

Products				
PlotID	Length	Product	Plies	Net Qty
DBM4	12' 0"	1-3/4X11-7/8 LP-LVL 2900Fb-2.0E	2	2
FBM3	12' 0"	1-3/4X14 LP-LVL 2900Fb-2.0E	2	2
DBM7	7' 0"	1-3/4X14 LP-LVL 2900Fb-2.0E	2	2
BFBM19	19' 0"	1-3/4X18 LP-LVL 2900Fb-2.0E	2	2

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HU414	1
Simpson	LUS410	1

EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING.
SHEATHING IS FLUSH TO FACE OF FOUNDATION.

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.



APPROVED BY: _____ DATE: _____
REVIEWED BY: _____

Job #: Q2200848	FORGET ME NOT	Plan: ELEVATION A FLOOR	Roof Area: 1685.12 SF
Customer: GARMAN HOMES		Date: 2/23/2023	
Site Address:		Sales Rep: RW	
City, ST, ZIP:		Designer: JSP	

Carolina Structural Systems
Roof Trusses • Floor Trusses • EWP
Carolina Structural Systems
P.O. Box 157, Ether, NC 27247
225 Frame Shop Rd., Star, NC 27356
910-491-9004

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: I56813350 thru I56813362

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 23, 2023

Gilbert, Eric

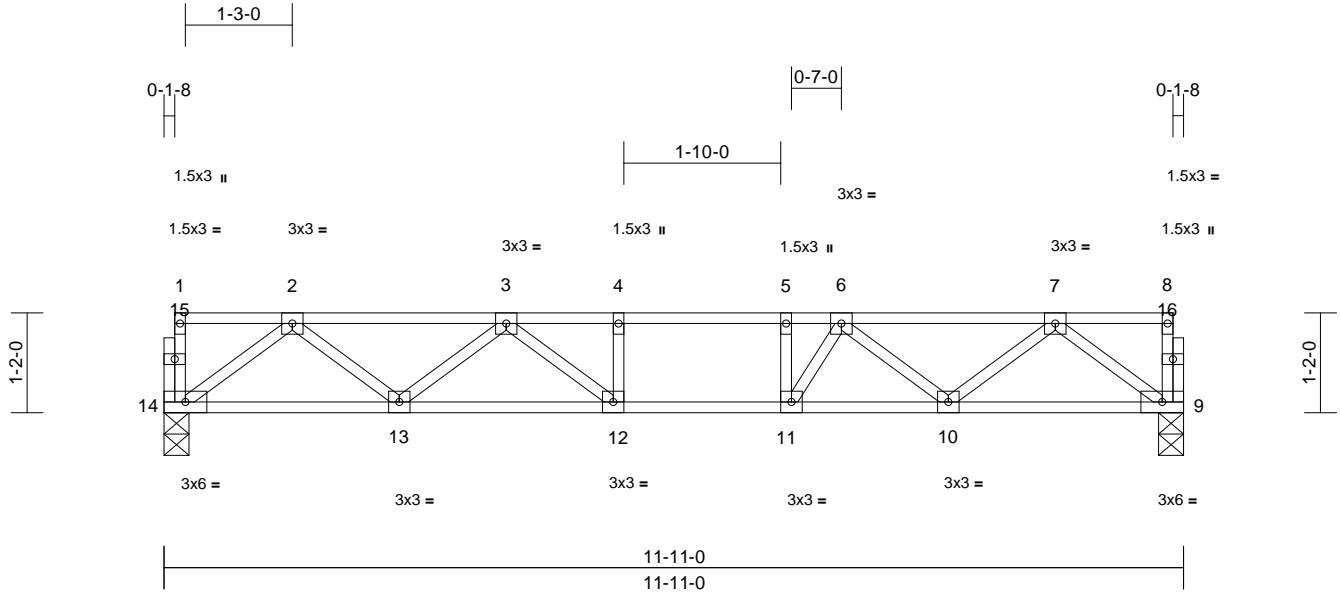
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 Q2200848	Truss F202	Truss Type Floor	Qty 3	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813350
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1



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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	0.39	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



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



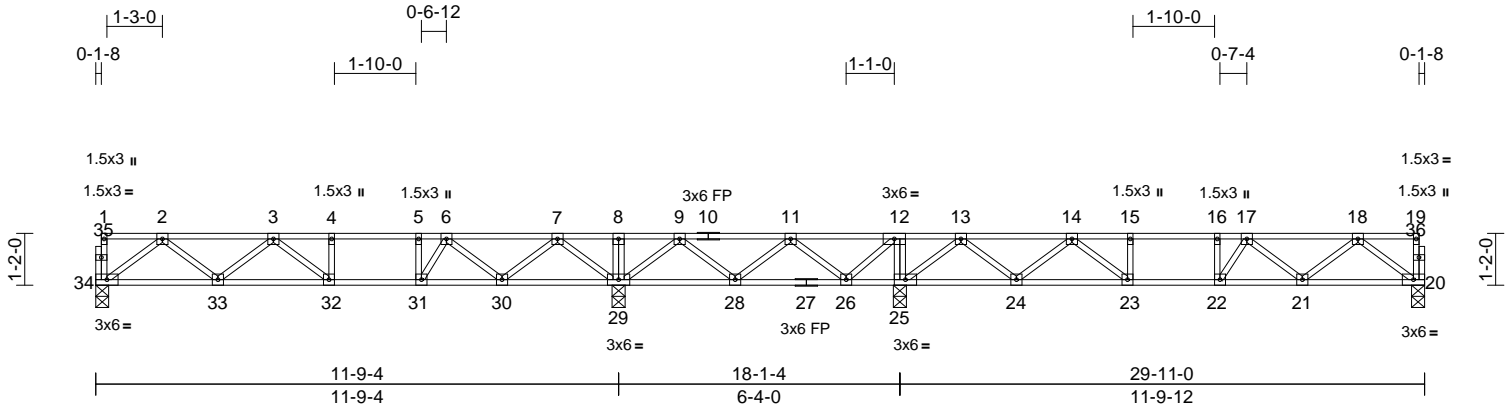
818 Soundside Road
 Edenton, NC 27932

Job Q2200848	Truss F203	Truss Type Floor	Qty 2	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813351
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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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	0.46	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)

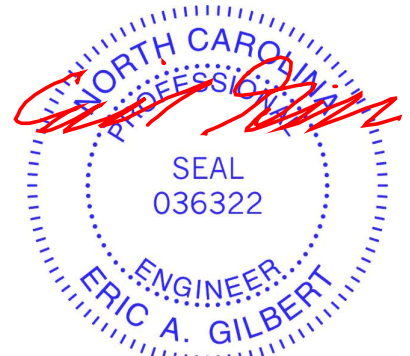
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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.

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



February 23, 2023

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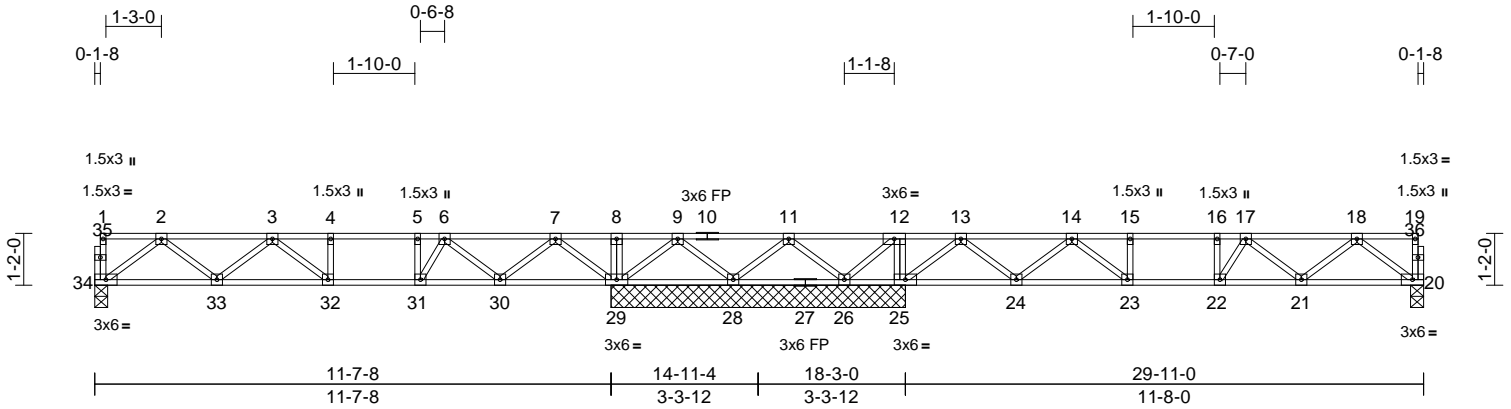
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F204	Truss Type Floor	Qty 1	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813352
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1



Scale = 1:51.9

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

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



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



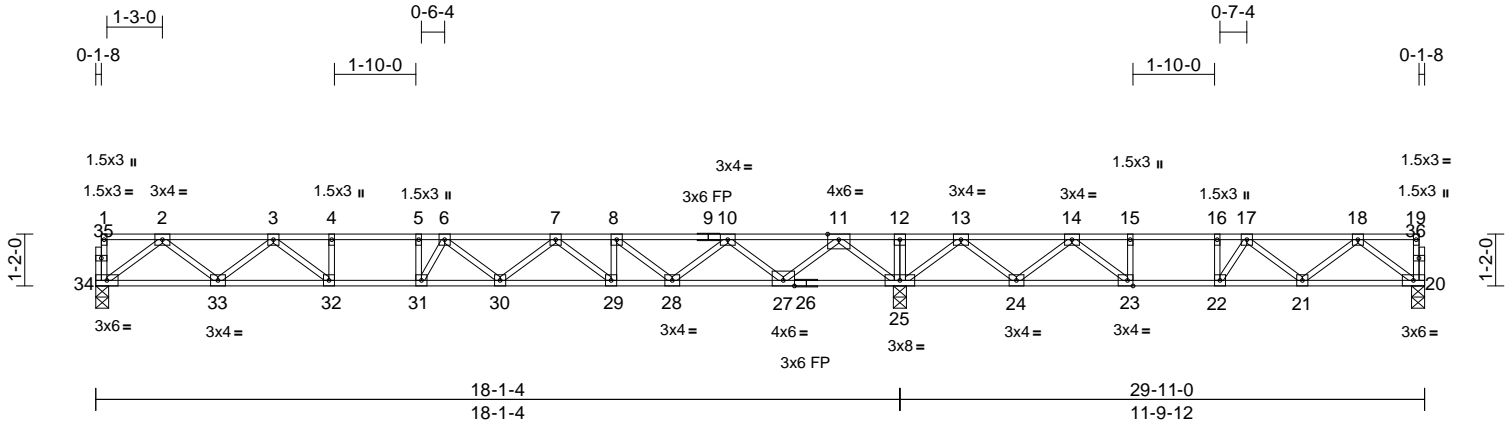
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F205	Truss Type Floor	Qty 3	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813353
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1



Scale = 1:51.9
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)

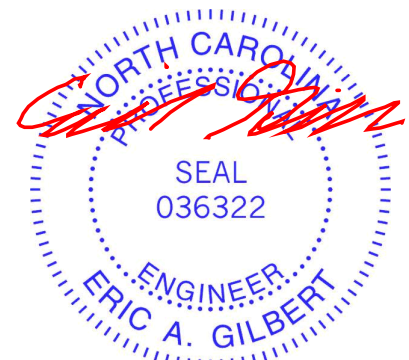
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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, 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



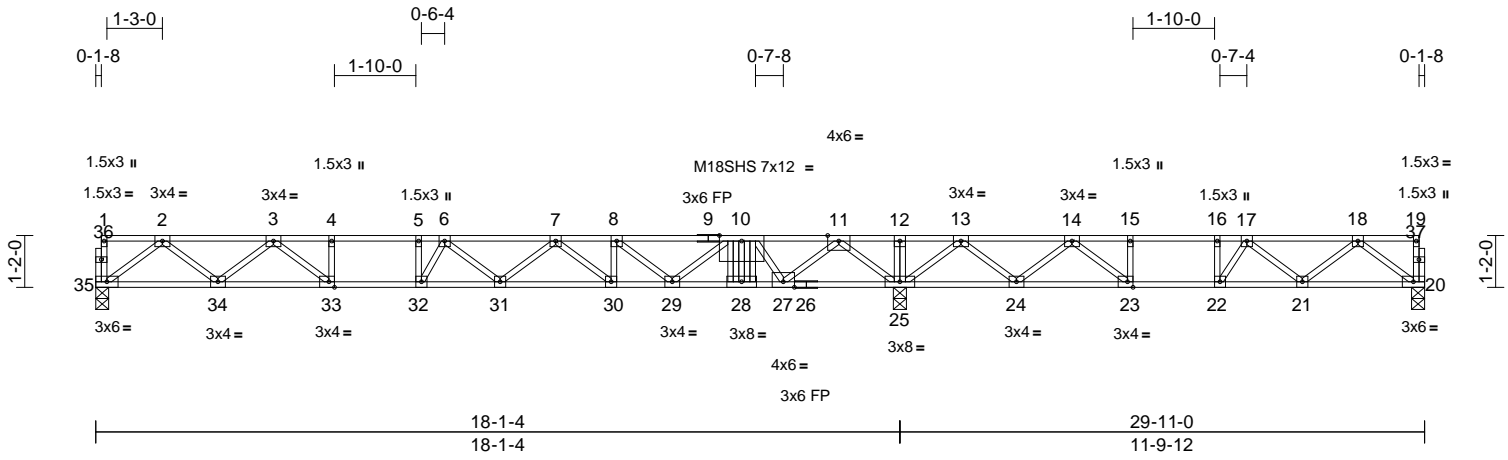
February 23, 2023

Job Q2200848	Truss F205A	Truss Type Floor Girder	Qty 1	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813354
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:36
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Plate Offsets (X, Y): [23:0-1-8,Edge], [33:0-1-8,Edge]

