

18" FLOOR TRUSSES AT 19.2" O.C. UNLESS OTHERWISE NOTED
- LABELLED ENDS OF TRUSSES ARE TYPICALLY LOCATED AT REAR AND LEFT SIDE OF LAYOUT UNLESS NOTED OTHERWISE
- 2X6 STRONGBACK BRIDGING IS REQUIRED; AT 10'-0" OR LESS
- DO NOT: CUT - DRILL THROUGH - REMOVE PLATES - OR ALTER TRUSSES WITHOUT REQUIRED APPROVAL OF ENGINEER
- REFER TO INDIVIDUAL TRUSS DRAWINGS PROVIDED FOR WEB BRACING, MULTI-PLY CONNECTION REQUIREMENTS AND DETAILS
- USE HANGERS WHERE NOTED AND REFER TO INCLUDED SPEC SHEETS FOR PROPER FASTENING SCHEDULE/NAILING PATTERN
- DRAFTSTOPPING IS REQUIRED IN FLOOR CAVITY EVERY 1000 SF OF USABLE SPACE

[illegible]



☒ **APPROVED**

☐ **APPROVED AS CORRECTED**

☐ **REVISE AND RESUBMIT**

☐ **REJECTED**

☐ **FOR INFORMATION ONLY**

Approval is only for general conformance with the design concept of the Project and the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to the materials and methods of construction; coordination of the work of all trades; and performing all work in a satisfactory manner. This approval does not modify Contractor's duty to comply with the Contract Documents.

BY janderson

DATE 6/4/2025

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FG01	Floor Girder	1	1	Job Reference (optional)

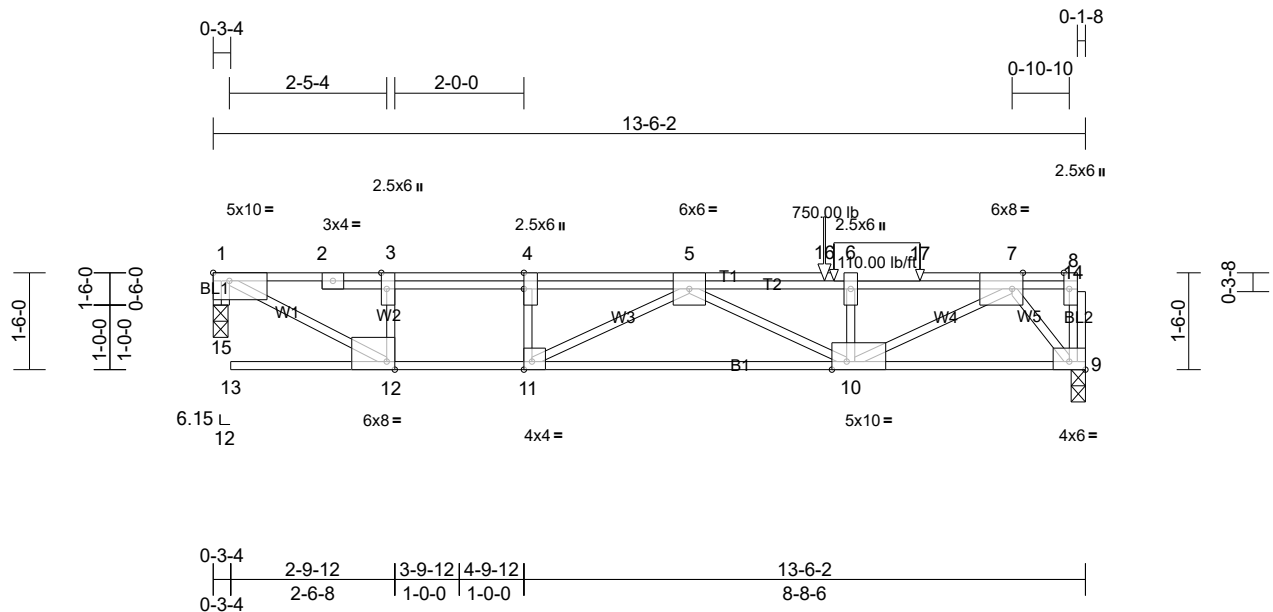


Plate Offsets (X, Y): [1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [7:0-2-0,Edge], [8:0-3-0,Edge], [9:Edge,0-1-8], [10:0-2-12,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	0.29	13	>551	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.40	10-11	>395	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	-0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SPF Stud(flat) *Except* W1,W4:2x4 SPF No.2(flat)
OTHERS 2x4 SPF Stud(flat)

