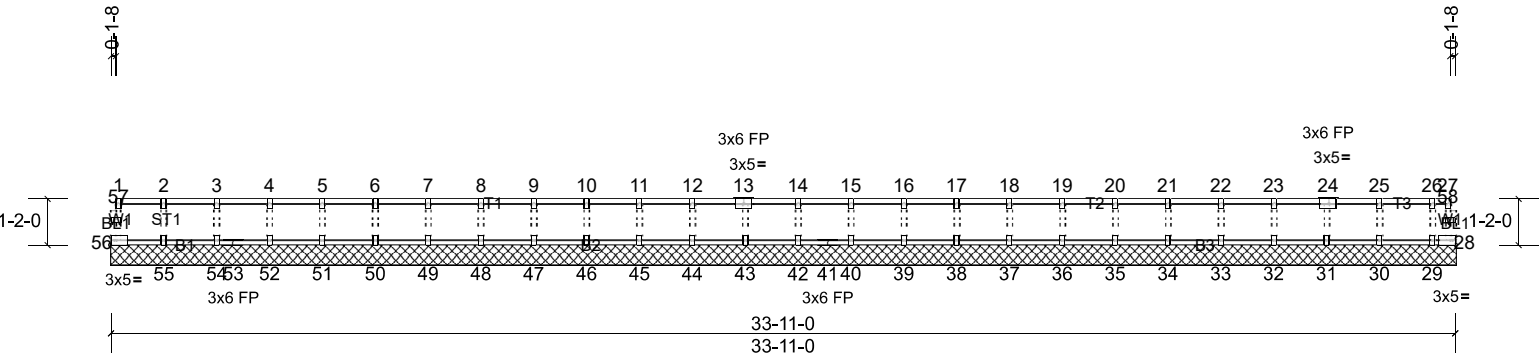


Job	Truss	Truss Type	Qty	Ply	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F101	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:58.1

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	0.08	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-MR							Weight: 140 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.

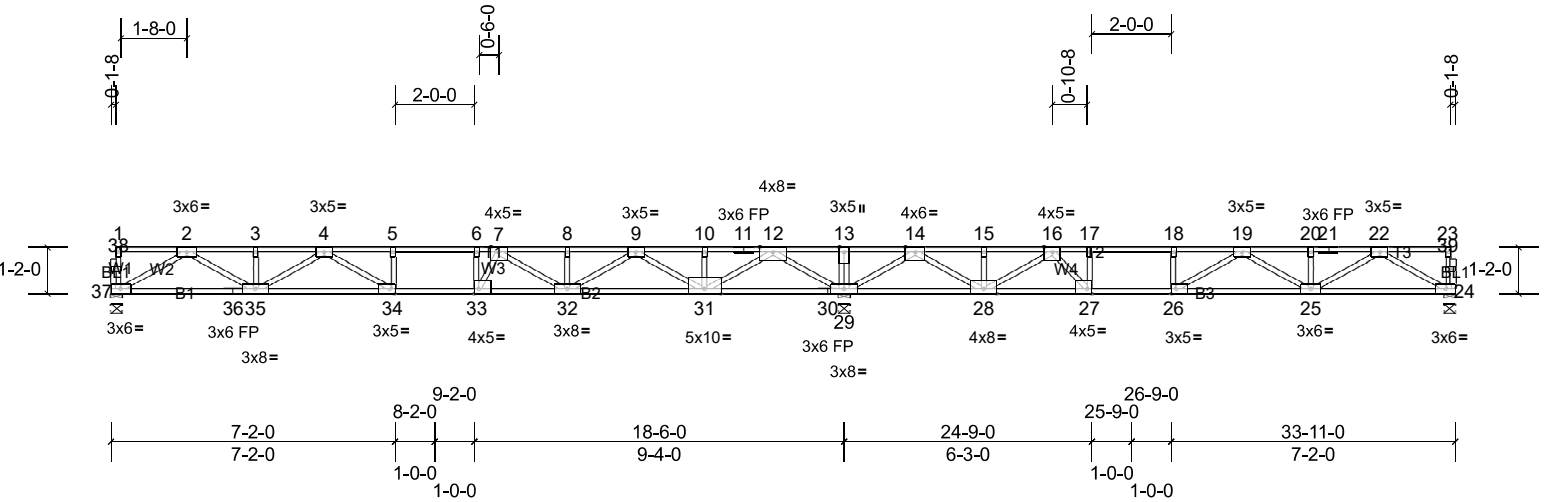
REACTIONS All bearings 33-11-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint
(s) 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 54, 55, 56

