Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR	66 LLP
72513633	F200	Truss	8	1	Job Reference (optional)	

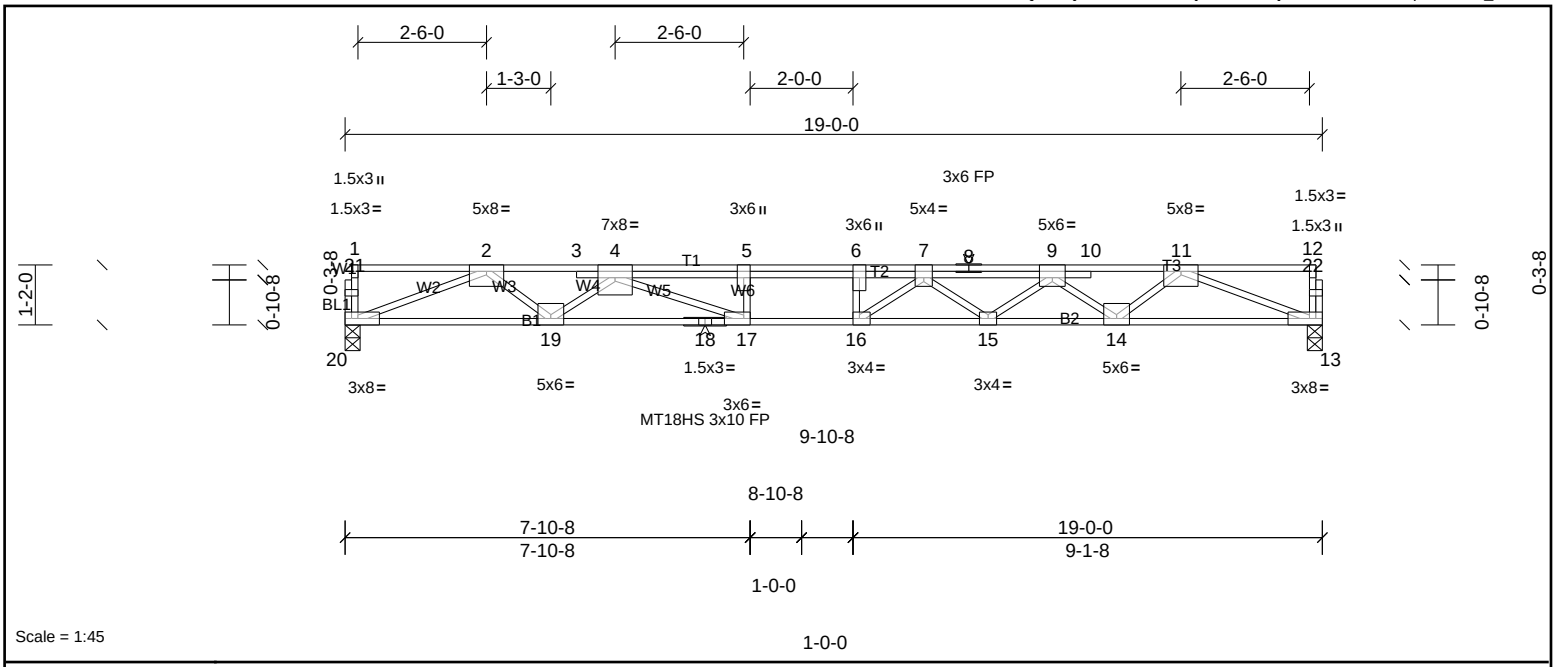


Plate Offsets (X, Y): [6:0-3-0,Edge], [7:0-2-0,Edge], [9:0-3-0,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

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	0.47	Vert(LL)	-0.31	16	>737	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.60	16	>377	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 106 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) 13=1433/0-3-8, (min. 0-1-8), 20=1438/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-4303/0, 3-4=-4306/0, 4-5=-6923/0, 5-6=-6923/0, 6-7=-6923/0, 7-8=-6116/0, 8-9=-6116/0, 9-10=-4286/0, 10-11=-4283/0
BOT CHORD	19-20=0/3188, 18-19=0/5441, 17-18=0/5441, 16-17=0/6923, 15-16=0/6769, 14-15=0/5424, 13-14=0/3172
WEBS	5-17=-571/0, 6-16=-379/117, 2-20=-3419/0, 2-19=0/1451, 4-19=-1446/0, 4-17=0/1787, 11-13=-3402/0, 11-14=0/1446, 9-14=-1450/0, 9-15=0/879, 7-15=-829/0, 7-16=-237/706

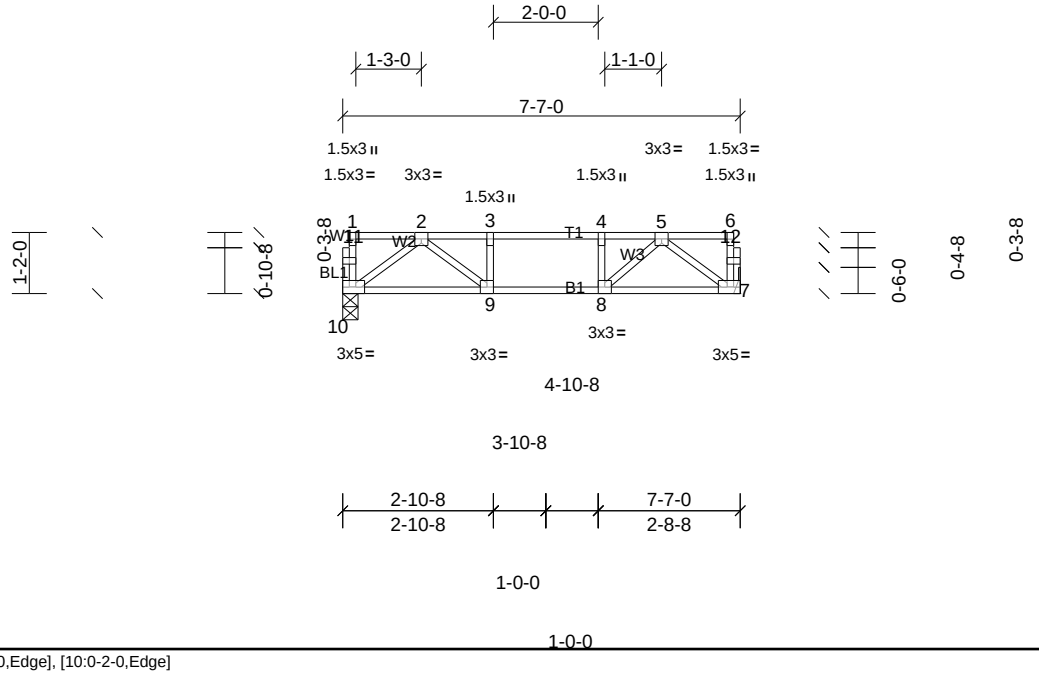
NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 18 = 11%
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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 13-20=-10, 1-5=-140, 5-6=-176, 6-12=-140

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F202	Truss	1	1	Job Reference (optional)



Scale = 1:44.1

Plate Offsets (X, Y): [7:0-2-0,Edge], [10:0-2-0,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	0.33	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 39 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 (lb/size) 7=397/ Mechanical, 10=397/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-680/0, 3-4=-680/0, 4-5=-680/0
BOT CHORD	9-10=0/437, 8-9=0/680, 7-8=0/437
WEBS	2-10=-544/0, 2-9=0/355, 5-7=-544/0, 5-8=0/375

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	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F203	Truss	6	1	Job Reference (optional)

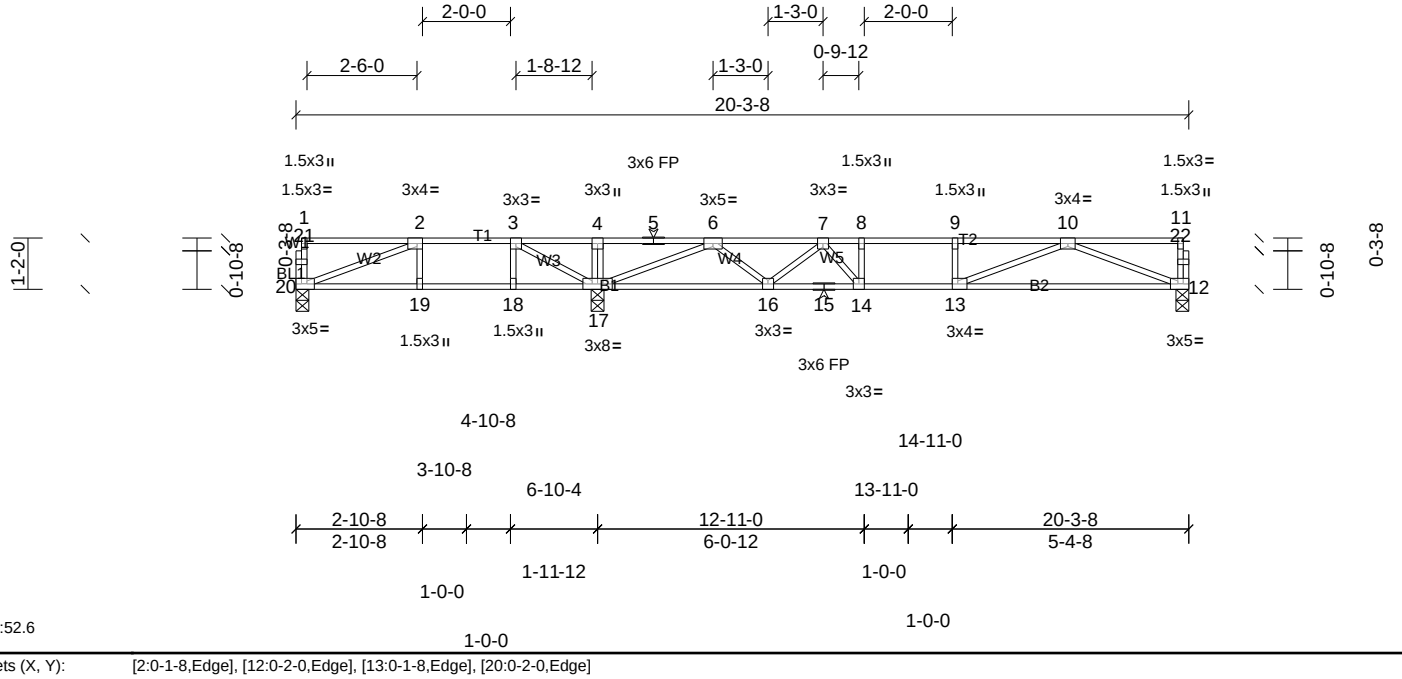


Plate Offsets (X, Y): [2:0-1-8,Edge], [12:0-2-0,Edge], [13:0-1-8,Edge], [20:0-2-0,Edge]

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	0.66	Vert(LL)	-0.14	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.23	12-13	>694	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 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 6-0-0 oc bracing.

