ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Q2200848
Garman Homes - Forget Me Not A Floor

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC.

Pages or sheets covered by this seal: I54399919 thru I54399930

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

September 26,2022

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F202	Floor	3	1	I54399919
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:34 Page: 1

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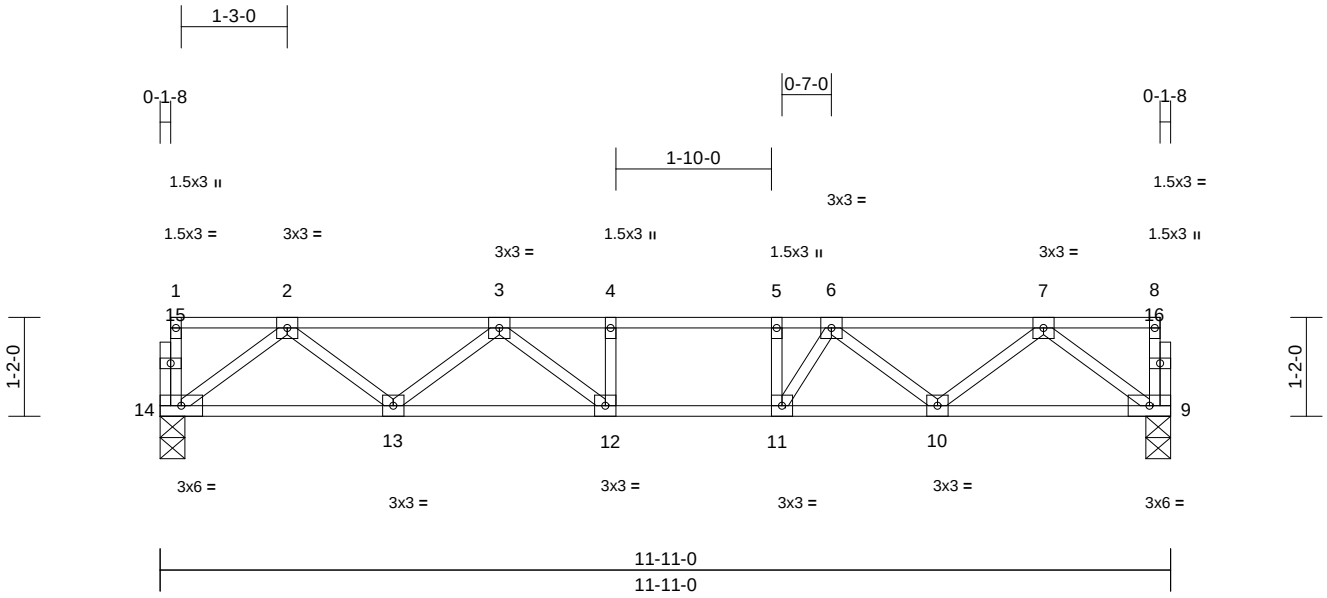

Scale = 1:27.2

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.10	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 60 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 (size) 9=0-3-8, 14=0-3-8
Max Grav 9=508 (LC 1), 14=508 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-29/0, 8-9=-28/0, 1-2=-2/0, 2-3=-978/0, 3-4=-1406/0, 4-5=-1406/0, 5-6=-1406/0, 6-7=-972/0, 7-8=-2/0
BOT CHORD 13-14=0/625, 12-13=0/1296, 11-12=0/1406, 10-11=0/1306, 9-10=0/623
WEBS 7-9=-780/0, 2-14=-782/0, 7-10=0/454, 2-13=0/460, 6-10=-434/0, 3-13=-414/0, 3-12=-9/305, 4-12=-147/0, 5-11=-253/0, 6-11=-12/376

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F203	Floor	2	1	I54399920
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:36 Page: 1
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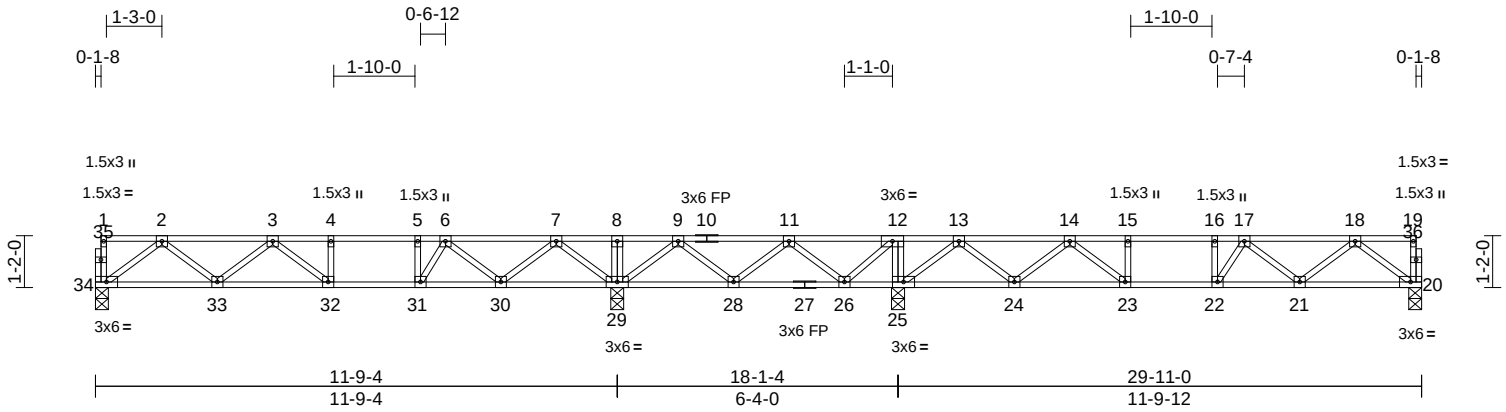