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	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F102	Floor	7	1	Job Reference (optional)



Scale = 1:58.1

Plate Offsets (X, Y): [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.26	33-34	>838	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.34	33-34	>639	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	24	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 169 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) *Except* T3:2x4 SP No.2 (flat), T2:2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* B3:2x4 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 5-10-15 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 24=619/0-3-8, (min. 0-1-8), 29=2247/0-3-8, (min. 0-1-8), 37=825/0-3-8, (min. 0-1-8)

Max Grav 24=730 (LC 4), 29=2247 (LC 1), 37=863 (LC 3)

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

TOP CHORD 2-3=-2308/0, 3-4=-2308/0, 4-5=-3258/0, 5-6=-3258/0, 6-7=-3258/0, 7-8=-2675/0, 8-9=-2675/0, 9-10=-775/471, 10-11=-775/471, 11-12=-775/471, 12-13=0/3083, 13-14=0/3083, 14-15=-1027/1309, 15-16=-1027/1309, 16-17=-2246/459, 17-18=-2246/459, 18-19=-2246/459, 19-20=-1866/0, 20-21=-1866/0, 21-22=-1866/0

BOT CHORD 36-37=0/1340, 35-36=0/1340, 34-35=0/2928, 33-34=0/3258, 32-33=0/3134, 31-32=-108/1866, 30-31=-1261/0, 29-30=-1261/0, 28-29=-1852/0, 27-28=-860/1785, 26-27=-459/2246, 25-26=-87/2267, 24-25=0/1120

WEBS 6-33=-564/0, 17-27=-686/0, 22-24=-1291/0, 22-25=-18/870, 19-25=-469/156, 19-26=-577/0, 14-29=-1826/0, 14-28=0/1491, 16-28=-1114/0, 16-27=0/1171, 2-37=-1545/0, 2-35=0/1130, 4-35=-724/0, 4-34=-103/515, 12-29=-2107/0, 12-31=0/1743, 9-31=-1344/0, 9-32=0/1018, 7-32=-675/0, 7-33=0/769

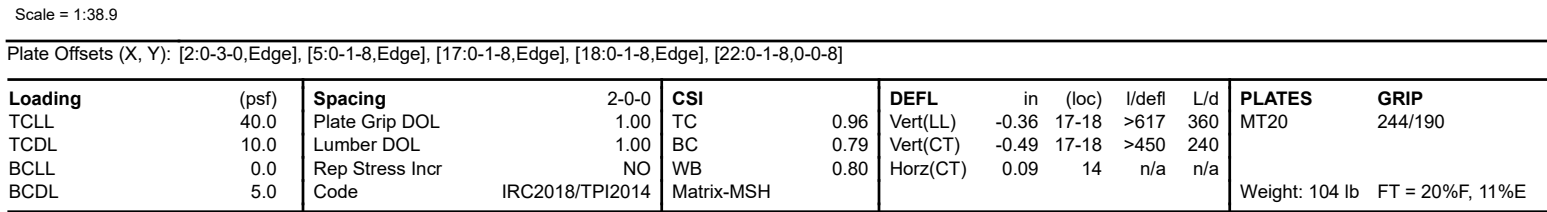
NOTES

1) Unbalanced floor live loads have been considered for this design.

- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) This truss is designed in accordance with the 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

Carter Components, Sanford, NC, user Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:14 Page: 1
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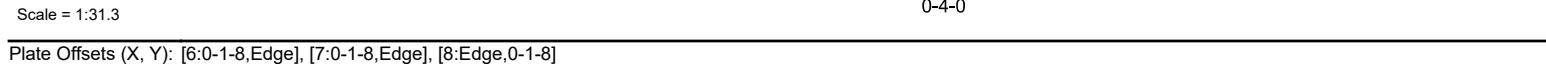


BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4594/0, 3-23=-4594/0, 4-23=-4594/0, 4-5=-5848/0, 5-6=-5842/0, 6-7=-5842/0, 7-8=-5221/0, 8-9=-5221/0, 9-10=-3289/0, 10-11=-3289/0, 11-12=-3289/0
BOT CHORD	20-21=0/2424, 19-20=0/2424, 18-19=0/5879, 17-18=0/5842, 16-17=0/5704, 15-16=0/4400, 14-15=0/1845
WEBS	5-18=-260/258, 6-17=-649/236, 2-21=-2755/0, 2-19=0/2494, 3-19=-459/0, 4-19=-1476/0, 4-18=-664/737, 12-14=-2134/0, 12-15=0/1686, 9-15=-1296/0, 9-16=0/959, 7-16=-795/0, 7-17=-355/895

- 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 4-9-12 from the left end to connect truss(es) F114 (1 ply 2x4 SP) to front face of top chord.

Carter Components, Sanford, NC, user Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:14 Page: ID:2NjYwNPdA1QsJc3Q8ylgZAzFcvZ-6g0bfRtMRApMMqyZlNjYQxl1w7NrGlSuzsMTapZFZl

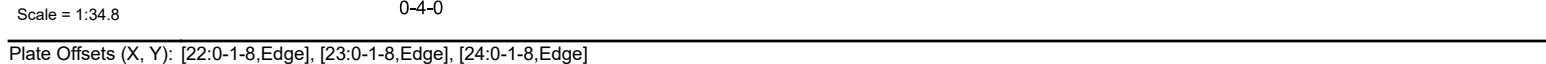


LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 4=244/0-3-8, (min. 0-1-8), 8=238/0-3-8, (min. 0-1-8)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	3-4=-336/0
BOT CHORD	6-7=0/335
WEBS	4-6=0/388, 3-7=-377/0

- 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

Carter Components, Sanford, NC, user Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:15 Page: ID:2NjYwNPdA1QsJc3Q8ylgZaZFcvZ-6q0bfRtMRApMMqyZINyQjxL8K7WDGJsuzsMTapZFzL



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: 23-24.
REACTIONS	All bearings 8-7-12. except 1=0-3-8, 24=0-3-8 (lb) - Max Grav All reactions 250 (lb) or less at joint (s) 1, 14, 15, 16, 17, 18, 19, 20 except 21=272 (LC 1), 24=297 (LC 3)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-24=-282/0

- ## NOTES
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 8) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard

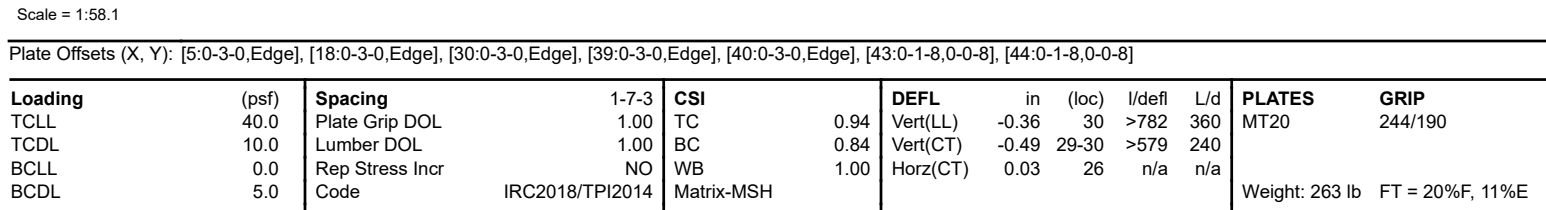
Carter Components, Sanford, NC, user Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:15 Page: ID:2NlYwNPdA1QsJc3Q8ylgZAzFcvZ-a0azsmu CUxD Xl4TfG9t8wXdD?gZ2CW507GzFZzk



