MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

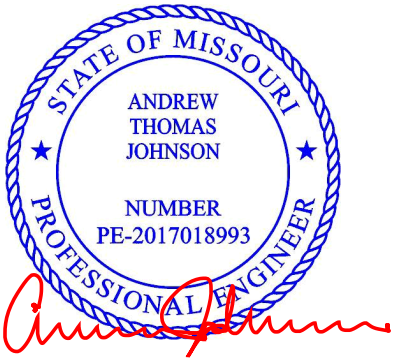
Re: 240595A
341 PR - Floor

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I64173943 thru I64173963

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: Engineering 001193



March 12,2024

Johnson, Andrew ,Engineer

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.

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F101	Floor Supported Gable	1	1	I64173943
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:27 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-mGYCFDOpz?b57xTl46BQWyjT_p1OMHEyEf0eguzbm0g

0-1-8 0-1-8

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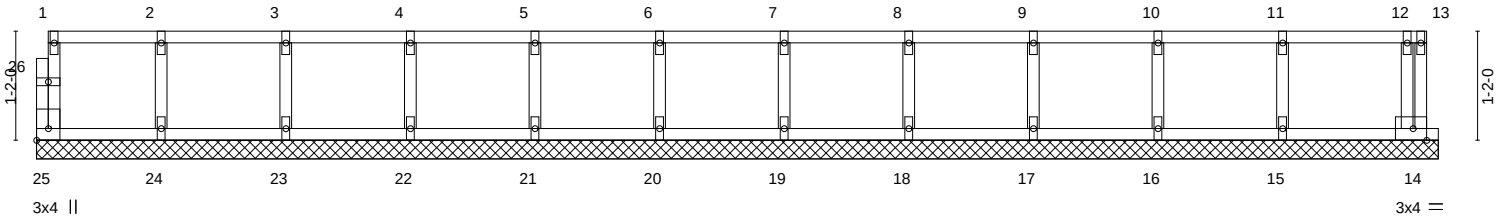

Plate Offsets (X,Y)-- [14:0-1-12,Edge], [25:Edge,0-1-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 48 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-
1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 12,2024

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F102	Floor	2	1	I64173944
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:28 2024 Page 1
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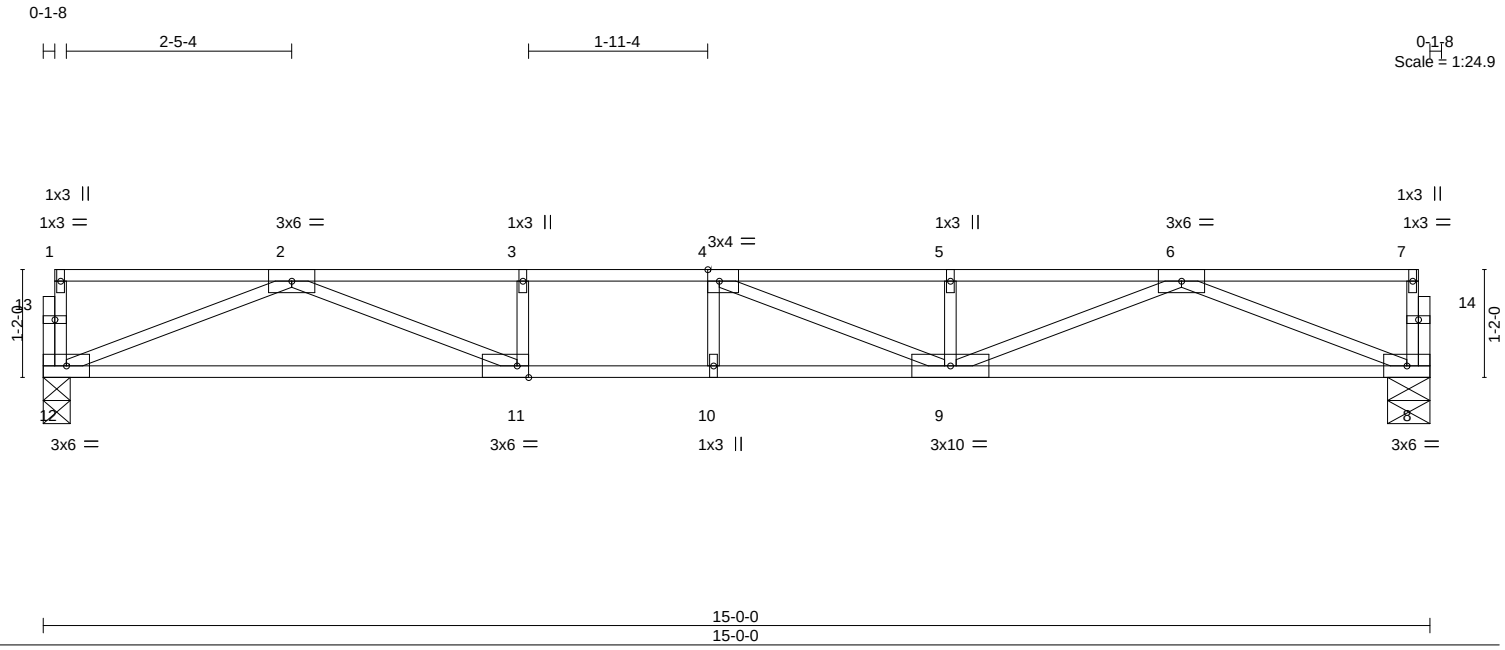


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [11:0-1-8,Edge]

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	0.66	Vert(LL)	-0.26	9-10	>685	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.33	9-10	>533	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 56 lb	FT = 20%F, 11%E

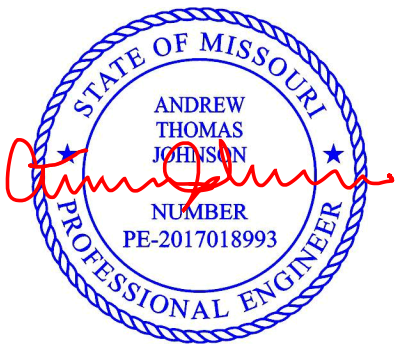
LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

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

REACTIONS. (size) 12=0-3-8, 8=0-5-8
Max Grav 12=644(LC 1), 8=644(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2202/0, 3-4=-2202/0, 4-5=-2142/0, 5-6=-2142/0
BOT CHORD 11-12=0/1352, 10-11=0/2202, 9-10=0/2202, 8-9=0/1346
WEBS 6-8=-1448/0, 2-12=-1453/0, 6-9=0/862, 2-11=0/951, 5-9=-260/0, 3-11=-261/0, 4-9=-388/167

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F103	FLOOR	17	1	I64173945
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:29 2024 Page 1
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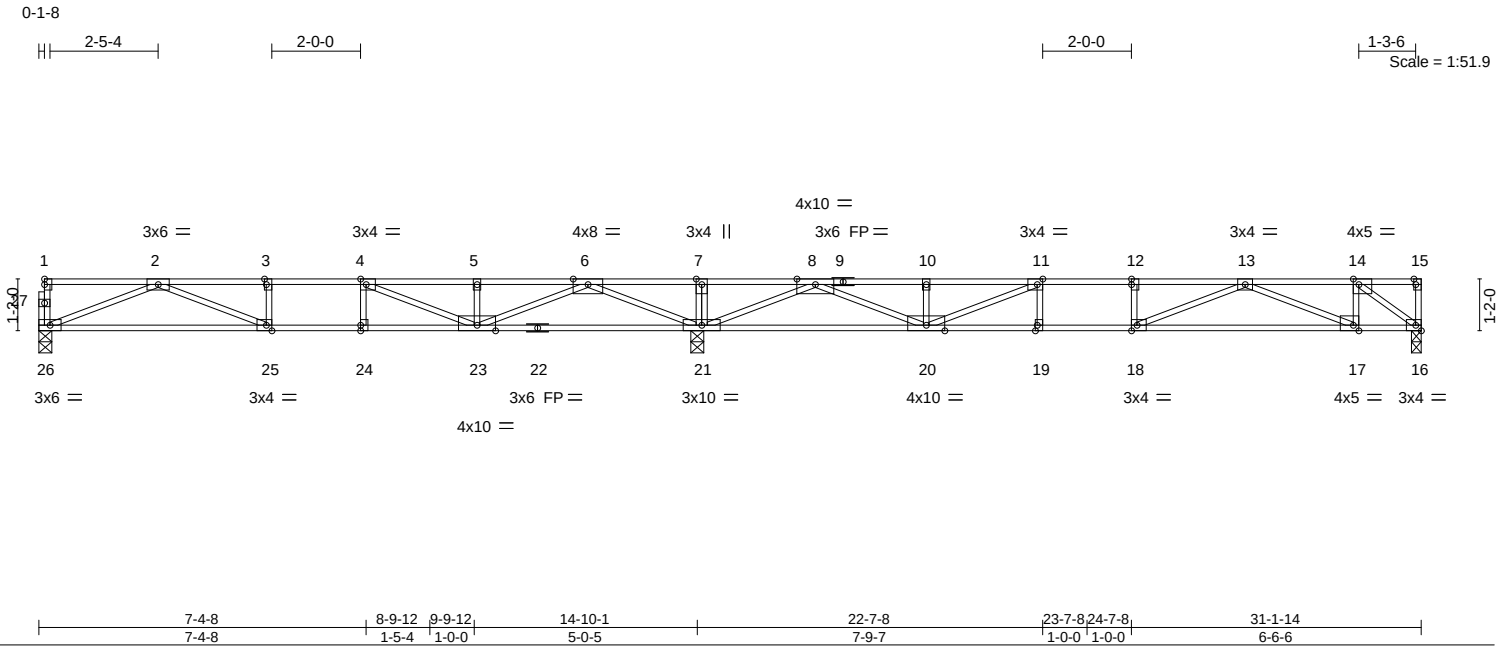