Scale = 1:52

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.07	32-33	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	32-33	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 151 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 (size) 20=0-3-8, 25=0-3-8, 29=0-3-8, 34=0-3-8
Max Grav 20=446 (LC 5), 25=968 (LC 4), 29=909 (LC 3), 34=461 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-34=-29/0, 19-20=-28/0, 1-2=-2/0, 2-3=-866/0, 3-4=-1132/0, 4-5=-1132/0, 5-6=-1132/0, 6-7=-565/0, 7-8=0/617, 8-9=0/617, 9-11=-142/482, 11-12=0/598, 12-13=0/769, 13-14=-426/0, 14-15=-1076/0, 15-16=-1076/0, 16-17=-1076/0, 17-18=-823/0, 18-19=-2/0
BOT CHORD 33-34=0/564, 32-33=0/1121, 31-32=0/1132, 30-31=0/968, 29-30=-33/171, 28-29=-472/77, 26-28=-515/183, 25-26=-769/0, 24-25=-157/18, 23-24=0/831, 22-23=0/1076, 21-22=0/1065, 20-21=0/543
WEBS 8-29=-75/0, 12-25=-424/0, 2-34=-705/0, 7-29=-853/0, 2-33=0/393, 7-30=0/528, 3-33=-332/0, 6-30=-544/0, 3-32=-69/151, 4-32=-84/8, 18-20=-679/0, 13-25=-873/0, 18-21=0/364, 13-24=0/561, 17-21=-316/0, 14-24=-547/0, 14-23=0/387, 15-23=-179/0, 5-31=-295/0, 6-31=0/440, 16-22=-130/42, 17-22=-93/178, 9-29=-476/0, 9-28=-62/193, 11-28=-165/93, 11-26=-423/0, 12-26=0/426

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F204	Floor	1	1	I54399921
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:36 Page: 1

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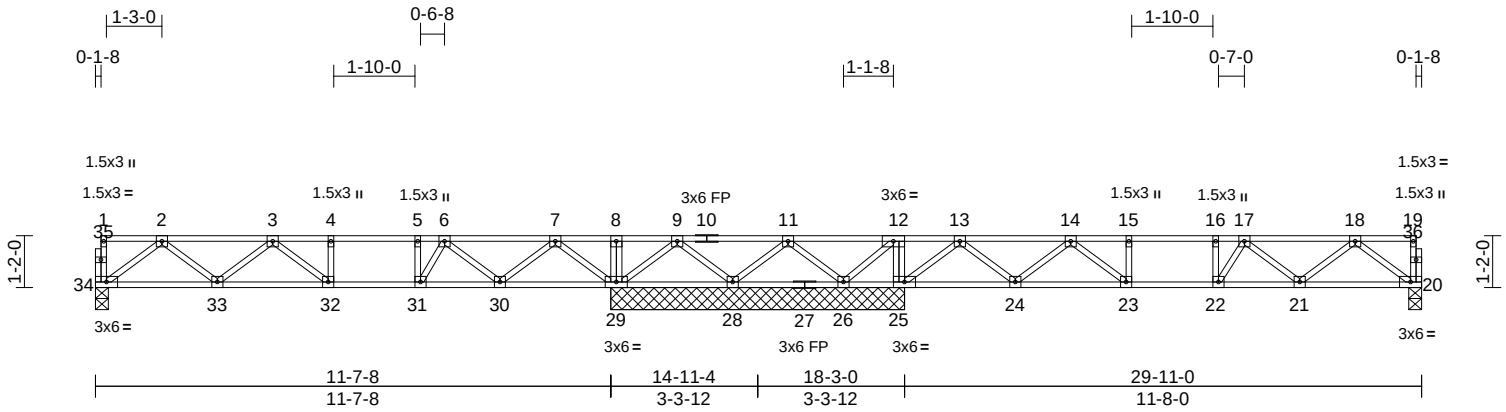

Scale = 1:52

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.07	32-33	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	32-33	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 151 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 (size) 20=0-3-8, 25=6-7-8, 26=6-7-8, 28=6-7-8, 29=6-7-8, 34=0-3-8
Max Uplift 26=-225 (LC 4), 28=-89 (LC 4)
Max Grav 20=437 (LC 4), 25=1028 (LC 7), 26=56 (LC 3), 28=67 (LC 7), 29=877 (LC 3), 34=452 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-34=-29/0, 19-20=-28/0, 1-2=-2/0, 2-3=-844/0, 3-4=-1080/0, 4-5=-1080/0, 5-6=-1080/0, 6-7=-492/0, 7-8=0/645, 8-9=0/645, 9-11=0/171, 11-12=0/386, 12-13=0/804, 13-14=-348/0, 14-15=-1025/0, 15-16=-1025/0, 16-17=-1025/0, 17-18=-800/0, 18-19=-2/0

BOT CHORD 33-34=0/552, 32-33=0/1087, 31-32=0/1080, 30-31=0/907, 29-30=-56/135, 28-29=-293/0, 26-28=-184/0, 25-26=-804/0, 24-25=-191/24, 23-24=0/764, 22-23=0/1025, 21-22=0/1029, 20-21=0/531