REACTIONS (lb/size) 12=696/0-3-8, (min. 0-1-8), 17=1187/0-3-8, (min. 0-1-8), 20=309/0-3-8, (min. 0-1-8)
Max Grav 12=705 (LC 7), 17=1192 (LC 8), 20=366 (LC 3)

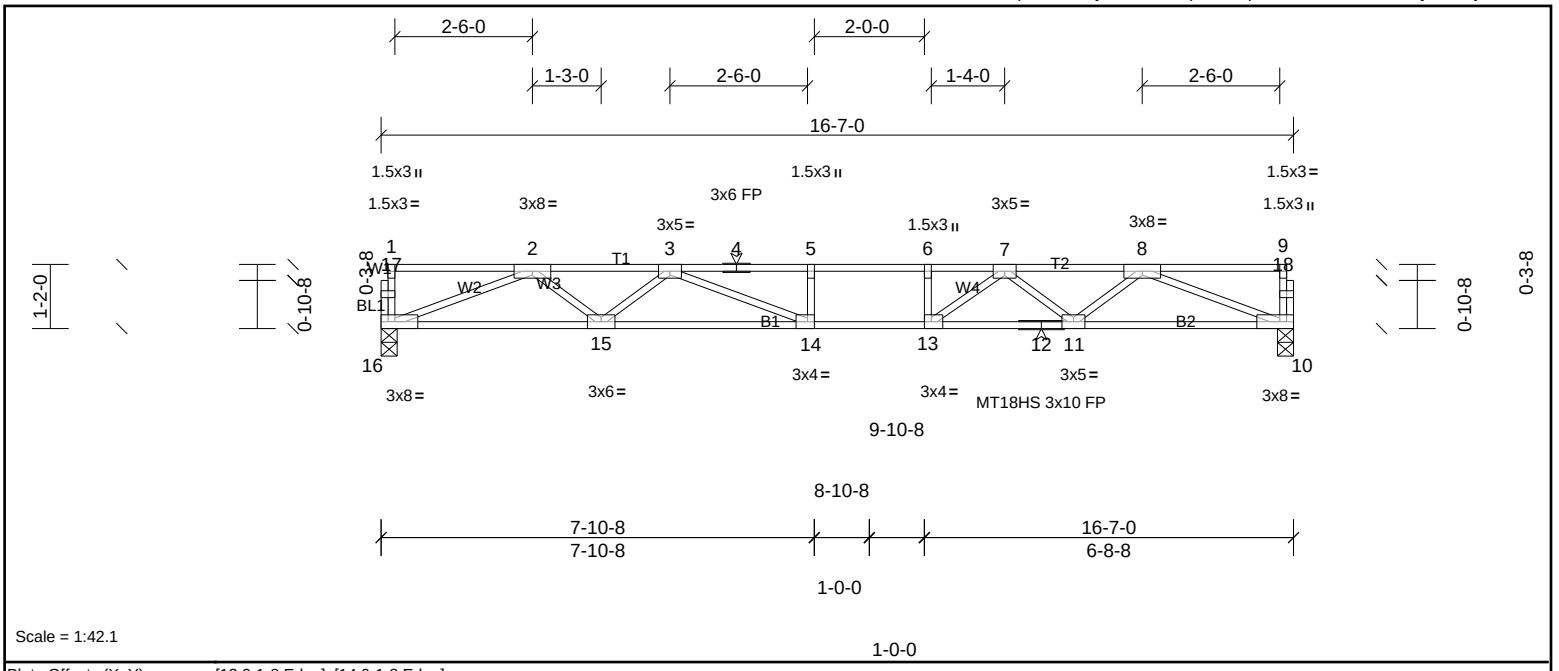
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-588/90, 3-4=-31/517, 4-5=-28/522, 5-6=-28/522, 6-7=-1715/0, 7-8=-2176/0, 8-9=-2176/0, 9-10=-2176/0
BOT CHORD	19-20=-90/588, 18-19=-90/588, 17-18=-90/588, 16-17=0/1314, 15-16=0/2070, 14-15=0/2070, 13-14=0/2176, 12-13=0/1467
WEBS	8-14=-270/0, 2-20=-622/99, 3-17=-833/0, 10-12=-1572/0, 10-13=0/784, 6-17=-1697/0, 6-16=0/559, 7-16=-515/0, 7-14=-46/430

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.
4) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F204	Truss	1	1	Job Reference (optional)



Scale = 1:42.1

Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,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	0.79	Vert(LL)	-0.26	14-15	>763	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.47	14-15	>414	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.07	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 80 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 5-7-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

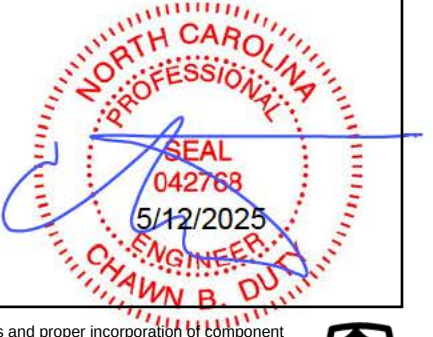
REACTIONS (lb/size) 10=1216/0-3-8, (min. 0-1-8), 16=1216/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-3459/0, 3-4=-4734/0, 4-5=-4734/0, 5-6=-4734/0, 6-7=-4734/0, 7-8=-3415/0
BOT CHORD	15-16=0/2656, 14-15=0/4190, 13-14=0/4734, 12-13=0/4163, 11-12=0/4163, 10-11=0/2654
WEBS	5-14=-277/0, 6-13=-424/0, 2-16=-2848/0, 2-15=0/1045, 3-15=-952/0, 3-14=0/890, 8-10=-2846/0, 8-11=0/990, 7-11=-974/0, 7-13=0/964

NOTES

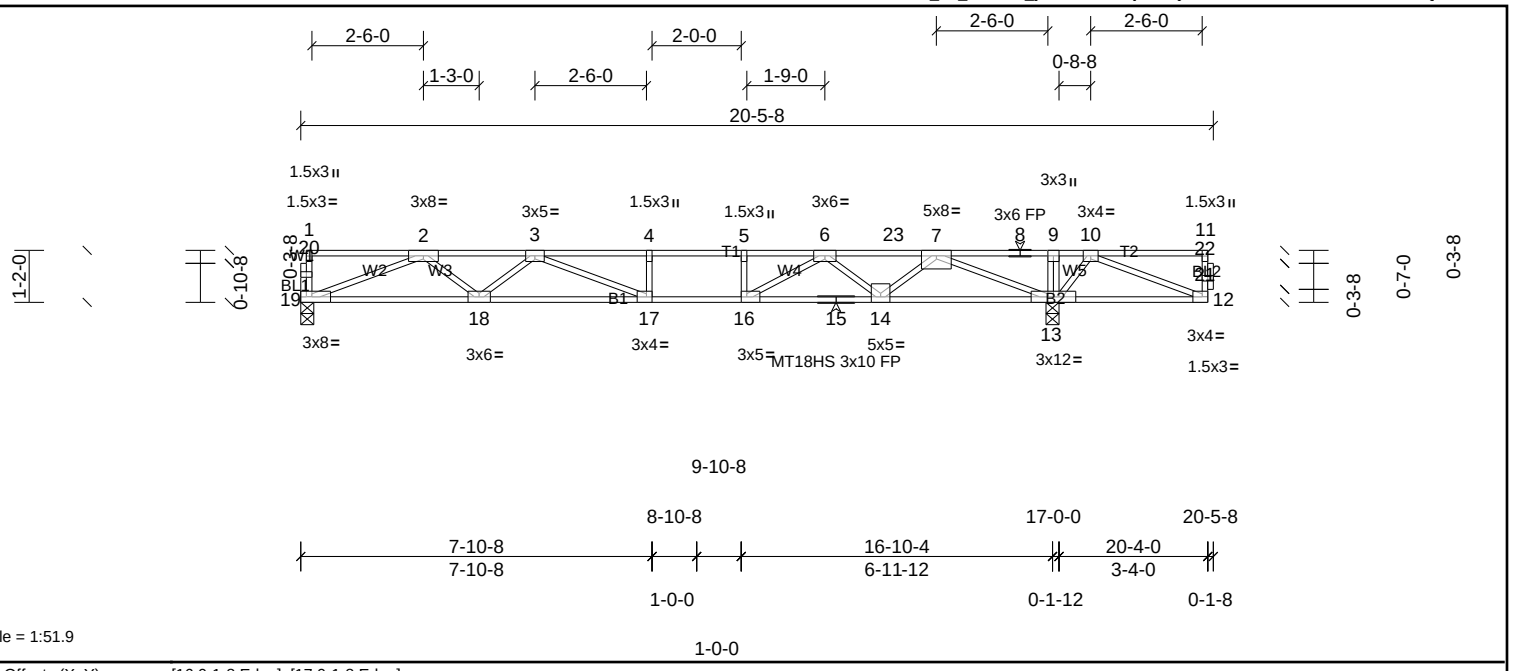
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, 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.



Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F205	Truss	10	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:0 — Page: 1

ID:z4viZKaDoV0_zU_D54TiW_yE?RI-oHXY1jom?ny6PZe7wsZdOlGeFNz9TOmwSFTQNJzHDLJ



Scale = 1:51.9

Plate Offsets (X, Y): [16:0-1-8,Edge], [17:0-1-8,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	0.78	Vert(LL)	-0.27	17-18	>741	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.49	17-18	>405	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 100 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 5-6-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS (lb/size) 13=2074/0-3-8, (min. 0-1-8), 19=1191/0-3-8, (min. 0-1-8)
Max Grav 13=2074 (LC 1), 19=1219 (LC 3)

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

TOP CHORD	2-3=-3470/0, 3-4=-4759/0, 4-5=-4759/0, 5-6=-4759/0, 6-23=-3174/0, 7-23=-3174/0, 7-8=0/998, 8-9=0/998, 9-10=0/992
BOT CHORD	18-19=0/2664, 17-18=0/4205, 16-17=0/4759, 15-16=0/4003, 14-15=0/4003, 13-14=0/2339, 12-13=-477/0
WEBS	4-17=-278/0, 5-16=-435/0, 9-13=-324/0, 2-19=-2856/0, 2-18=0/1049, 3-18=-957/0, 3-17=0/895, 7-13=-3141/0, 7-14=0/1126, 6-14=-1129/0, 6-16=0/1224, 10-12=0/515, 10-13=-797/0

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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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.

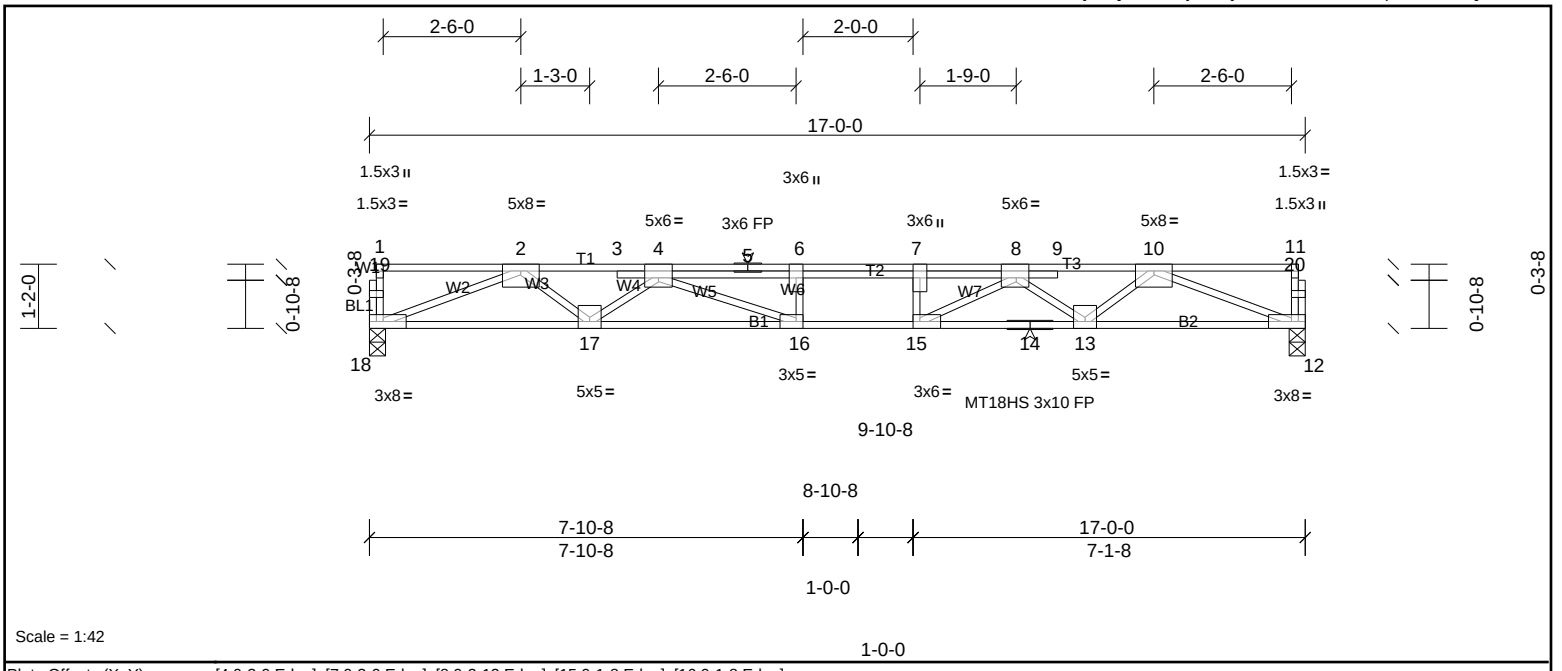
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 12-19=-10, 1-23=-140, 11-23=-176

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F206	Truss	7	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:0 — Page: 1

ID:w?5J7e0oKZYtI0k8Ce68zayE?Qk-oHXY1jom?ny6PZe7wsZdOlGf8NzpTOTwSFTQNJzHDLJ



Scale = 1:42

Plate Offsets (X, Y): [4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-2-12,Edge], [15:0-1-8,Edge], [16:0-1-8,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	0.72	Vert(LL)	-0.22	16-17	>934	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.46	16-17	>435	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.09	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 93 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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 5-8-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 12=1330/0-3-8, (min. 0-1-8), 18=1360/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-4028/0, 3-4=-4036/0, 4-5=-5943/0, 5-6=-5943/0, 6-7=-5943/0, 7-8=-5943/0, 8-9=-3887/0, 9-10=-3884/0
BOT CHORD	17-18=0/2993, 16-17=0/5068, 15-16=0/5943, 14-15=0/4871, 13-14=0/4871, 12-13=0/2923
WEBS	6-16=-395/0, 7-15=-621/0, 2-18=-3210/0, 2-17=0/1347, 4-17=-1321/0, 4-16=0/1206, 10-12=-3135/0, 10-13=0/1251, 8-13=-1254/0, 8-15=0/1464

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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 12-18=-10, 1-3=-140, 3-7=-176, 7-11=-140

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F207	Truss	3	1	Job Reference (optional)

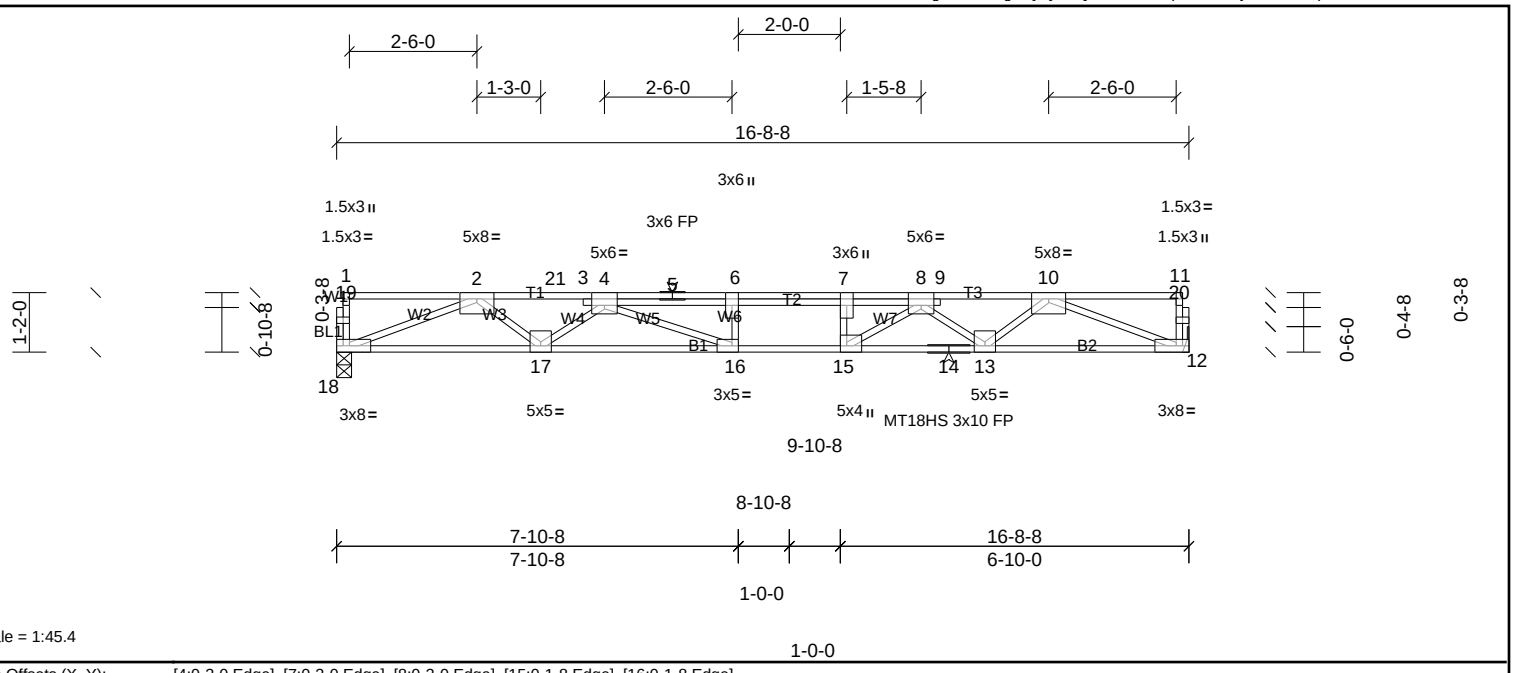


Plate Offsets (X, Y): [4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-3-0,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge]

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	0.88	Vert(LL)	-0.21	16-17	>946	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.45	16-17	>437	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 90 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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 4-11-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 12=1312/ Mechanical, 18=1342/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-21=-3947/0, 3-21=-3947/0, 3-4=-3940/0, 4-5=-5760/0, 5-6=-5760/0, 6-7=-5760/0, 7-8=-5760/0, 8-9=-3778/0, 9-10=-3800/0
BOT CHORD	17-18=0/2953, 16-17=0/4941, 15-16=0/5760, 14-15=0/4748, 13-14=0/4748, 12-13=0/2882
WEBS	6-16=-374/0, 7-15=-697/0, 2-18=-3167/0, 2-17=0/1293, 4-17=-1263/0, 4-16=0/1134, 10-12=-3091/0, 10-13=0/1195, 8-13=-1204/0, 8-15=0/1432

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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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.