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,0-0-0], [14:0-1-8,Edge], [15:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [24:0-1-8,0-0-0], [25:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.27	17-18	>724	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.38	17-18	>515	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 115 lb	FT = 20%F, 11%E

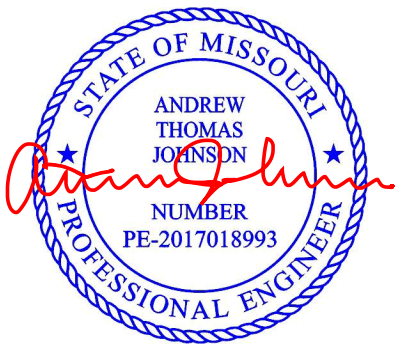
LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS. (size) 26=0-3-8, 16=0-2-10, 21=0-3-8
Max Grav 26=699(LC 3), 16=786(LC 4), 21=2041(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2142/0, 3-4=-2142/0, 4-5=-1641/331, 5-6=-1641/331, 6-7=0/2448, 7-8=0/2448, 8-10=-1914/257, 10-11=-1914/257, 11-12=-2666/0, 12-13=-2666/0, 13-14=-1015/0
BOT CHORD 25-26=0/1426, 24-25=0/2142, 23-24=0/2142, 21-23=-868/409, 20-21=-816/538, 19-20=0/2666, 18-19=0/2666, 17-18=0/2172, 16-17=0/1015
WEBS 5-23=-269/11, 7-21=-277/0, 4-23=-993/0, 2-25=-56/776, 2-26=-1533/0, 6-23=0/1499, 6-21=-2183/0, 11-20=-1197/0, 10-20=-261/27, 8-20=0/1646, 8-21=-2343/0, 13-18=-103/536, 13-17=-1254/0, 14-17=0/536, 14-16=-1263/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 2x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F104	Floor	3	1	I64173946
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:30 2024 Page 1
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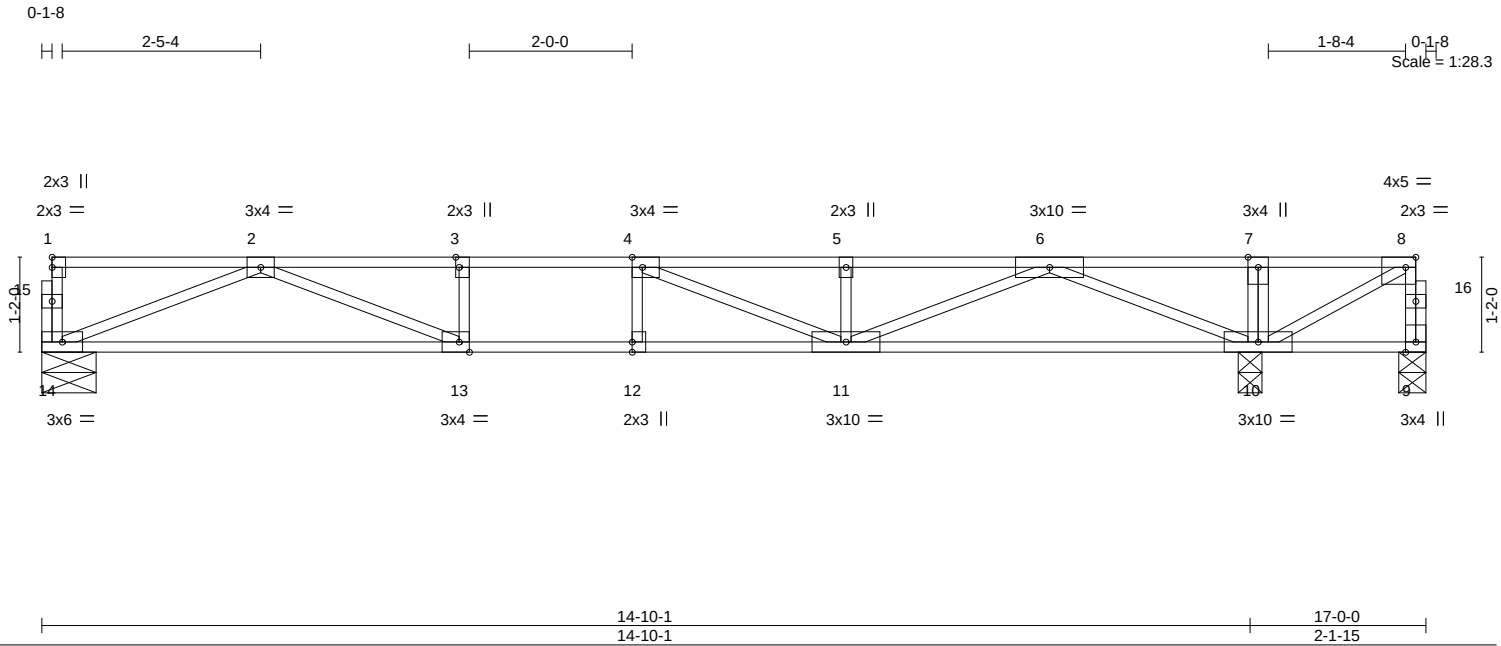

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,0-0-0], [13:0-1-8,Edge]

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	0.62	Vert(LL)	-0.13	11-12	>999	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.19	13-14	>943	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 65 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF 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 6-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 14=0-8-0, 10=0-3-8
Max Uplift 9=-778(LC 3)
Max Grav 14=540(LC 3), 10=1646(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=0/775, 2-3=-1602/0, 3-4=-1602/0, 4-5=-1129/0, 5-6=-1129/0, 6-7=0/1504, 7-8=0/1499
BOT CHORD 13-14=0/1093, 12-13=0/1602, 11-12=0/1602
WEBS 2-14=-1175/0, 6-10=-1668/0, 2-13=0/565, 6-11=0/1121, 4-11=-553/0, 8-10=-1658/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 778 lb uplift at joint 9.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F105A	Floor Supported Gable	1	1	I64173947
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:31 2024 Page 1
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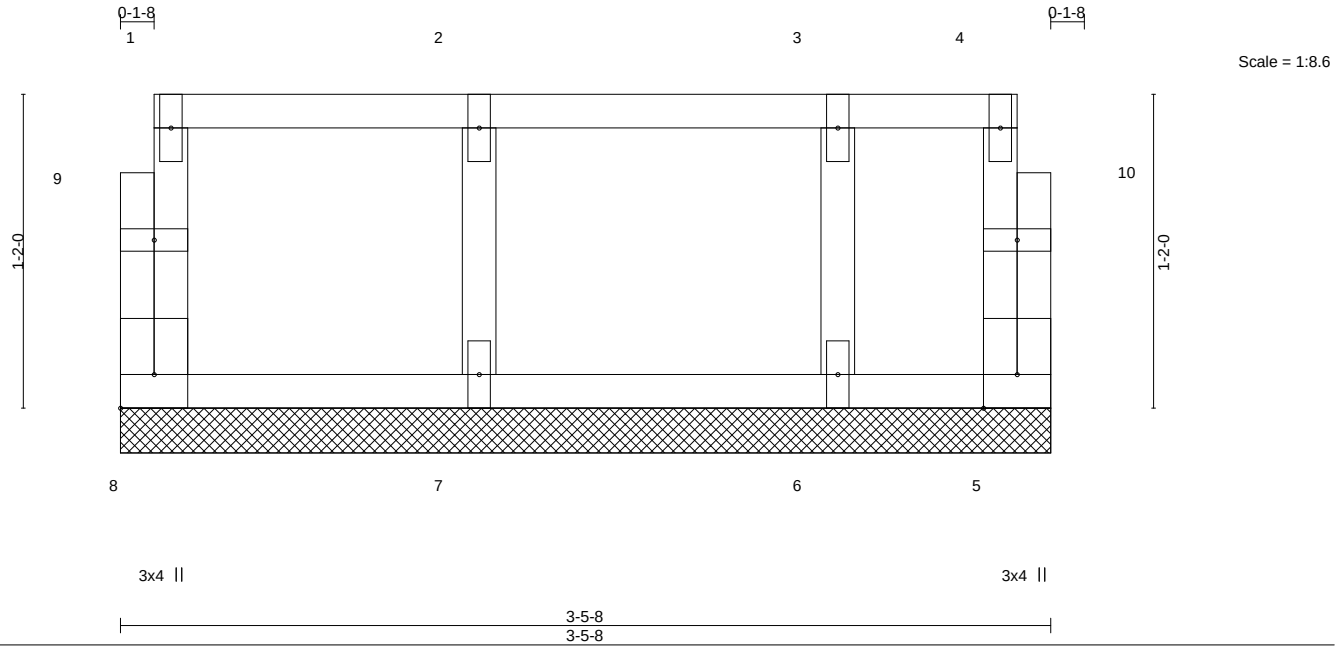