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)	-0.23	12-13	>811	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.31	12-13	>594	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 79 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

Carter Components, Sanford, NC, user Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:15 Page: ID:tX4pBQUOIaA01XWZVDP5pRzFcvT-a0azsmu CUxD Xlr4TfG9t6GXfQ?Yy2CW507GzFZzk



1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: $26-42=-8$, $1-25=-80$
Concentrated Loads (lb)
Vert: $5=-560$

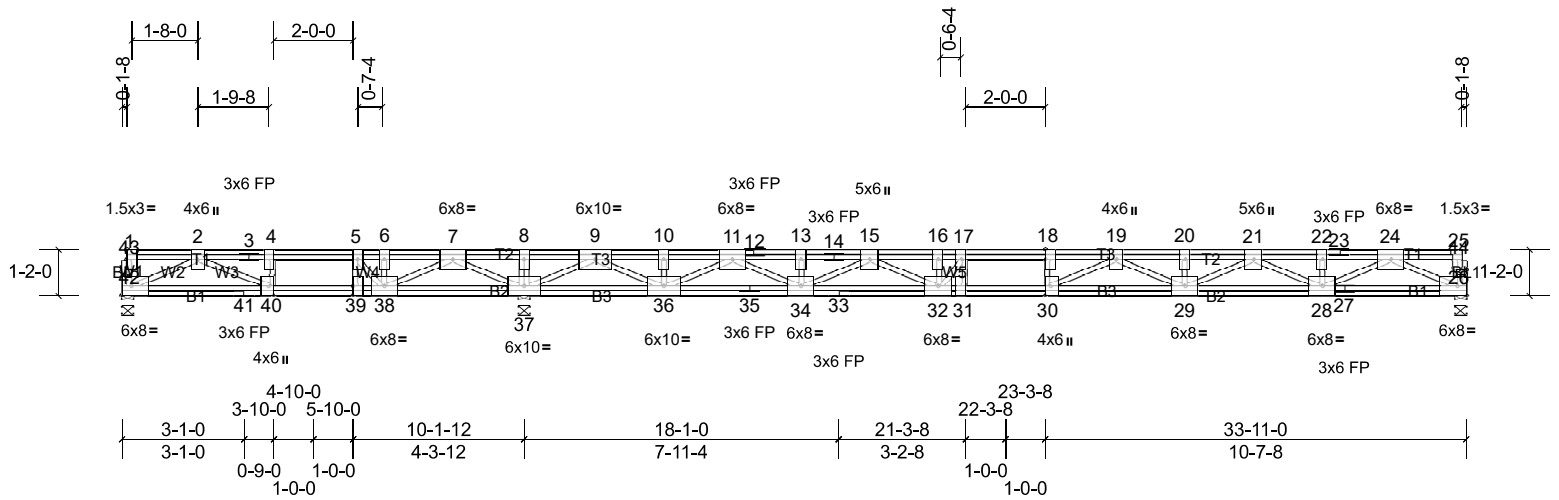
Job	Truss	Truss Type	Qty	Ply	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F108	Floor	7	1	Job Reference (optional)

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:16

Page: 1

ID: ?lrIL3QuiegaZwCoGNL9ebzFcvX-2C8L46uczo34c86yPo_upMQJLw0lk?cBQArZfizFZzj



Scale = 1:58.1

Plate Offsets (X, Y): [18:0-3-0,Edge], [30:0-3-0,Edge], [39:0-3-0,Edge], [40:0-3-0,Edge], [43:0-1-8,Edge], [44:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.37	30	>759	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.51	29-30	>556	240	
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.04	26	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 262 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) 26=873/0-3-8, (min. 0-1-8),
37=2027/0-3-8, (min. 0-1-8),
42=49/0-3-8, (min. 0-1-8)
Max Uplift 42=-247 (LC 4)
Max Grav 26=882 (LC 4), 37=2027 (LC 1),
42=310 (LC 3)