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

REACTIONS (lb/size) 9=1335/0-2-10, (min. 0-1-8), 15=948/0-2-12, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1998/0, 2-3=-2015/0, 3-4=-1998/0, 4-5=-1998/0, 5-16=-3145/0, 6-16=-3145/0, 6-17=-3145/0, 7-17=-3145/0, 1-15=-948/0
BOT CHORD 11-12=0/1998, 10-11=0/3294, 9-10=0/1026
WEBS 3-12=-971/0, 4-11=0/676, 1-12=0/2256, 5-11=-1551/0, 6-10=-970/0, 7-10=0/2393, 7-9=-1682/0

JOINT STRESS INDEX
1 = 0.72, 2 = 0.00, 2 = 0.42, 3 = 0.33, 4 = 0.46, 5 = 0.60, 6 = 0.32, 7 = 0.89, 8 = 0.00, 9 = 0.72, 10 = 0.88, 11 = 0.74, 12 = 0.71, 14 = 0.00 and 15 = 0.00

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 15.
 - 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.
 - Required 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

8) 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: 9-13=-8, 1-16=-96, 16-17=-206 (F=-110), 8-17=-96
Concentrated Loads (lb)
Vert: 16=-750

McNeil Company Builders

☒ APPROVED

☐ APPROVED AS CORRECTED

☐ REVISE AND RESUBMIT

☐ REJECTED

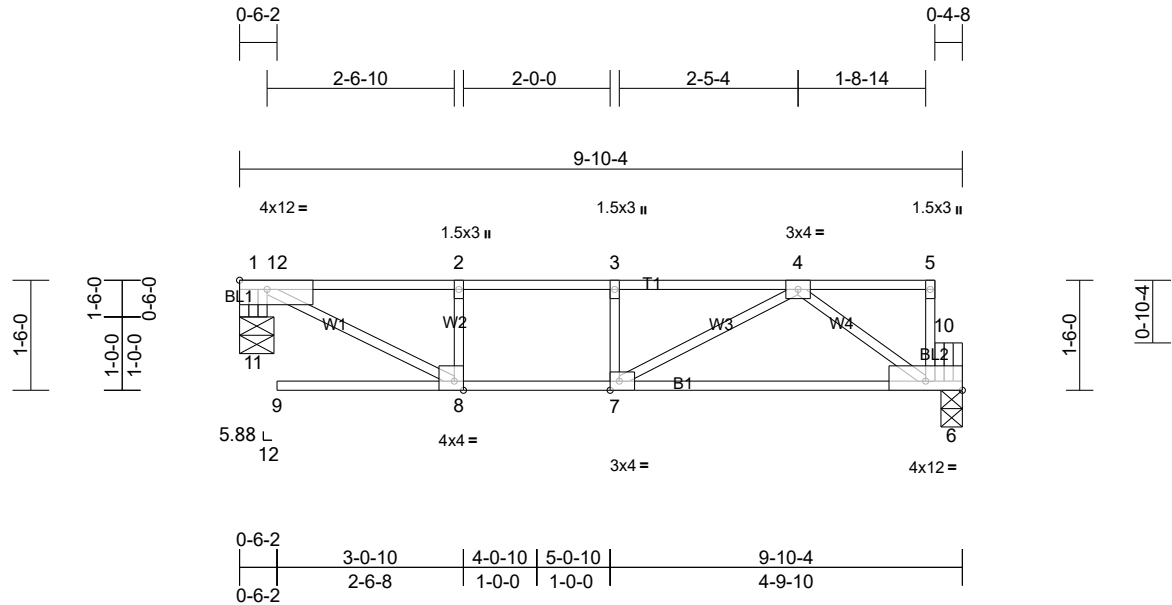
☐ FOR INFORMATION ONLY

Approval is only for general conformance with the design concept of the Project and the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to the means and methods of construction; coordination of the work of all trades; and performing all work in a safe and satisfactory manner. This approval does not modify Contractor's duty to comply with the Contract Documents.