Plate Offsets (X,Y)-- [8:Edge,0-1-8]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-
1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F105B	GABLE	1	1	I64173948
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:32 2024 Page 1
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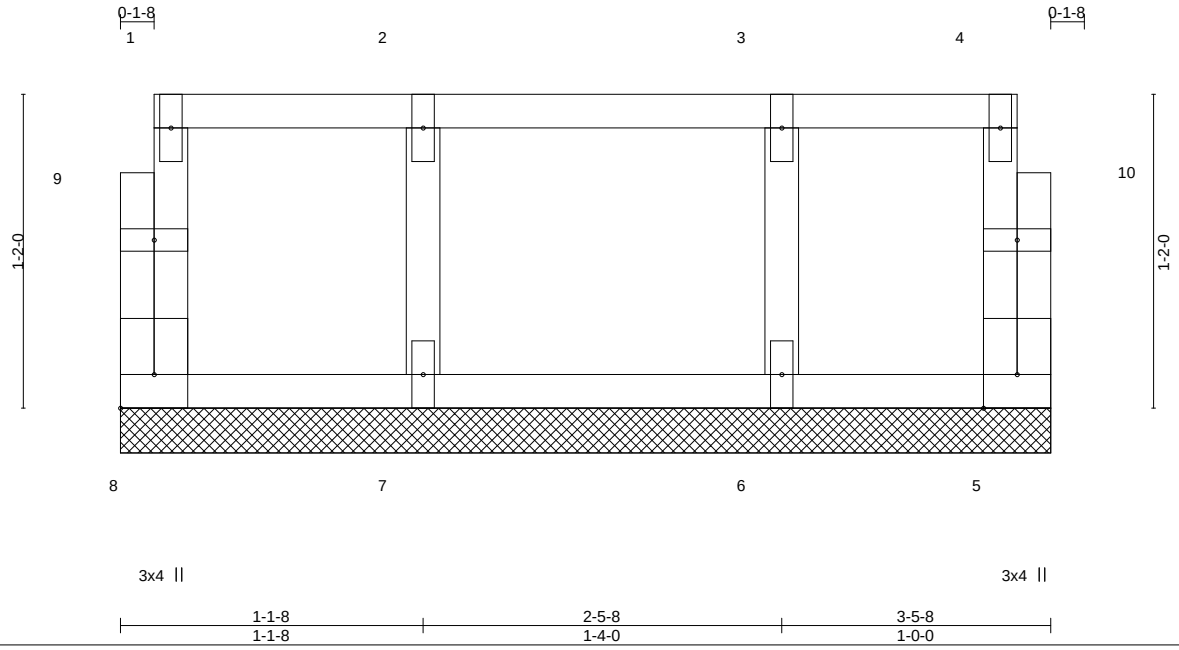

Plate Offsets (X,Y)-- [8:Edge,0-1-8]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 13 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-
1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F106	Floor	1	1	I64173949
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:33 2024 Page 1
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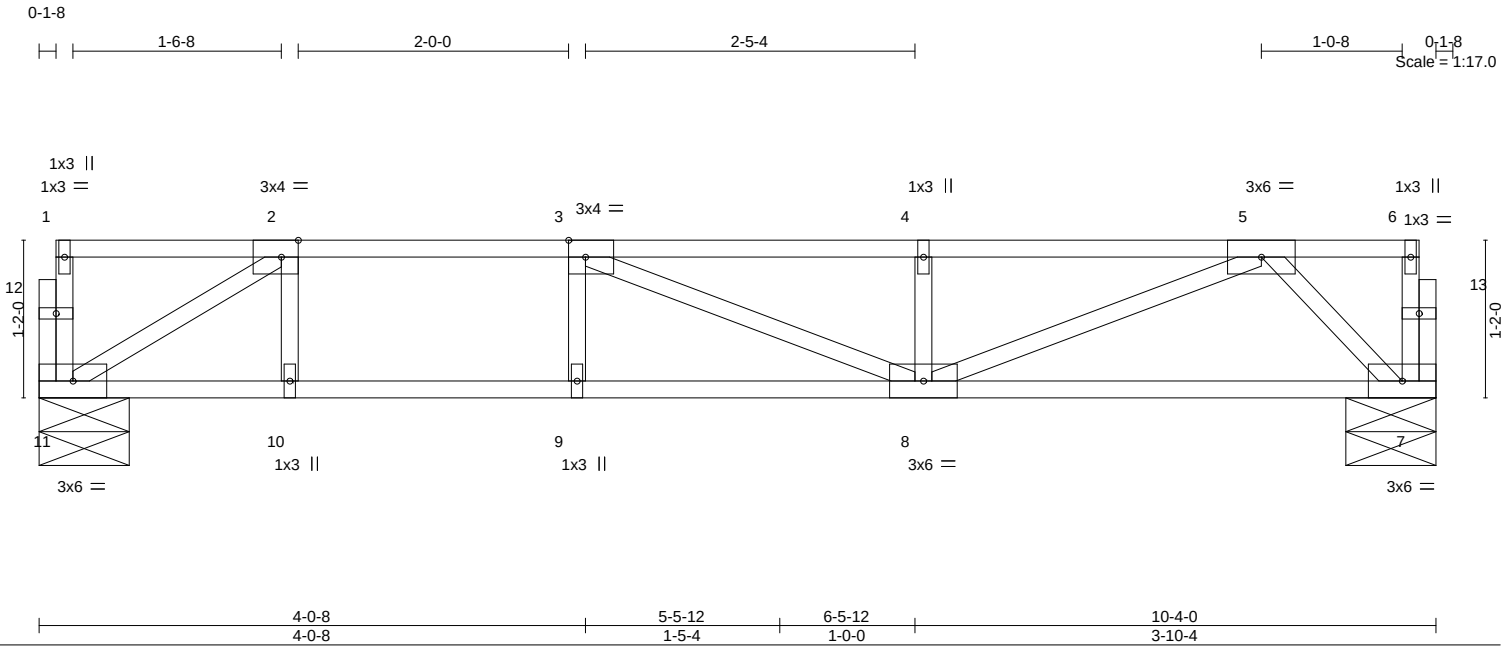


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge]

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	0.75	Vert(LL)	-0.19	8-9	>627	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.26	8-9	>466	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%F, 11%E

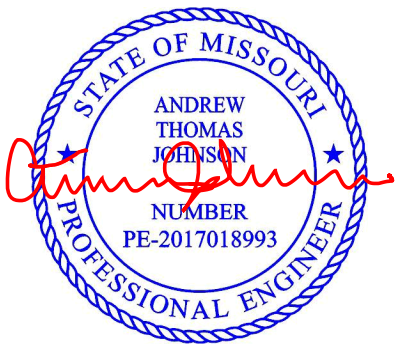
LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

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) 7=0-8-0, 11=0-8-0
Max Grav 7=439(LC 1), 11=439(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-852/0, 3-4=-1086/0, 4-5=-1086/0
BOT CHORD 10-11=0/852, 9-10=0/852, 8-9=0/852, 7-8=0/458
WEBS 4-8=-279/0, 3-8=-48/294, 5-8=0/680, 5-7=-611/0, 2-11=-996/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F107	GABLE	1	1	I64173950
					Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Mar 12 10:56:21 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-nZh1CEzfophanTkGkh7x2KUtxz6lQnjFsogsdAzbi7O

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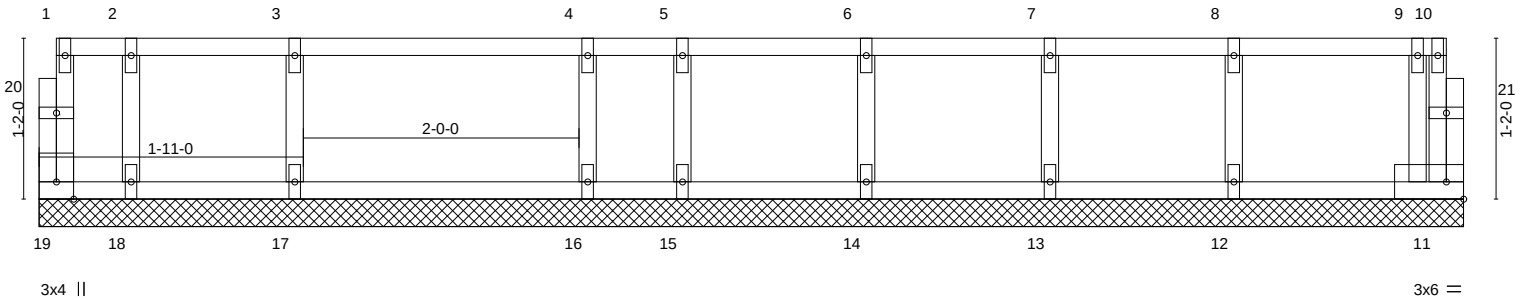

0-8-0	1-11-0	3-11-0	4-8-0	6-0-0	7-4-0	8-8-0	10-0-0	10-4-0
0-8-0	1-3-0	2-0-0	0-9-0	1-4-0	1-4-0	1-4-0	1-4-0	0-4-0

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 35 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 14, 17, 16, 13, 12, 15

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

NOTES-

1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F108	GABLE	1	1	I64173951
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:34 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-3cTrjcTCK8T5T0Ve_4p3IQWgAdQvVS5_rFCWQ_zbm0Z

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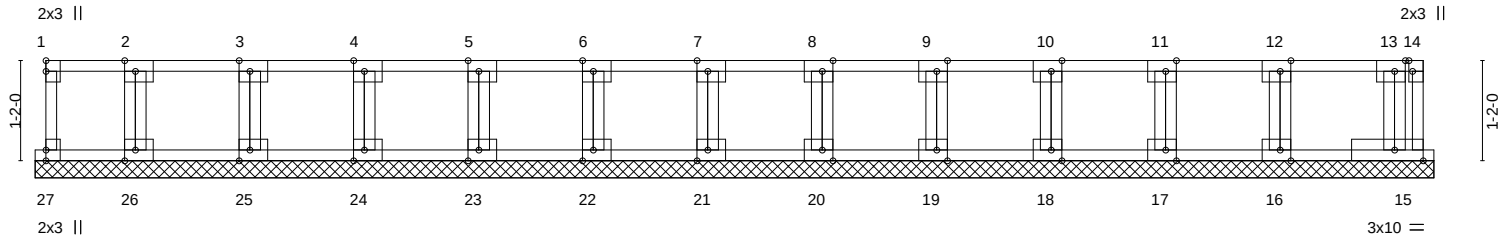