WEBS 8-29=-76/0, 2-34=-691/0, 7-29=-850/0, 2-33=0/380, 7-30=0/525, 3-33=-316/0, 6-30=-541/0, 3-32=-70/142, 4-32=-80/3, 5-31=-300/0, 6-31=0/443, 12-25=-498/0, 18-20=-663/0, 13-25=-883/0, 18-21=0/350, 13-24=0/560, 17-21=-298/0, 14-24=-546/0, 14-23=0/383, 15-23=-177/0, 16-22=-126/44, 17-22=-93/169, 9-29=-441/0, 9-28=-69/159, 11-28=-172/147, 11-26=-326/0, 12-26=0/570

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 28 and 225 lb uplift at joint 26.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F205	Floor	3	1	I54399922
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:37 Page: 1

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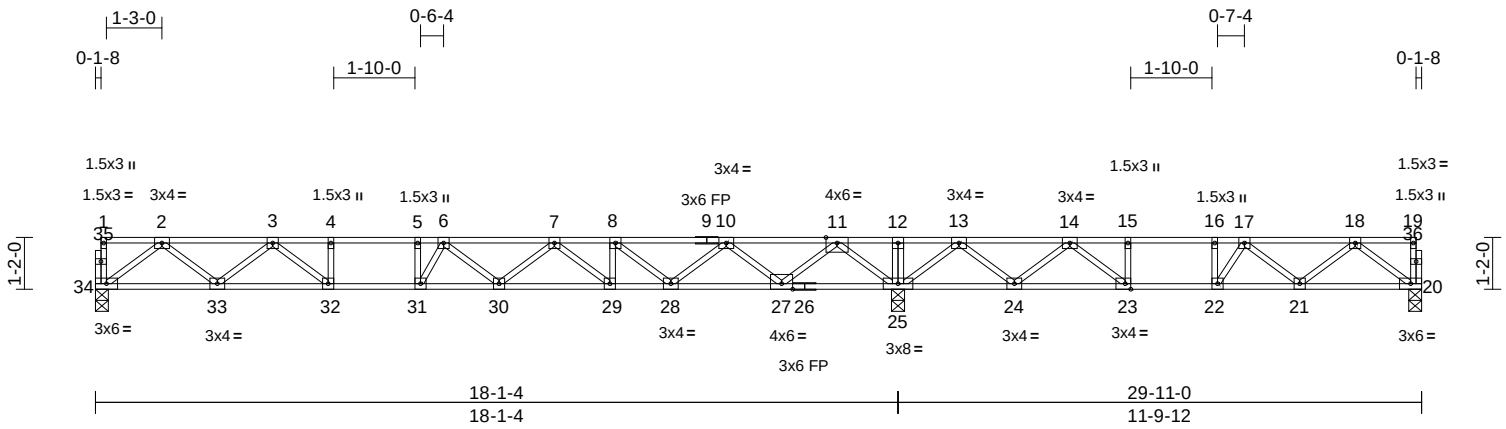

Scale = 1:52

Plate Offsets (X, Y): [23:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.25	30-31	>877	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.33	30-31	>662	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	25	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 150 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.1(flat) *Except* 26-20:2x4 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 (size) 20=0-3-8, 25=0-3-8, 34=0-3-8

Max Uplift 20=-30 (LC 3)

Max Grav 20=423 (LC 4), 25=1636 (LC 1), 34=676 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-34=-27/0, 19-20=-30/0, 1-2=-2/0, 2-3=-1379/0, 3-4=-2384/0, 4-5=-2384/0, 5-6=-2384/0, 6-7=-2446/0, 7-8=-1936/0, 8-10=-1398/0, 10-11=-61/370, 11-12=0/2233, 12-13=0/2233, 13-14=-224/1213, 14-15=-953/516, 15-16=-953/516, 16-17=-953/516, 17-18=-768/135, 18-19=-2/0

BOT CHORD 33-34=0/843, 32-33=0/1925, 31-32=0/2384, 30-31=0/2526, 29-30=0/2285, 28-29=0/1936, 27-28=-120/861, 25-27=-1097/0, 24-25=-1499/0, 23-24=-907/660, 22-23=-516/953, 21-22=-298/977, 20-21=-54/513

