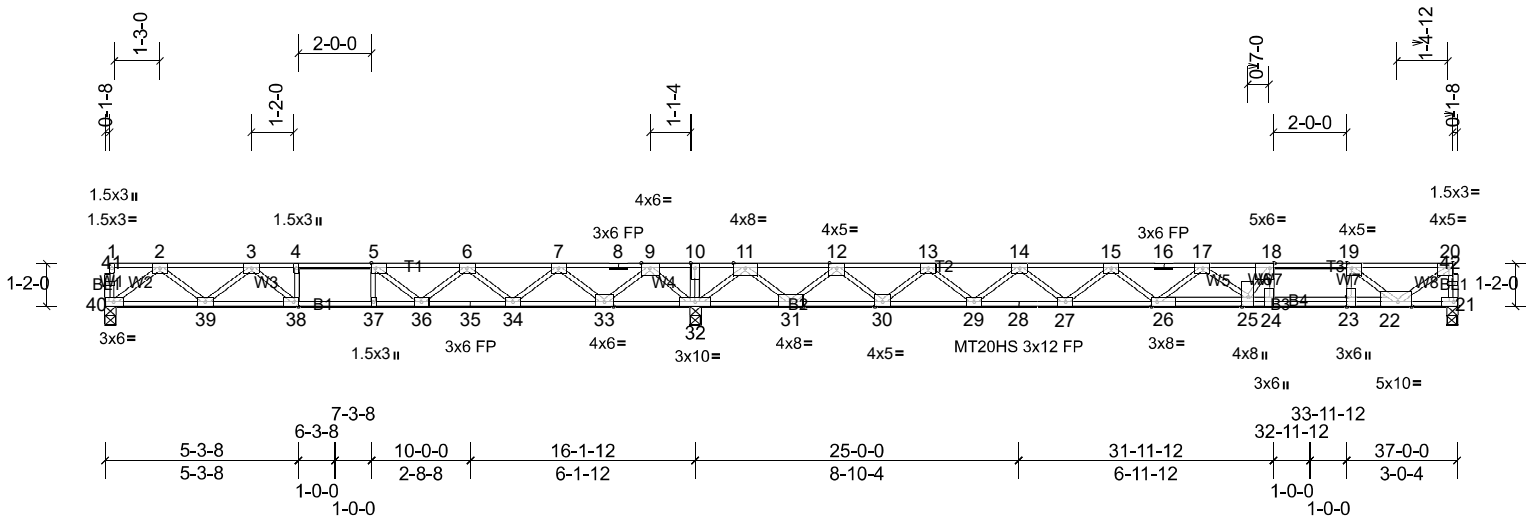
Job	Truss	Truss Type	Qty	Ply	
22040108	F201	Floor	7	1	Job Reference (optional)



Scale = 1:63.1

Plate Offsets (X, Y): [5:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [22:0-4-12,Edge], [23:0-3-0,Edge], [26:0-1-12,Edge], [38:0-1-8,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	0.94	Vert(LL)	-0.42	26-27	>592	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.55	26-27	>456	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 191 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) *Except* T2:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1(flat) *Except* B3,B4:2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 21=907/0-3-8, (min. 0-1-8), 32=2541/0-3-8, (min. 0-1-8), 40=582/0-3-8, (min. 0-1-8)
Max Grav 21=970 (LC 4), 32=2541 (LC 1), 40=714 (LC 3)

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

TOP CHORD 21-42=-946/0, 20-42=-944/0, 2-3=-1406/4, 3-4=-2219/383, 4-5=-2219/383, 5-6=-2013/808, 6-7=-1170/1446, 7-8=0/2260, 8-9=0/2260, 9-10=0/4458, 10-11=0/4459, 11-12=0/1546, 12-13=-1739/716, 13-14=-3177/133, 14-15=-3962/0, 15-16=-4322/0, 16-17=-4322/0, 17-18=-3724/0, 18-19=-2949/0, 19-20=-1483/0

BOT CHORD 39-40=0/882, 38-39=-118/1917, 37-38=-383/2219, 36-37=-383/2219, 35-36=-1122/1752, 34-35=-1122/1752, 33-34=-1815/561, 32-33=-3168/0, 31-32=-2765/0, 30-31=-1068/842, 29-30=-395/2606, 28-29=0/3720, 27-28=0/3720, 26-27=0/4287, 25-26=0/4205, 24-25=0/2949, 23-24=0/2949, 22-23=0/2949

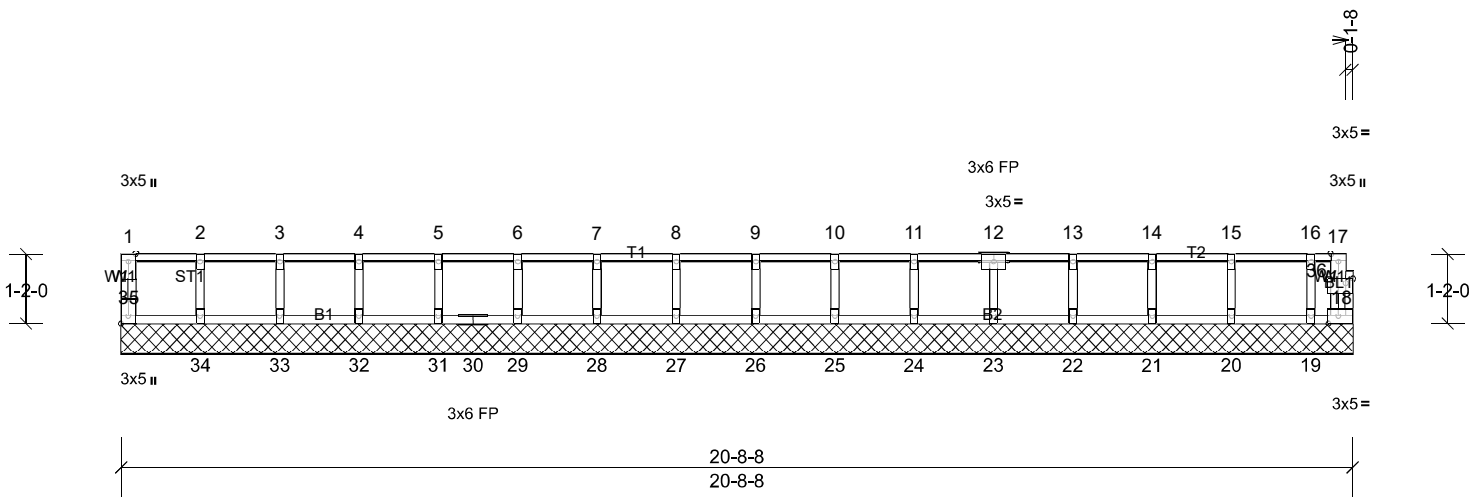
WEBS 5-37=-46/252, 18-24=-1263/0, 19-23=0/924, 2-40=-1104/0, 2-39=-30/683, 3-39=-665/148, 3-38=-347/396, 5-36=-872/0, 6-36=0/667, 6-34=-939/0, 7-34=0/989, 7-33=-1399/0, 9-33=0/1425, 9-32=-1711/0, 11-32=-2126/0, 11-31=0/1701, 12-31=-1672/0, 12-30=0/1267, 13-30=-1226/0, 13-29=0/841, 14-29=-805/0, 14-27=0/413, 15-27=-500/0, 15-26=0/257, 17-25=-611/78, 18-25=0/1410, 19-22=-1946/0, 20-22=0/1658

