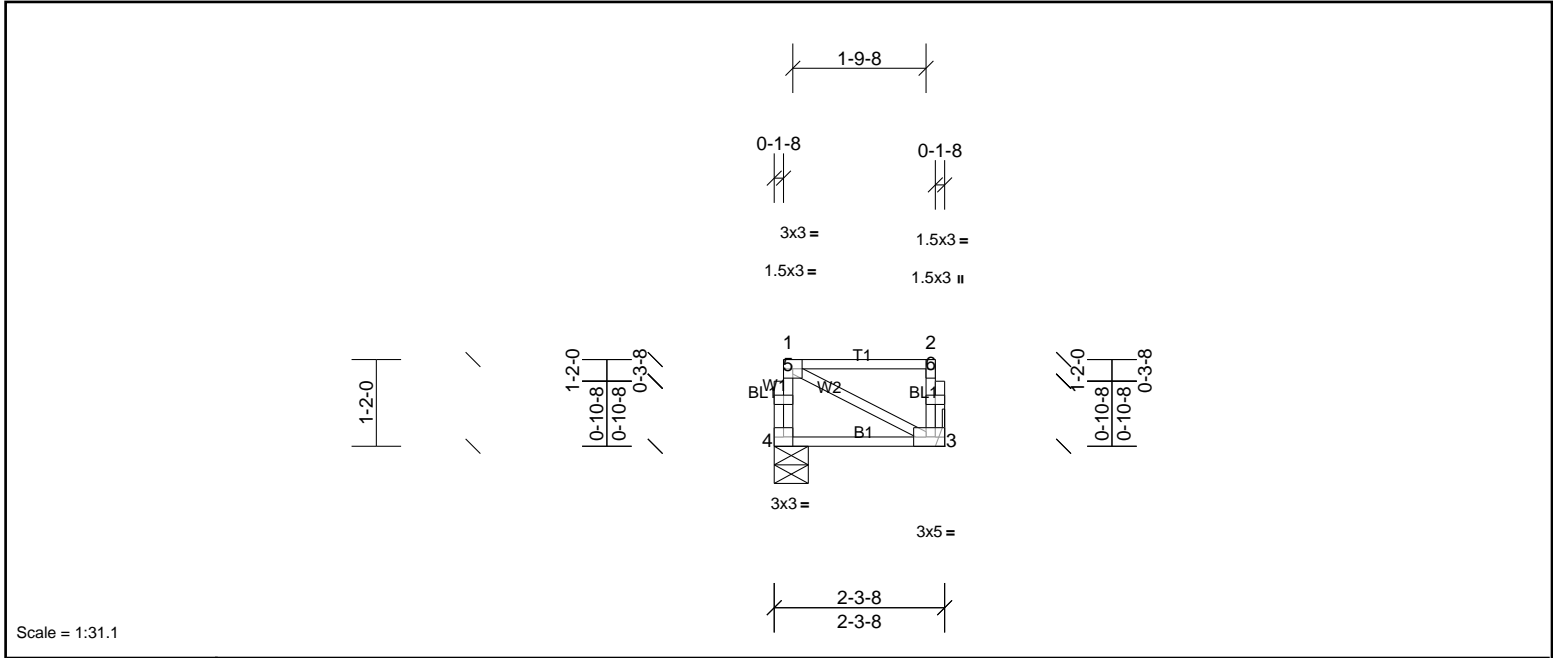
Job 72333199	Truss 2F11	Truss Type Truss	Qty 3	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:20

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Scale = 1:31.1

Plate Offsets (X, Y): [3:0-2-0,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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%F, 11%E

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-3-8 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) 3=106/ Mechanical, (min. 0-1-8), 4=106/0-5-8, (min. 0-1-8)

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

- NOTES**
- 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 72333199	Truss 2FG1	Truss Type Truss	Qty 1	Ply 1	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF Job Reference (optional)
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UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Thu Sep 07 09:28:21