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

TOP CHORD 2-3=-522/1443, 3-4=-522/1443,
4-5=-522/1443, 5-6=-175/2283,
6-7=-175/2283, 7-8=0/4013, 8-9=0/4013,
9-10=-34/534, 10-11=-34/534, 11-12=-2742/0,
12-13=-2742/0, 13-14=-2742/0,
14-15=-2742/0, 15-16=-4295/0,
16-17=-4295/0, 17-18=-4660/0,
18-19=-4660/0, 19-20=-4328/0,
20-21=-4328/0, 21-22=-2732/0,
22-23=-2732/0, 23-24=-2732/0

BOT CHORD 41-42=-520/444, 40-41=-520/444,
39-40=-1443/522, 38-39=-1443/522,
37-38=-3036/0, 36-37=-1987/0,
35-36=0/1511, 34-35=0/1511, 33-34=0/3665,
32-33=0/3665, 31-32=0/4660, 30-31=0/4660,
29-30=0/4676, 28-29=0/3667, 27-28=0/1512,
26-27=0/1512

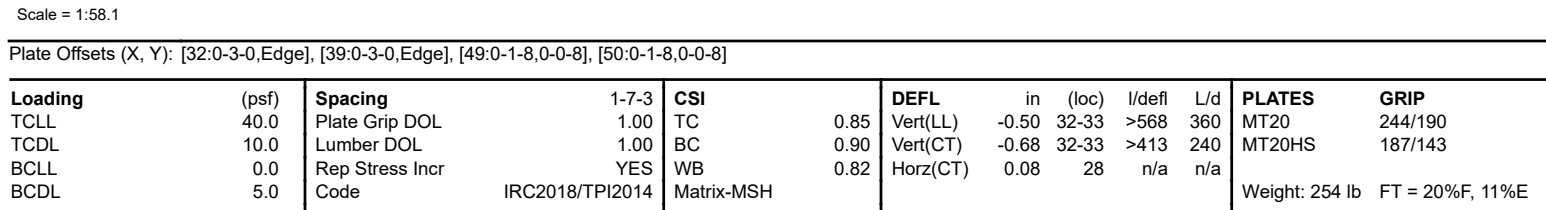
WEBS 4-40=-67/295, 5-39=0/533, 17-31=-65/330,
24-26=-1711/0, 24-28=0/1381,
21-28=-1059/0, 21-29=0/747, 19-29=-417/0,
19-30=-387/428, 9-37=-2288/0, 9-36=0/2040,
11-36=-1710/0, 11-34=0/1413,
15-34=-1065/0, 15-32=0/756,
16-32=-105/294, 17-32=-1041/0,
7-37=-1461/0, 7-38=0/1190, 6-38=0/418,
5-38=-1629/0, 2-42=-502/588, 2-40=-1030/87

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 42. This connection is for uplift only and does not consider lateral forces.
- 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) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.
- 7) Due to span to depth ratio of this truss, the floor may exhibit objectionable vibration and/or deflection. Building designer to consider providing means to dampen possible floor vibration.