WEBS 12-25=-82/0, 18-20=-642/68, 13-25=-1086/0, 18-21=-106/331, 13-24=0/736, 17-21=-272/212, 14-24=-769/0, 14-23=0/776, 15-23=-339/0, 2-34=-1056/0, 11-25=-1426/0, 2-33=0/698, 11-27=0/1098, 3-33=-710/0, 10-27=-1075/0, 3-32=0/643, 10-28=0/733, 8-28=-721/0, 8-29=0/301, 7-29=-479/0, 4-32=-277/0, 7-30=0/266, 6-30=-252/0, 5-31=-165/225, 6-31=-385/229, 16-22=0/281, 17-22=-487/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 20.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F206	Floor	1	1	I54399923
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:37 Page: 1
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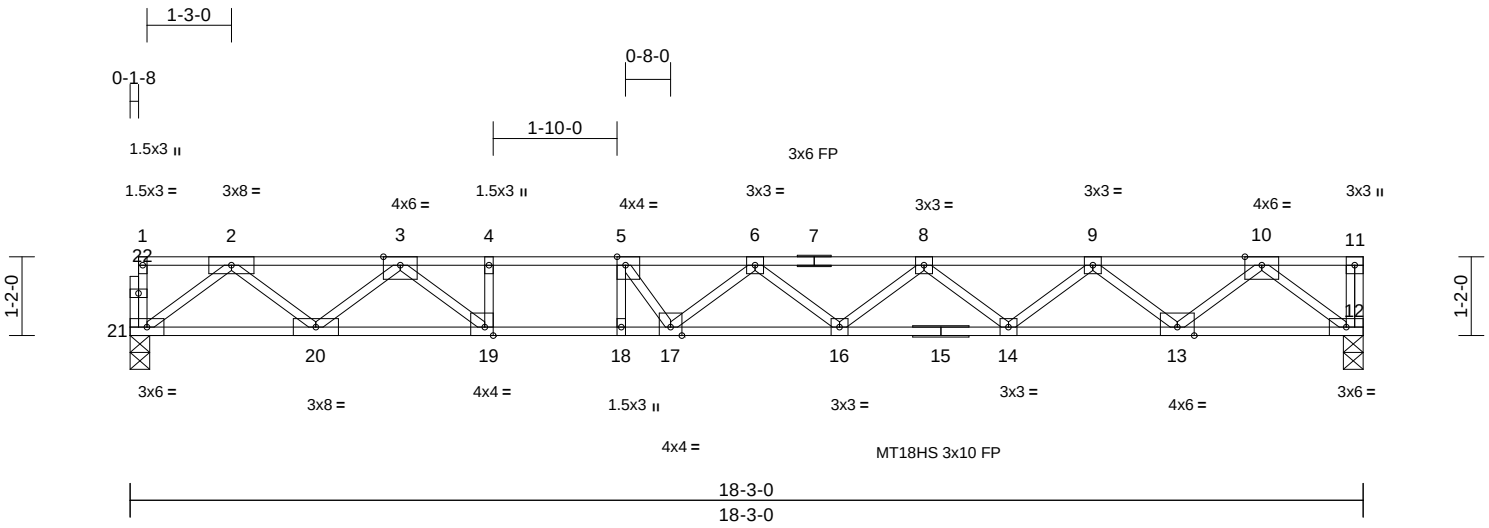

Scale = 1:34.1

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	0.61	Vert(LL)	-0.37	17-18	>583	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.51	17-18	>425	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP DSS(flat) *Except* 7-11:2x4 SP No.2 (flat)
BOT CHORD 2x4 SP DSS(flat) *Except* 15-12:2x4 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 5-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 12=0-3-8, 21=0-3-8
Max Grav 12=990 (LC 1), 21=984 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-33/1, 11-12=-42/0, 1-2=-2/0, 2-3=-2052/0, 3-4=-3792/0, 4-5=-3792/0, 5-6=-4130/0, 6-8=-4138/0, 8-9=-3446/0, 9-10=-2097/0, 10-11=0/0
BOT CHORD 20-21=0/1231, 19-20=0/2929, 18-19=0/3792, 17-18=0/3792, 16-17=0/4332, 14-16=0/3932, 13-14=0/2928, 12-13=0/1234
WEBS 10-12=-1548/0, 2-21=-1543/0, 10-13=0/1124, 2-20=0/1069, 9-13=-1081/0, 3-20=-1142/0, 9-14=0/675, 3-19=0/1219, 8-14=-632/0, 8-16=0/268, 6-16=-252/0, 4-19=-468/0, 5-18=-521/0, 6-17=-378/145, 5-17=-34/746

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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F207	Floor	7	1	I54399924
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:38 Page: 1
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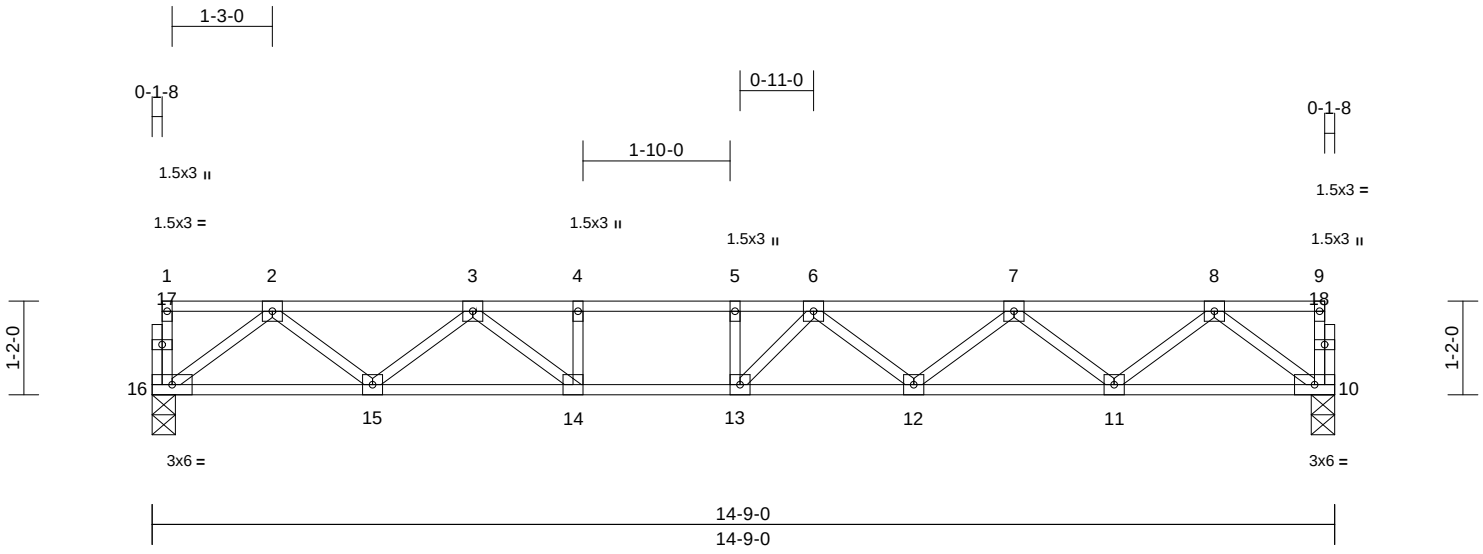