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 3x5 MT20 unless otherwise indicated.
4) This truss is designed in accordance with the 2018 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F202	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:38.7

Plate Offsets (X, Y): [18:0-2-0,Edge], [35:Edge,0-1-8], [36:0-1-8,0-1-0]

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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 88 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.

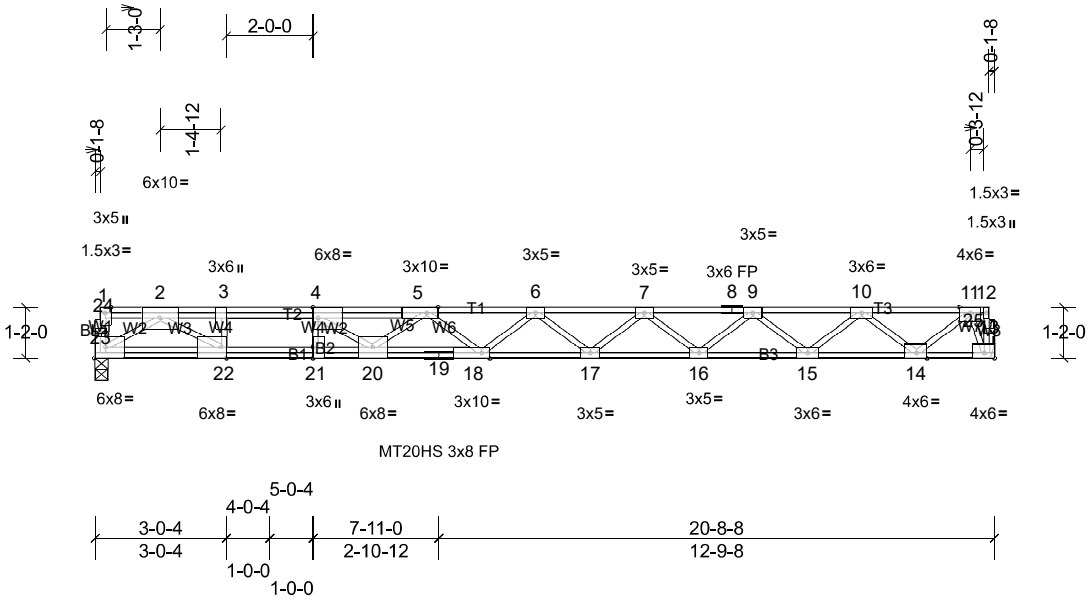
REACTIONS All bearings 20-8-8.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35

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 2018 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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F203	Floor	3	1	Job Reference (optional)



Scale = 1:53.1

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-3-0,Edge], [13:Edge,0-1-8], [18:0-2-4,Edge], [21:0-3-0,Edge], [22:0-1-8,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	0.77	Vert(LL)	-0.51	17-18	>481	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.70	17-18	>350	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) *Except* T1:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except* W3:2x4 SP No.2 (flat)
OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 13=1119/ Mechanical, (min. 0-1-8), 23=1119/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-3747/0, 3-4=-3747/0, 4-5=-5180/0, 5-6=-5857/0, 6-7=-5426/0, 7-8=-4814/0, 8-9=-4814/0, 9-10=-3557/0, 10-11=-1637/0
BOT CHORD 22-23=0/1653, 21-22=0/3747, 20-21=0/3747, 19-20=0/5825, 18-19=0/5825, 17-18=0/5694, 16-17=0/5271, 15-16=0/4334, 14-15=0/2751, 13-14=0/497
WEBS 3-22=-785/0, 4-21=-785/0, 2-23=-1978/0, 2-22=0/2471, 4-20=0/1798, 5-20=-888/0, 6-17=-347/0, 7-16=-594/0, 9-16=0/625, 9-15=-1011/0, 10-15=0/1050, 10-14=-1450/0, 11-14=0/1484, 11-13=-1303/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F204	Floor	8	1	Job Reference (optional)

Carter Components, Sanford, NC, user — Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:40 — Page: 1

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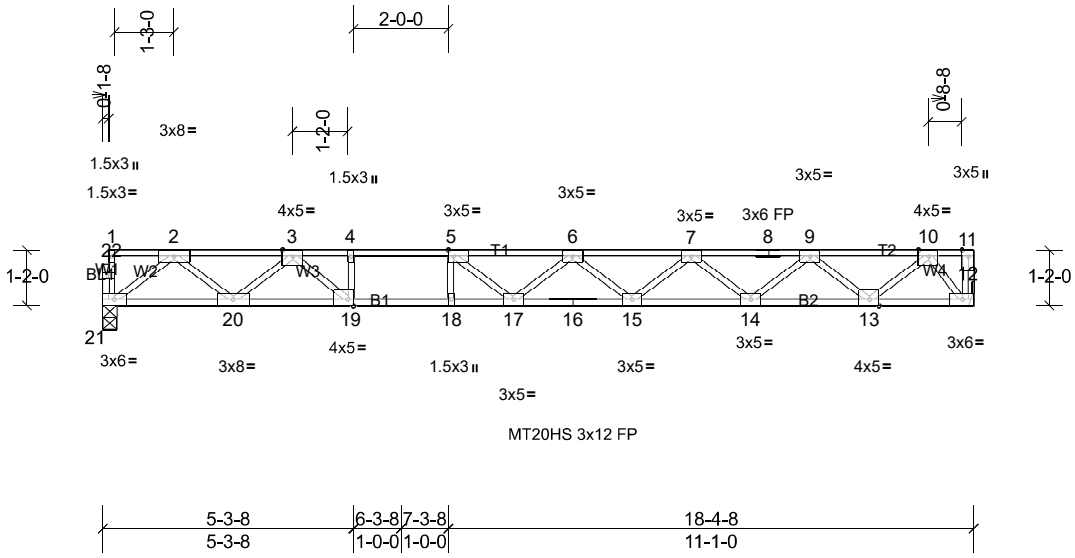


Scale = 1:48.6

Plate Offsets (X, Y): [5:0-1-8,Edge], [19:0-1-8,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)	-0.40	17-18	>544	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.55	17-18	>396	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 92 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* T2:2x4 SP No.2(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* B2:2x4 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:
2-2-0 oc bracing: 18-19,17-18.