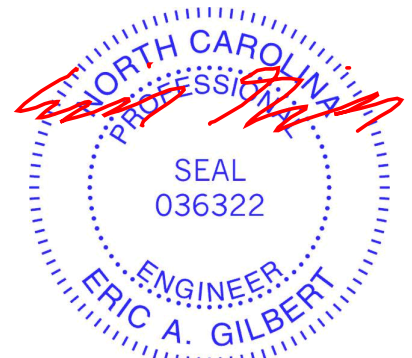
Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.27	31-32	>803	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.36	31-32	>606	240	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.04	25	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S								
											Weight: 156 lb	FT = 20%F, 11%E

LUMBER	WEBS
TOP CHORD 2x4 SP No.2(flat)	12-25=-96/0, 2-35=-1087/0, 11-25=-1672/0,
BOT CHORD 2x4 SP No.2(flat) *Except* 26-35:2x4 SP No.1(flat)	2-34=0/726, 11-27=0/1377, 3-34=-744/0,
WEBS 2x4 SP No.3(flat)	3-33=0/704, 10-29=0/832, 8-29=-724/0,
OTHERS 2x4 SP No.2(flat)	18-20=-607/91, 13-25=-1103/0,
BRACING	18-21=-127/300, 13-24=0/756,
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.	17-21=-231/239, 14-24=-795/0, 14-23=0/834,
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.	15-23=-362/0, 8-30=0/277, 7-30=-438/0,
REACTIONS (size) 20=0-3-8, 25=0-3-8, 35=0-3-8	7-31=0/233, 6-31=-207/6, 5-32=-126/265,
Max Uplift 20=-44 (LC 3)	6-32=-450/165, 16-22=0/317, 17-22=-546/0,
Max Grav 20=402 (LC 4), 25=1766 (LC 9), 35=696 (LC 10)	10-28=0/12, 4-33=-301/0, 10-27=-1186/0
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD 1-35=-27/0, 19-20=-31/0, 1-2=-2/0, 2-3=-1425/0, 3-4=-2496/0, 4-5=-2496/0, 5-6=-2496/0, 6-7=-2613/0, 7-8=-2159/0, 8-10=-1624/0, 10-11=-185/204, 11-12=0/2469, 12-13=0/2469, 13-14=-34/1338, 14-15=-838/591, 15-16=-838/591, 16-17=-838/591, 17-18=-716/169, 18-19=-2/0	
BOT CHORD 34-35=0/868, 33-34=0/1997, 32-33=0/2496, 31-32=0/2665, 30-31=0/2472, 29-30=0/2159, 28-29=0/970, 27-28=0/970, 25-27=-1136/0, 24-25=-1651/0, 23-24=-1012/500, 22-23=-591/838, 21-22=-353/894, 20-21=-72/485	

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x3 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 20.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down at 14-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
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: 20-35=-8, 1-19=-80, Concentrated Loads (lb)	

Vert: 10=-121 (B)



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



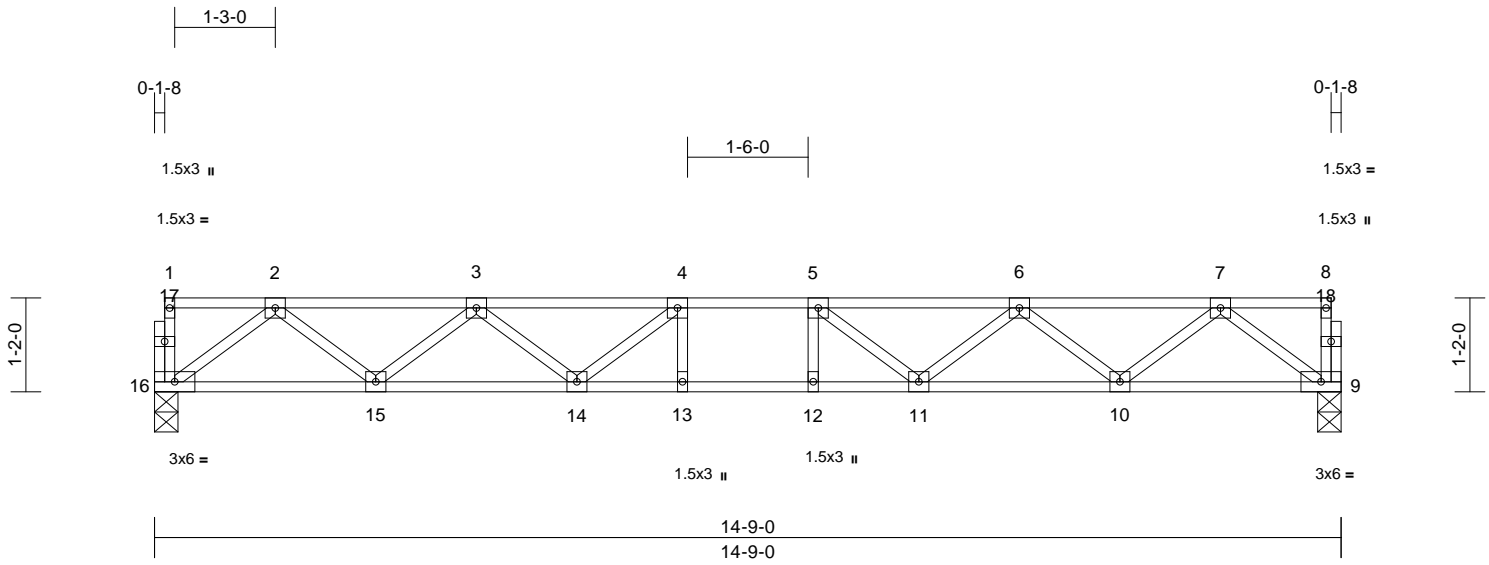
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F207	Truss Type Floor	Qty 4	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813355
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:37
ID:4atz7zeLWV3x3NbgHEpYqzEiiM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.6

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	0.33	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.17	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	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.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 (size) 9=0-3-8, 16=0-3-8
 Max Grav 9=633 (LC 1), 16=633 (LC 1)

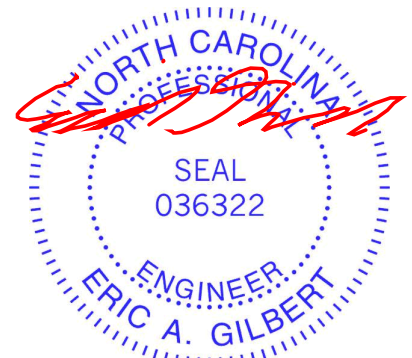
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-33/0, 8-9=-33/0, 1-2=-2/0,
 2-3=-1293/0, 3-4=-1997/0, 4-5=-2210/0,
 5-6=-1997/0, 6-7=-1293/0, 7-8=-2/0
 BOT CHORD 15-16=0/783, 14-15=0/1775, 13-14=0/2210,
 12-13=0/2210, 11-12=0/2210, 10-11=0/1775,
 9-10=0/783
 WEBS 7-9=-980/0, 2-16=-980/0, 7-10=0/663,
 2-15=0/663, 6-10=-627/0, 3-15=-627/0,
 6-11=0/334, 3-14=0/334, 5-11=-402/0,
 4-14=-402/0, 4-13=-100/120, 5-12=-100/120

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



February 23, 2023

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



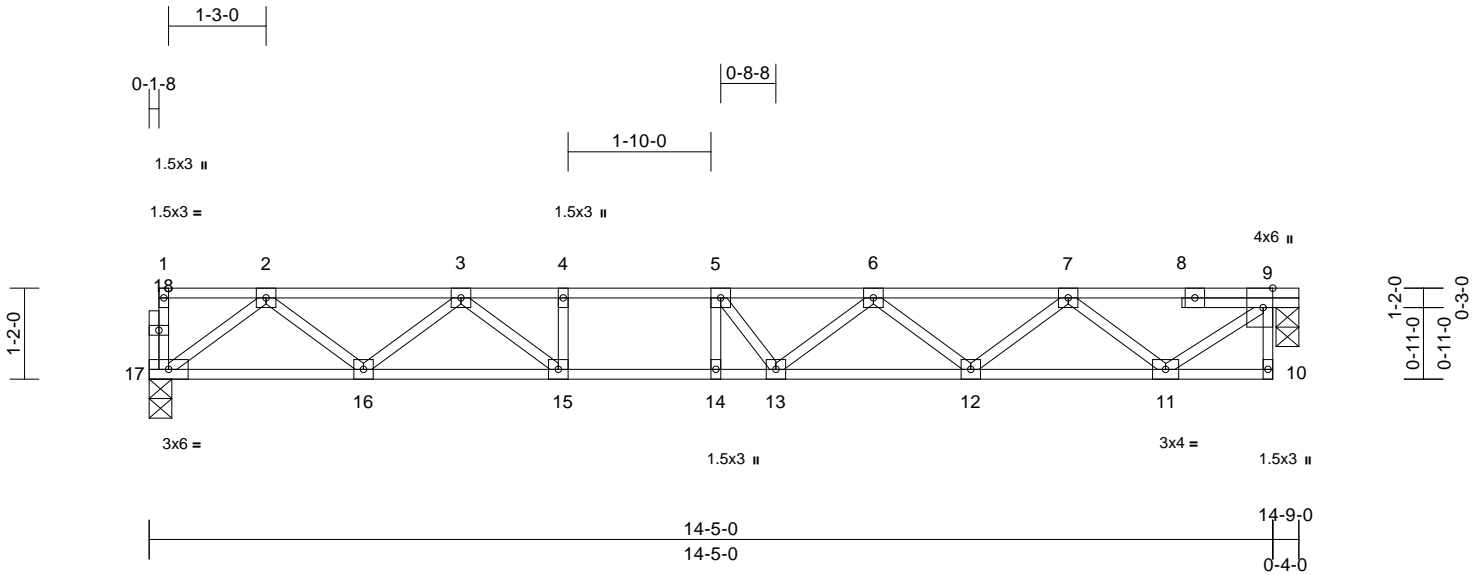
818 Soundside Road
 Edenton, NC 27932

Job Q2200848	Truss F208	Truss Type Floor	Qty 4	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	I56813356
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:37
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Page: 1



Scale = 1:29.6

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)

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

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



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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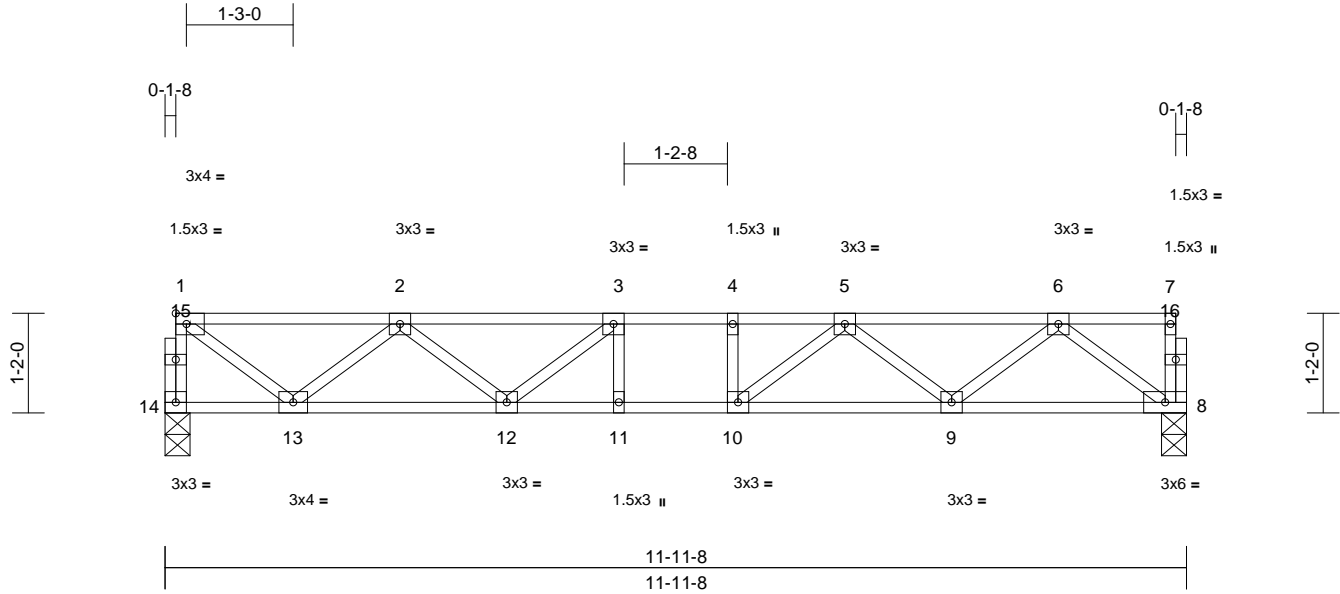
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F209	Truss Type Floor	Qty 8	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	I56813357
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:37
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Page: 1



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	0.33	Vert(LL)	-0.06	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.08	11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	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.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 (size) 8=0-3-8, 14=0-3-8
Max Grav 8=510 (LC 1), 14=510 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-506/0, 7-8=-28/0, 1-2=-565/0,
2-3=-1258/0, 3-4=-1437/0, 4-5=-1437/0,
5-6=-979/0, 6-7=-2/0
BOT CHORD 13-14=0/30, 12-13=0/1056, 11-12=0/1437,
10-11=0/1437, 9-10=0/1307, 8-9=0/626
WEBS 6-8=-783/0, 1-13=0/683, 6-9=0/459,
2-13=-639/0, 5-9=-428/0, 2-12=0/281,
5-10=-16/307, 3-12=-304/0, 3-11=-73/66,
4-10=-115/0