1-2-0	5-2-0	6-6-0	7-10-0	9-2-0	10-6-0	11-10-0	13-2-0	14-6-0	15-10-0	16-3-8
1-2-0	4-0-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-8

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [15:0-4-0,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-
1) All plates are 3x4 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

MiTek®
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Chesterfield, MO 63017
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F109	GABLE	1	1	I64173952
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:35 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-Xo1DwyUq5Scy5A4qYnLIre3q71m4Ev774vy3yQzbm0Y

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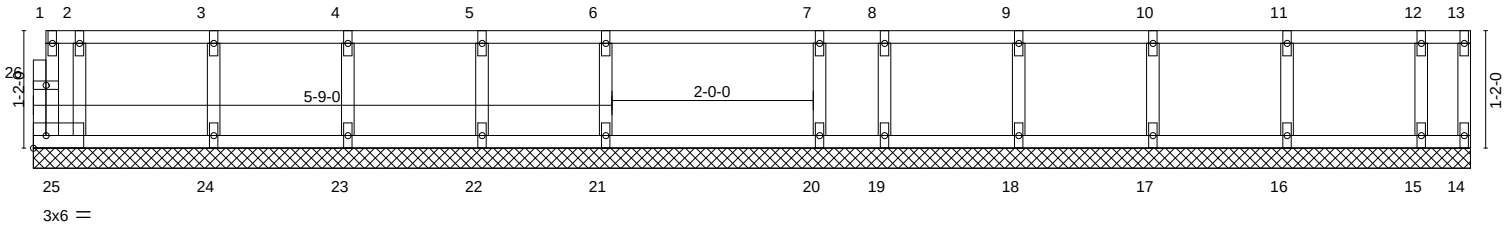

0-5-8	1-9-8	3-1-8	4-5-8	5-9-0	6-9-0	7-9-0	8-5-8	9-9-8	11-1-8	12-5-8	13-9-8	14-3-6
0-5-8	1-4-0	1-4-0	1-4-0	1-3-8	1-0-0	1-0-0	0-8-8	1-4-0	1-4-0	1-4-0	1-4-0	0-5-14

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 47 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-
1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F110	Floor Supported Gable	1	1	I64173953
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:36 2024 Page 1
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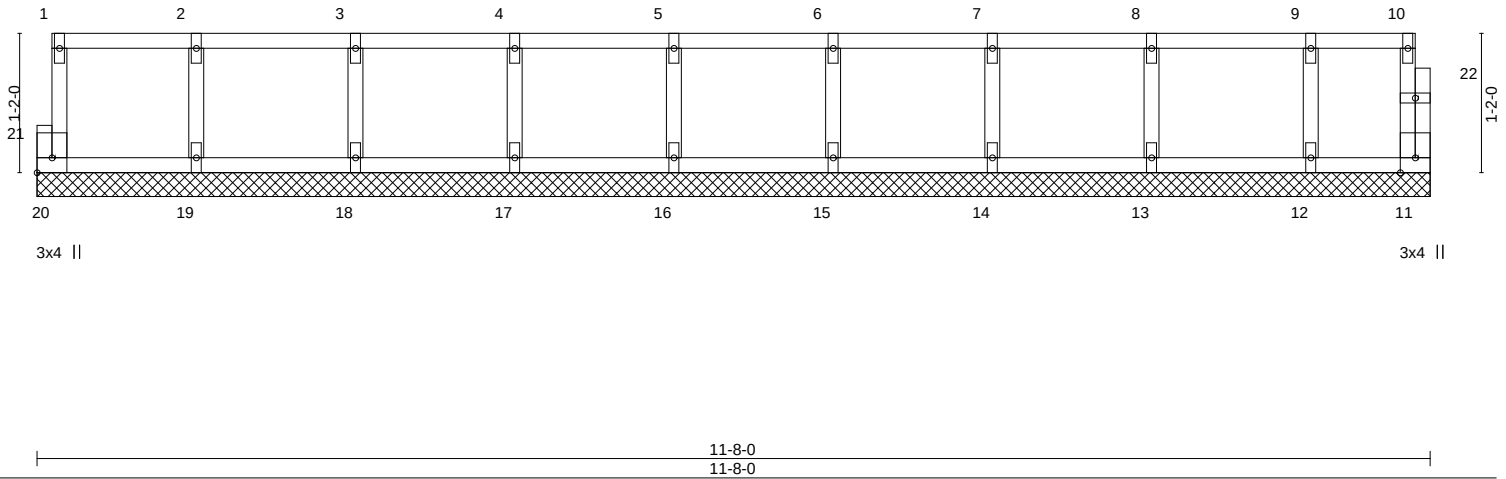

Plate Offsets (X,Y)-- [20:Edge,0-1-8]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 38 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES-
1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017
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RELEASE FOR CONSTRUCTION
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06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F111	Floor	1	1	I64173954
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:37 2024 Page 1
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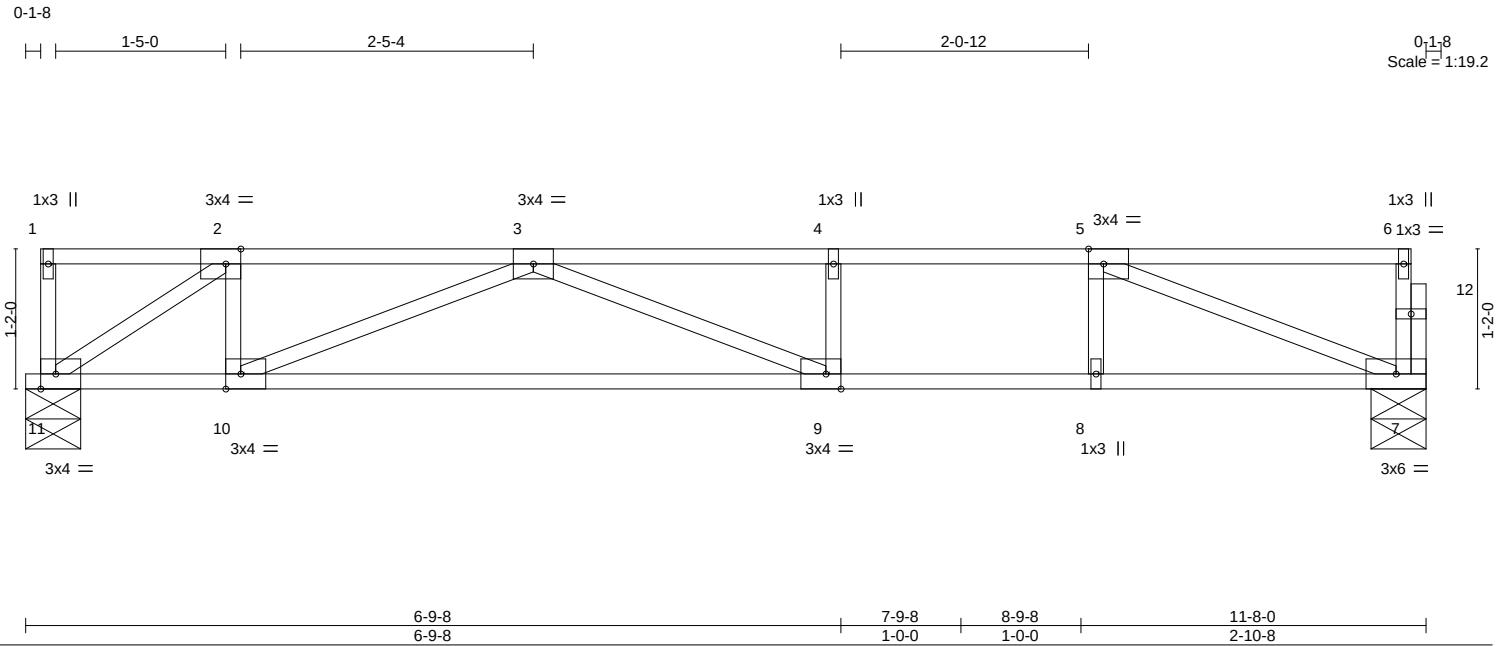

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [5:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

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	0.49	Vert(LL)	-0.21	9-10	>638	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.30	9-10	>453	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 43 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF 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) 11=0-5-8, 7=0-5-8
Max Grav 11=500(LC 1), 7=495(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-700/0, 3-4=-1192/0, 4-5=-1192/0
BOT CHORD 10-11=0/700, 9-10=0/1279, 8-9=0/1192, 7-8=0/1192
WEBS 3-10=-627/0, 2-10=0/314, 2-11=-845/0, 5-7=-1279/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F112	GABLE	1	1	I64173955
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:38 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-xNjMYzWiNN_XydpPDvu?SGgLGFnxRGyamtAjZlzbm0V