BY janderson

DATE 6/4/2025

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FG02	Floor Girder	1	1	Job Reference (optional)



Scale = 1:25.2

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	0.23	9	>496	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	0.20	9	>551	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 44 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SPF Stud(flat)
OTHERS 2x4 SPF Stud(flat)

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

REACTIONS (lb/size) 6=471/0-3-8, (min. 0-1-8),
11=487/0-5-10, (min. 0-1-8)

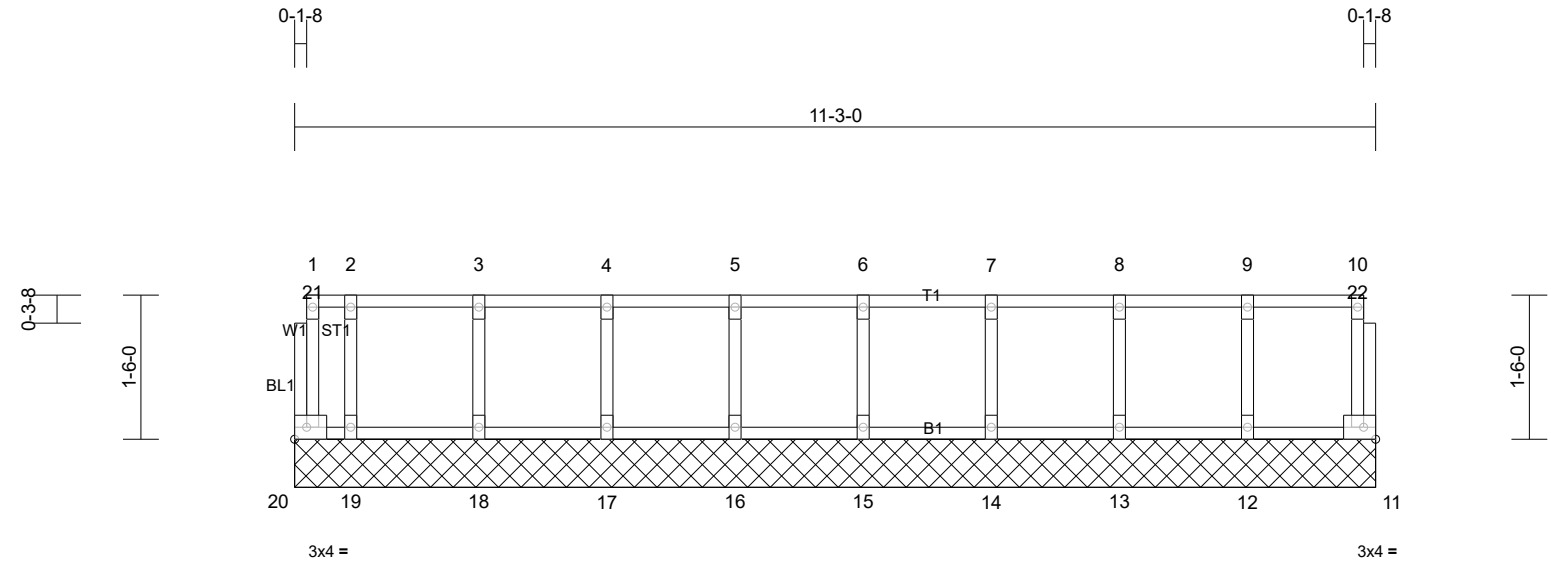
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 1-12=-802/0, 2-12=-802/0, 2-3=-802/0,
3-4=-802/0, 1-11=-487/0
BOT CHORD 7-8=0/802, 6-7=0/582
WEBS 2-8=-344/0, 4-7=0/329, 4-6=-699/0,
1-8=0/894

JOINT STRESS INDEX
1 = 0.37, 2 = 0.26, 3 = 0.10, 4 = 0.46, 5 = 0.04, 6 = 0.20, 7
= 0.34, 8 = 0.84, 10 = 0.00 and 11 = 0.00

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FL01	Floor Supported Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 42 lb FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SPF No.2(flat)

BOT CHORD 2x4 SPF No.2(flat)

WEBS 2x4 SPF Stud(flat)

OTHERS 2x4 SPF Stud(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS All bearings 11'-3'-0".