NOTES

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

LOAD CASE(S) Standard



February 23, 2023

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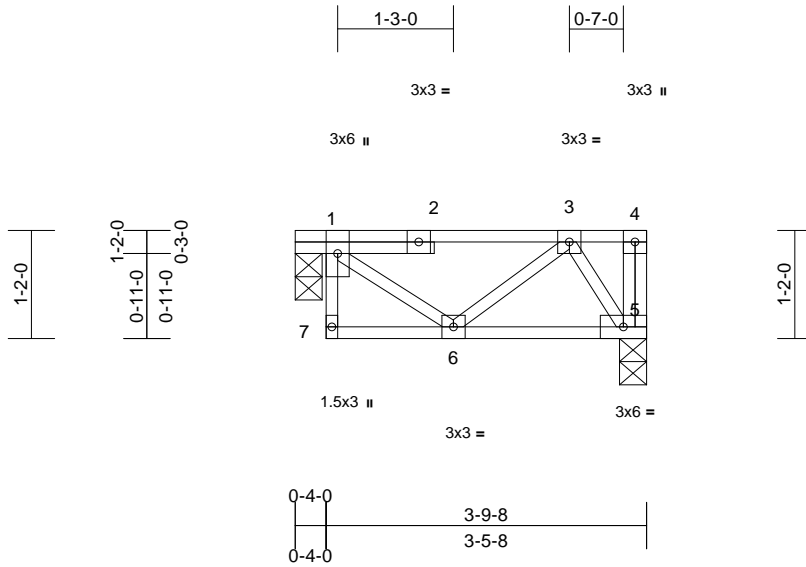
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F210	Truss Type Floor	Qty 1	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813358
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:37
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Page: 1



Scale = 1:24.9

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)

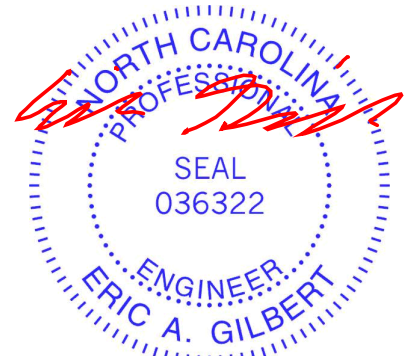
FORCES (lb) - Maximum Compression/Maximum Tension

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



February 23, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



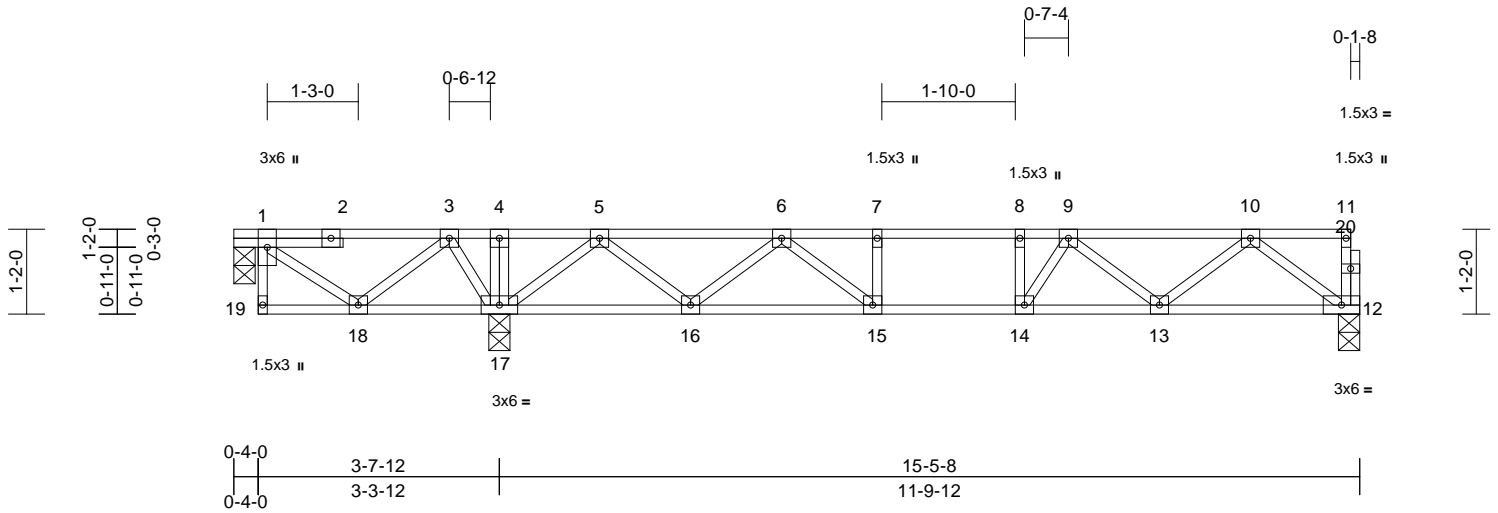
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F211	Truss Type Floor	Qty 1	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813359
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:37
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Page: 1



Scale = 1:31.6

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)

- 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.

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.

LOAD CASE(S) Standard

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.



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



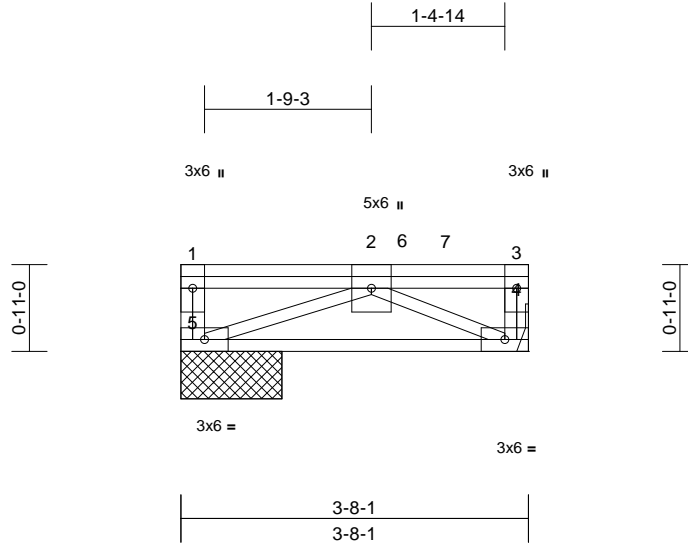
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F212	Truss Type Floor Girder	Qty 1	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813360
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:38
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Page: 1



Scale = 1:24.3

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	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) 4= Mechanical, 5=1-0-13
Max Grav 4=584 (LC 1), 5=416 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-92/0, 3-4=-163/41, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/849
WEBS 2-5=-910/0, 2-4=-940/0

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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 289 lb up at 2-9-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-80, 6=-546, 7=3



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

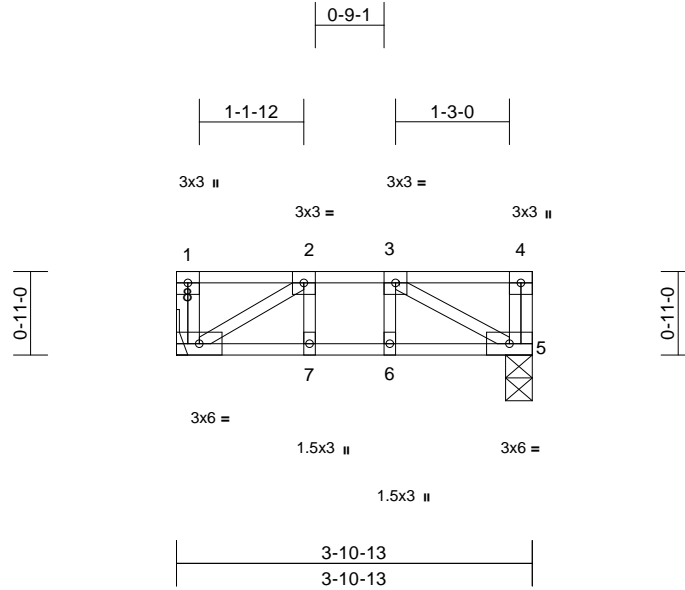
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss F213	Truss Type Floor Girder	Qty 1	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813361
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:38
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Page: 1



Scale = 1:25.3

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	0.15	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							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.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=0-3-8, 8= Mechanical
Max Grav 5=201 (LC 1), 8=201 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-61/0, 4-5=-66/0, 1-2=0/0, 2-3=-235/0, 3-4=0/0
BOT CHORD 7-8=0/235, 6-7=0/235, 5-6=0/235
WEBS 3-5=-268/0, 2-8=-273/0, 2-7=-10/40, 3-6=-16/32

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 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



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



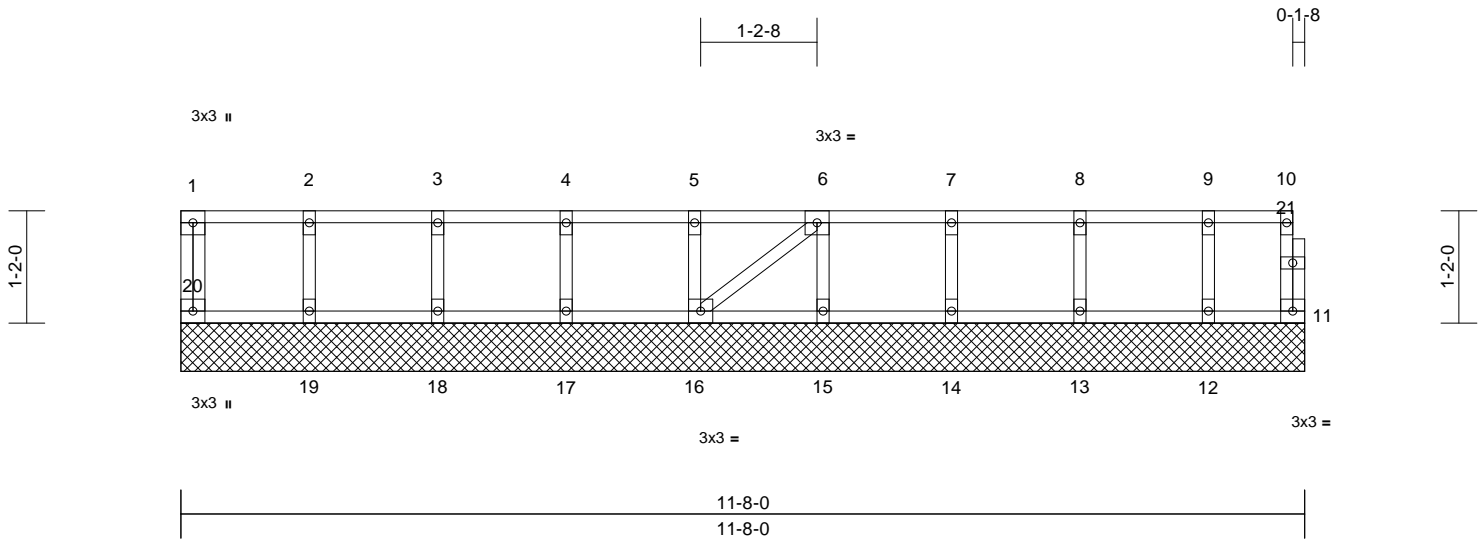
818 Soundside Road
Edenton, NC 27932

Job Q2200848	Truss K209	Truss Type Floor Supported Gable	Qty 2	Ply 1	Garman Homes - Forget Me Not A Floor Job Reference (optional)	156813362
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 08:42:38
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Page: 1



Scale = 1:23.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 53 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)

- 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

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)	
11=11-8-0, 12=11-8-0, 13=11-8-0, 14=11-8-0, 15=11-8-0, 16=11-8-0, 17=11-8-0, 18=11-8-0, 19=11-8-0, 20=11-8-0	
Max Grav	11=29 (LC 1), 12=131 (LC 1), 13=150 (LC 1), 14=146 (LC 1), 15=146 (LC 1), 16=148 (LC 1), 17=147 (LC 1), 18=145 (LC 1), 19=156 (LC 1), 20=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-20=-47/0, 10-11=-26/0, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=-2/0, 7-8=-2/0, 8-9=-2/0, 9-10=-2/0
BOT CHORD	19-20=0/0, 18-19=0/0, 17-18=0/0, 16-17=0/0, 15-16=0/2, 14-15=0/2, 13-14=0/2, 12-13=0/2, 11-12=0/2
WEBS	2-19=-142/0, 3-18=-131/0, 4-17=-134/0, 5-16=-133/0, 6-15=-132/0, 7-14=-132/0, 8-13=-137/0, 9-12=-119/0, 6-16=-2/0

- NOTES
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 23, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

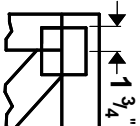
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



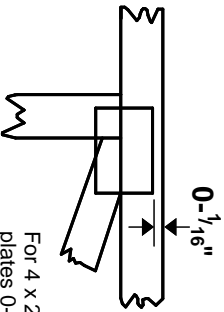
818 Soundside Road
Edenton, NC 27932

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



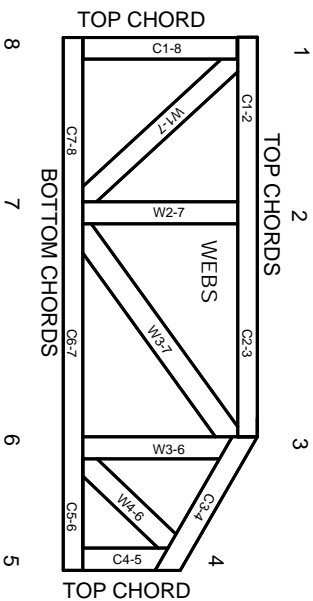
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