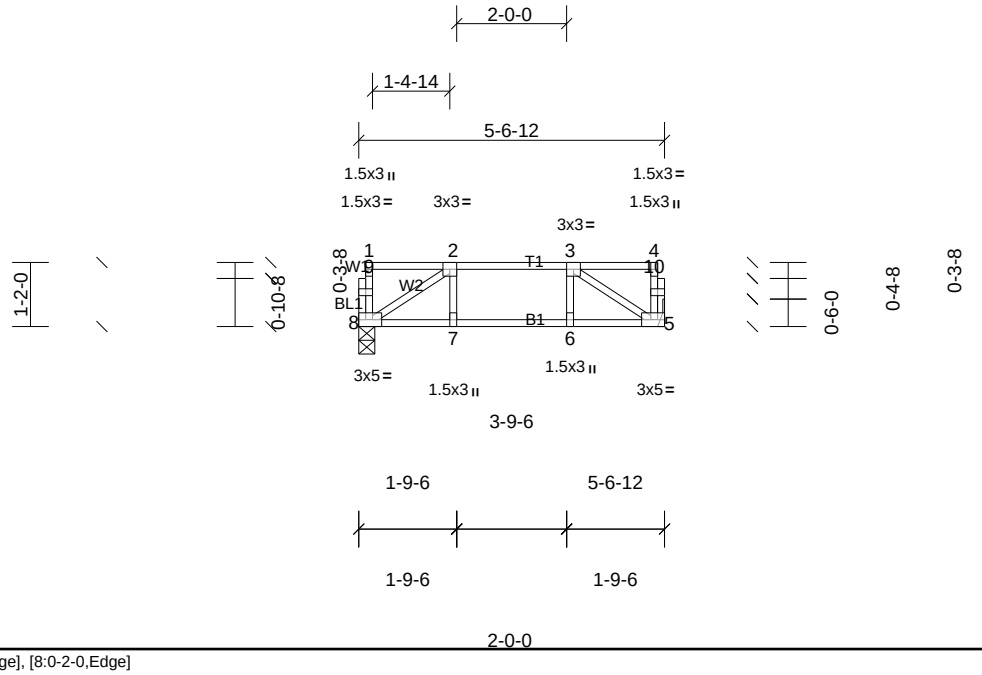
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 12-18=-10, 1-21=-140, 7-21=-176, 7-11=-140

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F209	Truss	3	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:07 — Page: 1

ID:ZMe9cwIihau5aoI099PT5ozFLJt-GU5wE3pOm54z0jDKUZ5txzpx3nStC1r3hvCzwlzHDLI



Scale = 1:42.1

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

Loading	(psf)	Spacing	2-1-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 29 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	2-0-0 oc purlins: 1-4 (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=298/ Mechanical, 8=298/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-361/0
BOT CHORD	7-8=0/361, 6-7=0/361, 5-6=0/361
WEBS	3-5=-427/0, 2-8=-427/0

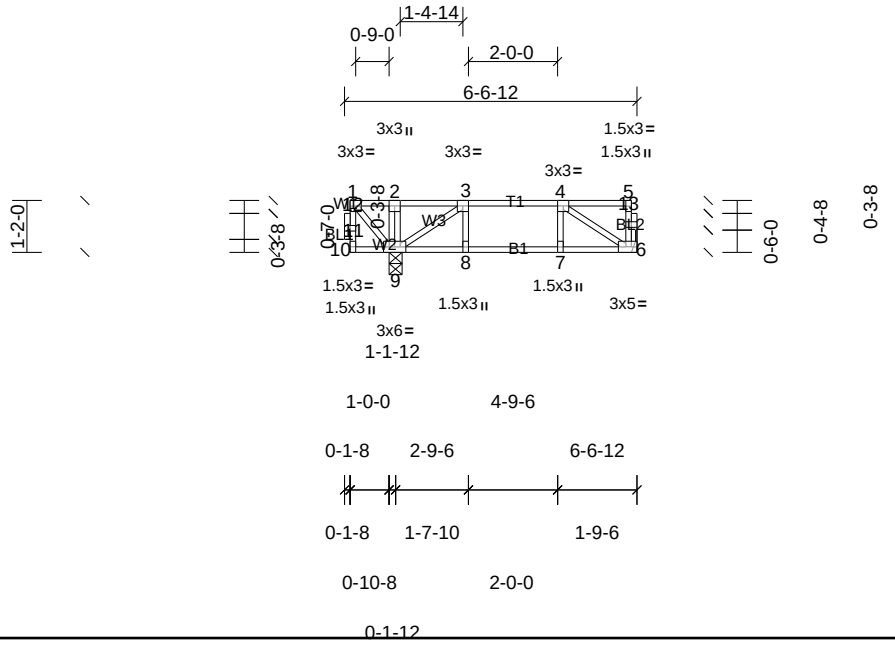
NOTES

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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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.

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	F210	Truss	7	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:08 — Page: 1

ID:d7qqpFRIbARo46IiYwX7qPzFLDE-kgfISPq0XOCqetoW1Hc6TAM0EBk2xTDCwZyXSCzHDLH



Scale = 1:51.9

Plate Offsets (X, Y): [6:0-2-0,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	0.68	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 36 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10.

REACTIONS (lb/size) 6=204/ Mechanical, 9=912/0-3-8, (min. 0-1-8)
Max Uplift 6=-3 (LC 3)
Max Grav 6=211 (LC 4), 9=912 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/429, 2-3=0/430
WEBS 1-9=-636/0, 3-9=-658/0

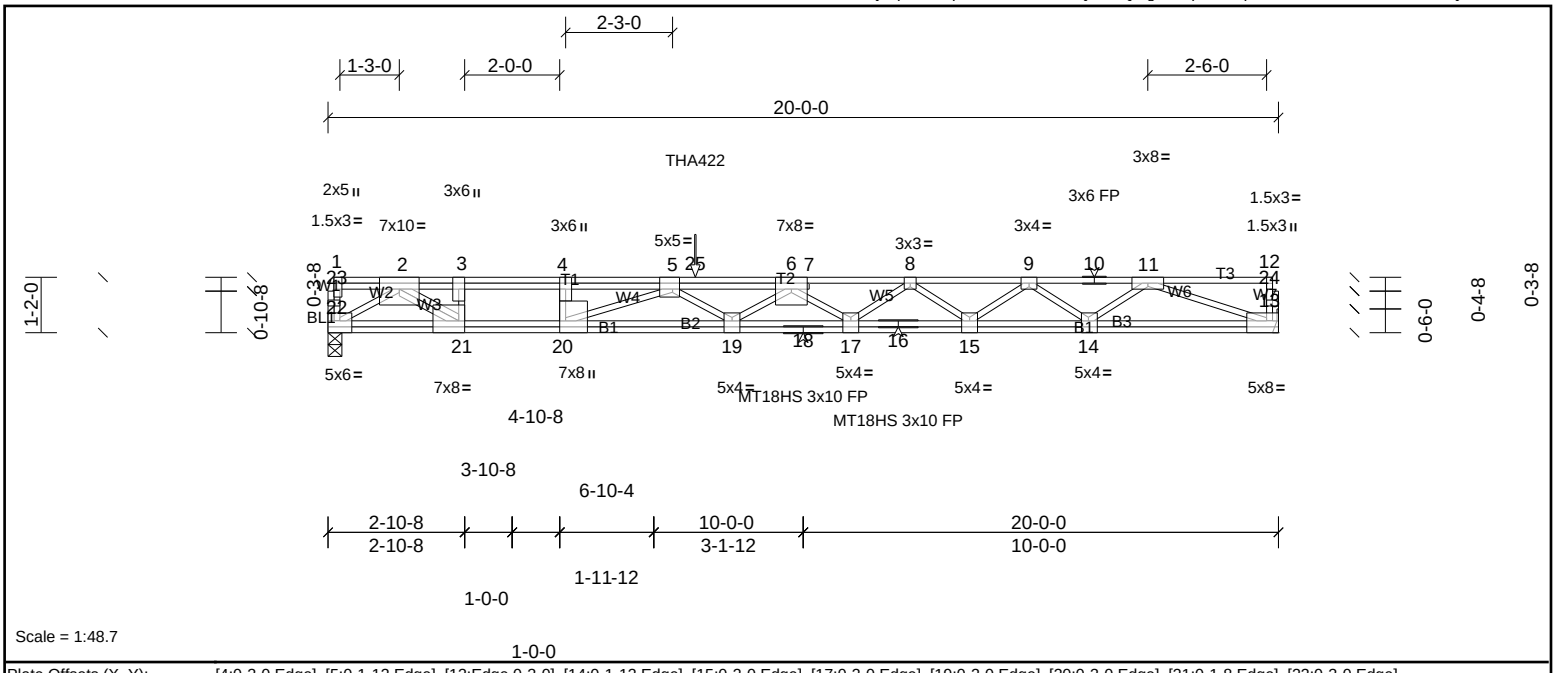
NOTES

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 3 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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
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.
7) 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=-10, 1-2=-180, 2-5=-100
Concentrated Loads (lb)
Vert: 1=-360