0-1-8 0-1-8

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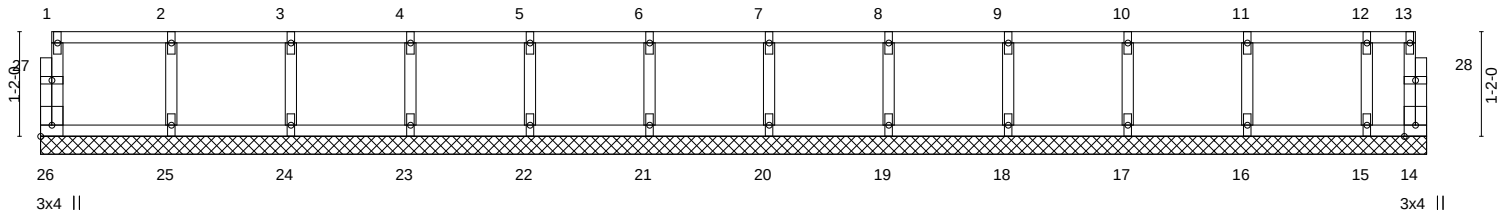

1-5-8	2-9-8	4-1-8	5-5-8	6-9-8	7-6-0	8-1-8	8-6-0	9-5-8	9-6-0	10-9-8	12-1-8	13-5-8	14-9-8	15-5-8
1-5-8	1-4-0	1-4-0	1-4-0	1-4-0	0-8-8	0-7-8	0-4-8	0-11-8	0-0-8	1-3-8	1-4-0	1-4-0	1-4-0	0-8-0

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

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 50 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-
1) All plates are 1x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 12,2024

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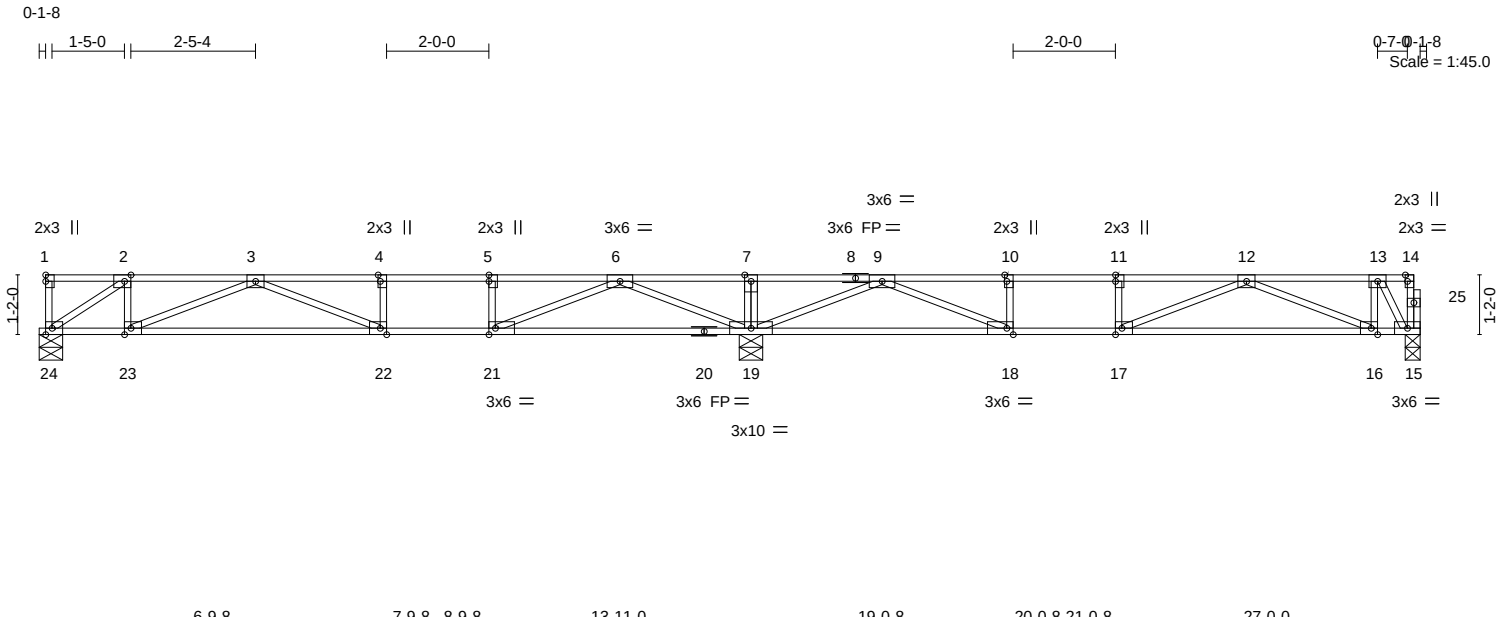
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F113	Floor	1	1	I64173956
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:39 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-PZHkmJXL8h6OZnObndPE?UDM0ey?Afyj?XwH5Bzbm0U



6-9-8	7-9-8	8-9-8	13-11-0	19-0-8	20-0-8	21-0-8	27-0-0
6-9-8	1-0-0	1-0-0	5-1-8	5-1-8	1-0-0	1-0-0	5-11-8

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,0-0-0], [10:0-1-8,Edge], [11:0-1-8,0-0-0], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,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	0.69	Vert(LL)	-0.23	22-23	>714	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.32	22-23	>509	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 100 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF 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, Except: 6-0-0 oc bracing: 19-21,18-19.

REACTIONS. (size) 24=0-5-8, 15=0-3-8, 19=0-5-8
Max Grav 24=574(LC 10), 15=533(LC 7), 19=1288(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-803/0, 3-4=-1734/0, 4-5=-1734/0, 5-6=-1734/0, 6-7=0/798, 7-9=0/798, 9-10=-1542/0, 10-11=-1542/0, 11-12=-1542/0, 12-13=-424/0
BOT CHORD 23-24=0/803, 22-23=0/1565, 21-22=0/1734, 19-21=-58/910, 18-19=-76/824, 17-18=0/1542, 16-17=0/1266, 15-16=0/396
WEBS 5-21=-307/0, 10-18=-277/0, 3-22=-49/251, 3-23=-826/0, 2-23=0/374, 2-24=-969/0, 6-19=-1431/0, 6-21=0/1023, 9-19=-1350/0, 9-18=0/910, 12-17=-6/299, 12-16=-913/0, 13-16=0/421, 13-15=-712/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

March 12,2024

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F114	FLOOR	8	1	I64173957
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:40 2024 Page 1
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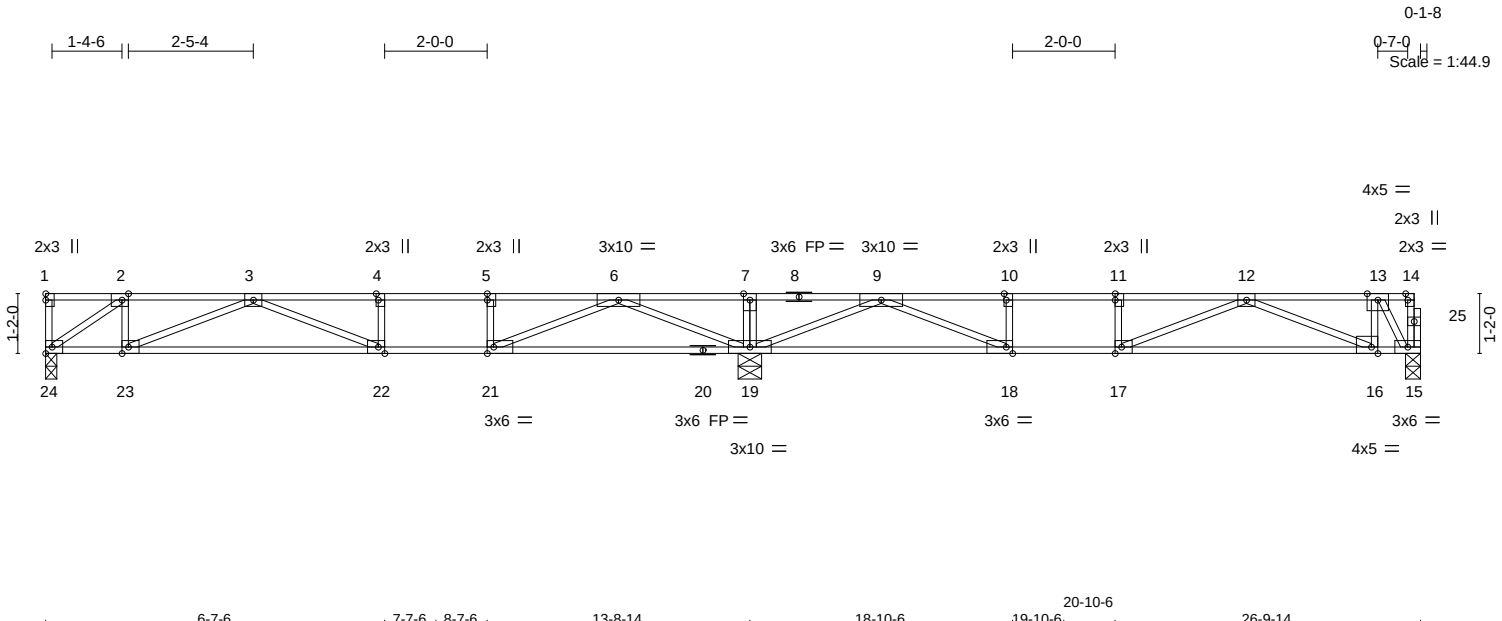

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,0-0-0], [10:0-1-8,Edge], [11:0-1-8,0-0-0], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.25	22-23	>644	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.35	22-23	>463	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 99 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF 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, Except: 6-0-0 oc bracing: 19-21,18-19.