LOAD CASE(S) Standard

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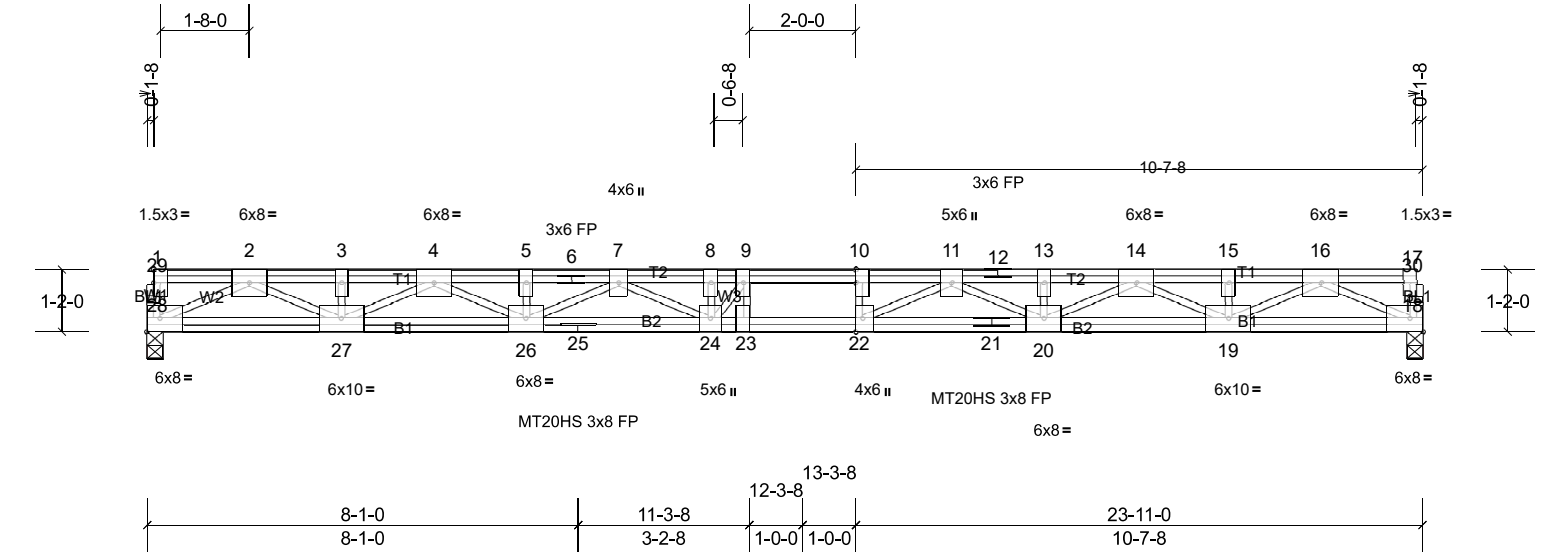


- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 o.c.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) except (jt=lb) 40=1101.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 48 and 42. This connection is for uplift only and does not consider lateral forces.
- 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) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 10) Required 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.
- 11) CAUTION, Do not erect truss backwards.
- 12) Due to span to depth ratio of this truss, the floor may exhibit objectionable vibration and/or deflection. Building designer to consider providing means to dampen possible floor vibration.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F110	Floor	3	1	Job Reference (optional)