REACTIONS (lb/size) 12=997/ Mechanical, (min. 0-1-8), 21=991/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-2062/0, 3-4=-3853/0, 4-5=-3853/0, 5-6=-4255/0, 6-7=-4096/0, 7-8=-3238/0, 8-9=-3238/0, 9-10=-1731/0

BOT CHORD 20-21=0/1239, 19-20=0/2962, 18-19=0/3853, 17-18=0/3853, 16-17=0/4388, 15-16=0/4388, 14-15=0/3799, 13-14=0/2642, 12-13=0/792

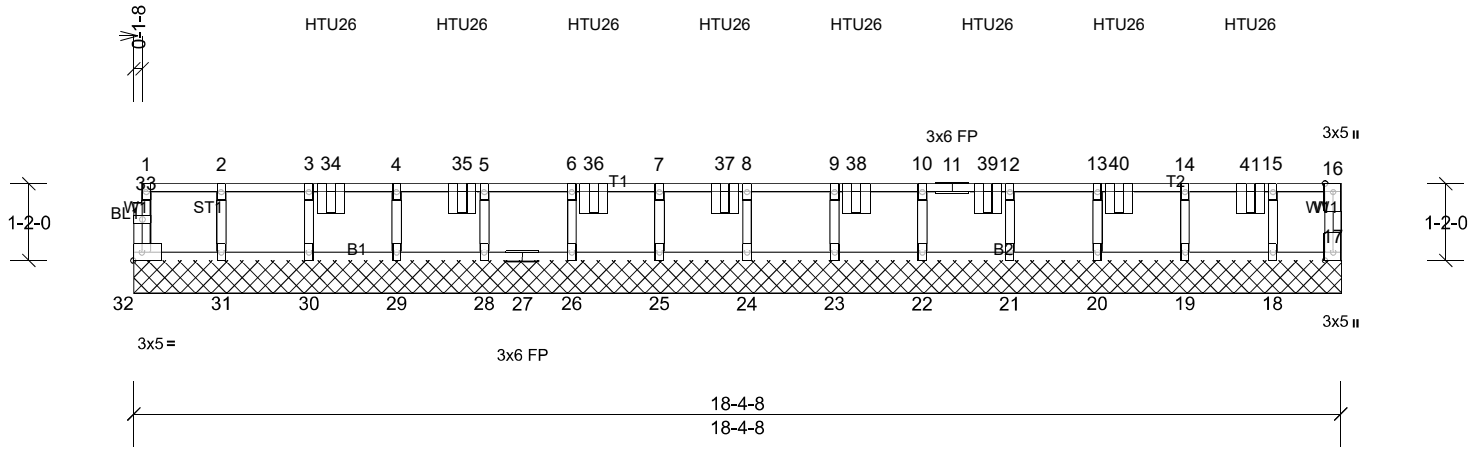
WEBS 4-19=-529/0, 5-18=-381/0, 2-21=-1552/0, 2-20=0/1071, 3-20=-1173/0, 3-19=0/1295, 5-17=-91/674, 6-17=-279/168, 6-15=-379/0, 7-15=0/388, 7-14=-730/0, 9-14=0/775, 9-13=-1186/0, 10-13=0/1222, 10-12=-1268/0

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 3x5 MT20 unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F205	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:35.1

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 77 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.

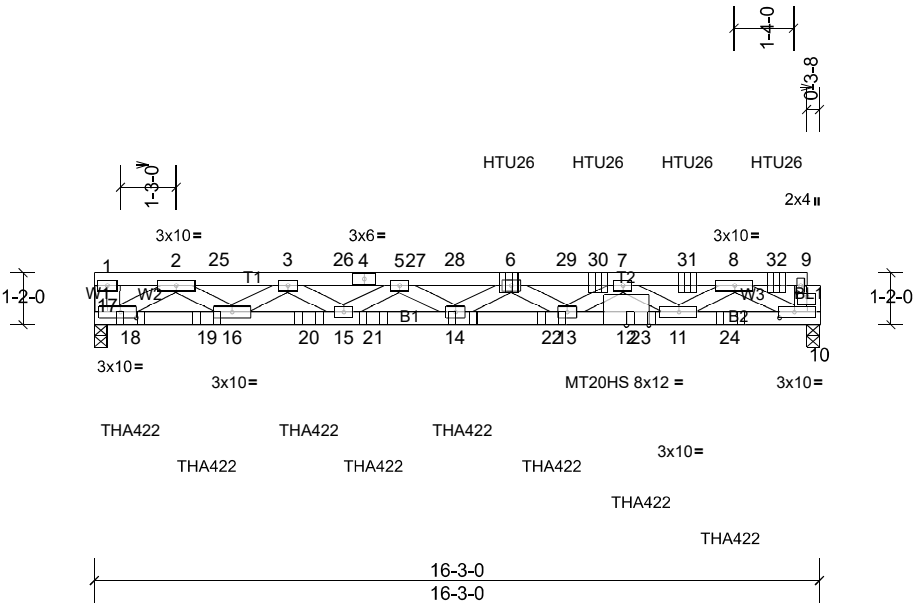
REACTIONS All bearings 18-4-8.
(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 17
Max Grav All reactions 250 (lb) or less at joint (s) 17, 19, 22, 25, 29, 31, 32 except 18=271 (LC 6), 20=261 (LC 6), 21=260 (LC 6), 23=260 (LC 6), 24=260 (LC 6), 26=259 (LC 6), 28=261 (LC 6), 30=279 (LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-30=-266/0, 15-18=-264/2