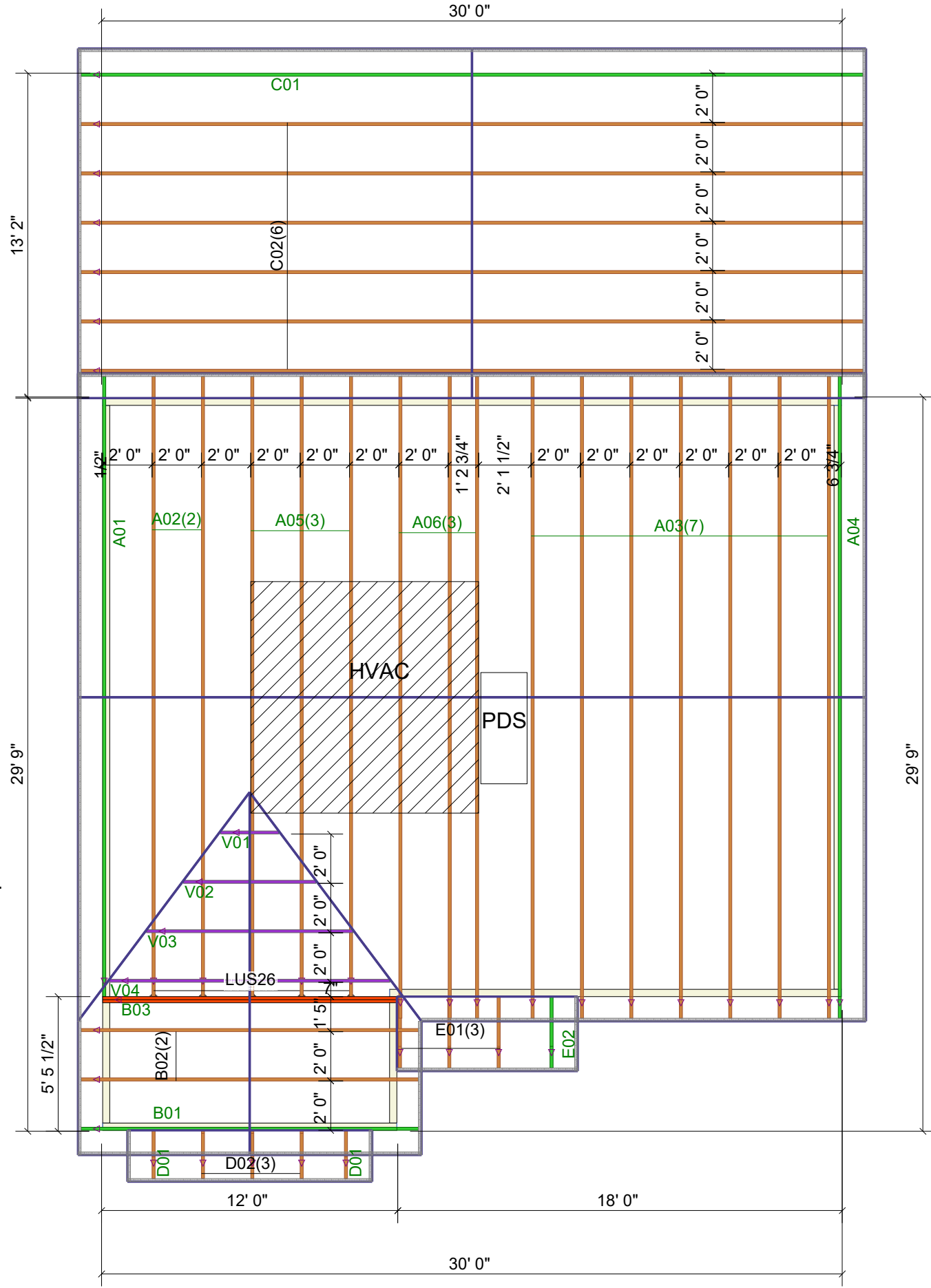
General Safety Notes

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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING.
SHEATHING IS FLUSH TO FACE OF FOUNDATION.

Truss Connector Total List		
Manuf	Product	Qty
	H2.5A	34
Simpson	LUS26	5




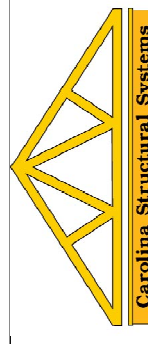
THIS IS A TRUSS PLACEMENT DIAGRAM ONLY

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Job #: Q2200849	FORGET ME NOT	Plan: ROOF	APPROVED BY:	DATE:
Customer: GARMAN HOMES		Date: 2/23/2023	REVIEWED BY:	
Site Address:		Sales Rep: RW	 <small> QUALITY AUDITED BY: IBC 1962 ANSI/TPI 1-2007 IBC 23054 CAROLINA STRUCTURAL SYSTEMS, LLC 910-491-9004 </small>	
City, ST, ZIP:		Designer: JSP	ROOF DATA Roof Area: 1686.21 SF	



Carolina Structural Systems
 Roof Trusses • Floor Trusses • EWP
Carolina Structural Systems
 P.O. Box 157, Ether, NC 27247
 225 Frame Shop Rd., Star, NC 27356
 910-491-9004

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Q2200849
Garman Homes - Forget Me Not A Roof

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: I56814314 thru I56814332

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 24, 2023

Gilbert, Eric

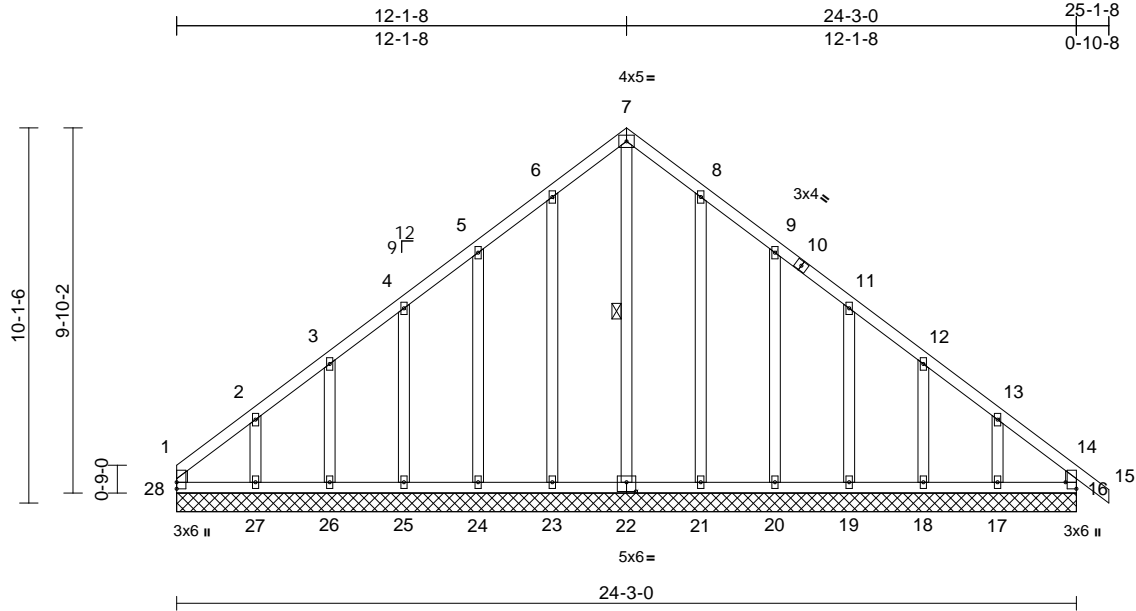
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 Q2200849	Truss A01	Truss Type Common Supported Gable	Qty 1	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814314
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:16:57
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Page: 1



Scale = 1:62.1

Plate Offsets (X, Y): [16:Edge,0-3-8], [22:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 169 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 16-14:2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-22

REACTIONS (size)
16=24-3-0, 17=24-3-0, 18=24-3-0,
19=24-3-0, 20=24-3-0, 21=24-3-0,
22=24-3-0, 23=24-3-0, 24=24-3-0,
25=24-3-0, 26=24-3-0, 27=24-3-0,
28=24-3-0
Max Horiz 28=-181 (LC 10)
Max Uplift 16=-2 (LC 9), 17=-53 (LC 12),
18=-23 (LC 12), 19=-29 (LC 12),
20=-34 (LC 12), 21=-17 (LC 12),
23=-17 (LC 12), 24=-33 (LC 12),
25=-30 (LC 12), 26=-21 (LC 12),
27=-60 (LC 12), 28=-53 (LC 10)
Max Grav 16=170 (LC 17), 17=176 (LC 18),
18=163 (LC 1), 19=162 (LC 18),
20=161 (LC 18), 21=166 (LC 22),
22=197 (LC 12), 23=166 (LC 17),
24=160 (LC 17), 25=164 (LC 17),
26=157 (LC 1), 27=207 (LC 17),
28=139 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-28=-109/51, 1-2=-137/123, 2-3=-116/91,
3-4=-106/78, 4-5=-114/114, 5-6=-165/176,
6-7=-207/226, 7-8=-207/226, 8-9=-165/176,
9-11=-114/114, 11-12=-78/56, 12-13=-88/55,
13-14=-109/80, 14-15=0/37, 14-16=-140/12

BOT CHORD 27-28=-83/112, 26-27=-83/112,
25-26=-83/112, 24-25=-83/112,
23-24=-83/112, 21-23=-83/112,
20-21=-83/112, 19-20=-83/112,
18-19=-83/112, 17-18=-83/112,
16-17=-83/112
WEBS 7-22=-212/133, 6-23=-126/58, 5-24=-126/79,
4-25=-123/73, 3-26=-118/69, 2-27=-144/95,
8-21=-126/58, 9-20=-126/79, 11-19=-122/73,
12-18=-122/71, 13-17=-143/92

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-1-12 to 3-1-12, Exterior (2) 3-1-12 to 12-1-8, Corner (3) 12-1-8 to 15-1-8, Exterior (2) 15-1-8 to 25-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 28, 2 lb uplift at joint 16, 17 lb uplift at joint 23, 33 lb uplift at joint 24, 30 lb uplift at joint 25, 21 lb uplift at joint 26, 60 lb uplift at joint 27, 17 lb uplift at joint 21, 34 lb uplift at joint 20, 29 lb uplift at joint 19, 23 lb uplift at joint 18 and 53 lb uplift at joint 17.
11) 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.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

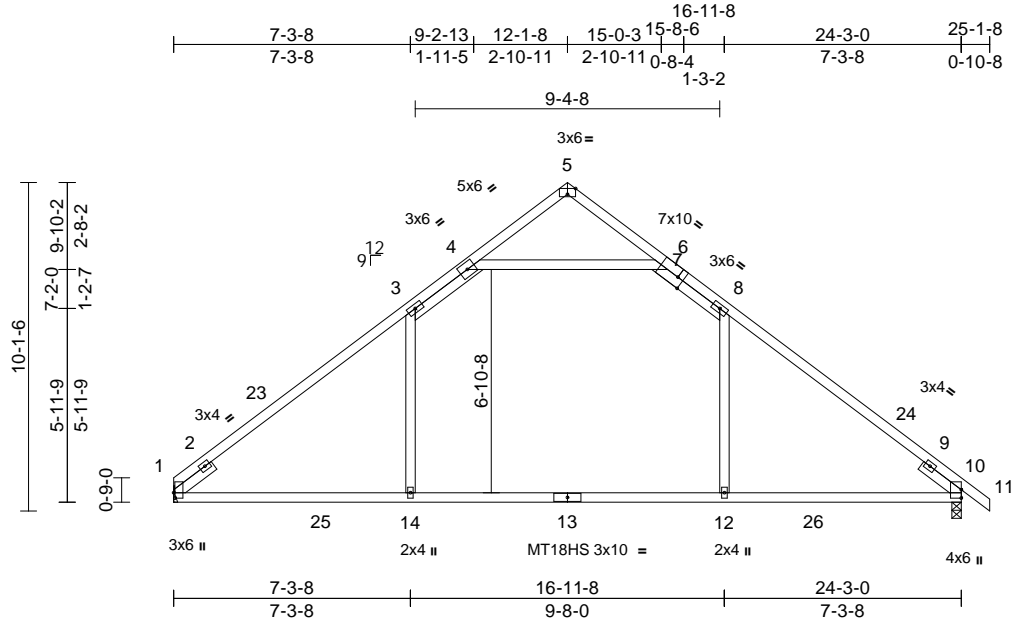


Job Q2200849	Truss A02	Truss Type Common	Qty 2	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814315
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:00
ID:9_GP528Ka8_g4TpuW6zktczEjkr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:70.9

Plate Offsets (X, Y): [1:0-2-0,0-0-7], [5:0-3-0,Edge], [7:0-2-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.52	12-21	>563	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.70	12-14	>415	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.08	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 122 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP DSS *Except* 7-11:2x4 SP No.1, 6-8,3-4:2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1= Mechanical, 10=0-3-8
 Max Horiz 1=-167 (LC 10)
 Max Uplift 1=-7 (LC 12), 10=-29 (LC 12)
 Max Grav 1=1095 (LC 17), 10=1143 (LC 18)

FORCES

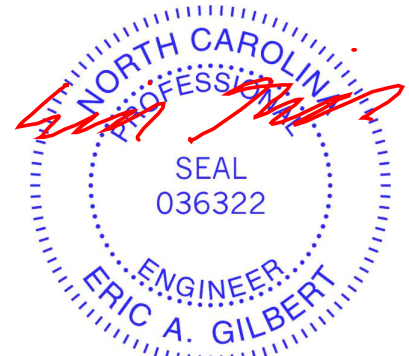
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-3=-1444/82, 3-4=-978/150, 4-5=-22/238, 5-6=-24/241, 6-8=-1012/146, 8-10=-1441/80, 10-11=0/32
 BOT CHORD 1-14=-88/1071, 12-14=0/1071, 10-12=-80/1071
 WEBS 3-14=0/506, 8-12=0/500, 4-6=-1279/204

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-1-8, Exterior (2) 12-1-8 to 15-3-1, Interior (1) 15-3-1 to 25-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 29 lb uplift at joint 10.
- 8) 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