Scale = 1:43.2

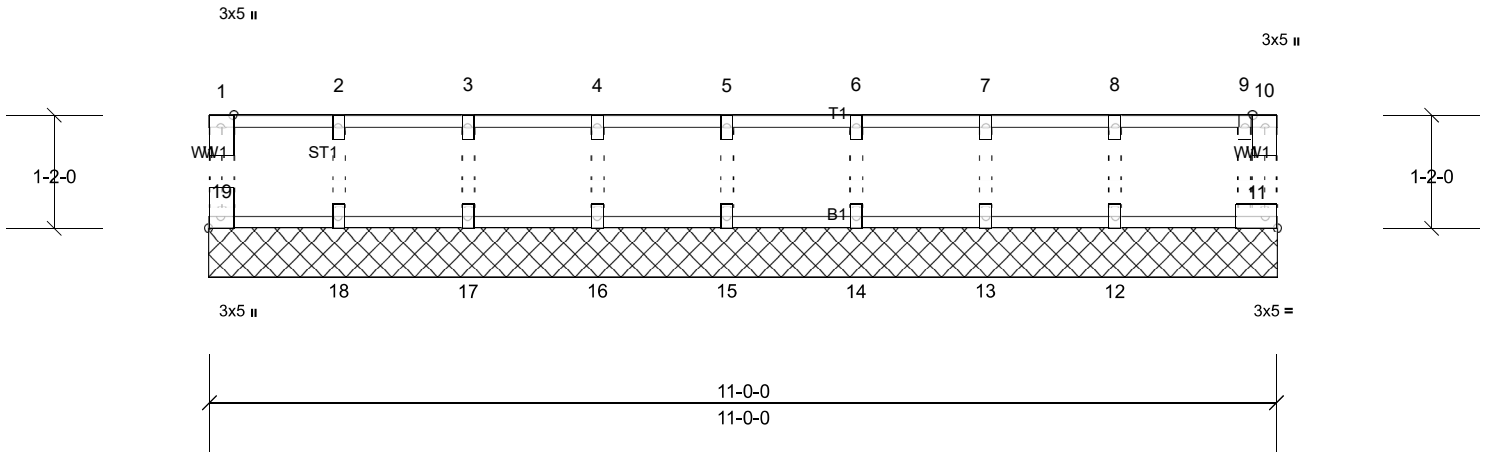
Plate Offsets (X, Y): [10:0-3-0,Edge], [22:0-3-0,Edge], [29:0-1-8,0-0-8], [30:0-1-8,0-0-8]												
Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.53	22-23	>529	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.73	22-23	>384	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.08	18	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
										Weight: 186 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" oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing, Except: 2'-2" oc bracing: 23-24,22-23.
- REACTIONS (lb/size)
- 18=1035/0-3-8, (min. 0-1-8), 28=1035/0-3-8, (min. 0-1-8)
- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-3303/0, 3-4=-3303/0, 4-5=-5455/0, 5-6=-5455/0, 6-7=-5455/0, 7-8=-6465/0, 8-9=-6465/0, 9-10=-6511/0, 10-11=-6511/0, 11-12=-5454/0, 12-13=-5454/0, 13-14=-5454/0, 14-15=-3304/0, 15-16=-3304/0
- BOT CHORD 27-28=0/1797, 26-27=0/4514, 25-26=0/6101, 24-25=0/6101, 23-24=0/6511, 22-23=0/6511, 21-22=0/6098, 20-21=0/6098, 19-20=0/4512, 18-19=0/1797
- WEBS 10-22=-264/0, 16-18=-2034/0, 16-19=0/1705, 14-19=-1368/0, 14-20=0/1066, 11-20=-729/0, 11-22=-59/831, 2-28=-2034/0, 2-27=0/1704, 4-27=-1371/0, 4-26=0/1065, 7-26=-732/0, 7-24=0/549, 9-24=-659/454

- 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 3x6 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) Required 2x6 strongbacks, on edge, spaced at 10'-0" 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	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F111	Floor Supported Gable	1	1	Job Reference (optional)



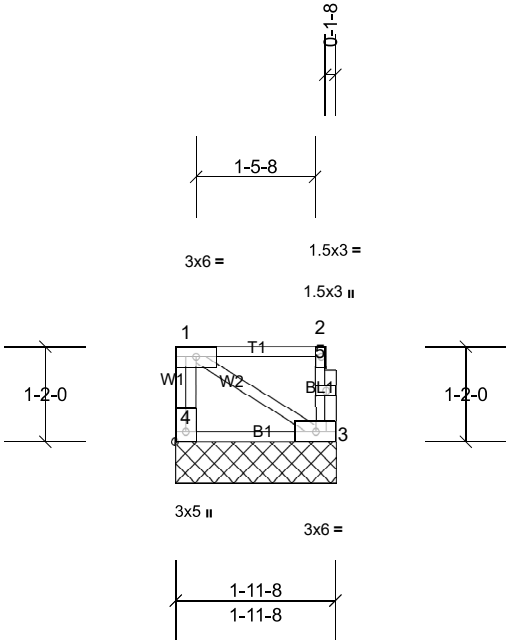
Scale = 1:23.8

Plate Offsets (X, Y): [19:Edge,0-1-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	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	NO	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 49 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 11-0-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint
(s) 11, 12, 13, 14, 15, 16, 17, 18, 19
- 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	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F112	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:28.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	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	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 13 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 1-11-8 oc purlins, except end verticals.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