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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.16	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.22	12-13	>777	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 74 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 (size) 10=0-3-8, 16=0-3-8
Max Grav 10=633 (LC 1), 16=633 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-27/0, 9-10=-30/0, 1-2=-2/0, 2-3=-1276/0, 3-4=-2123/0, 4-5=-2135/0, 5-6=-2135/0, 6-7=-2011/0, 7-8=-1289/0, 8-9=-2/0
BOT CHORD 15-16=0/787, 14-15=0/1762, 13-14=0/2135, 12-13=0/2194, 11-12=0/1775, 10-11=0/783
WEBS 8-10=-980/0, 2-16=-986/0, 8-11=0/659, 2-15=0/636, 7-11=-632/0, 3-15=-633/0, 7-12=0/307, 3-14=0/596, 6-12=-242/0, 4-14=-275/0, 5-13=-134/100, 6-13=-244/225

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

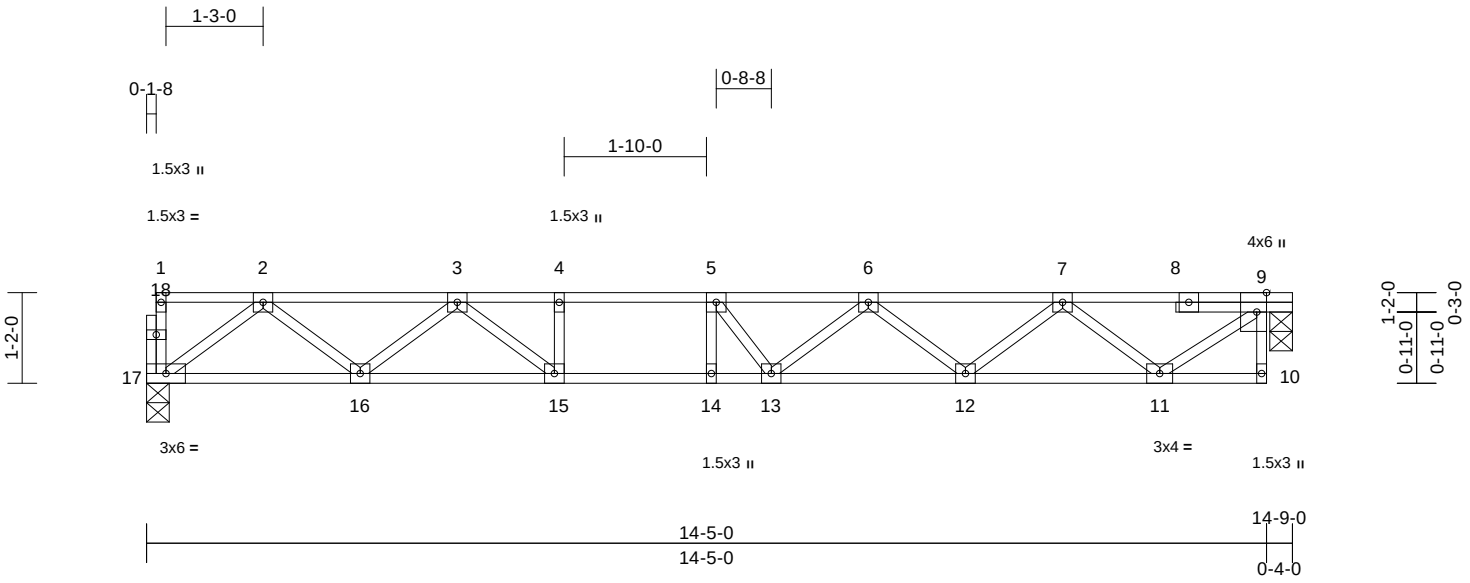
LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F208	Floor	2	1	I54399925
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:38 Page: 1
ID:R4kjJJ6pLU_OEN4A3w0iv7zEihl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.7

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.14	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.20	13-14	>866	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 74 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:
2-2-0 oc bracing: 14-15.

REACTIONS (size) 9=0-3-8, 17=0-3-8
Max Grav 9=626 (LC 1), 17=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-27/0, 9-10=0/4, 1-2=-2/0, 2-3=-1247/0, 3-4=-2067/0, 4-5=-2067/0, 5-6=-2081/0, 6-7=-1652/0, 7-9=-698/0
BOT CHORD 16-17=0/771, 15-16=0/1720, 14-15=0/2067, 13-14=0/2067, 12-13=0/1992, 11-12=0/1294, 10-11=0/0
WEBS 9-11=0/866, 2-17=-965/0, 7-11=-780/0, 2-16=0/619, 7-12=0/467, 3-16=-616/0, 6-12=-442/0, 3-15=0/570, 6-13=0/250, 4-15=-231/0, 5-14=-195/49, 5-13=-214/183