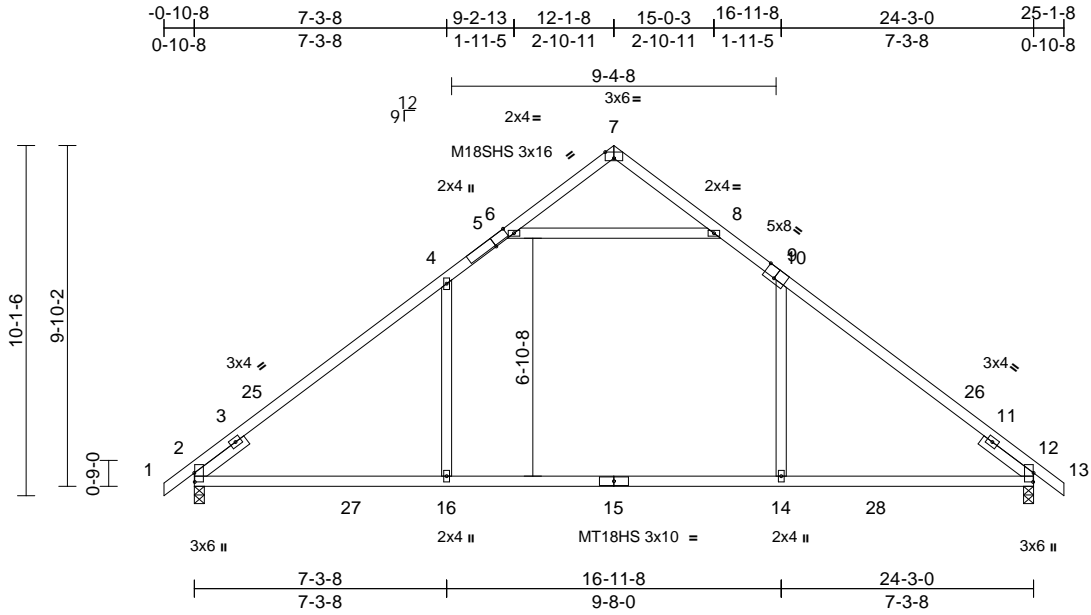
818 Soundside Road
 Edenton, NC 27932

Job Q2200849	Truss A03	Truss Type Common	Qty 7	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814316
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:00
ID:?P1Dr2p40ru6BNM7LVFGpOzEjUU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:66.6
Plate Offsets (X, Y): [2:0-3-2,0-0-3], [5:0-5-9,Edge], [7:0-3-0,Edge], [9:0-4-0,Edge], [12:0-3-2,0-0-3]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.59	14-23	>492	240	M18SHS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.75	14-16	>388	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.09	2	n/a	n/a	MT18HS	244/190
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 117 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP DSS *Except* 1-5-9-13:2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-10-2, Right 2x4 SP No.3 -- 1-10-2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 12=0-3-8
Max Horiz 2=170 (LC 11)
Max Uplift 2=-29 (LC 12), 12=-29 (LC 12)
Max Grav 2=1143 (LC 17), 12=1143 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-4=-1431/78, 4-6=-968/145, 6-7=-8/209, 7-8=-7/206, 8-10=-969/145, 10-12=-1431/77, 12-13=0/31
BOT CHORD 2-16=-91/1062, 14-16=0/1062, 12-14=-86/1062
WEBS 4-16=0/505, 10-14=0/505, 6-8=-1230/176

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 12-1-8, Exterior (2) 12-1-8 to 15-3-1, Interior (1) 15-3-1 to 25-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2 and 29 lb uplift at joint 12.
 - 7) 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.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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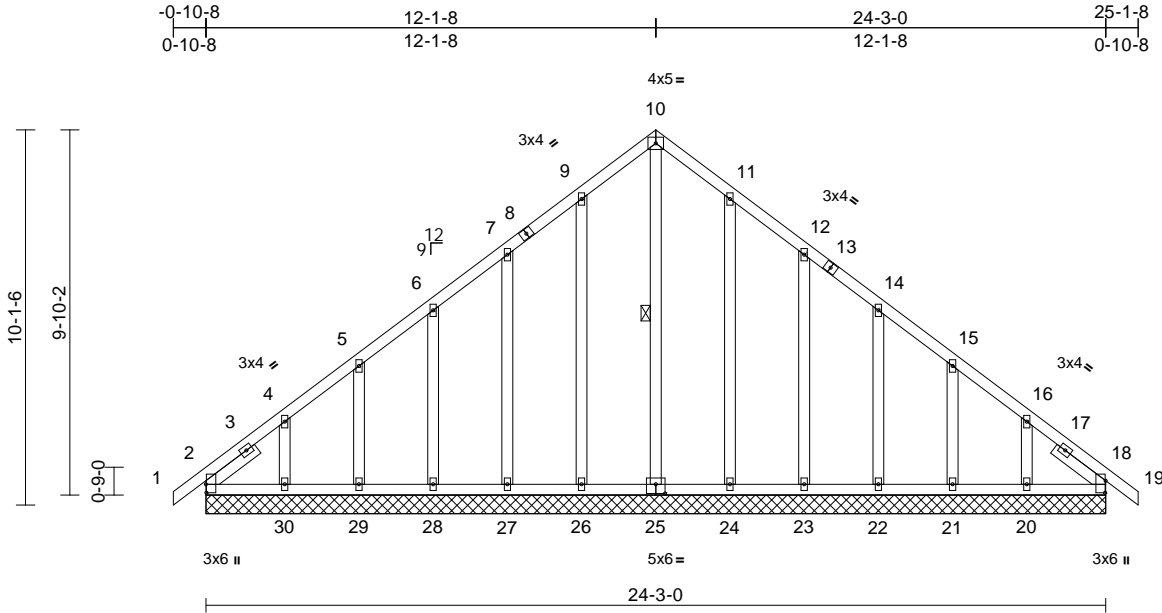
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss A04	Truss Type Common Supported Gable	Qty 1	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	156814317
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:00
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Page: 1



Scale = 1:62.1

Plate Offsets (X, Y): [2:0-2-12,0-0-3], [18:0-3-14,0-0-3], [25:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS								
											Weight: 175 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-8-5, Right 2x4 SP No.3 -- 1-8-5

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-25

REACTIONS (size)
2=24-3-0, 18=24-3-0, 20=24-3-0,
21=24-3-0, 22=24-3-0, 23=24-3-0,
24=24-3-0, 25=24-3-0, 26=24-3-0,
27=24-3-0, 28=24-3-0, 29=24-3-0,
30=24-3-0, 31=24-3-0, 35=24-3-0
Max Horiz 2=170 (LC 11), 31=170 (LC 11)
Max Uplift 2=-19 (LC 10), 20=-54 (LC 12),
21=-23 (LC 12), 22=-29 (LC 12),
23=-33 (LC 12), 24=-19 (LC 12),
26=-19 (LC 12), 27=-33 (LC 12),
28=-29 (LC 12), 29=-23 (LC 12),
30=-54 (LC 12), 31=-19 (LC 10)
Max Grav 2=188 (LC 18), 18=157 (LC 17),
20=182 (LC 18), 21=158 (LC 1),
22=163 (LC 18), 23=162 (LC 18),
24=165 (LC 22), 25=164 (LC 12),
26=166 (LC 17), 27=160 (LC 17),
28=163 (LC 17), 29=158 (LC 1),
30=192 (LC 17), 31=188 (LC 18),
35=157 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-4=-134/130, 4-5=-126/99,
5-6=-117/85, 6-7=-105/80, 7-9=-139/142,
9-10=-181/193, 10-11=-181/193,
11-12=-139/142, 12-14=-88/80,
14-15=-77/33, 15-16=-88/48,
16-18=-117/104, 18-19=0/31

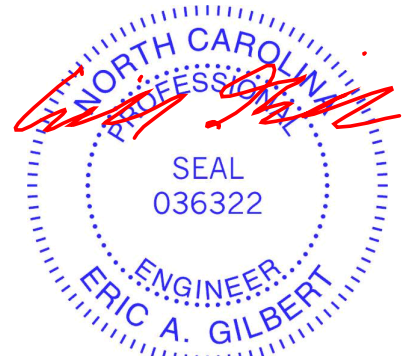
BOT CHORD 2-30=-91/138, 29-30=-91/138,
28-29=-91/138, 27-28=-91/138,
26-27=-91/138, 24-26=-91/138,
23-24=-91/138, 22-23=-91/138,
21-22=-91/138, 20-21=-91/138,
18-20=-91/138
WEBS 10-25=-174/104, 9-26=-126/61,
7-27=-125/78, 6-28=-122/73, 5-29=-120/69,
4-30=-148/95, 11-24=-125/61,
12-23=-125/78, 14-22=-122/73,
15-21=-120/69, 16-20=-149/95

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 12-1-8, Corner (3) 12-1-8 to 15-1-8, Exterior (2) 15-1-8 to 25-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 2, 19 lb uplift at joint 26, 33 lb uplift at joint 27, 29 lb uplift at joint 28, 23 lb uplift at joint 29, 54 lb uplift at joint 30, 19 lb uplift at joint 24, 33 lb uplift at joint 23, 29 lb uplift at joint 22, 23 lb uplift at joint 21, 54 lb uplift at joint 20 and 19 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



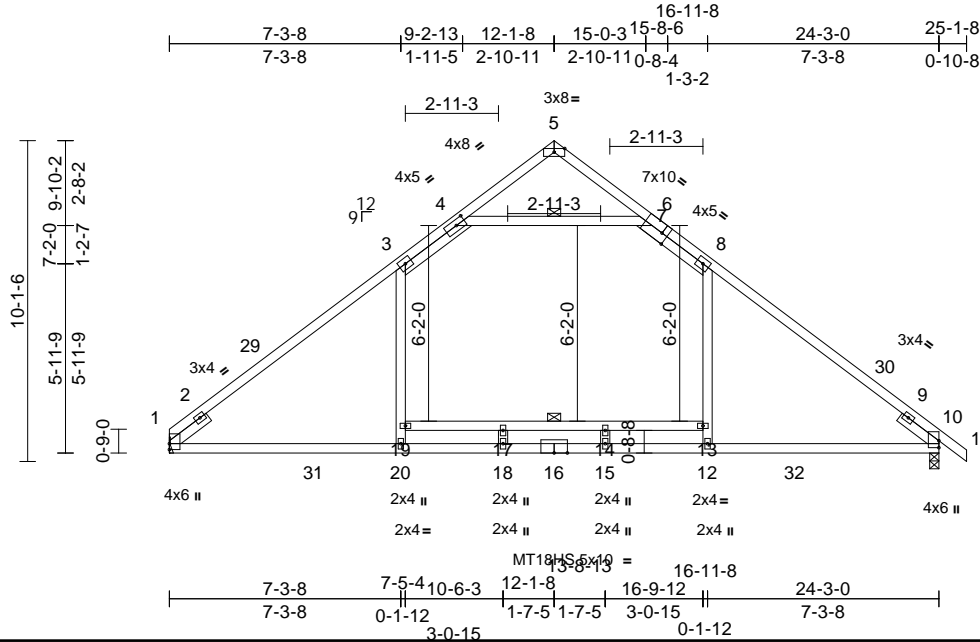
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss A05	Truss Type Common	Qty 3	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814318
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:01
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Page: 1



Scale = 1:72.6
Plate Offsets (X, Y): [4:0-3-8,0-2-0], [7:0-2-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.67	15-18	>433	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-1.03	15-18	>283	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.07	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS								Weight: 137 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP DSS *Except* 7-11:2x4 SP No.1, 6-8,3-4:2x4 SP No.2
BOT CHORD 2x4 SP DSS *Except* 19-13:2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 13-19
WEBS 1 Row at midpt 4-6

REACTIONS (size) 1= Mechanical, 10=0-3-8
Max Horiz 1=-167 (LC 10)
Max Grav 1=1337 (LC 17), 10=1385 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1839/0, 3-4=-1199/93, 4-5=0/321, 5-6=-1/321, 6-8=-1249/86, 8-10=-1834/47, 10-11=0/32
BOT CHORD 1-20=-45/1363, 18-20=0/1447, 15-18=0/1447, 12-15=0/1447, 10-12=-38/1363, 17-19=-101/14, 14-17=-101/14, 13-14=-101/14
WEBS 19-20=0/653, 3-19=0/826, 12-13=0/638, 8-13=0/814, 4-6=-1662/104, 17-18=-140/10, 14-15=-133/13

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-1-8, Exterior (2) 12-1-8 to 15-3-1, Interior (1) 15-3-1 to 25-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



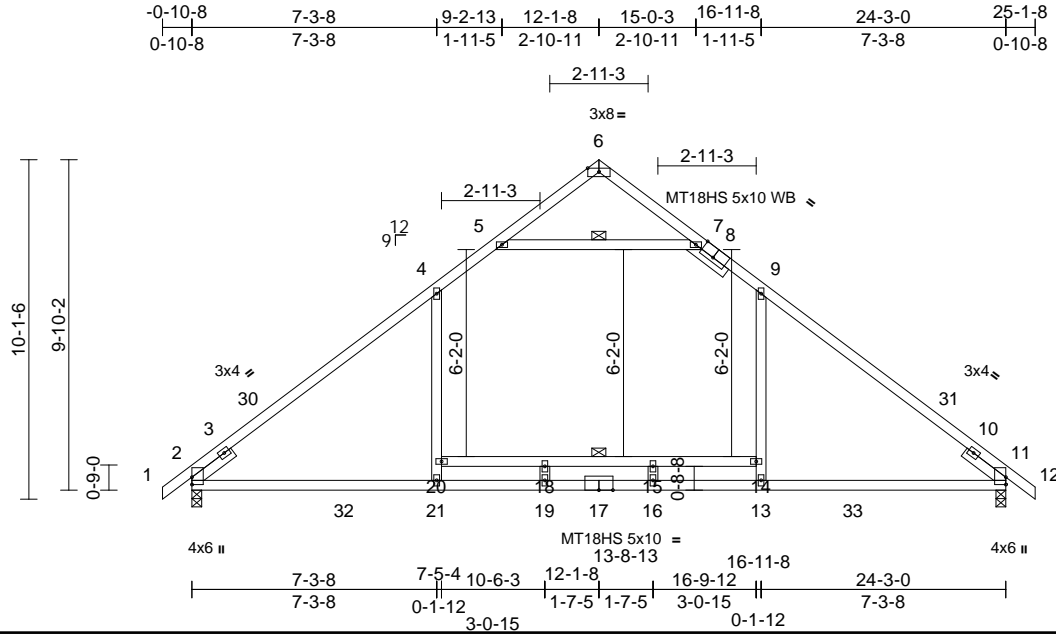
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss A06	Truss Type Common	Qty 3	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814319
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:01
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Page: 1