REACTIONS. (size) 15=0-3-8, 24=0-2-10, 19=0-5-8
Max Grav 15=668(LC 7), 24=717(LC 10), 19=1602(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-977/0, 3-4=-2166/0, 4-5=-2166/0, 5-6=-2166/0, 6-7=0/966, 7-9=0/966, 9-10=-1941/0, 10-11=-1941/0, 11-12=-1941/0, 12-13=-534/0
BOT CHORD 23-24=0/977, 22-23=0/1936, 21-22=0/2166, 19-21=-54/1159, 18-19=-74/1056, 17-18=0/1941, 16-17=0/1588, 15-16=0/498
WEBS 5-21=-364/0, 10-18=-333/0, 7-19=-294/0, 3-22=-38/325, 3-23=-1039/0, 2-23=0/474, 2-24=-1192/0, 6-19=-1784/0, 6-21=0/1251, 9-19=-1688/0, 9-18=0/1121, 12-17=0/383, 12-16=-1142/0, 13-16=0/530, 13-15=-896/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 12,2024

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F115	Floor	2	1	I64173958
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:41 2024 Page 1
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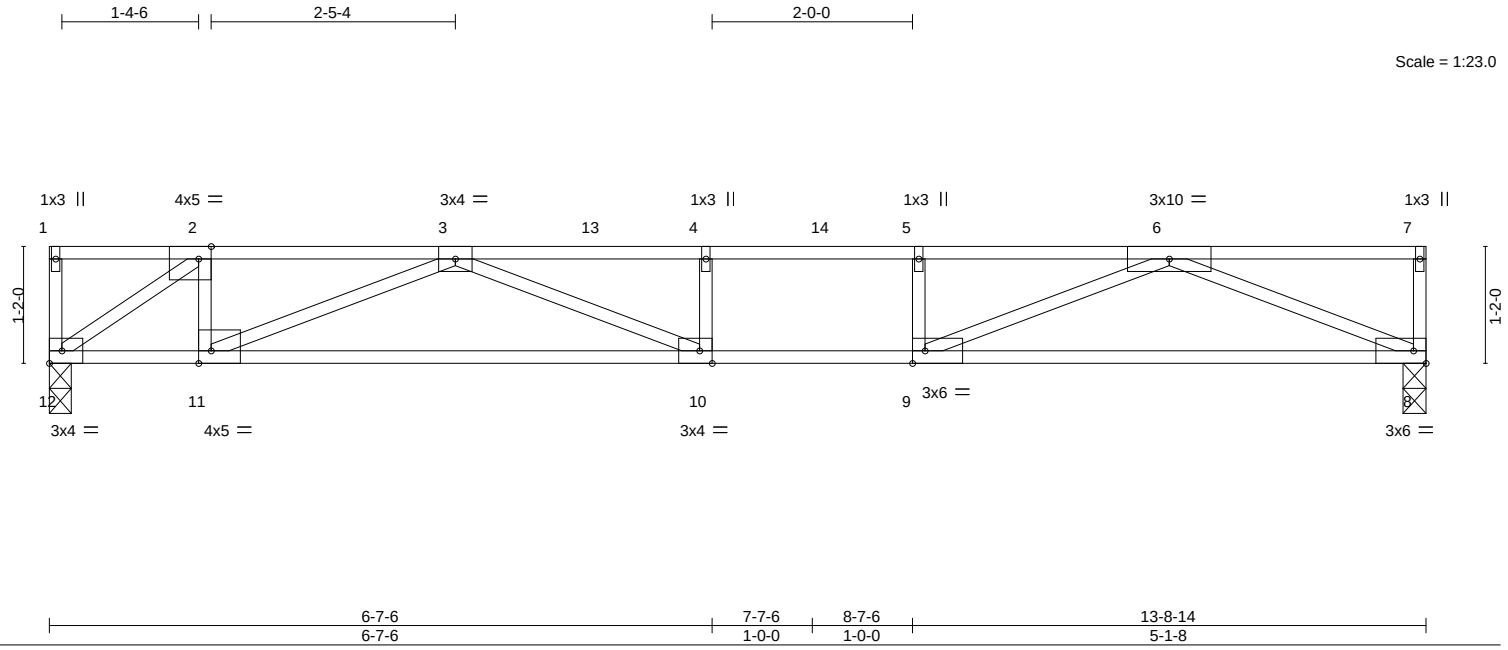

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

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	0.62	Vert(LL)	-0.17	10-11	>948	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.33	10-11	>492	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 50 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF 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) 12=0-2-10, 8=0-2-12
Max Grav 12=692(LC 1), 8=670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-949/0, 3-4=-2329/0, 4-5=-2329/0, 5-6=-2329/0
BOT CHORD 11-12=0/949, 10-11=0/2021, 9-10=0/2329, 8-9=0/1376
WEBS 5-9=-301/0, 3-10=0/532, 3-11=-1162/0, 2-11=0/515, 2-12=-1158/0, 6-8=-1490/0, 6-9=0/1080

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 8.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S)
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-12=-8, 1-13=-80, 13-14=-110, 7-14=-80
Concentrated Loads (lb)
Vert: 13=-95
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-12=-8, 1-13=-80, 13-14=-110, 7-14=-80
Concentrated Loads (lb)
Vert: 13=-95
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-12=-8, 1-13=-80, 13-14=-110, 5-14=-80, 5-7=-16
Concentrated Loads (lb)
Vert: 13=-95

March 12,2024

Continued on page 2

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LOAD CASE(S)

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 8-12=-8, 1-13=-16, 4-13=-46, 4-14=-110, 7-14=-80
   Concentrated Loads (lb)
   Vert: 13=-95
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 8-12=-8, 1-13=-80, 13-14=-110, 5-14=-80, 5-7=-16
   Concentrated Loads (lb)
   Vert: 13=-95
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 8-12=-8, 1-13=-16, 4-13=-46, 4-14=-110, 7-14=-80
   Concentrated Loads (lb)
   Vert: 13=-95

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F116	Floor	4	1	I64173959
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:42 2024 Page 1
ID:WYZ_1VivZZ6n33tXgg8dOszuNxq-q8ytOLZDRcUyRF6ASlzxd6rtgs?DN?h9hV8xiWzbm0R

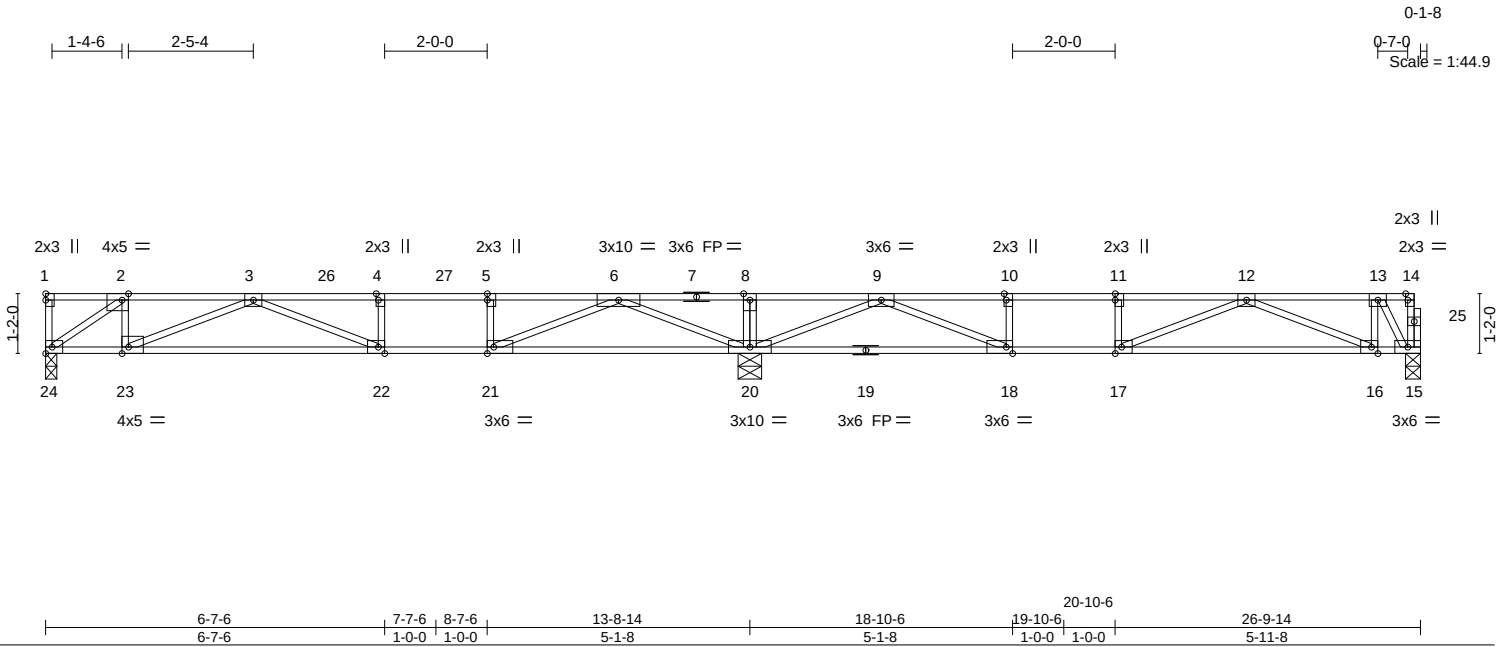

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,0-0-0], [10:0-1-8,Edge], [11:0-1-8,0-0-0], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge]