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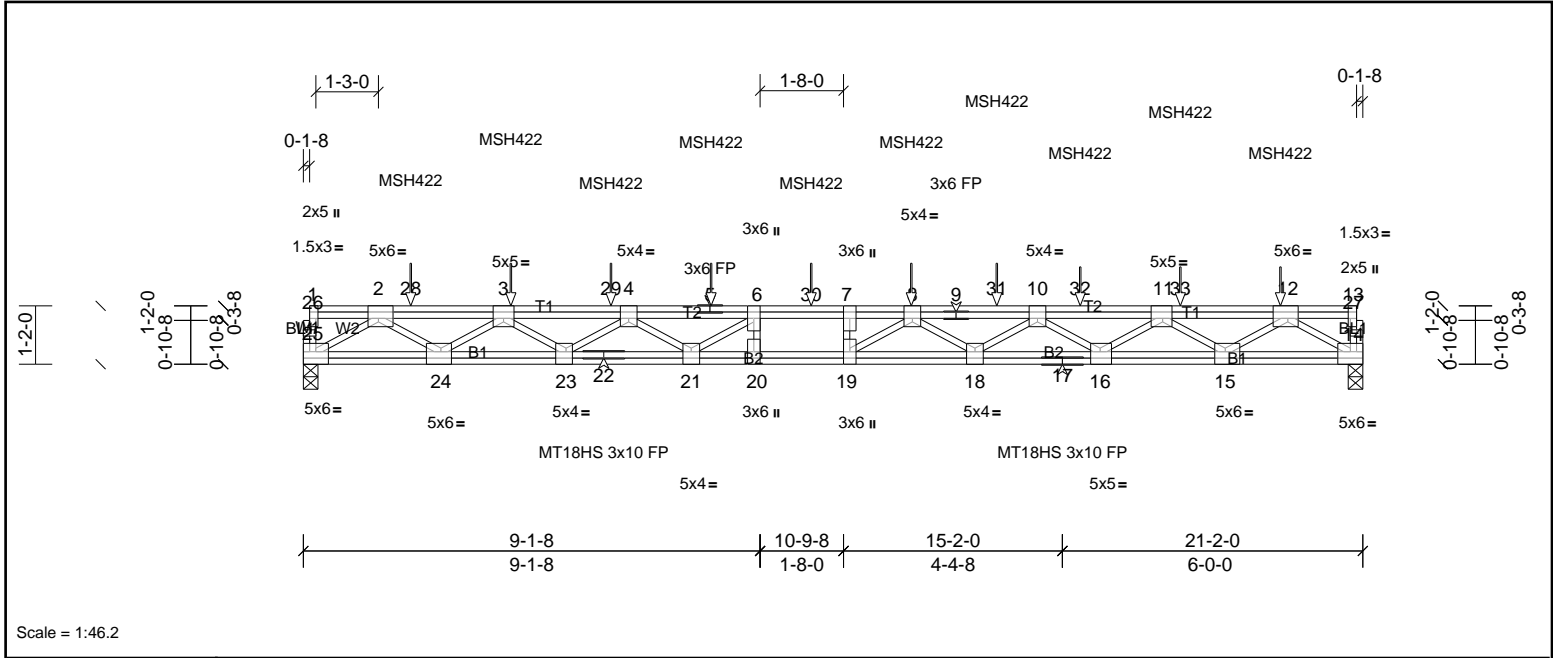


Plate Offsets (X, Y):	[2:0-2-8,Edge], [3:0-2-8,Edge], [4:0-2-0,Edge], [7:0-3-0,Edge], [8:0-2-0,Edge], [10:0-2-0,Edge], [11:0-2-4,Edge], [12:0-2-8,Edge], [13:Edge,0-1-8], [14:Edge,0-3-0], [15:0-2-8,Edge], [16:0-2-4,Edge], [18:0-2-0,Edge], [21:0-2-0,Edge], [23:0-1-8,Edge], [24:0-2-8,Edge], [25:0-3-0,Edge]
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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	Vert(LL)	-0.38	18-19	>655	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.52	18-19	>476	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH						Weight: 163 lb	FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP SS(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)	14=1146/0-3-8, (min. 0-1-8), 25=1247/0-3-8, (min. 0-1-8)
	Max Grav	14=1320 (LC 4), 25=1373 (LC 3)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-28=-3362/0, 3-28=-3362/0, 3-29=-5686/0, 4-29=-5686/0, 4-5=-6953/0, 5-6=-6953/0, 6-30=-7439/0, 7-30=-7439/0, 7-8=-7439/0, 8-9=-7119/0, 9-31=-7119/0, 10-31=-7119/0, 10-32=-5606/0, 11-32=-5606/0, 11-33=-3221/0, 12-33=-3221/0
BOT CHORD	24-25=0/2063, 23-24=0/4781, 22-23=0/6581, 21-22=0/6581, 20-21=0/7439, 19-20=0/7439, 18-19=0/7563, 17-18=0/6603, 16-17=0/6603, 15-16=0/4603, 14-15=0/1947
WEBS	12-14=-2270/0, 2-25=-2406/0, 12-15=0/1583, 2-24=0/1615, 11-15=-1714/0, 3-24=-1759/0, 11-16=0/1243, 3-23=0/1155, 10-16=-1237/0, 4-23=-1121/0, 10-18=0/771, 4-21=0/805, 8-18=-778/0, 6-21=-930/0, 8-19=-151/469

- 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.
 - Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 19-6-4 to connect truss(es) to back face of top chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)	Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00	
Uniform Loads (lb/ft)	
Vert: 14-25=-7, 1-13=-67	
Concentrated Loads (lb)	
Vert: 5=-107, 12=-39, 3=-107, 8=-107, 28=-107, 29=-107, 30=-107, 31=-107, 32=-39, 33=-39	



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.