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

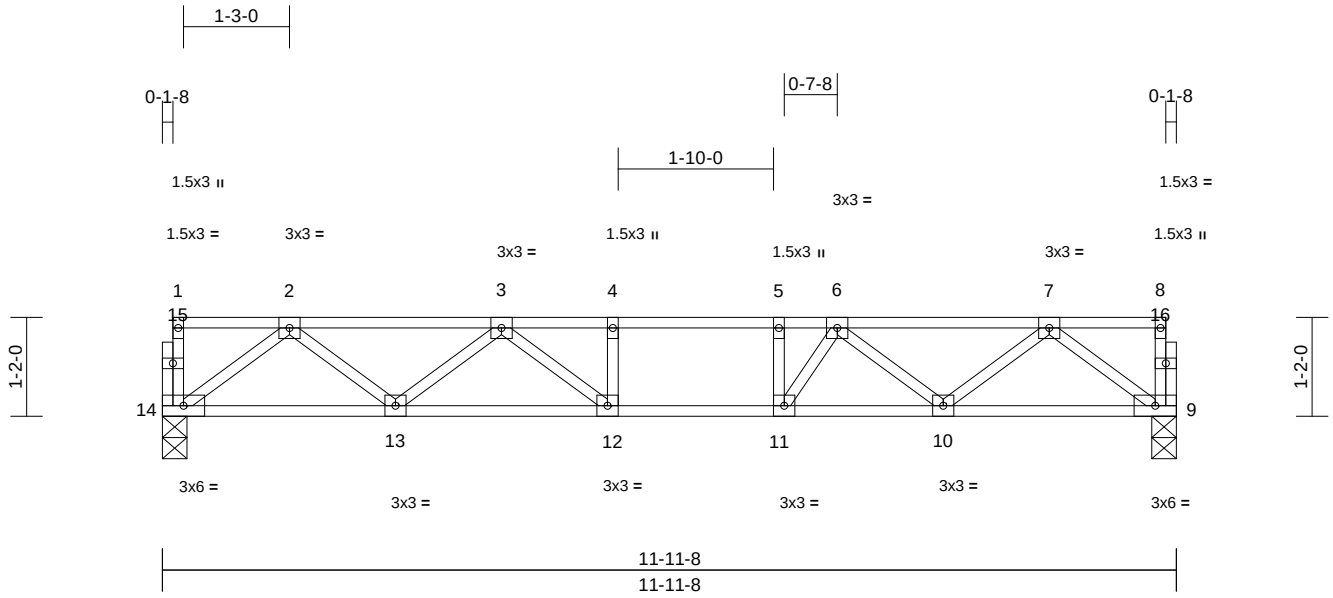
September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F209	Floor	8	1	I54399926
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247,

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:38 ID:HxMFFUECuY9QLQX?NuAz2EzEif?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:27.2

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.10	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 61 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 (size) 9=0-3-8, 14=0-3-8
Max Grav 9=510 (LC 1), 14=510 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-29/0, 8-9=-28/0, 1-2=-2/0, 2-3=-983/0, 3-4=-1417/0, 4-5=-1417/0, 5-6=-1417/0, 6-7=-977/0, 7-8=-2/0
BOT CHORD 13-14=0/628, 12-13=0/1303, 11-12=0/1417, 10-11=0/1311, 9-10=0/626
WEBS 7-9=-783/0, 2-14=-785/0, 7-10=0/457, 2-13=0/462, 6-10=-436/0, 3-13=-417/0, 3-12=-7/309, 4-12=-149/0, 5-11=-244/0, 6-11=-9/372

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

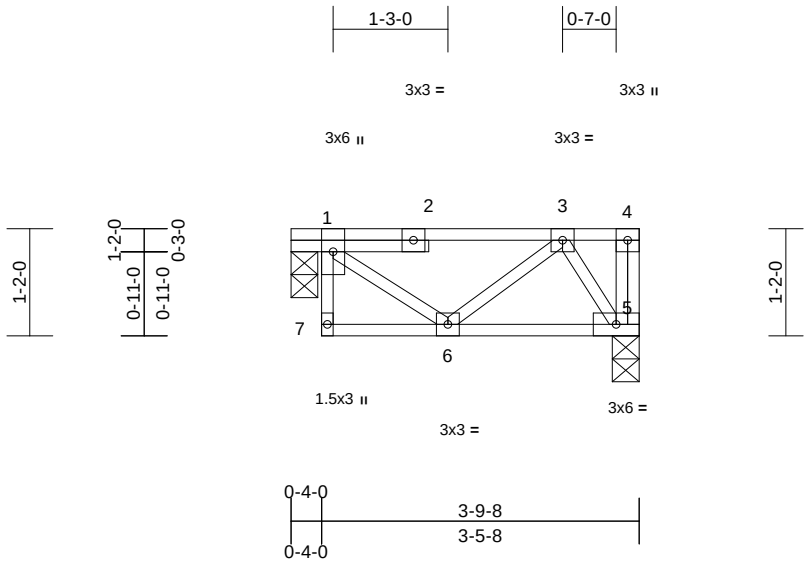
September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F210	Floor	1	1	I54399927
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:38 Page: 1

ID:PiAbYlb1qmxAy1qm7Bi?GZzEieX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:25.1

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	0.35	Vert(LL)	0.00	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	0.00	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 23 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 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 5=0-3-8
Max Grav 1=180 (LC 1), 5=180 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-7=0/4, 4-5=0/42, 1-3=-95/0, 3-4=0/0
BOT CHORD 6-7=0/0, 5-6=0/146
WEBS 1-6=0/113, 3-6=-72/0, 3-5=-259/0