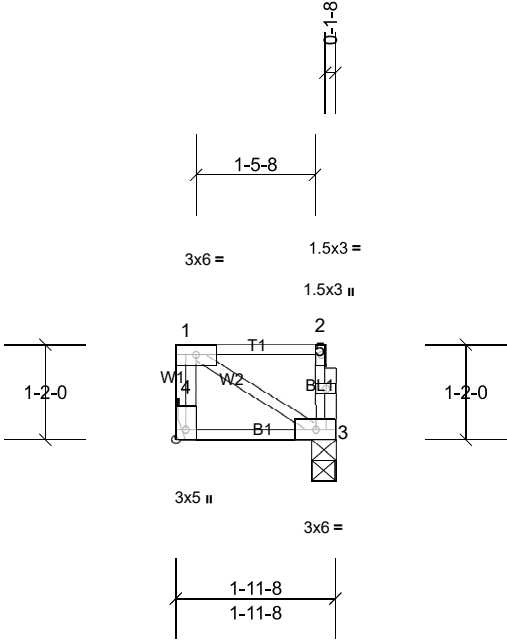
REACTIONS (lb/size) 3=88/1-11-8, (min. 0-1-8), 4=94/1-11-8, (min. 0-1-8)

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

- NOTES**
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F113	Floor	1	1	Job Reference (optional)



Scale = 1:28.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 13 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 1-11-8 oc purlins, except end verticals.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

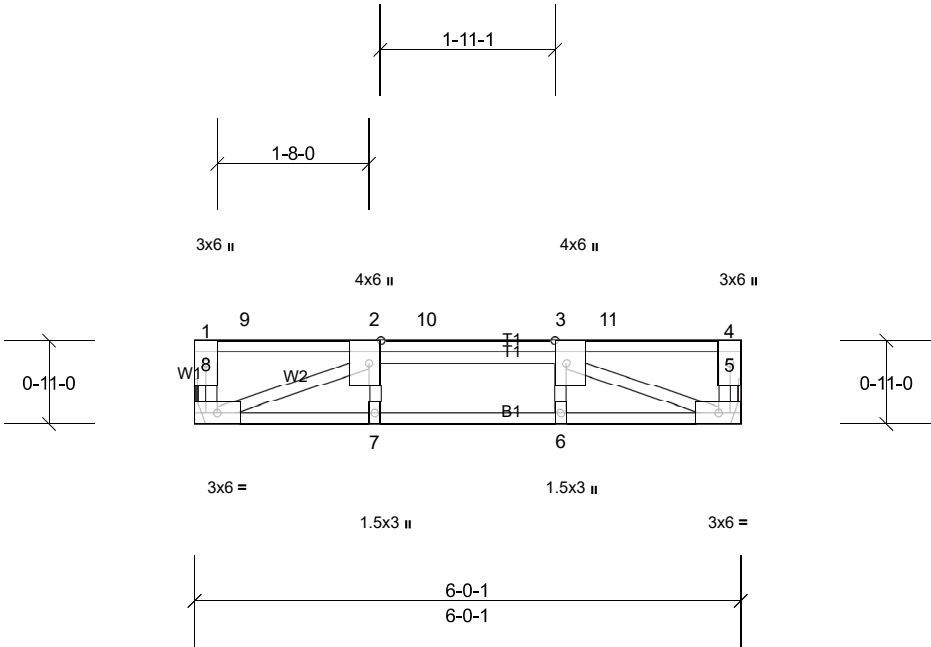
REACTIONS (lb/size) 3=88/0-3-8, (min. 0-1-8), 4=94/Mechanical, (min. 0-1-8)

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

- NOTES**
- Refer to girder(s) for truss to truss connections.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lincoln A GRH-2nd Floor-Lincoln A GRH
24050001-B	F114	Floor Girder	1	1	Job Reference (optional)



Scale = 1:25.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.04	7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 37 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)

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=528/ Mechanical, (min. 0-1-8), 8=594/ Mechanical, (min. 0-1-8)

Max Grav 5=640 (LC 4), 8=692 (LC 3)

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

TOP CHORD 1-8=-283/0, 2-10=-1016/0, 3-10=-1016/0

BOT CHORD 7-8=0/1016, 6-7=0/1016, 5-6=0/1016

WEBS 3-5=-1091/0, 2-8=-1091/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 5-8=-10, 1-4=-100

Concentrated Loads (lb)

Vert: 4=-27, 2=-2, 9=-173, 10=-144, 11=-144