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG1	Truss	1	1	Job Reference (optional)



Scale = 1:48.7

Plate Offsets (X, Y): [4:0-3-0,Edge], [5:0-1-12,Edge], [13:Edge,0-3-0], [14:0-1-12,Edge], [15:0-2-0,Edge], [17:0-2-0,Edge], [19:0-2-0,Edge], [20:0-3-0,Edge], [21:0-1-8,Edge], [22:0-3-0,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	0.88	Vert(LL)	-0.44	19-20	>530	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.61	19-20	>386	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.04	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 141 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 4-5-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 13=1163/ Mechanical, 22=1213/0-3-8, (min. 0-1-8)
Max Grav 13=1179 (LC 4), 22=1213 (LC 1)

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

TOP CHORD	2-3=-4059/0, 3-4=-4059/0, 4-5=-4059/0, 5-25=-6740/0, 6-25=-6740/0, 6-7=-6111/0, 7-8=-6165/0, 8-9=-5275/0, 9-10=-3700/0, 10-11=-3700/0
BOT CHORD	21-22=0/1861, 20-21=0/4059, 19-20=0/6618, 18-19=0/6585, 17-18=0/6585, 16-17=0/5835, 15-16=0/5835, 14-15=0/4654, 13-14=0/2845
WEBS	3-21=-1260/0, 4-20=0/586, 2-22=-2150/0, 11-13=-2997/0, 11-14=0/1089, 9-14=-1213/0, 9-15=0/788, 8-15=-711/0, 8-17=0/420, 6-17=-520/0, 5-20=-2794/0, 2-21=0/2865

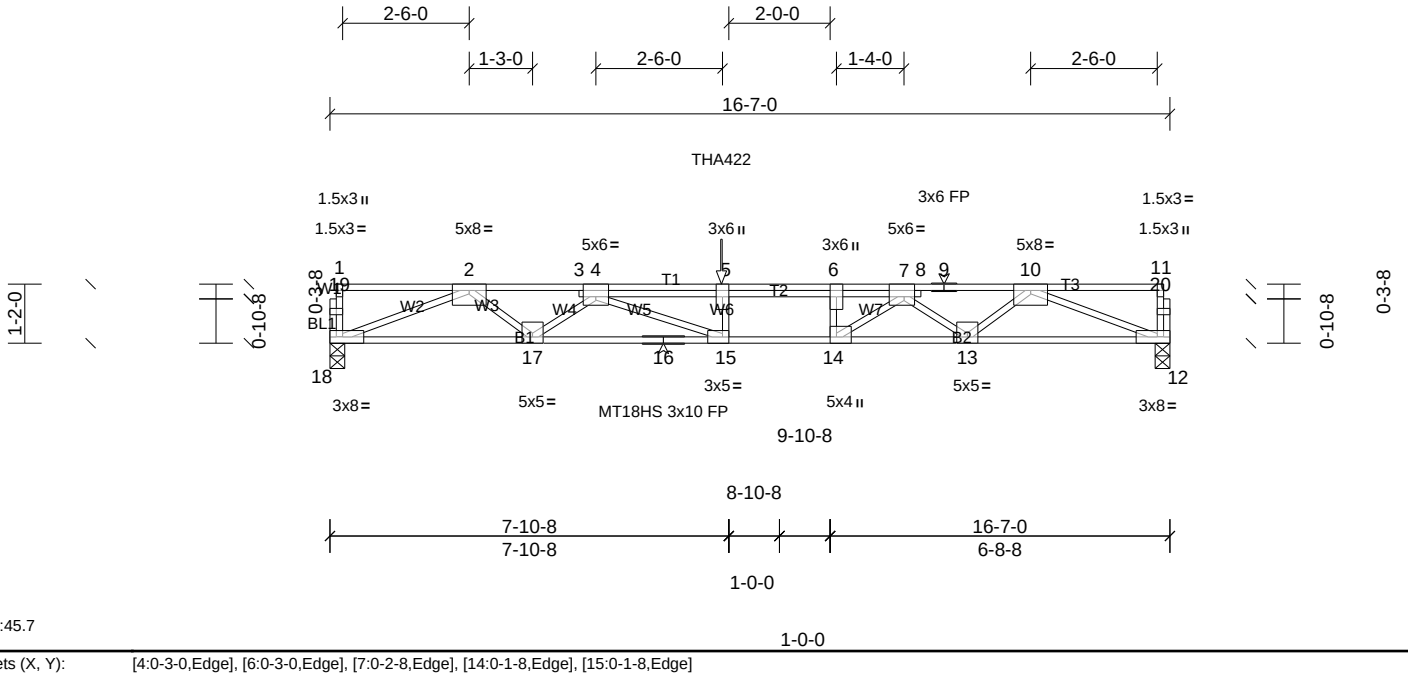
NOTES

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.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-8-12 from the left end to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 13-22=-10, 1-12=-100
   Concentrated Loads (lb)
   Vert: 25=-216 (F)

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG2	Truss	1	1	Job Reference (optional)



Scale = 1:45.7

Plate Offsets (X, Y): [4:0-3-0,Edge], [6:0-3-0,Edge], [7:0-2-8,Edge], [14:0-1-8,Edge], [15:0-1-8,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	0.91	Vert(LL)	-0.26	15-17	>764	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.45	15-17	>435	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 89 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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 4-10-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 12=1299/0-3-8, (min. 0-1-8), 18=1310/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-3825/0, 3-4=-3798/0, 4-5=-5674/0, 5-6=-5674/0, 6-7=-5674/0, 7-8=-3718/0, 8-9=-3749/0, 9-10=-3749/0
BOT CHORD	17-18=0/2873, 16-17=0/4772, 15-16=0/4772, 14-15=0/5674, 13-14=0/4681, 12-13=0/2851
WEBS	5-15=-353/0, 6-14=-803/0, 10-12=-3058/0, 10-13=0/1169, 7-13=-1184/0, 7-14=0/1564, 2-18=-3081/0, 2-17=0/1239, 4-17=-1203/0, 4-15=0/1071

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.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-8-12 from the left end to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

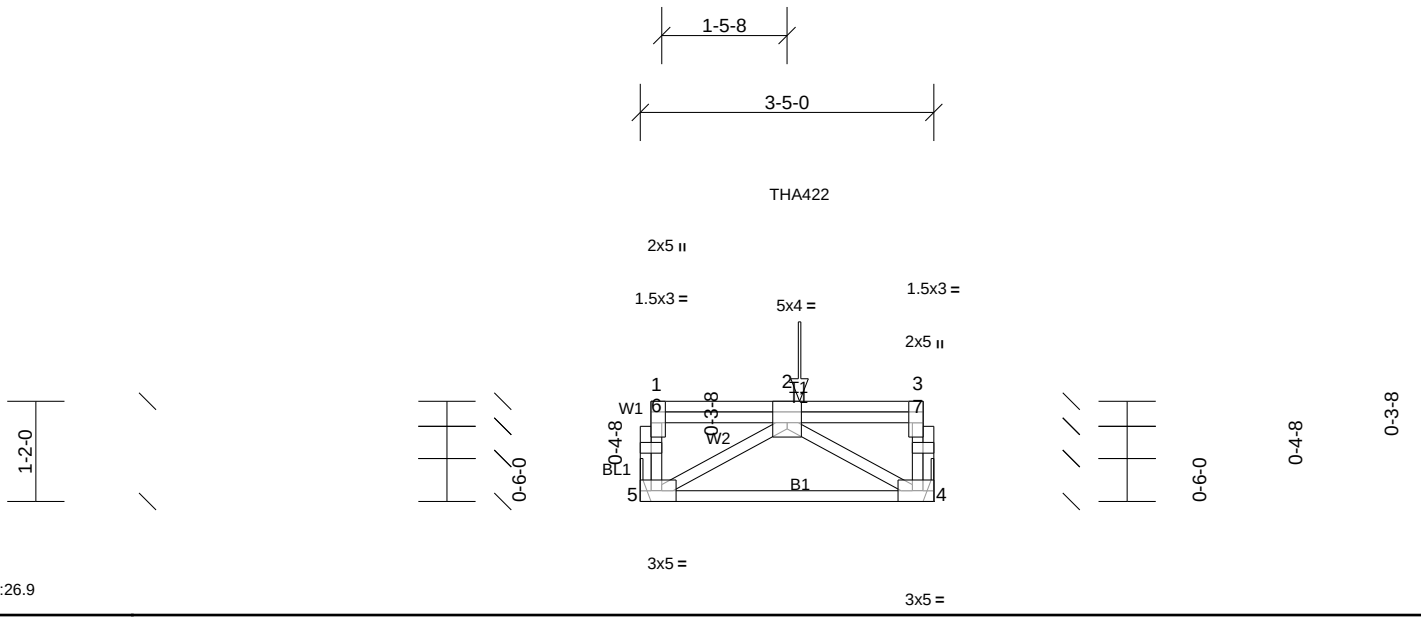
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 12-18=-10, 1-11=-140
   Concentrated Loads (lb)
   Vert: 5=-176 (B)

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG3	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:09 — Page: 1

ID:2YMeRnnRhJzYswzaSXeE7TyE?I?-CsDgflreIiKhG1Nib_7L0OuLma8LgxIM8Dh4_ezHDLG



Scale = 1:26.9

Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-3-0,Edge], [4:0-2-0,Edge], [5:0-2-0,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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 24 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 3-5-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=316/ Mechanical, 5=316/ Mechanical