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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

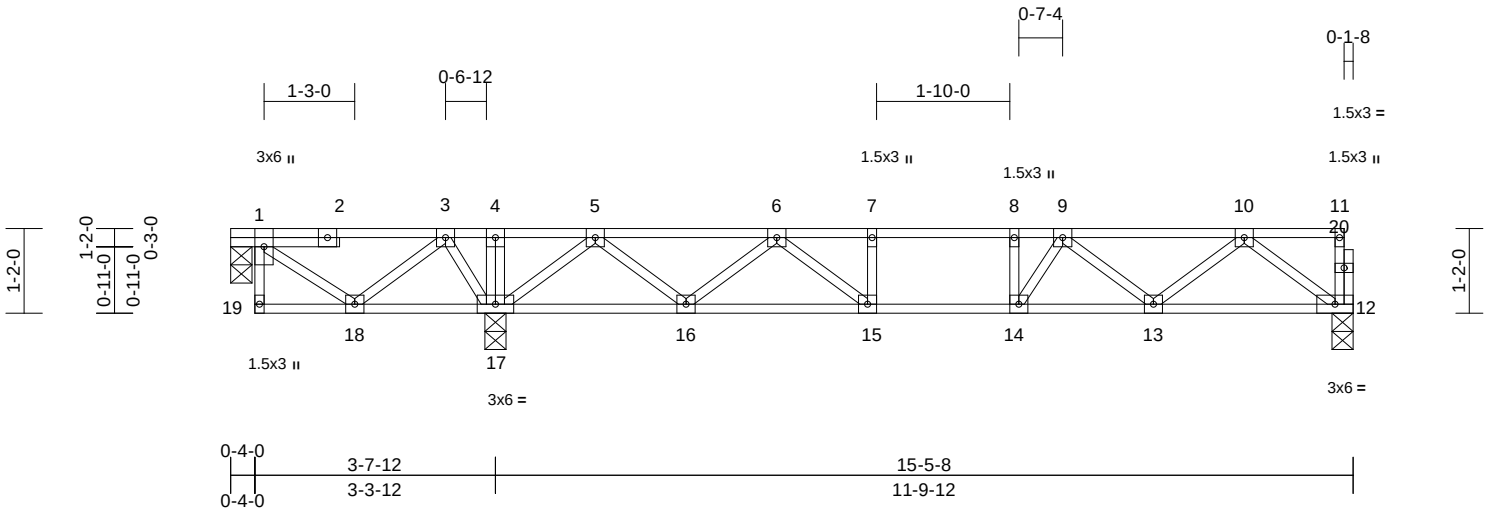
September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F211	Floor	1	1	I54399928
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:39 Page: 1

ID:iKdgbyu4A8ymqjfNXD8eEdzEie9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:31.7

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.05	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.07	13-14	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 80 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: 17-18,16-17.

REACTIONS (size) 1=0-3-8, 12=0-3-8, 17=0-3-8
Max Uplift 1=-212 (LC 4)
Max Grav 1=75 (LC 3), 12=439 (LC 1), 17=978 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-19=0/4, 11-12=-28/0, 1-3=0/299, 3-4=0/807, 4-5=0/807, 5-6=-358/0, 6-7=-1034/0, 7-8=-1034/0, 8-9=-1034/0, 9-10=-804/0, 10-11=-2/0
BOT CHORD 18-19=0/0, 17-18=-579/0, 16-17=-170/44, 15-16=0/773, 14-15=0/1034, 13-14=0/1035, 12-13=0/533
WEBS 4-17=-25/45, 10-12=-667/0, 5-17=-889/0, 10-13=0/353, 5-16=0/556, 9-13=-301/0, 6-16=-541/0, 6-15=0/384, 7-15=-179/0, 8-14=-127/38, 9-14=-87/173, 1-18=-373/0, 3-18=0/364, 3-17=-527/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 1.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

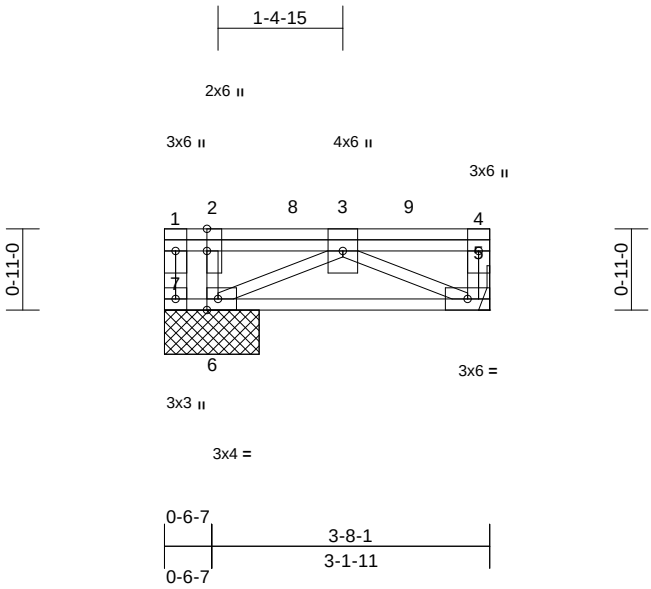
LOAD CASE(S) Standard

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	F212	Floor Girder	1	1	I54399929
					Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:22:39 Page: 1
ID:PnHIq?QgpgVW6U1q6Twy0vzEidT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:26

Plate Offsets (X, Y): [2:0-3-0,Edge], [6:0-1-8,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	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							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.2(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5= Mechanical, 6=1-0-13, 7=1-0-13
Max Uplift 7=-313 (LC 7)
Max Grav 5=879 (LC 7), 6=1252 (LC 7), 7=-274 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=0/291, 4-5=-331/0, 1-2=0/0, 2-3=0/0, 3-4=0/0
BOT CHORD 6-7=0/0, 5-6=0/1128
WEBS 2-6=-649/0, 3-6=-1258/0, 3-5=-1249/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 7.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 5 lb up at 2-9-2 on top chord. The design/ selection of such connection device(s) is the responsibility of others.