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	0.67	Vert(LL)	-0.18	22-23	>911	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.35	22-23	>475	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 7-14: 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 15-19: 2x4 SPF No.2(flat)
WEBS 2x4 SPF 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) 15=0-3-8, 20=0-5-8, 24=0-2-10
Max Grav 15=538(LC 7), 20=1340(LC 1), 24=676(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-927/0, 3-4=-2213/0, 4-5=-2213/0, 5-6=-2213/0, 6-8=0/713, 8-9=0/713, 9-10=-1578/0, 10-11=-1578/0, 11-12=-1578/0, 12-13=-427/0
BOT CHORD 23-24=0/927, 22-23=0/1960, 21-22=0/2213, 20-21=0/1192, 18-20=0/875, 17-18=0/1578, 16-17=0/1283, 15-16=0/399
WEBS 5-21=-363/0, 10-18=-267/0, 9-20=-1326/0, 9-18=0/877, 12-17=0/322, 6-20=-1598/0, 6-21=0/1251, 12-16=-927/0, 13-16=0/424, 13-15=-717/0, 3-22=0/330, 3-23=-1119/0, 2-23=0/502, 2-24=-1131/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 14-27=-80
Concentrated Loads (lb)
Vert: 26=-95
2) Dead: Lumber Increase=1.00, Plate Increase=1.00

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER
March 12,2024

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 14-27=-80
Concentrated Loads (lb)
Vert: 26=-95

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 8-27=-80, 8-14=-16
Concentrated Loads (lb)
Vert: 26=-95

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-16, 26-27=-46, 8-27=-16, 8-14=-80
Concentrated Loads (lb)
Vert: 26=-95

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 8-27=-80, 8-14=-16
Concentrated Loads (lb)
Vert: 26=-95

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-16, 26-27=-46, 8-27=-16, 8-14=-80
Concentrated Loads (lb)
Vert: 26=-95

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 5-27=-80, 5-8=-16, 8-14=-80
Concentrated Loads (lb)
Vert: 26=-95

8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-16, 4-26=-46, 4-27=-110, 14-27=-80
Concentrated Loads (lb)
Vert: 26=-95

9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 11-27=-80, 11-14=-16
Concentrated Loads (lb)
Vert: 26=-95

10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 8-27=-80, 8-10=-16, 10-14=-80
Concentrated Loads (lb)
Vert: 26=-95

11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 5-27=-80, 5-8=-16, 8-14=-80
Concentrated Loads (lb)
Vert: 26=-95

12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-16, 4-26=-46, 4-27=-110, 14-27=-80
Concentrated Loads (lb)
Vert: 26=-95

13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 11-27=-80, 11-14=-16
Concentrated Loads (lb)
Vert: 26=-95

14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-24=-8, 1-26=-80, 26-27=-110, 8-27=-80, 8-10=-16, 10-14=-80
Concentrated Loads (lb)
Vert: 26=-95

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F117	FLOOR	5	1	I64173960
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:43 2024 Page 1
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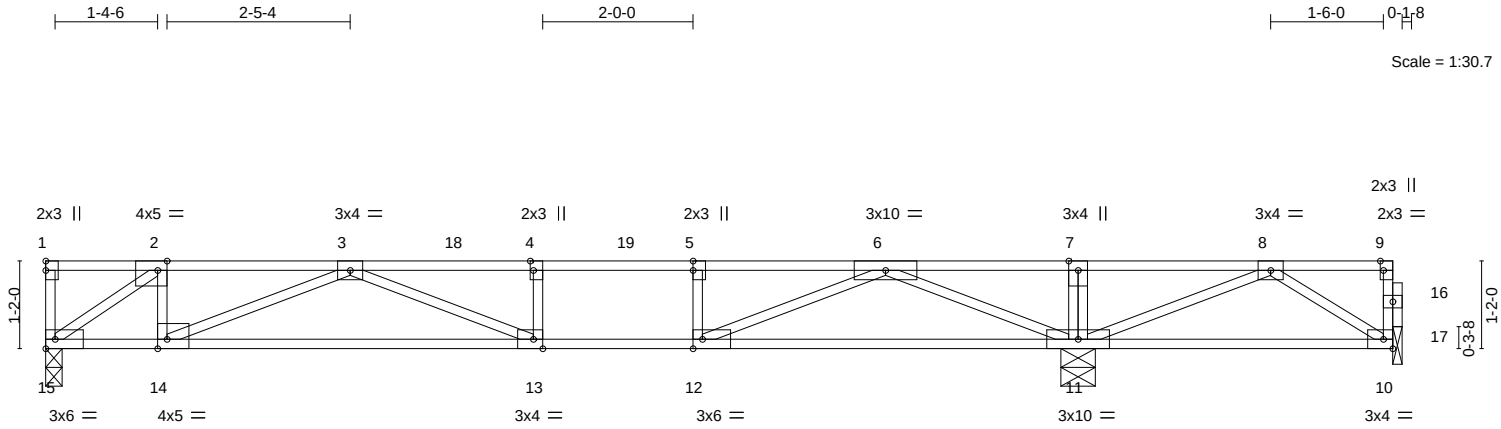


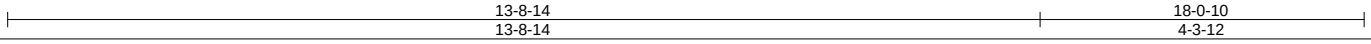


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,0-0-0], [9:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.21	13-14	>797	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.38	13-14	>429	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 68 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

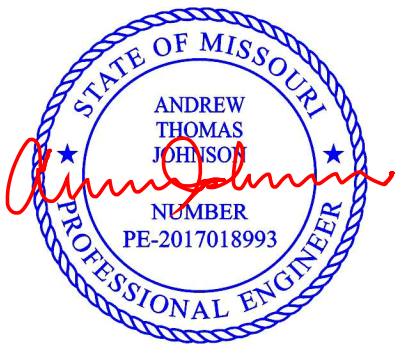
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (size) 15=0-2-10, 11=0-5-8, 17=0-1-8
Max Uplift 17=-71(LC 3)
Max Grav 15=805(LC 3), 11=1227(LC 1), 17=247(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1104/0, 3-4=-2547/0, 4-5=-2547/0, 5-6=-2547/0, 6-7=-131/719, 7-8=-131/719
BOT CHORD 14-15=0/1104, 13-14=0/2297, 12-13=0/2547, 11-12=0/1284, 10-11=-161/265
WEBS 5-12=-406/0, 7-11=-297/0, 3-13=0/433, 3-14=-1293/0, 2-14=0/586, 2-15=-1347/0, 6-11=-1890/0, 6-12=0/1380, 8-11=-700/0, 8-10=-319/194

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15, 17.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 17.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-15=-10, 1-18=-100, 18-19=-130, 9-19=-100
Concentrated Loads (lb)
Vert: 18=-95
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-15=-10, 1-18=-100, 18-19=-130, 9-19=-100
Concentrated Loads (lb)
Vert: 18=-95



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Continued on page 2

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LOAD CASE(S) Standard

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-100, 18-19=-130, 7-19=-100, 7-9=-20
   Concentrated Loads (lb)
   Vert: 18=-95
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-20, 18-19=-50, 7-19=-20, 7-9=-100
   Concentrated Loads (lb)
   Vert: 18=-95
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-100, 18-19=-130, 7-19=-100, 7-9=-20
   Concentrated Loads (lb)
   Vert: 18=-95
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-20, 18-19=-50, 7-19=-20, 7-9=-100
   Concentrated Loads (lb)
   Vert: 18=-95
7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-100, 18-19=-130, 5-19=-100, 5-7=-20, 7-9=-100
   Concentrated Loads (lb)
   Vert: 18=-95
8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-20, 4-18=-50, 4-19=-130, 9-19=-100
   Concentrated Loads (lb)
   Vert: 18=-95
9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-100, 18-19=-130, 5-19=-100, 5-7=-20, 7-9=-100
   Concentrated Loads (lb)
   Vert: 18=-95
10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 10-15=-10, 1-18=-20, 4-18=-50, 4-19=-130, 9-19=-100
   Concentrated Loads (lb)
   Vert: 18=-95

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F118	GABLE	1	1	I64173961
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:45 2024 Page 1
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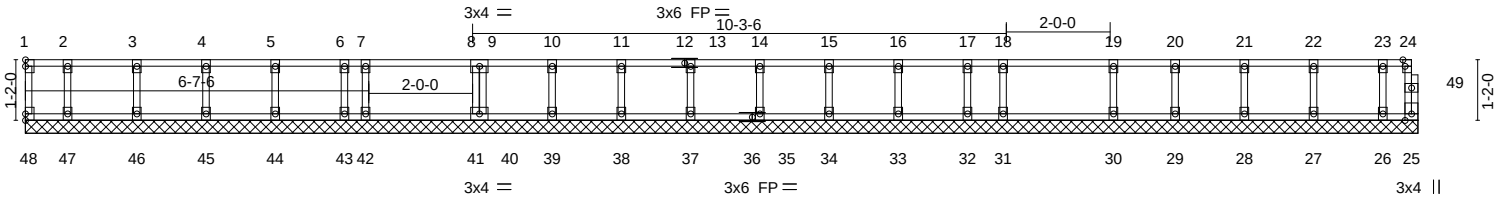

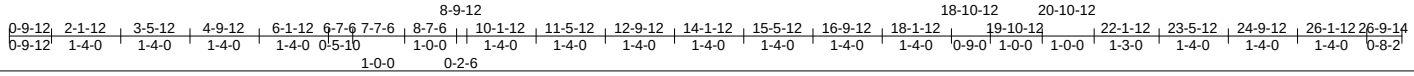

Plate Offsets (X,Y)-- [24:0-1-8,Edge]