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) 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.
9) CAUTION, Do not erect truss backwards.
10) Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-0-0 from the left end to 17-0-0 to connect truss(es) E02 (1 ply 2x4 SP) to front face of top chord.
11) WARNING: The following hangers are manually applied but fail due to geometric considerations: HTU26 on front face at 3-0-0 from the left end, HTU26 on front face at 5-0-0 from the left end, HTU26 on front face at 7-0-0 from the left end, HTU26 on front face at 9-0-0 from the left end, HTU26 on front face at 11-0-0 from the left end, HTU26 on front face at 13-0-0 from the left end, HTU26 on front face at 15-0-0 from the left end, HTU26 on front face at 17-0-0 from the left end.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 17-32=-10, 1-16=-100
Concentrated Loads (lb)
Vert: 34=-95, 35=-95, 36=-95, 37=-95, 38=-95, 39=-95, 40=-95, 41=-95

Job	Truss	Truss Type	Qty	Ply	
22040108	F206	Floor Girder	1	4	Job Reference (optional)



Scale = 1:51.6

Plate Offsets (X, Y): [9:0-2-8,0-1-0], [10:0-4-0,0-1-8], [17:0-4-4,0-1-8]

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	0.85	Vert(LL)	-0.28	14	>664	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.49	14	>384	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.08	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 304 lb	FT = 11%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP 2400F 2.0E
OTHERS 2x4 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 10=6616/0-3-8, (min. 0-1-8), 17=5930/0-3-8, (min. 0-1-8)
Max Grav 10=6638 (LC 9), 17=5930 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-537/71, 9-10=-793/0, 1-2=-658/0, 2-25=-14937/0, 3-25=-14937/0, 3-26=-23828/0, 4-26=-23828/0, 4-5=-23828/0, 5-27=-27600/0, 27-28=-27600/0, 6-28=-27600/0, 6-29=-25811/0, 29-30=-25811/0, 7-30=-25811/0, 7-31=-17588/0, 8-31=-17588/0, 8-32=-679/0, 9-32=-679/0
BOT CHORD 17-18=0/8531, 18-19=0/8531, 16-19=0/8531, 16-20=0/19555, 15-20=0/19555, 15-21=0/25972, 14-21=0/25972, 14-22=0/27452, 13-22=0/27452, 12-13=0/22538, 12-23=0/22538, 11-23=0/22538, 11-24=0/10780, 10-24=0/10780
WEBS 2-17=-9053/0, 2-16=0/7819, 3-16=-5638/0, 3-15=0/5216, 5-15=-2788/0, 5-14=-562/2251, 6-14=-1587/576, 6-13=-2003/267, 7-13=-220/3996, 7-11=-6042/0, 8-11=0/8310, 8-10=-11472/0

NOTES

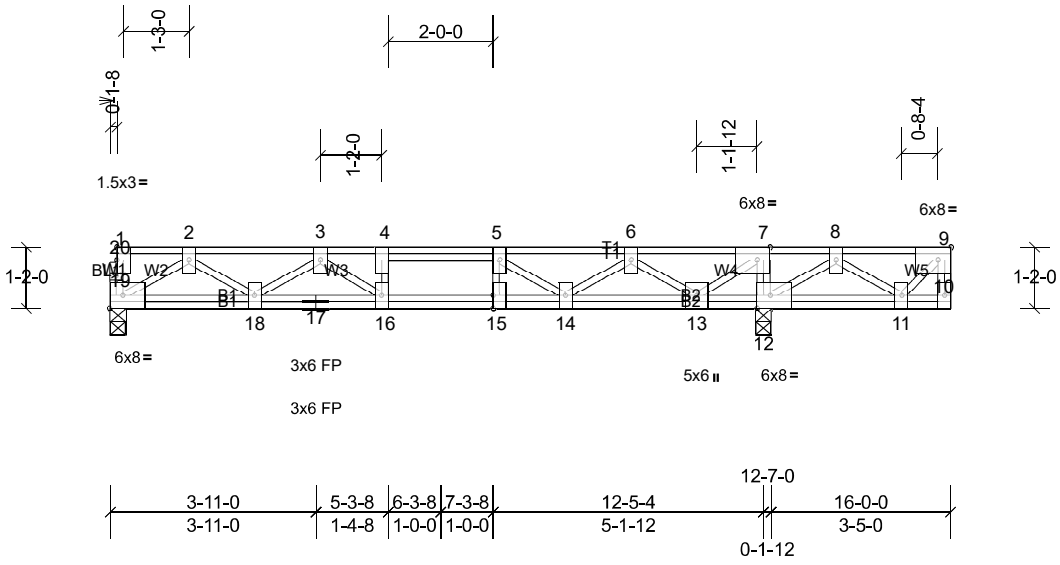
1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 2 rows staggered at 0-6-0 oc.
Bottom chords connected as follows: 2x4 - 2 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced floor live loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 3x5 MT20 unless otherwise indicated.
6) The Fabrication Tolerance at joint 12 = 11%, joint 4 = 11%
7) Concentrated loads from layout are not present in Load Case(s): #101 1st Moving Office Safe Load; #201 2nd Moving Office Safe Load; #301 3rd Moving Office Safe Load; #401 4th Moving Office Safe Load; #501 5th Moving Office Safe Load; #601 6th Moving Office Safe Load; #701 7th Moving Office Safe Load; #801 8th Moving Office Safe Load; #901 9th Moving Office Safe Load; #1001 10th Moving Office Safe Load; #1101 11th Moving Office Safe Load; #1201 12th Moving Office Safe Load; #1301 13th Moving Office Safe Load.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) 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.
10) This truss has been designed to carry a concentrated load of 2000.0lb over a space 2-6-0 square, anywhere on the top chord.
11) 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.
12) CAUTION, Do not erect truss backwards.
13) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-3-8 oc max. starting at 0-9-12 from the left end to 14-3-0 to connect truss(es) F204 (1 ply 2x4 SP) to front face of bottom chord.
14) Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 9-3-8 from the left end to 15-3-8 to connect truss(es) D04 (1 ply 2x4 SP) to back face of top chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) WARNING: The following hangers are manually applied but fail due to geometric considerations: THA422 on front face at 0-9-12 from the left end, THA422 on front face at 2-6-4 from the left end, THA422 on front face at 4-9-12 from the left end, THA422 on front face at 6-3-0 from the left end, THA422 on front face at 8-3-0 from the left end, THA422 on front face at 10-3-0 from the left end, THA422 on front face at 12-3-0 from the left end, THA422 on front face at 14-3-0 from the left end.