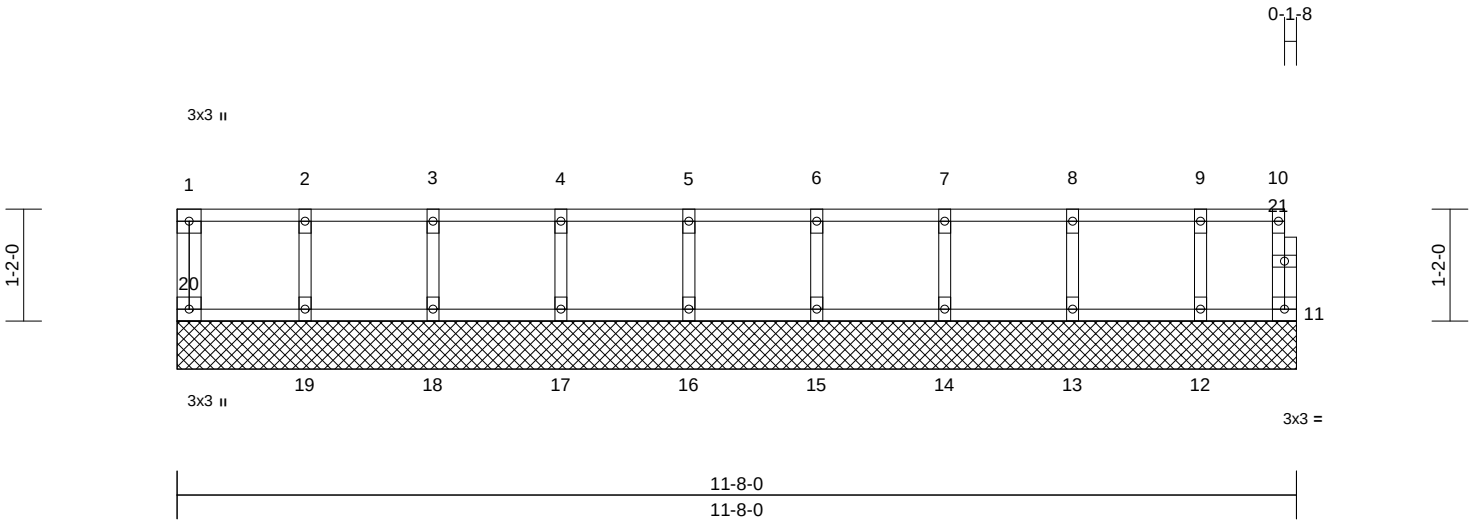
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-7=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 3=-80, 8=-546, 9=-557

September 26,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Floor
Q2200848	K209	Floor Supported Gable	2	1	I54399930 Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Sep 26 14:40:48 Page: 1
ID:q9cWwebUrE1rN_rC9qJAGjzEjvt-zWIsswNyDxMudWYr26CSCSWE?AECg7u7FtUg3eyZk5_



Scale = 1:24

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	0.90	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Plate Metal DOL	0.90	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Lumber DOL	0.90	WB	0.03	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Rep Stress Incr	YES	Matrix-R								
		Code	IRC2015/TPI2014								Weight: 51 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) *Except* 11-21:2x4 SP No.2(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 11-8-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

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

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

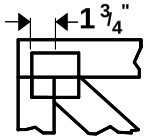
LOAD CASE(S) Standard

September 26,2022

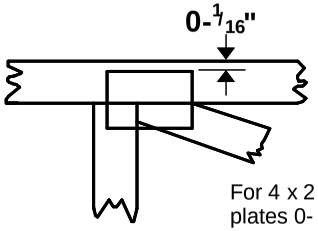
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

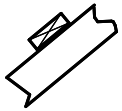
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

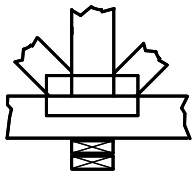
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

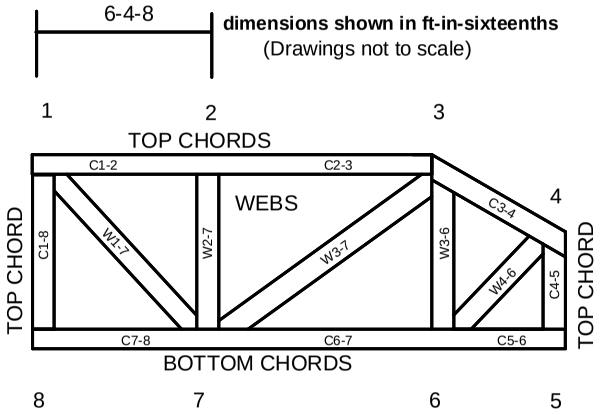


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek
ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.