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	25	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 86 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 26-9-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 40
Max Grav All reactions 250 lb or less at joint(s) 48, 25, 47, 46, 45, 44, 43, 42, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 41

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

NOTES-
1) All plates are 2x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 12,2024

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/26/2024 8:32:00

Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F119	Floor Girder	1	1	I64173962
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:46 2024 Page 1
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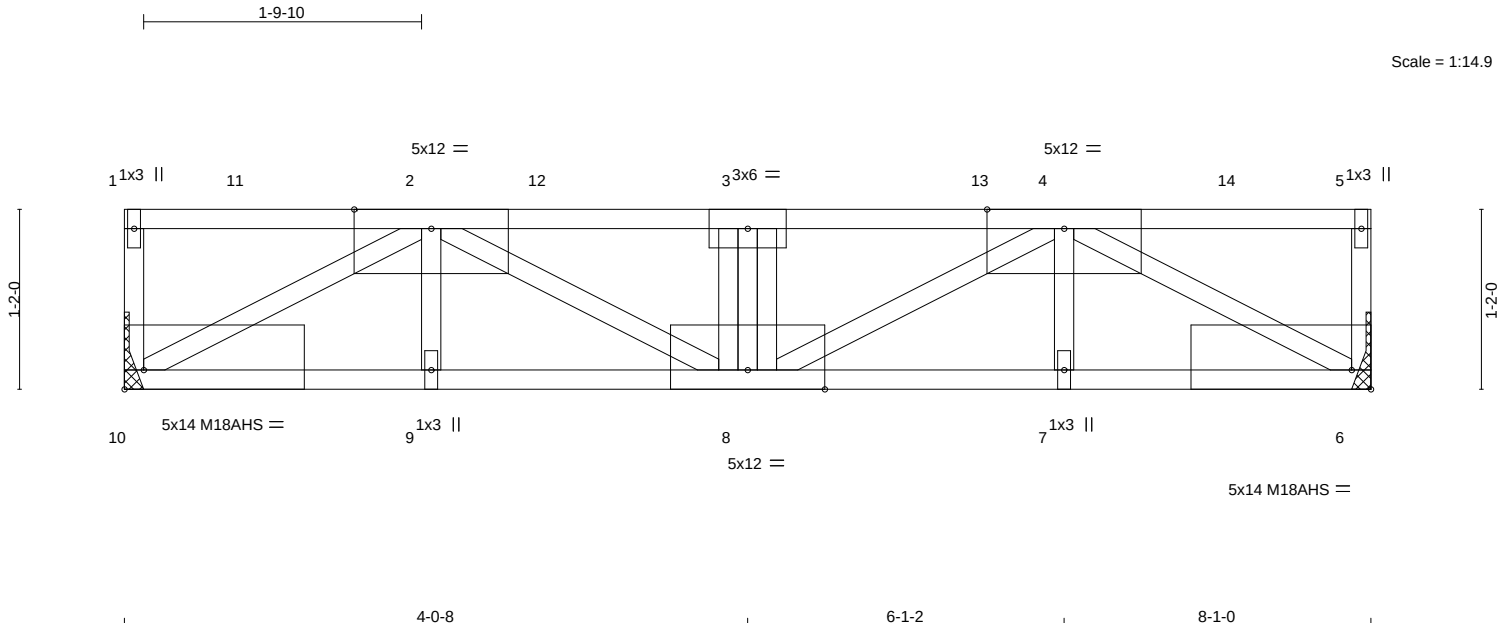

Plate Offsets (X,Y)-- [6:Edge,0-1-8], [10:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.08	8	>999	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.11	8	>850	360	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	6	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 35 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2400F 2.0E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF 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) 6=Mechanical, 10=Mechanical
Max Grav 6=2123(LC 1), 10=2107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-400/0, 5-6=-404/0, 2-3=-4209/0, 3-4=-4209/0
BOT CHORD 9-10=0/3135, 8-9=0/3135, 7-8=0/3156, 6-7=0/3156
WEBS 4-6=-3587/0, 2-10=-3564/0, 4-8=0/1181, 3-8=-1061/0, 2-8=0/1204

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 177 lb down and 145 lb up at 0-9-15, 169 lb down and 153 lb up at 2-9-7, 169 lb down and 153 lb up at 4-0-11, and 169 lb down and 153 lb up at 5-7-14, and 177 lb down and 145 lb up at 7-3-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-7, 1-5=-417(F=-350)
Concentrated Loads (lb)
Vert: 3=-169 11=-177 12=-169 13=-169 14=-177

March 12,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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Job	Truss	Truss Type	Qty	Ply	341 PR - Floor
240595A	F120	FLOOR GIRDER	2	2	I64173963

Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 12 06:30:46 2024 Page 1
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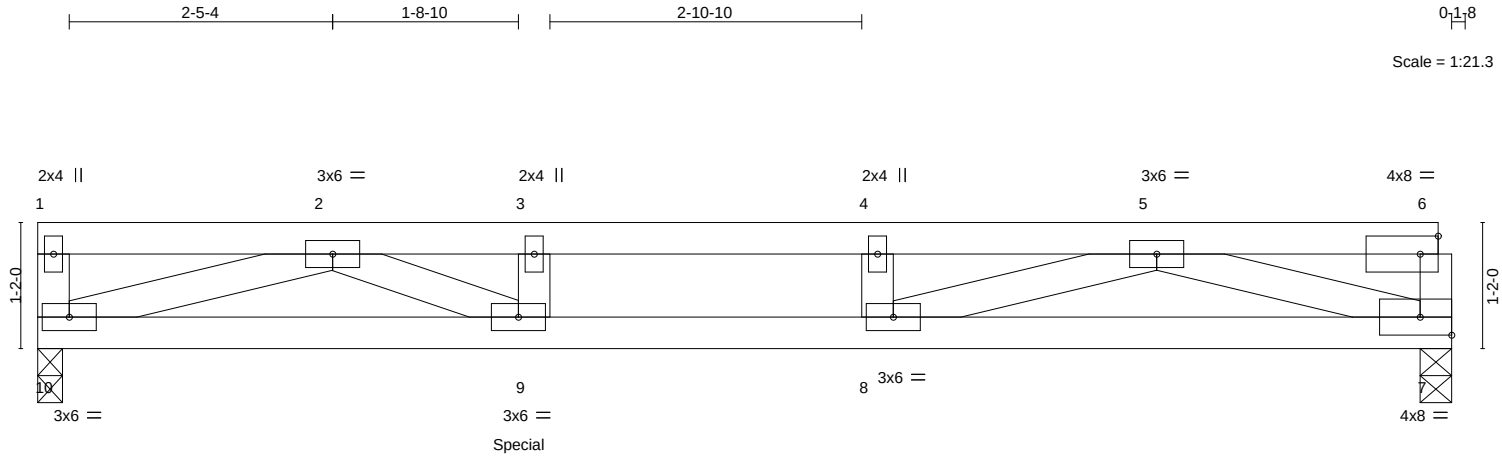

2-8-12	4-7-2	5-7-8	6-1-8	13-1-0
2-8-12	1-10-6	1-0-6	0-6-0	6-11-8

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	0.64	Vert(LL)	-0.15	9	>999	600	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.20	9	>759	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.03	7	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 86 lb	FT = 11%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x4 SPF No.2

BRACING-

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

REACTIONS. (size) 10=0-2-12, 7=0-3-8
Max Grav 10=1262(LC 1), 7=936(LC 1)

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

TOP CHORD	2-3=-4610/0, 3-4=-4610/0, 4-5=-4610/0
BOT CHORD	9-10=0/3191, 8-9=0/4610, 7-8=0/2396
WEBS	4-8=-536/0, 2-10=-3165/0, 5-8=0/2447, 5-7=-2457/0, 2-9=0/1672

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 0-7-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-3-0 oc.
   Webs 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 floor live loads have been considered for this design.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1073 lb down at 4-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 7-10=-8, 1-6=-80
   Concentrated Loads (lb)
   Vert: 9=-1073(B)

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

March 12,2024

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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, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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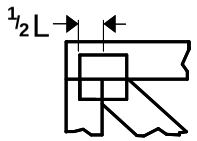
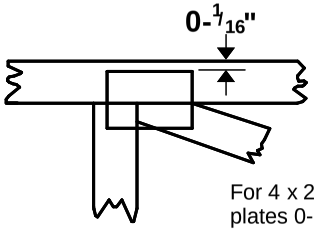
Symbols

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.

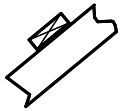
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

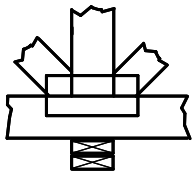
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

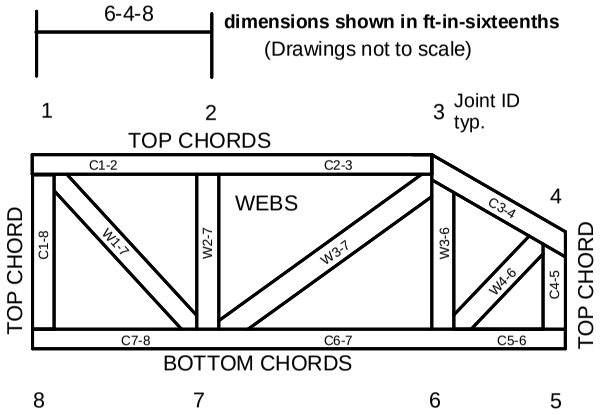


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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