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, 1-27=-100, 9-27=-280
Concentrated Loads (lb)
Vert: 14=-987, 6=-337, 18=-989, 19=-987, 20=-987, 21=-987, 22=-987, 23=-987, 24=-987, 30=-337, 31=-337, 32=-340

Job	Truss	Truss Type	Qty	Ply	
22040108	F207	Floor	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user — Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Fri Nov 18 16:59:41 — Page: 1

ID:dZfl7sl6382K_yOGibjqjhyI9lx-K?ojwlgVsYox1v7BJB6So8VkrB4GS2ifui45uHyI3Xm



Scale = 1:43.9

Plate Offsets (X, Y): [7:0-3-0,Edge], [9:0-3-0,Edge], [12:0-3-0,Edge], [15:0-3-0,Edge], [20:0-1-8,0-0-8]

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	0.18	Vert(LL)	-0.05	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.06	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(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=1105/0-3-8, (min. 0-1-8), 19=621/0-3-8, (min. 0-1-8)
Max Grav 12=1105 (LC 1), 19=659 (LC 3)

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

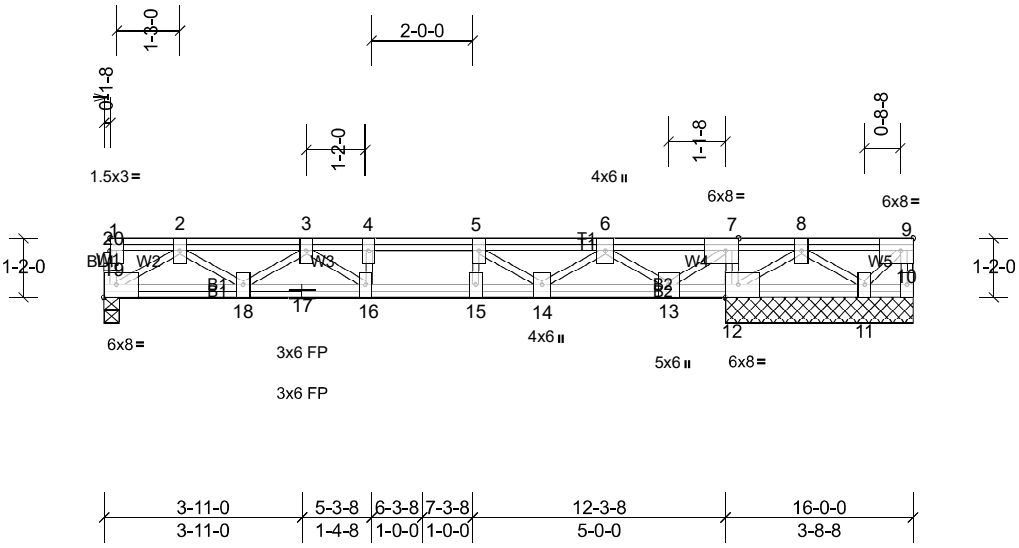
TOP CHORD 2-3=-1388/0, 3-4=-2088/0, 4-5=-2088/0, 5-6=-1726/0, 6-7=-616/403, 7-8=0/654
BOT CHORD 18-19=0/927, 17-18=0/1880, 16-17=0/1880, 15-16=0/2088, 14-15=0/2088, 13-14=-164/1347, 12-13=-654/0
WEBS 7-12=-775/0, 2-19=-1081/0, 2-18=0/573, 3-18=-610/0, 3-16=-96/460, 5-14=-677/0, 6-14=0/555, 6-13=-959/0, 7-13=0/945, 8-12=-524/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F208	Floor	1	1	Job Reference (optional)



Scale = 1:45.6

Plate Offsets (X, Y): [7:0-3-0,Edge], [9:0-3-0,Edge], [12:0-3-0,Edge], [20:0-1-8,0-0-8]

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	0.27	Vert(LL)	-0.05	16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.06	16-18	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 125 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, Except:
6-0-0 oc bracing: 12-13,11-12.

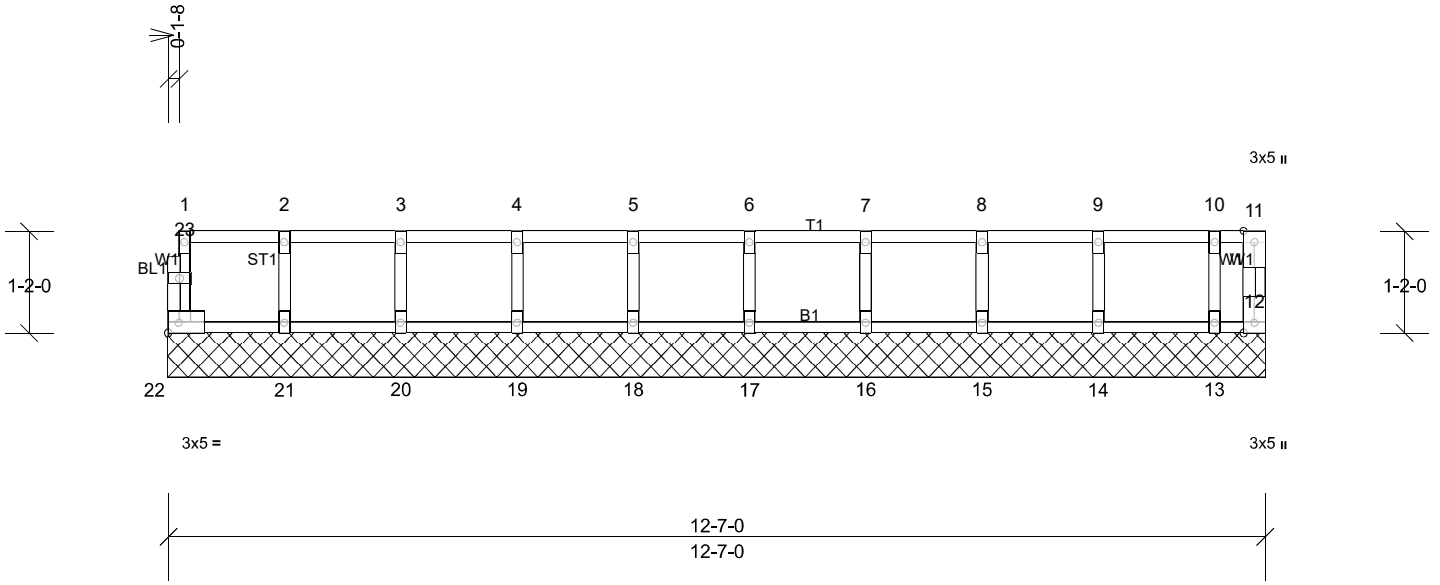
REACTIONS All bearings 3-8-8. except 19=0-3-8
(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) 11 except 10=-120 (LC 1)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 11 except 12=1309 (LC 1), 19=577 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1173/0, 3-4=-1546/0, 4-5=-1546/0, 5-6=-980/0, 6-7=0/356, 7-8=0/1166
BOT CHORD 18-19=0/805, 17-18=0/1532, 16-17=0/1532, 15-16=0/1546, 14-15=0/1546, 13-14=0/465, 12-13=-1166/0, 11-12=-548/0
WEBS 7-12=-829/0, 2-19=-939/0, 2-18=0/459, 3-18=-444/0, 5-14=-690/0, 6-14=0/639, 6-13=-1018/0, 7-13=0/1004, 8-12=-743/0, 8-11=0/428, 9-11=-301/0