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

BOT CHORD	4-5=0/376
WEBS	2-4=-437/0, 2-5=-437/0

NOTES

1) 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.
2) 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.
3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to back face of top chord.
4) Fill all nail holes where hanger is in contact with lumber.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

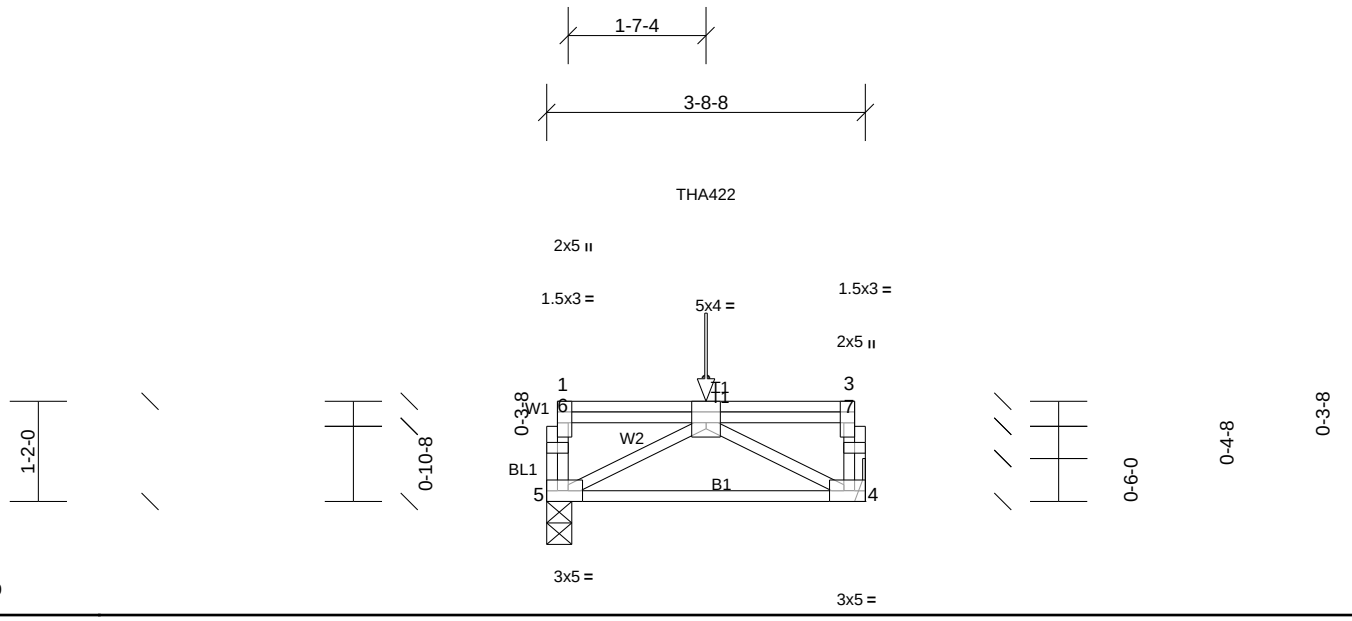
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 4-5=-10, 1-3=-100
   Concentrated Loads (lb)
   Vert: 2=-297 (B)

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG4	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:1(— Page: 1

ID:gl3Um8drLWaCY1RkjOML90yE?EK-g2n2t5sG30SYtByv9heaYbRVd_QfPJ1VNtRdW4zHDLF



Scale = 1:26.9

Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-3-0,Edge], [4:0-2-0,Edge], [5:0-2-0,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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 26 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 3-8-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=790/ Mechanical, 5=790/0-3-8, (min. 0-1-8)

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

BOT CHORD	4-5=0/1193
WEBS	2-4=-1364/0, 2-5=-1364/0

NOTES

1) 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.
2) 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.
3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to front face of top chord.
4) Fill all nail holes where hanger is in contact with lumber.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

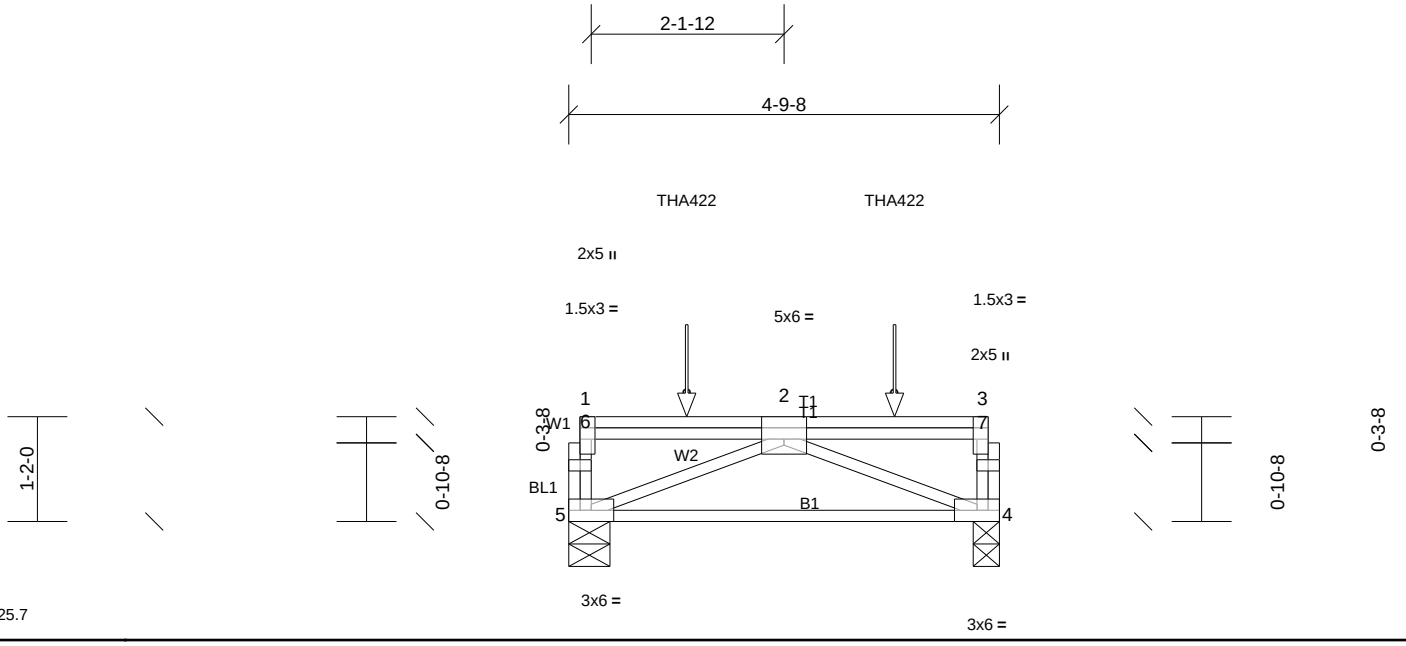
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (lb/ft)
   Vert: 4-5=-10, 1-3=-100
   Concentrated Loads (lb)
   Vert: 2=-1212 (F)

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG5	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:1(— Page: 1

ID:5QsKfPUOdLX8ZxMONo8?X_yE?DD-g2n2t5sG30SYtByv9heaYbRIL_LwPFwVNtRdW4zHDLF



Scale = 1:25.7

Plate Offsets (X, Y): [2:0-3-0,Edge], [3:0-3-0,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	0.90	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.07	4-5	>785	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=1542/0-3-8, (min. 0-1-8), 5=1466/0-5-8, (min. 0-1-8)

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

TOP CHORD	5-6=-529/0, 1-6=-528/0, 4-7=-607/0, 3-7=-606/0
BOT CHORD	4-5=0/2157
WEBS	2-5=-2313/0, 2-4=-2307/0

NOTES

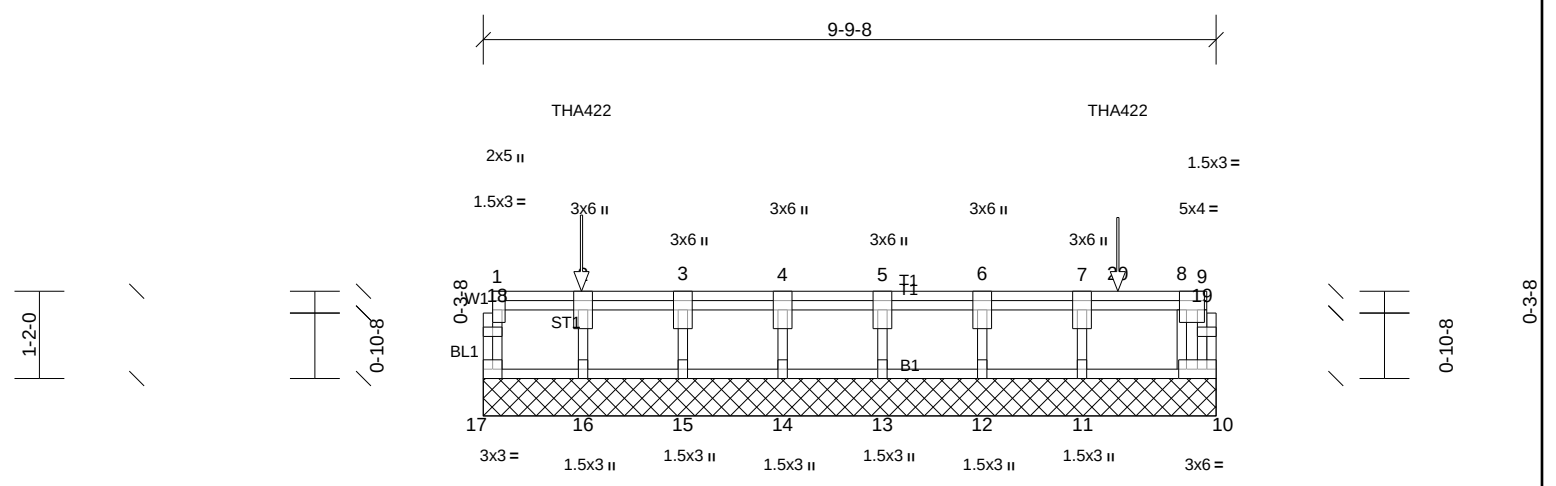
1) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-3-12 oc max. starting at 1-3-12 from the left end to 3-7-8 to connect truss(es) to front face of top chord.
4) Fill all nail holes where hanger is in contact with lumber.
5) 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: 4-5=-10, 1-3=-140
   Concentrated Loads (lb)
   Vert: 8=-1172 (F), 9=-1173 (F)