Scale = 1:68.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.70	16-19	>415	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-1.08	16-19	>270	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.07	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS								Weight: 133 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP DSS *Except* 8-12:2x4 SP No.1
BOT CHORD 2x4 SP DSS *Except* 20-14:2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 14-20
WEBS 1 Row at midpt 5-7

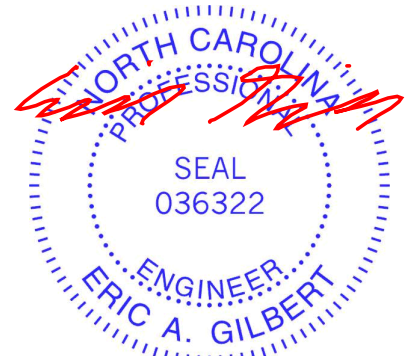
REACTIONS (size) 2=0-3-8, 11=0-3-8
Max Horiz 2=170 (LC 11)
Max Grav 2=1384 (LC 17), 11=1384 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-4=-1832/80, 4-5=-1185/86, 5-6=0/288, 6-7=0/285, 7-9=-1188/86, 9-11=-1827/113, 11-12=0/31
BOT CHORD 2-21=-43/1350, 19-21=0/1457, 16-19=0/1457, 13-16=0/1457, 11-13=-44/1350, 18-20=-127/14, 15-18=-127/14, 14-15=-127/14
WEBS 20-21=0/651, 4-20=0/826, 5-7=-1599/76, 15-16=-139/21, 18-19=-145/18, 13-14=0/639, 9-14=0/815

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 12-1-8, Exterior (2) 12-1-8 to 15-3-1, Interior (1) 15-3-1 to 25-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



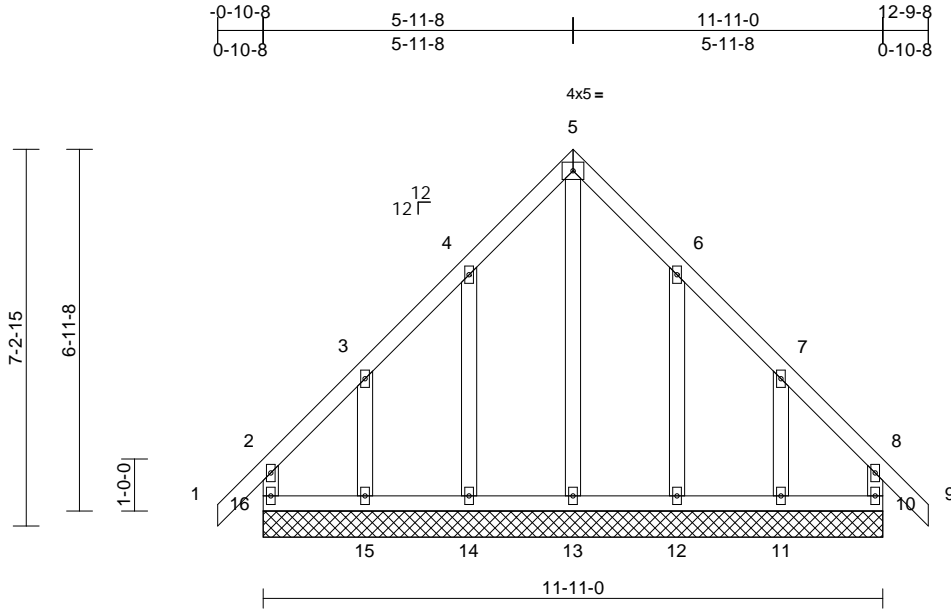
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss B01	Truss Type Common Supported Gable	Qty 1	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	156814320
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:01
ID:9u9iqoJgbFPJw1cqXqlo7GzEjlv-RfC?PsB70Hq3NSgPqnl8w3uTXbGKwRCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 79 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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.

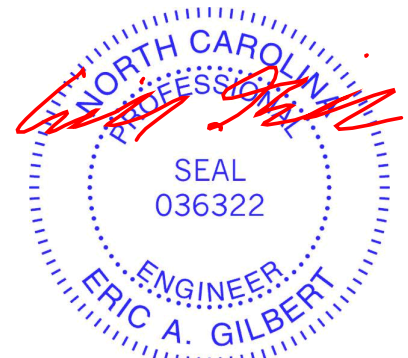
REACTIONS (size)
10=11-11-0, 11=11-11-0,
12=11-11-0, 13=11-11-0,
14=11-11-0, 15=11-11-0,
16=11-11-0
Max Horiz 16=153 (LC 11)
Max Uplift 10=36 (LC 9), 11=67 (LC 12),
12=43 (LC 12), 14=43 (LC 12),
15=67 (LC 12), 16=45 (LC 8)
Max Grav 10=161 (LC 17), 11=188 (LC 18),
12=178 (LC 18), 13=208 (LC 12),
14=177 (LC 17), 15=193 (LC 17),
16=172 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-141/62, 1-2=0/43, 2-3=-104/95,
3-4=-97/112, 4-5=-171/202, 5-6=-172/202,
6-7=-97/114, 7-8=-92/79, 8-9=0/43,
8-10=-132/61
BOT CHORD 15-16=-72/77, 14-15=-72/77, 13-14=-72/77,
12-13=-72/77, 11-12=-72/77, 10-11=-72/77
WEBS 5-13=-230/130, 4-14=-146/103,
3-15=-157/122, 6-12=-146/103,
7-11=-159/121

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Corner (3) -0-10-8 to
1-11-8, Exterior (2) 1-11-8 to 5-11-8, Corner (3) 5-11-8 to
8-11-8, Exterior (2) 8-11-8 to 12-9-8 zone; cantilever left
and right exposed; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 45 lb uplift at joint
16, 36 lb uplift at joint 10, 43 lb uplift at joint 14, 67 lb
uplift at joint 15, 43 lb uplift at joint 12 and 67 lb uplift at
joint 11.
- 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.

LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



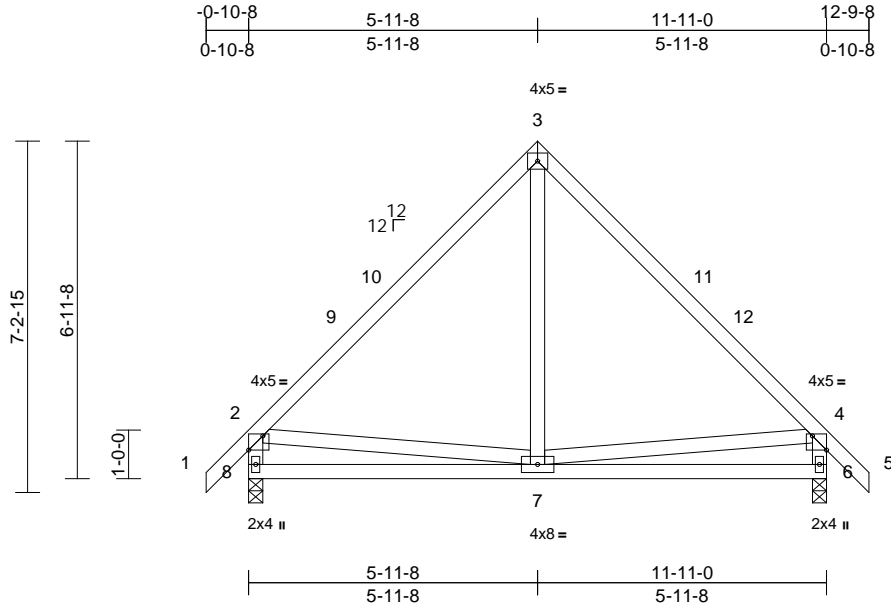
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss B02	Truss Type Common	Qty 2	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	156814321
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:02
ID:Z0uhbRmutd43sjxxC5wT73zEjIK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:47.5

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 75 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) 6=0-3-8, 8=0-3-8
Max Horiz 8=153 (LC 11)
Max Uplift 6=29 (LC 12), 8=29 (LC 12)
Max Grav 6=526 (LC 1), 8=526 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-451/82, 3-4=-451/82,
4-5=0/43, 2-8=-475/111, 4-6=-475/111
BOT CHORD 7-8=-142/352, 6-7=-117/313
WEBS 3-7=0/249, 2-7=-158/225, 4-7=-162/226

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-11-8, Exterior (2) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 12-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 8 and 29 lb uplift at joint 6.
- 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.

LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



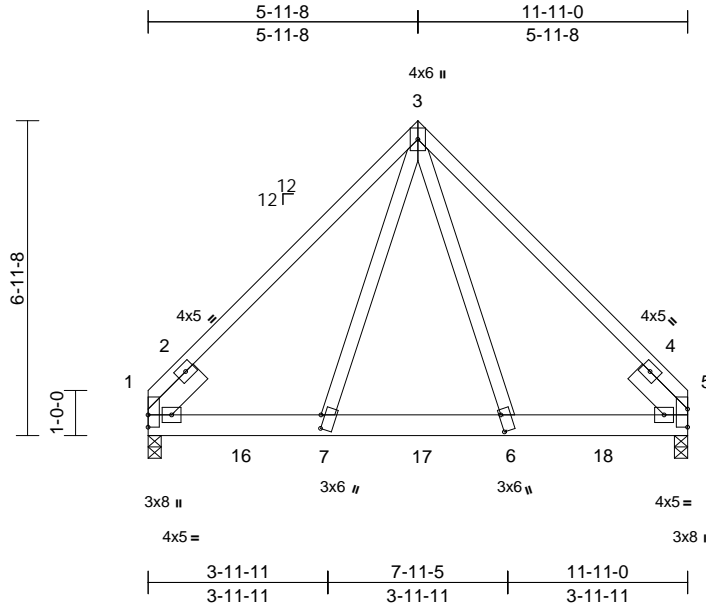
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss B03	Truss Type Common Girder	Qty 1	Ply 2	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814322
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:02
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Page: 1



Scale = 1:50.9

Plate Offsets (X, Y): [6:0-4-9,0-0-8], [7:0-3-7,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 160 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

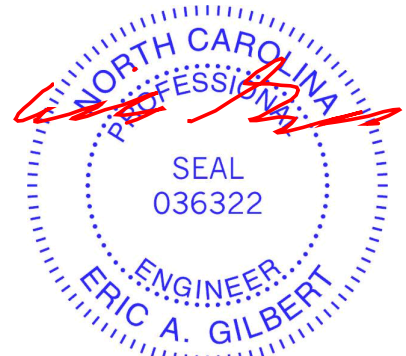
REACTIONS (size) 1=0-3-8, 5=0-3-8
Max Horiz 1=114 (LC 7)
Max Grav 1=3321 (LC 14), 5=3632 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-3517/0, 3-5=-3689/0
BOT CHORD 1-7=0/2463, 6-7=0/1764, 5-6=0/2557
WEBS 3-7=0/2319, 3-6=0/2726

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 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 roof live loads have been considered for this design.