NOTES
1) All plates are 3x6 MT20 unless otherwise indicated.
2) Gable studs spaced at 1-4-0 oc.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 11.
4) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
5) This truss is designed in accordance with the 2018 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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F209	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:26.4

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	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 55 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.

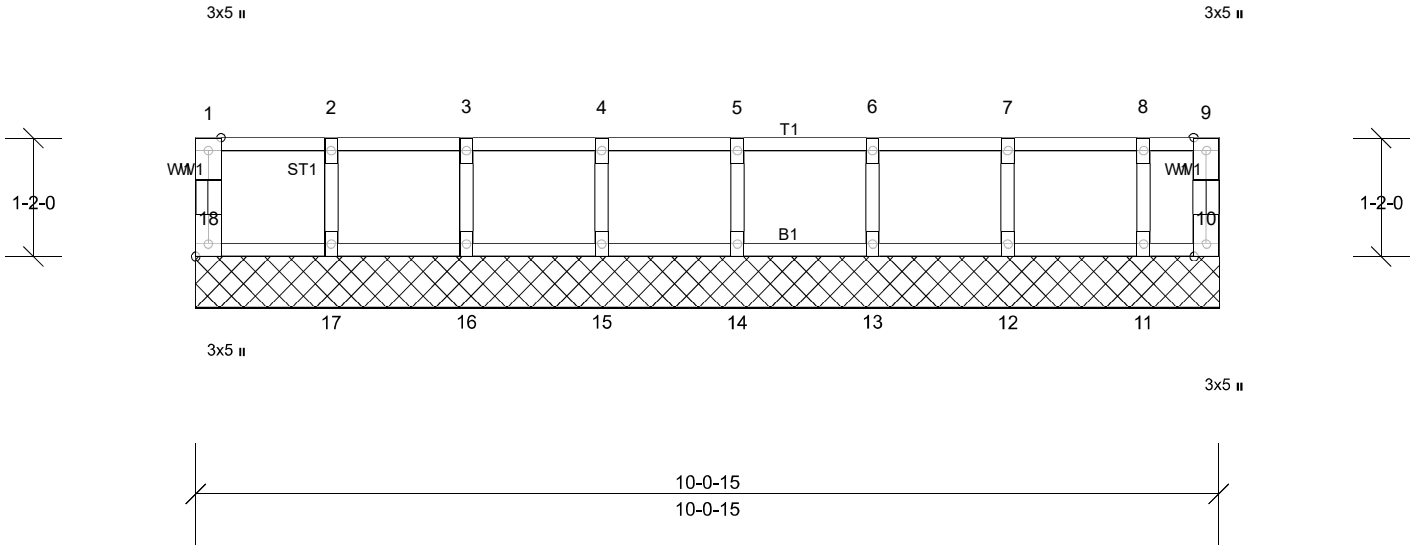
REACTIONS All bearings 12-7-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

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

NOTES
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 2018 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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F210	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:22.7

Plate Offsets (X, Y): [18: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	0.08	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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 45 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.

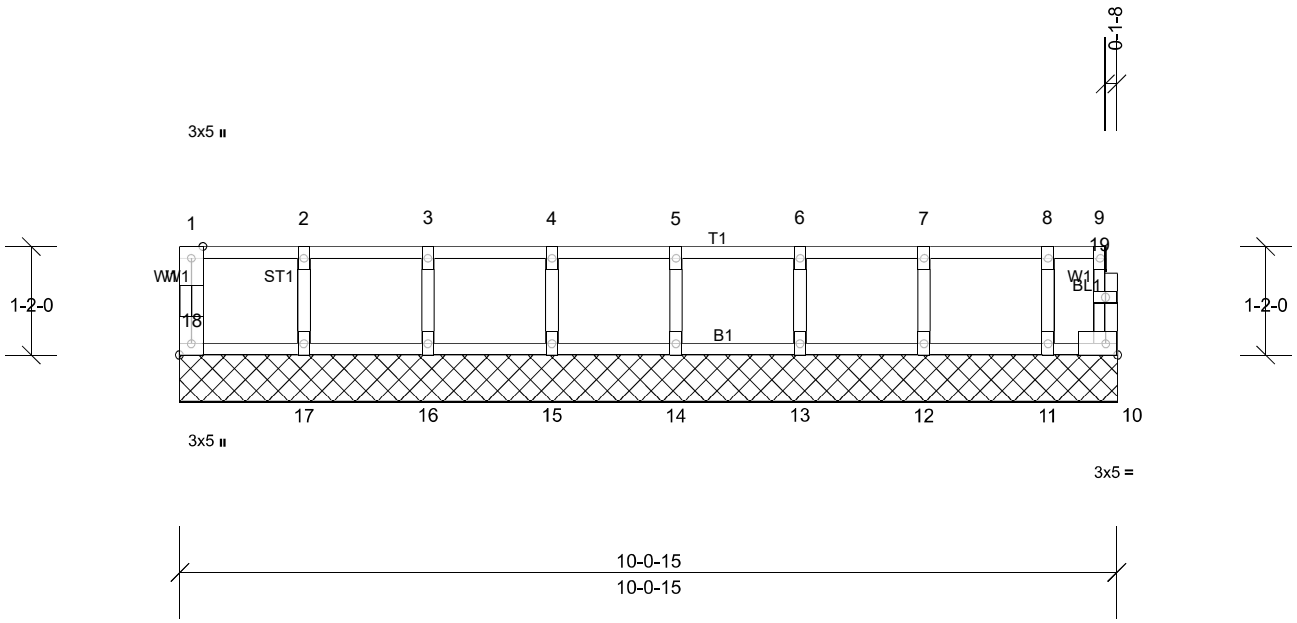
REACTIONS All bearings 10-0-15.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15, 16, 17, 18

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 2018 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F211	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:24.8

Plate Offsets (X, Y): [18: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	0.08	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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 45 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.