NORTH CAROLINA PROFESSIONAL SEAL 042768 5/12/2025 ENGINEER CHAWN B. DU

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG6	Truss	1	1	Job Reference (optional)



Scale = 1:30.9

Plate Offsets (X, Y): [9:0-2-0,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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 56 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 9-9-8.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 17 except 10=274 (LC 1), 11=751 (LC 1), 16=1127 (LC 1)

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

WEBS 2-16=-1134/0, 7-11=-723/0, 8-10=-313/0

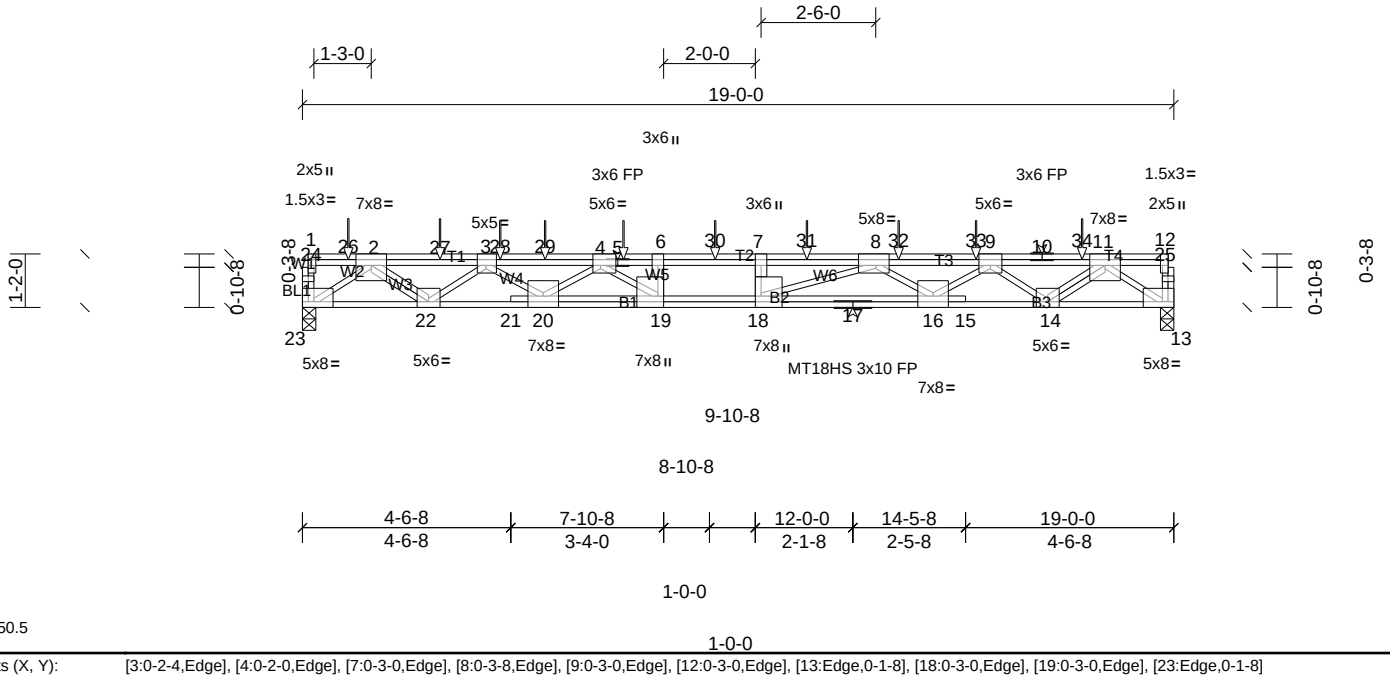
NOTES

1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
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) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 7-2-0 oc max. starting at 1-3-12 from the left end to 8-5-12 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) 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: 10-17=-10, 1-9=-100
   Concentrated Loads (lb)
   Vert: 2=-1079 (F), 20=-690 (F)

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	FG7	Truss	1	1	Job Reference (optional)



Scale = 1:50.5

Plate Offsets (X, Y): [3:0-2-4,Edge], [4:0-2-0,Edge], [7:0-3-0,Edge], [8:0-3-8,Edge], [9:0-3-0,Edge], [12:0-3-0,Edge], [13:Edge,0-1-8], [18:0-3-0,Edge], [19:0-3-0,Edge], [23:Edge,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	0.44	Vert(LL)	-0.38	16-18	>596	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.52	16-18	>430	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 137 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) 13=1612/0-3-8, (min. 0-1-8), 23=1805/0-3-8, (min. 0-1-8)
Max Grav 13=1667 (LC 4), 23=1900 (LC 3)

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

TOP CHORD 2-27=-3976/0, 3-27=-3976/0, 3-28=-6616/0, 28-29=-6616/0, 4-29=-6616/0, 4-5=-8322/0, 5-6=-8322/0, 6-30=-8322/0, 7-30=-8322/0, 7-31=-8322/0, 8-31=-8322/0, 8-32=-6389/0, 32-33=-6389/0, 9-33=-6389/0, 9-10=-3674/0, 10-34=-3674/0, 11-34=-3674/0

BOT CHORD 22-23=0/2547, 21-22=0/5702, 20-21=0/5687, 19-20=0/7655, 18-19=0/8322, 17-18=0/7444, 16-17=0/7444, 15-16=0/5291, 14-15=0/5303, 13-14=0/2345

WEBS 6-19=-691/41, 7-18=-481/0, 2-23=-3073/0, 2-22=0/1910, 3-22=-2156/0, 3-20=0/1255, 4-20=-1361/0, 4-19=-186/1779, 11-13=-2837/0, 11-14=0/1783, 9-14=-2043/0, 9-16=0/1425, 8-16=-1308/0, 8-18=-68/2019

NOTES (7)

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.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 279 lb down at 1-0-0, 277 lb down at 3-0-0, 191 lb down and 103 lb up at 4-3-12, 191 lb down and 103 lb up at 5-3-8, 191 lb down and 103 lb up at 7-0-0, 191 lb down and 103 lb up at 9-0-0, 191 lb down and 103 lb up at 11-0-0, 191 lb down and 103 lb up at 13-0-0, and 191 lb down and 103 lb up at 14-8-4, and 277 lb down at 17-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) F210 trusses may be attached to 2 or more ply top chord of 19" maximum depth flat truss girder with Simpson THA422 or equal. Follow Simpson instructions for installation. In addition, install 2x4 #2 SPF in top chord notch and attach to double top chord of girder with two-16d nails each side of carried truss
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

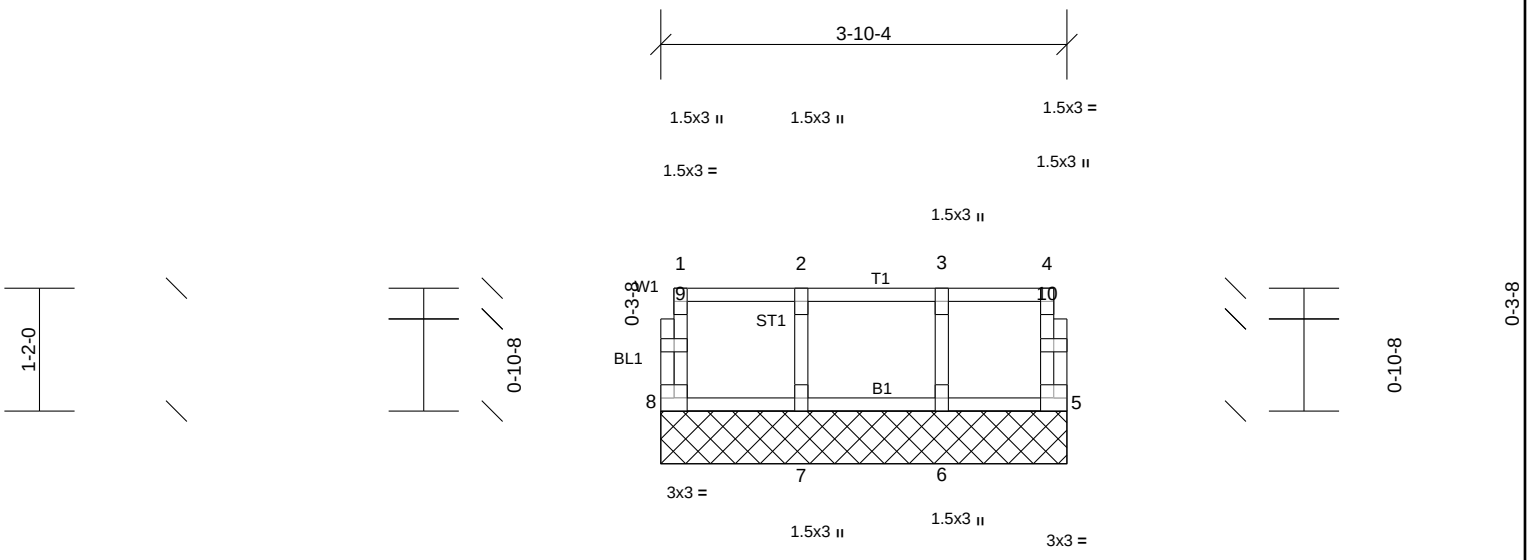
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 13-23=-10, 1-12=-100
Concentrated Loads (lb)
Vert: 5=-111 (B), 26=-205 (B), 27=-194 (B), 28=-111 (B), 29=-111 (B), 30=-111 (B), 31=-111 (B), 32=-111 (B), 33=-111 (B), 34=-194 (B)