- 4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1075 lb down and 19 lb up at 2-0-12, 1075 lb down and 19 lb up at 4-0-12, 1317 lb down at 6-0-12, and 1317 lb down at 8-0-12, and 1317 lb down at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 8-12=-20
Concentrated Loads (lb)
Vert: 7=-949 (B), 6=-1046 (B), 16=-949 (B), 17=-1046 (B), 18=-1046 (B)



February 24, 2023

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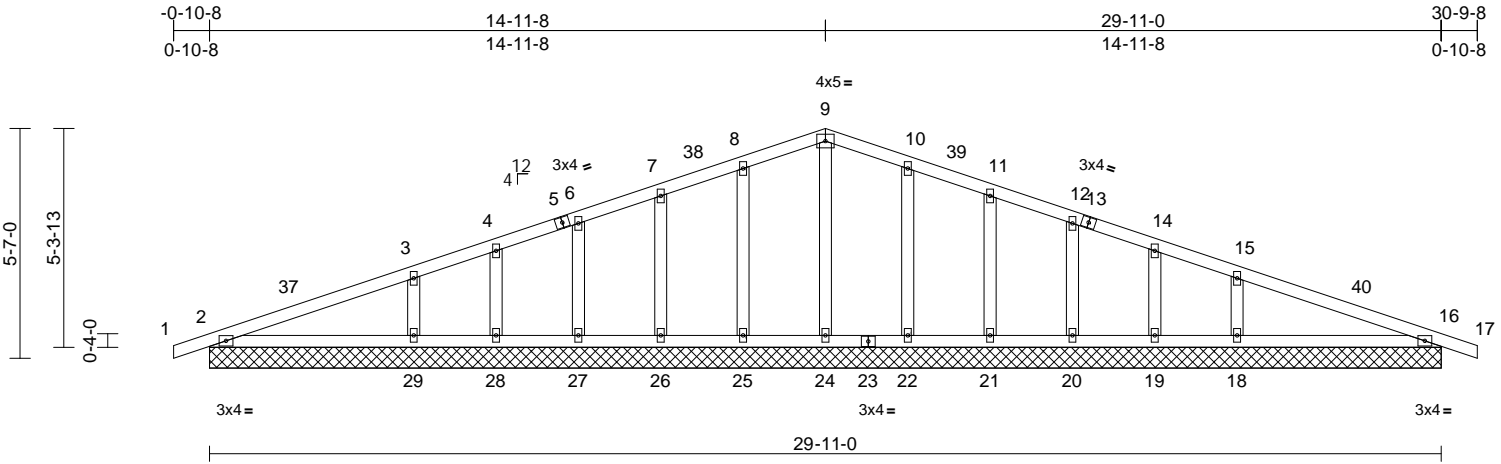
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss C01	Truss Type Common Supported Gable	Qty 1	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814323
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:02
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Page: 1



Scale = 1:56

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 143 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

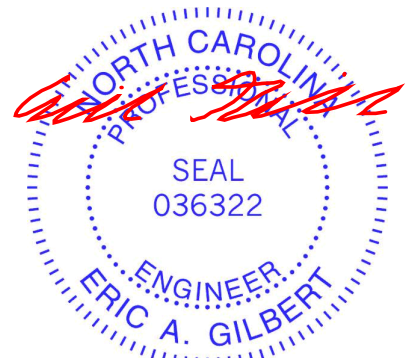
REACTIONS (size)
2=29-11-0, 16=29-11-0,
18=29-11-0, 19=29-11-0,
20=29-11-0, 21=29-11-0,
22=29-11-0, 24=29-11-0,
25=29-11-0, 26=29-11-0,
27=29-11-0, 28=29-11-0,
29=29-11-0, 30=29-11-0,
34=29-11-0
Max Horiz 2=-51 (LC 10), 30=-51 (LC 10)
Max Uplift 2=-21 (LC 12), 16=-21 (LC 12),
18=-12 (LC 12), 19=-5 (LC 12),
20=-7 (LC 12), 21=-7 (LC 12),
22=-5 (LC 12), 25=-5 (LC 12),
26=-7 (LC 12), 27=-7 (LC 12),
28=-5 (LC 12), 29=-12 (LC 12),
30=-21 (LC 12), 34=-21 (LC 12)
Max Grav 2=226 (LC 1), 16=226 (LC 1),
18=403 (LC 22), 19=43 (LC 1),
20=189 (LC 22), 21=152 (LC 1),
22=169 (LC 22), 24=141 (LC 1),
25=169 (LC 21), 26=152 (LC 1),
27=189 (LC 21), 28=43 (LC 1),
29=403 (LC 21), 30=226 (LC 1),
34=226 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-77/49, 3-4=-63/56,
4-6=-39/73, 6-7=-44/100, 7-8=-52/126,
8-9=-62/150, 9-10=-62/152, 10-11=-52/127,
11-12=-44/102, 12-14=-31/74, 14-15=-55/58,
15-16=-76/35, 16-17=0/17

BOT CHORD 2-29=-9/67, 28-29=-9/62, 27-28=-9/62,
26-27=-9/62, 25-26=-9/62, 24-25=-9/62,
22-24=-9/62, 21-22=-9/62, 20-21=-9/62,
19-20=-9/62, 18-19=-9/62, 16-18=-9/62
WEBS 9-24=-102/0, 8-25=-128/101, 7-26=-116/60,
6-27=-136/63, 4-28=-52/35, 3-29=-269/120,
10-22=-128/101, 11-21=-116/60,
12-20=-136/63, 14-19=-52/35,
15-18=-269/120

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 14-11-8, Corner (3) 14-11-8 to 17-11-8, Exterior (2) 17-11-8 to 30-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 21 lb uplift at joint 16, 5 lb uplift at joint 25, 7 lb uplift at joint 26, 7 lb uplift at joint 27, 5 lb uplift at joint 28, 12 lb uplift at joint 29, 5 lb uplift at joint 22, 7 lb uplift at joint 21, 7 lb uplift at joint 20, 5 lb uplift at joint 19, 12 lb uplift at joint 18, 21 lb uplift at joint 2 and 21 lb uplift at joint 16.
10) 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.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



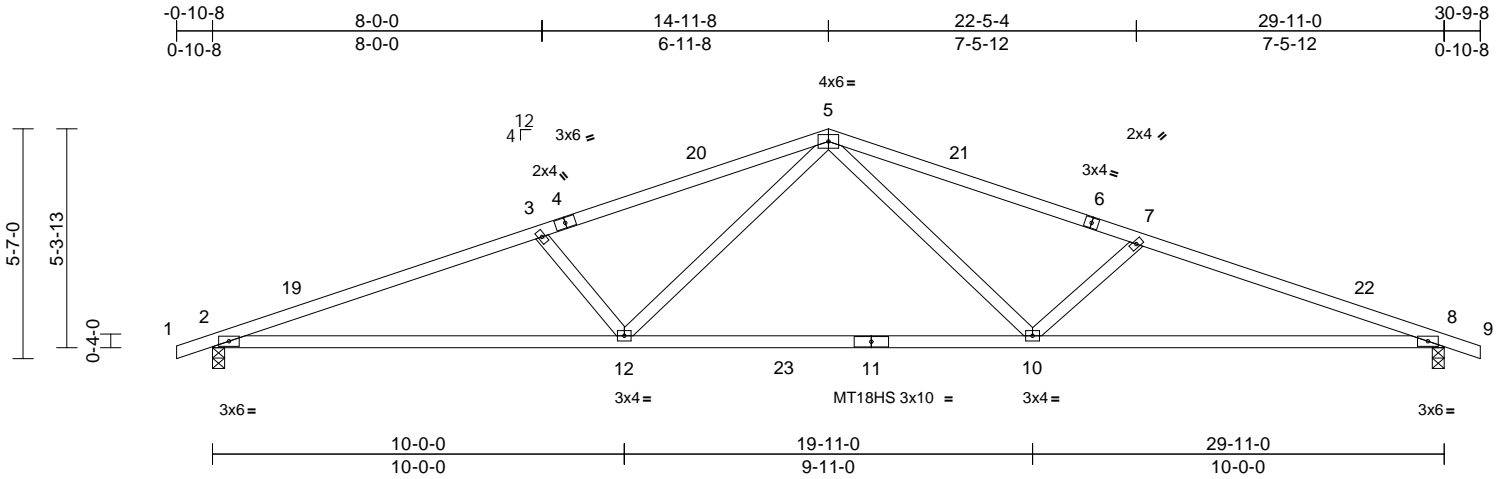
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss C02	Truss Type Common	Qty 6	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	I56814324
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:03
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Page: 1



Scale = 1:56

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.27	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.53	10-12	>675	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS								Weight: 125 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=51 (LC 11)
Max Uplift 2=-31 (LC 12), 8=-31 (LC 12)
Max Grav 2=1249 (LC 1), 8=1249 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

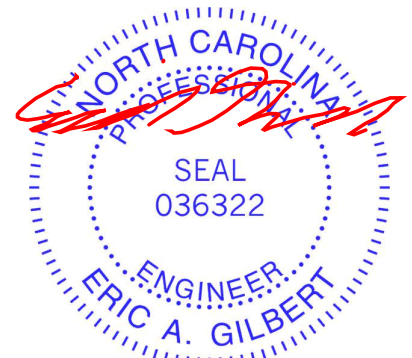
TOP CHORD 1-2=0/17, 2-3=-2893/160, 3-5=-2603/144,
5-7=-2577/135, 7-8=-2946/170, 8-9=0/17
BOT CHORD 2-12=-88/2708, 10-12=-30/1798,
8-10=-109/2764
WEBS 5-10=0/835, 7-10=-555/140, 5-12=0/881,
3-12=-516/130

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 14-11-8, Exterior (2) 14-11-8 to 17-11-8, Interior (1) 17-11-8 to 30-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 31 lb uplift at joint 8.
- 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

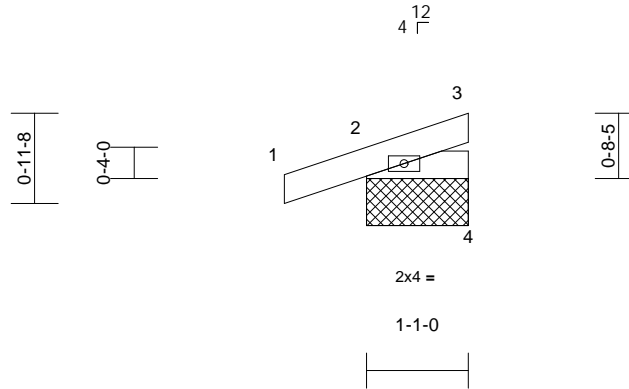
Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Roof	I56814325
Q2200849	D01	Common	2	1	Job Reference (optional)	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1

-0-10-8	1-1-0
0-10-8	1-1-0



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 5 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

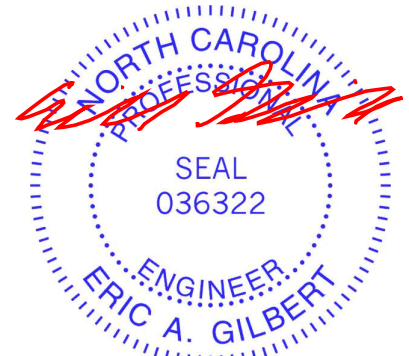
BRACING
TOP CHORD Structural wood sheathing directly applied or 1-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=1-1-0, 3=1-1-0, 4=1-1-0, 5=1-1-0
Max Horiz 2=20 (LC 12), 5=20 (LC 12)
Max Uplift 2=-30 (LC 12), 5=-30 (LC 12)
Max Grav 2=117 (LC 1), 3=15 (LC 1), 4=13 (LC 3), 5=117 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-23/9
BOT CHORD 2-4=-6/17

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 30 lb uplift at joint 2.
 - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 5.
 - 9) 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.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



February 24, 2023

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

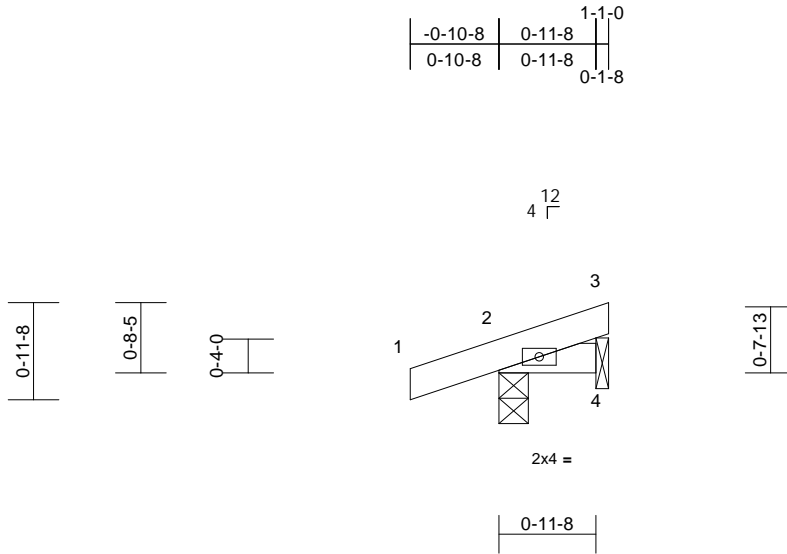
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Roof	156814326
Q2200849	D02	Monopitch	3	1	Job Reference (optional)	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 5 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3=0-1-8
Max Horiz 2=20 (LC 12)
Max Uplift 2=-31 (LC 12)
Max Grav 2=117 (LC 1), 3=21 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-3=-14/9
BOT CHORD 2-4=-6/9

7) 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.

LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2.
 - 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.



February 24, 2023

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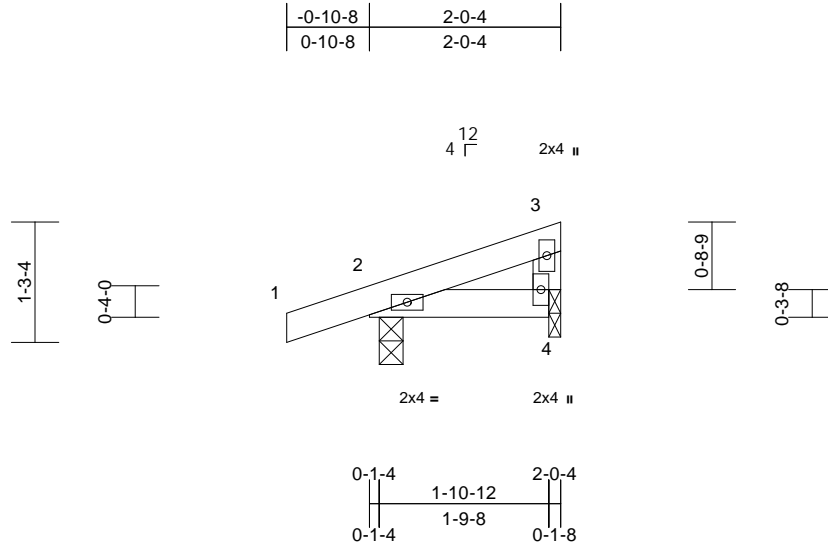
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss E01	Truss Type Monopitch	Qty 3	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	156814327
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

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Page: 1



Scale = 1:24.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	0.00	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR						Weight: 8 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 4=0-1-8

Max Horiz 2=39 (LC 12)
Max Uplift 2=-23 (LC 12)
Max Grav 2=140 (LC 1), 4=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

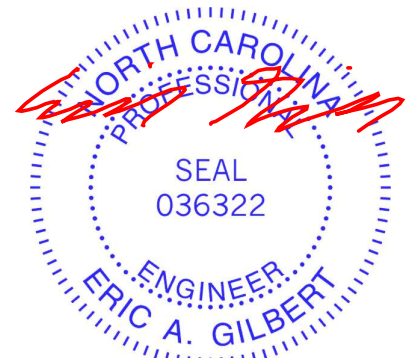
TOP CHORD 1-2=0/17, 2-3=-32/7, 3-4=-36/26
BOT CHORD 2-4=-20/32

NOTES

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFERS (directional) and C-C Exterior (2) zone;
cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFERS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2.
- 7) 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.