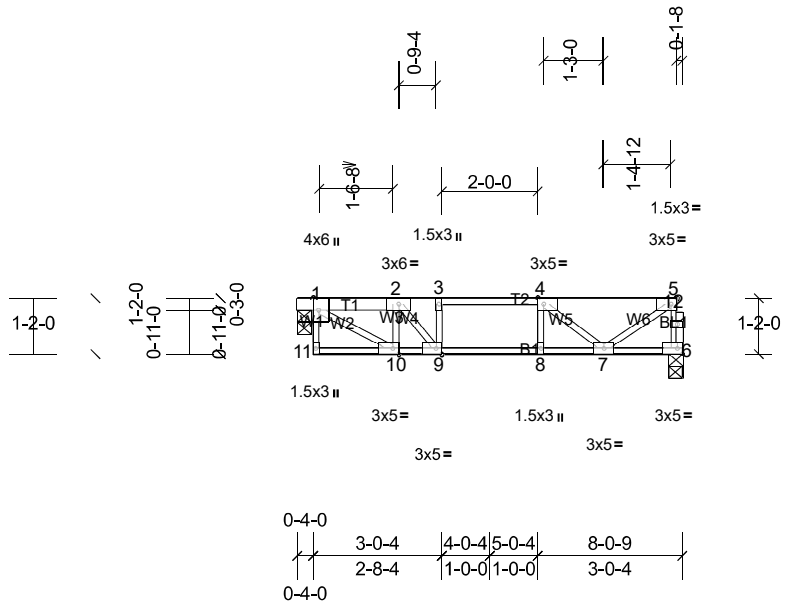
REACTIONS All bearings 10-0-15.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15, 16, 17, 18

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 2018 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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F212	Floor	4	1	Job Reference (optional)



Scale = 1:48.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,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	0.52	Vert(LL)	-0.04	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.05	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 43 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.

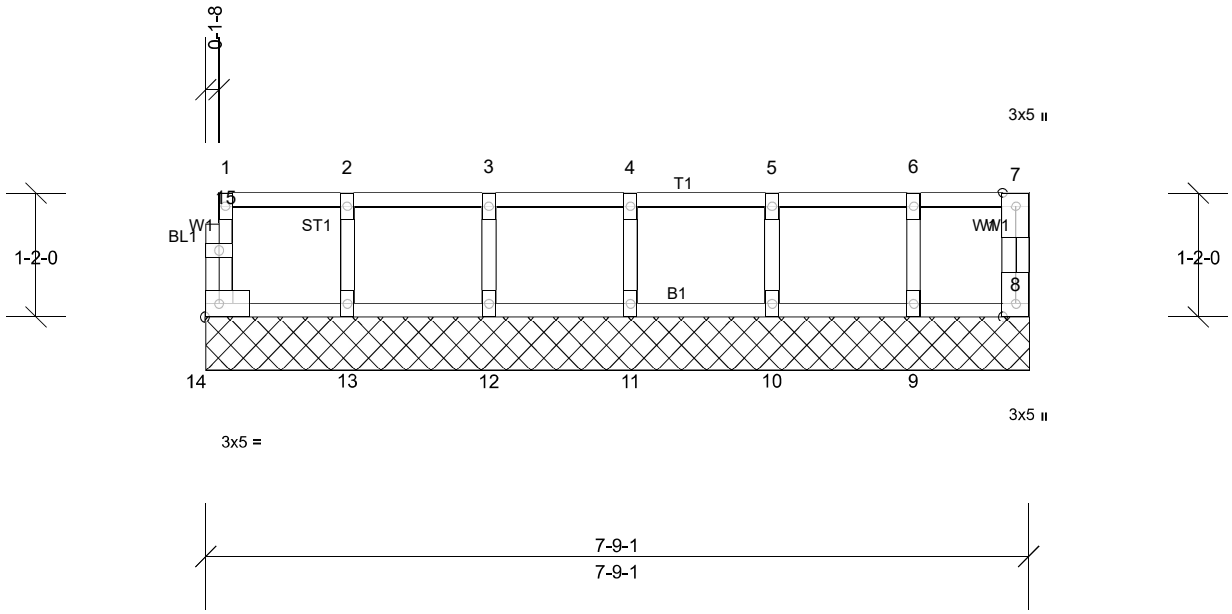
REACTIONS (lb/size) 1=414/0-3-8, (min. 0-1-8), 6=408/0-3-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-12=-405/0, 5-12=-404/0, 1-2=-514/0, 2-3=-733/0, 3-4=-733/0, 4-5=-425/0
BOT CHORD 9-10=0/511, 8-9=0/733, 7-8=0/733
WEBS 2-10=-324/0, 1-10=0/593, 2-9=0/429, 4-7=-393/0, 5-7=0/492

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F213	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:21.7

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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 35 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.

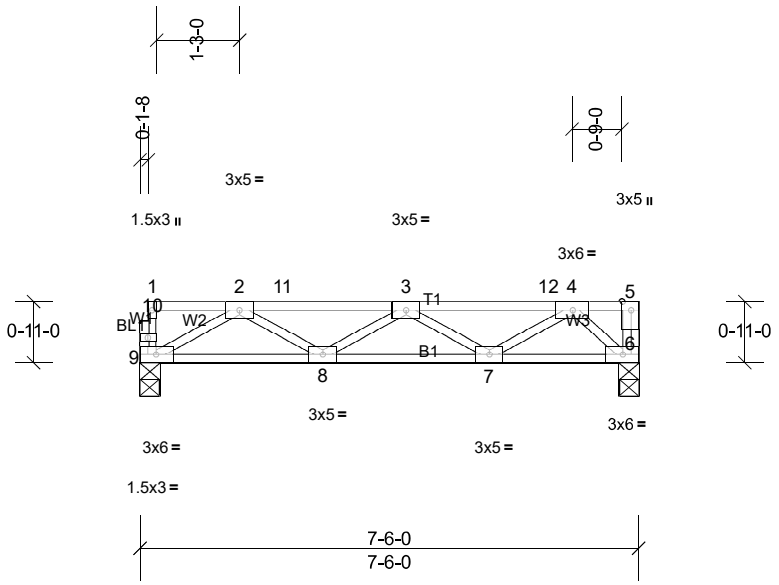
REACTIONS All bearings 7-9-1.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 8, 9, 10, 11, 12, 13, 14