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	K200	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:1: — Page: 1

ID:CbG_smdatNq2sB0GtOPKq_zFLKl-8FKR4RsuqJbPVKX5jP9p5p_gyOso8rxfcXAB3XzHDLE



Scale = 1:22

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	0.07	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	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 19 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 3-10-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 3-10-4.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 5, 6, 7, 8

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

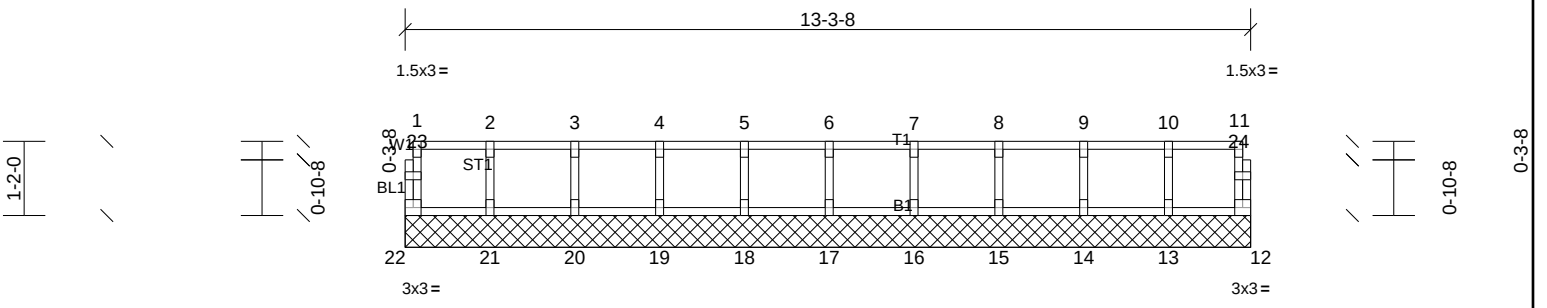
NOTES

1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
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.

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	K201	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:12 — Page: 1

ID:KdulQDGrBdiGp0wrtN5mDPyE?Y9-dRupImtWbdjG7U6HG6g2e0WrgoC3tIBorBwkbzzHDLD



Scale = 1:36.4

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: 56 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.

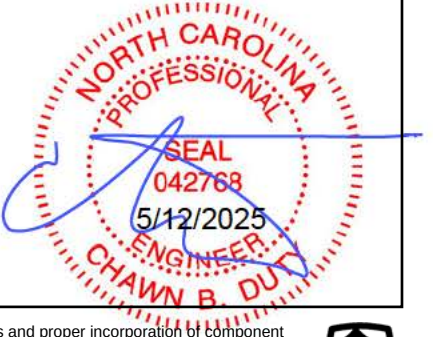
REACTIONS All bearings 13-3-8.

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

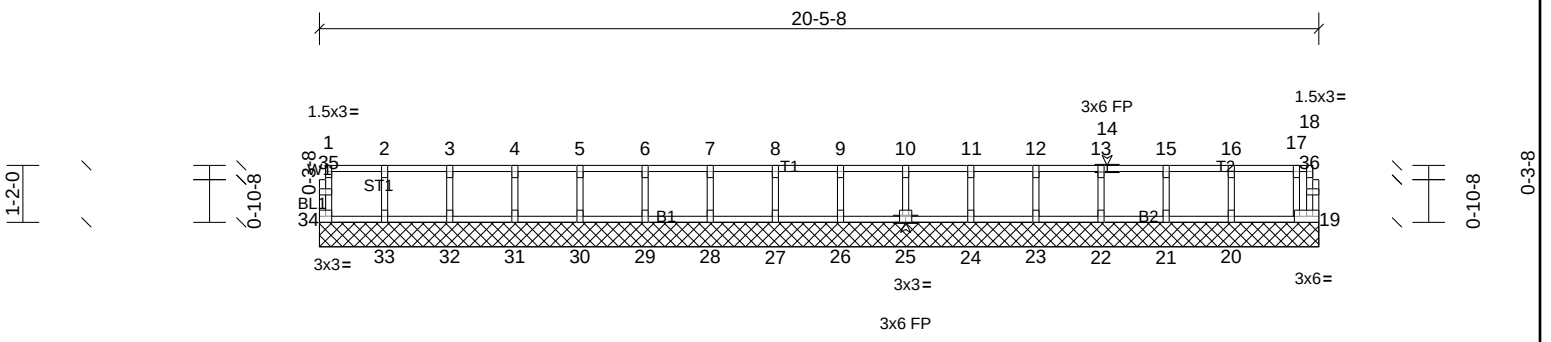
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

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.



Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	K202	Truss	1	1	Job Reference (optional)



Scale = 1:47.4

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 86 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 20-5-8.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34

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

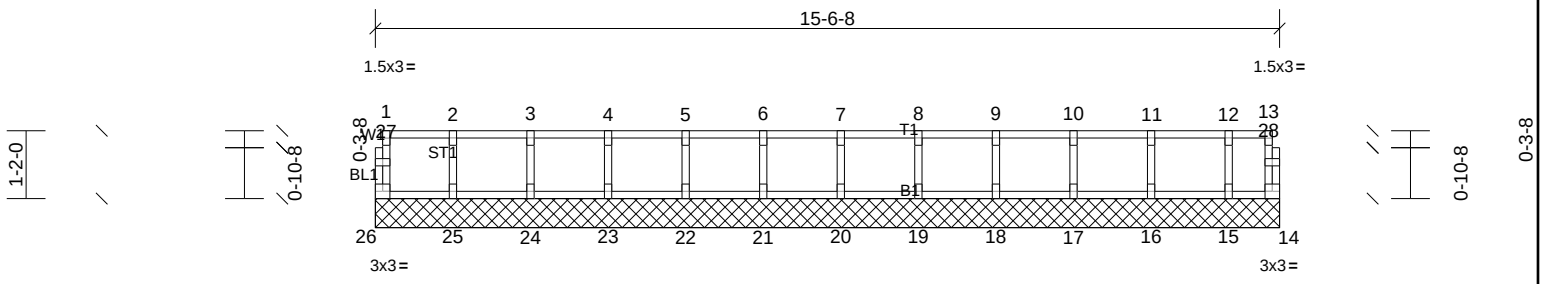
NOTES

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.

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	K203	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:12 — Page: 1

ID:hOGwAMxz?qlKXdCc985uVDyE?XH-dRupImtWbdjG7U6HG6g2e0WrcoC_tIAorBwkbzzHDLD



Scale = 1:39.8

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	0.08	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	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 66 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 15-6-8.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

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

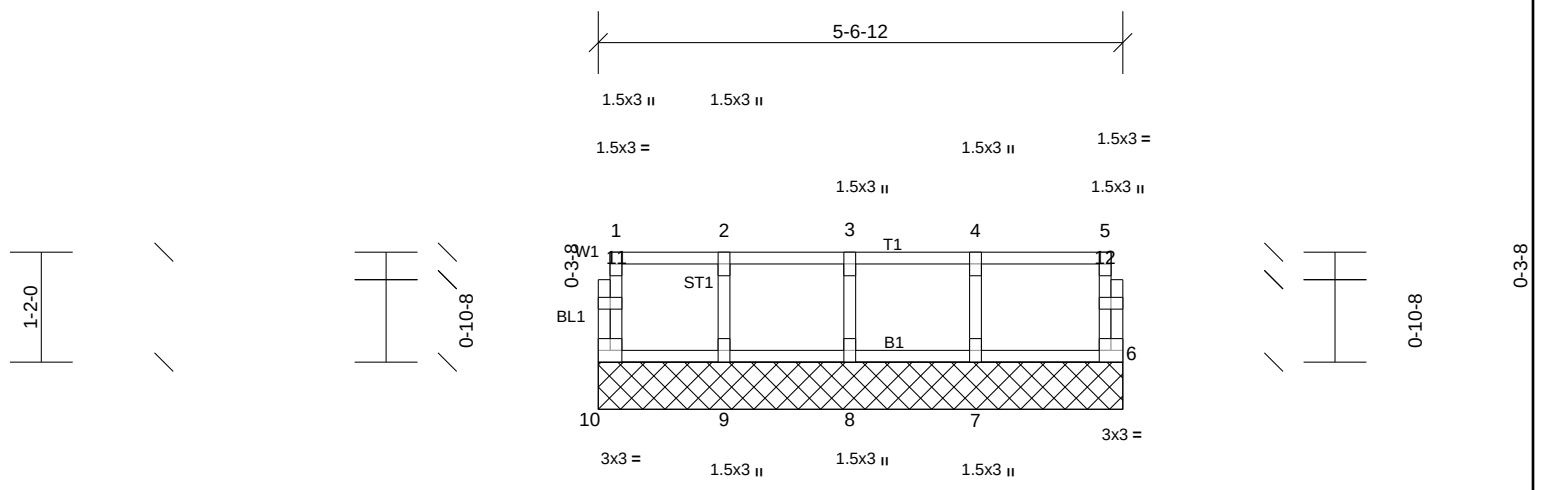
NOTES

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.

Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72513633	K204	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry — Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon May 12 15:19:13 — Page: 1

ID:CbG_smdatNq2sB0GtOPKq_zFLKI-5dSBV6u9Mxr7kehTqqBHAE30ACY8clPx3rfl7PzHDLC



Scale = 1:24.5

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	0.09	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	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 25 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 5-6-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 5-6-12.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 6, 7, 8, 9, 10

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

NOTES

1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
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.