LOAD CASE(S) Standard



February 24, 2023

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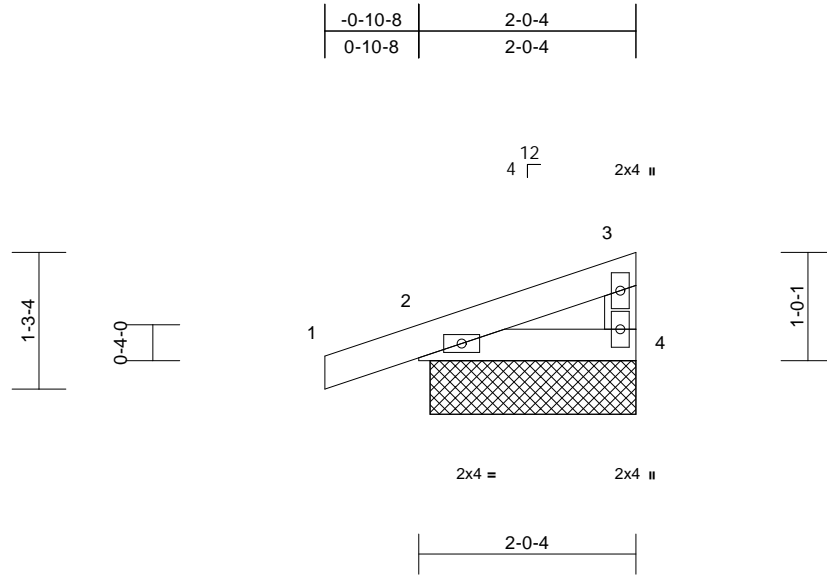
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Roof	I56814328
Q2200849	E02	Monopitch Supported Gable	1	1	Job Reference (optional)	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-0-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=1-11-0, 4=1-11-0, 5=1-11-0
 Max Horiz 2=23 (LC 11), 5=23 (LC 11)
 Max Uplift 2=-28 (LC 12), 5=-28 (LC 12)
 Max Grav 2=140 (LC 1), 4=66 (LC 1), 5=140 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/17, 2-3=-28/20, 3-4=-39/40
 BOT CHORD 2-4=-14/17

- NOTES**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 28 lb uplift at joint 2.
- 7) Non Standard bearing condition. Review required.
- 8) 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.

LOAD CASE(S) Standard



February 24, 2023

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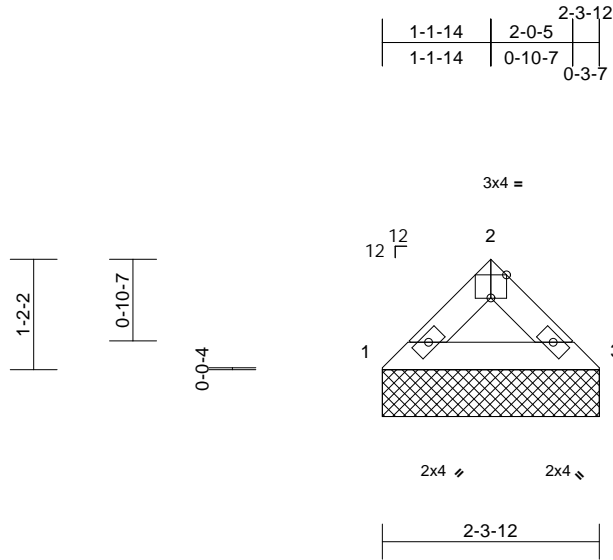
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Roof	I56814329
Q2200849	V01	Valley	1	1	Job Reference (optional)	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3

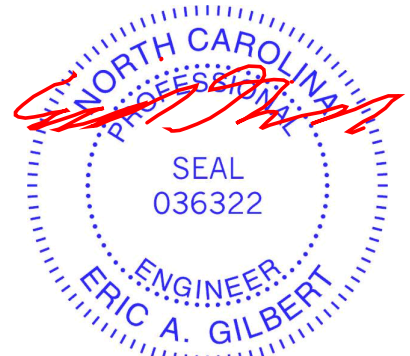
BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-3-12, 3=2-3-12
Max Horiz 1=19 (LC 11)
Max Uplift 1=-1 (LC 12), 3=-1 (LC 12)
Max Grav 1=92 (LC 1), 3=92 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-107/17, 2-3=-107/17
BOT CHORD 1-3=-3/76

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 1 lb uplift at joint 3.
- 9) 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.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 6-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



February 24, 2023

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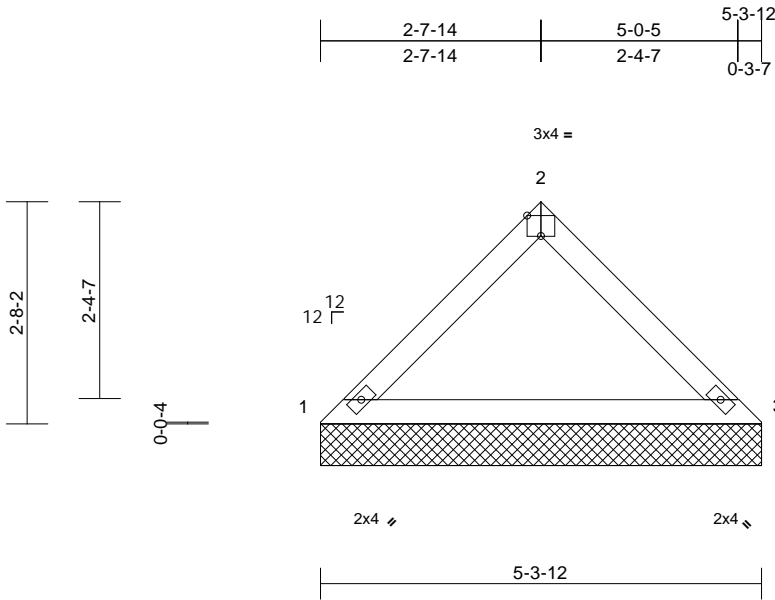
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Forget Me Not A Roof	I56814330
Q2200849	V02	Valley	1	1	Job Reference (optional)	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:04
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Page: 1



Scale = 1:27.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-3-12, 3=5-3-12
 Max Horiz 1=47 (LC 11)
 Max Uplift 1=-2 (LC 12), 3=-2 (LC 12)
 Max Grav 1=212 (LC 1), 3=212 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-272/40, 2-3=-272/40
 BOT CHORD 1-3=-17/195

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 6-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 2 lb uplift at joint 3.
- 9) 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.

LOAD CASE(S) Standard



February 24, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



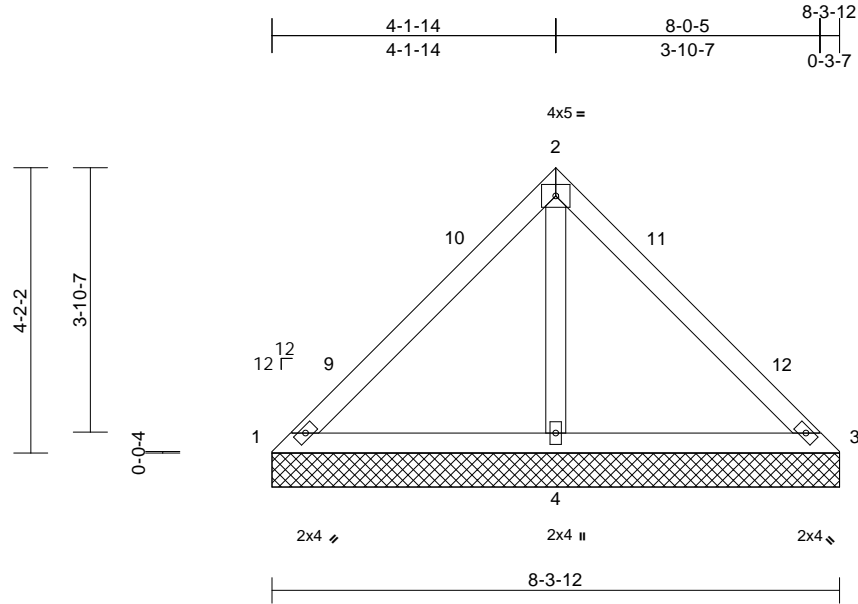
818 Soundside Road
 Edenton, NC 27932

Job Q2200849	Truss V03	Truss Type Valley	Qty 1	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	156814331
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Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Feb 23 09:17:04
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 34 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=8-3-12, 3=8-3-12, 4=8-3-12
Max Horiz 1=76 (LC 11)
Max Uplift 1=-16 (LC 22), 3=-16 (LC 21),
4=-68 (LC 12)
Max Grav 1=67 (LC 21), 3=67 (LC 22), 4=597
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-90/227, 2-3=-89/227
BOT CHORD 1-4=-195/129, 3-4=-195/129
WEBS 2-4=-438/155

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior (2) 0-0-4 to
3-0-4, Interior (1) 3-0-4 to 4-2-2, Exterior (2) 4-2-2 to
7-2-2, Interior (1) 7-2-2 to 8-4-0 zone; cantilever left and
right exposed; end vertical left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 16 lb uplift at joint
1, 16 lb uplift at joint 3 and 68 lb uplift at joint 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.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

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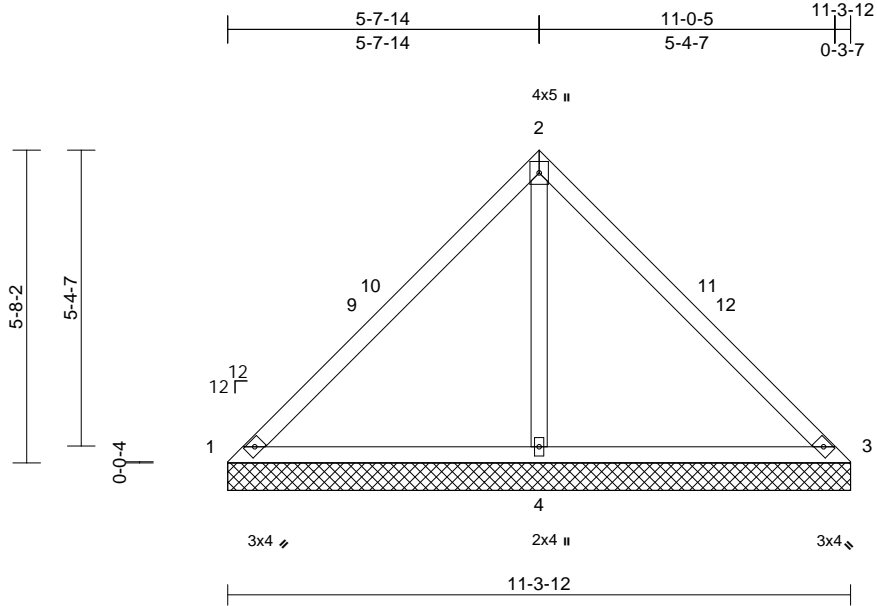
818 Soundside Road
Edenton, NC 27932

Job Q2200849	Truss V04	Truss Type Valley	Qty 1	Ply 1	Garman Homes - Forget Me Not A Roof Job Reference (optional)	156814332
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Carolina Structural Systems (Star, NC), Ether, NC - 27247,

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Page: 1



Scale = 1:41.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 47 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=11-3-12, 3=11-3-12, 4=11-3-12
Max Horiz 1=105 (LC 11)
Max Uplift 1=-33 (LC 22), 3=-33 (LC 21),
4=-90 (LC 12)
Max Grav 1=80 (LC 21), 3=80 (LC 22), 4=837
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

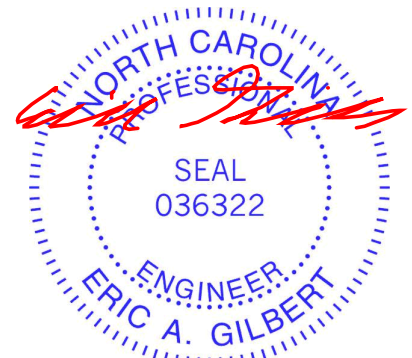
TOP CHORD 1-2=-121/343, 2-3=-121/343
BOT CHORD 1-4=-250/142, 3-4=-250/142
WEBS 2-4=-654/202

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 5-8-2, Exterior (2) 5-8-2 to 8-8-2, Interior (1) 8-8-2 to 11-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 33 lb uplift at joint 3 and 90 lb uplift at joint 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 24, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

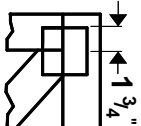
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

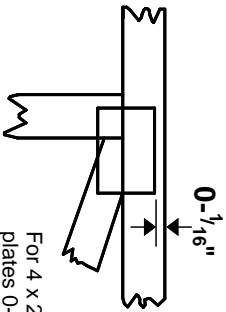
818 Soundside Road
Edenton, NC 27932

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



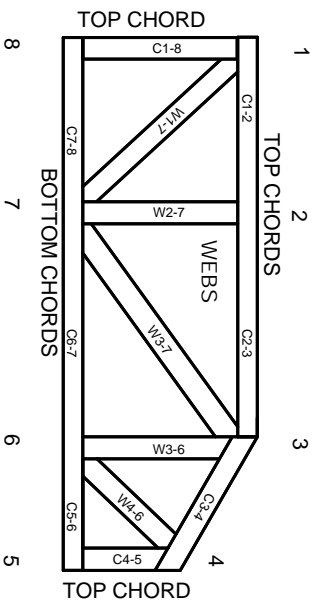
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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.

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MITek Engineering Reference Sheet: Mill-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. Rewriting 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.