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

NOTES
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 2018 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.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F214	Floor Girder	1	1	Job Reference (optional)



Scale = 1:34.7

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)	-0.05	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.07	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.02	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

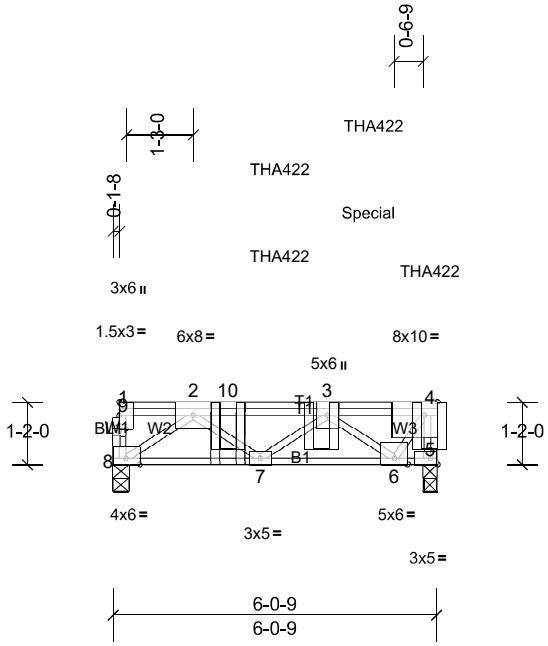
REACTIONS (lb/size) 6=1205/0-3-8, (min. 0-1-8), 9=858/0-3-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-2040/0, 3-11=-2040/0, 3-12=-1979/0, 4-12=-1979/0
BOT CHORD 8-9=0/1486, 7-8=0/2554, 6-7=0/1371
WEBS 2-9=-1715/0, 2-8=0/656, 3-8=-609/0, 3-7=-681/0, 4-7=0/720, 4-6=-1848/0

NOTES
1) This truss is designed in accordance with the 2018 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) 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: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 3=-314, 4=-330, 11=-314, 12=-314

Job	Truss	Truss Type	Qty	Ply	
22040108	F215	Floor Girder	1	1	Job Reference (optional)



Scale = 1:43.1

Plate Offsets (X, Y): [4:0-3-0,Edge], [9:0-1-8,0-0-8]

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	0.92	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 41 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.

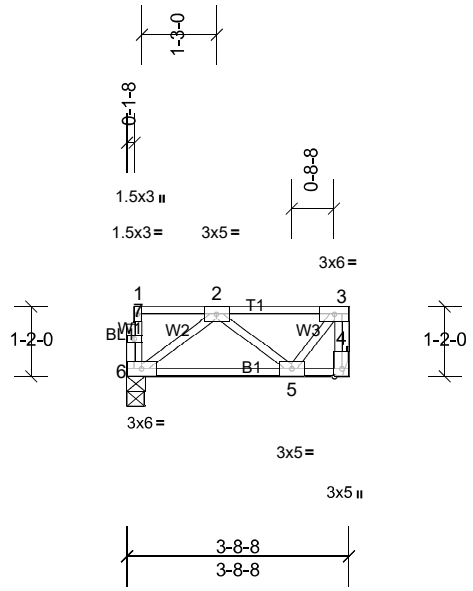
REACTIONS (lb/size) 5=2451/0-3-1, (min. 0-1-8), 8=1371/0-3-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-2444/0, 2-10=-2367/0, 3-10=-2367/0, 3-4=-919/0
BOT CHORD 7-8=0/2083, 6-7=0/2618
WEBS 2-8=-2568/0, 2-7=-36/360, 3-7=-320/82, 3-6=-2158/0, 4-6=0/1628

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 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.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 2-1-12 from the left end to connect truss(es) F216 (1 ply 2x4 SP) to front face of top chord.
6) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-4 oc max. starting at 2-1-12 from the left end to 5-11-1 to connect truss(es) F203 (1 ply 2x4 SP) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) WARNING: The following hangers are manually applied but fail due to geometric considerations: THA422 on back face at 5-11-1 from the left end.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 4=-1068 (B), 3=-1013 (F=6, B=-1019), 10=-1109 (F=-90, B=-1019)

Job	Truss	Truss Type	Qty	Ply	
22040108	F216	Floor	1	1	Job Reference (optional)



Scale = 1:38.5

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	0.23	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 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.

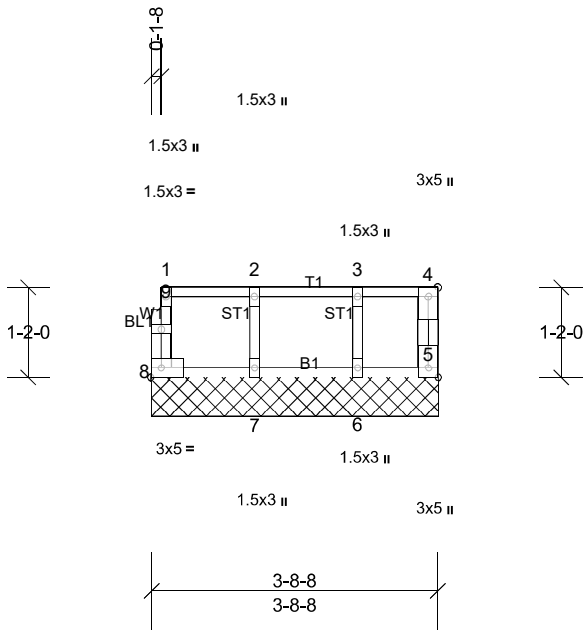
REACTIONS (lb/size) 4=190/ Mechanical, (min. 0-1-8), 6=184/0-3-8, (min. 0-1-8)

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

NOTES
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22040108	F217	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:29.9

Plate Offsets (X, Y): [5: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	0.08	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)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/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 3-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 3-8-8.
(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 2018 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.

LOAD CASE(S) Standard