(lb) - Max Grav All reactions 250 (lb) or less at joint

(s) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

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

JOINT STRESS INDEX

1 = 0.11, 2 = 0.10, 3 = 0.14, 4 = 0.13, 5 = 0.13, 6 = 0.13, 7 = 0.13, 8 = 0.14, 9 = 0.13, 10 = 0.17, 11 = 0.04, 12 = 0.13, 13 = 0.14, 14 = 0.13, 15 = 0.13, 16 = 0.13, 17 = 0.13, 18 = 0.14, 19 = 0.10, 20 = 0.13, 21 = 0.00 and 22 = 0.00

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 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" oc.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10'-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) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FL02	Floor Supported Gable	1	1	Job Reference (optional)

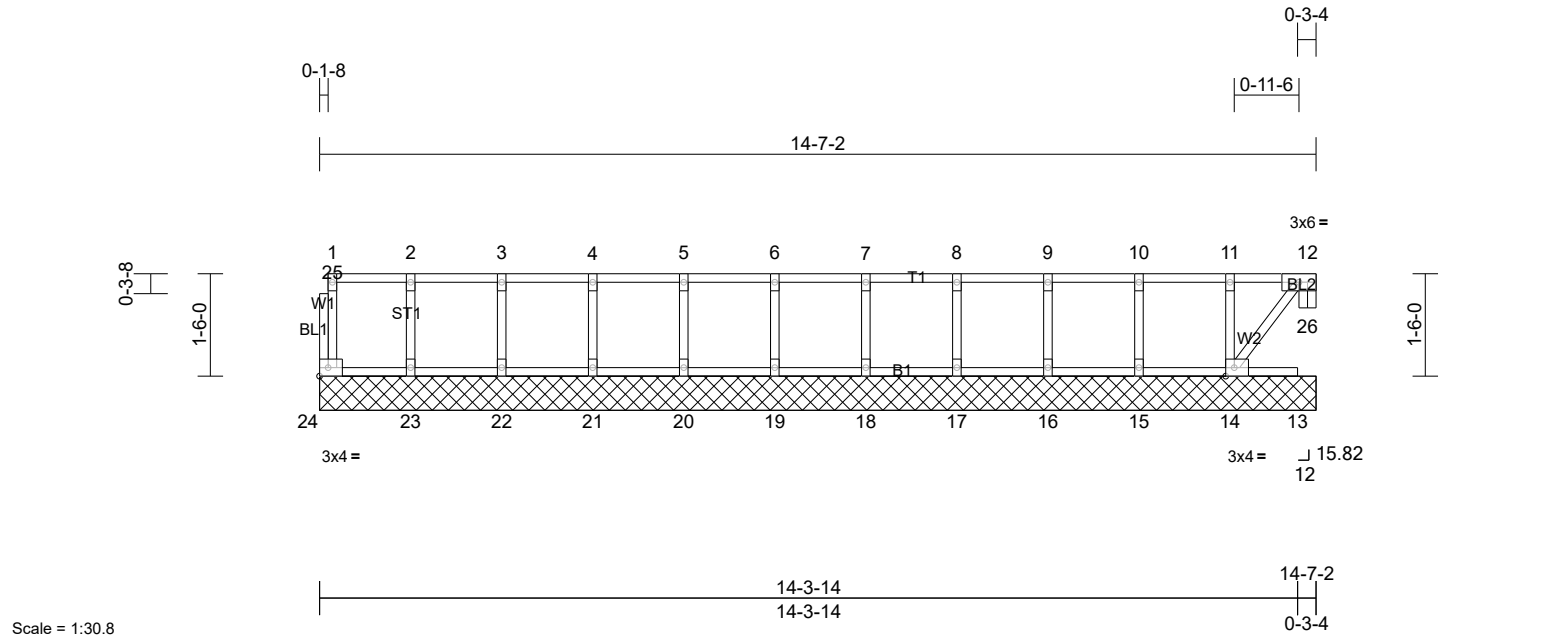


Plate Offsets (X, Y): [14:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SPF No.2(flat)

BOT CHORD 2x4 SPF No.2(flat)

WEBS 2x4 SPF Stud(flat)

OTHERS 2x4 SPF Stud(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 14-7-2.

(lb) - Max Grav All reactions 250 (lb) or less at joint

(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

JOINT STRESS INDEX

1 = 0.81, 2 = 0.82, 3 = 0.82, 4 = 0.82, 5 = 0.82, 6 = 0.82, 7 = 0.82, 8 = 0.82, 9 = 0.82, 10 = 0.82, 11 = 0.82, 12 = 0.82, 14 = 0.81, 15 = 0.83, 16 = 0.83, 17 = 0.83, 18 = 0.83, 19 = 0.83, 20 = 0.83, 21 = 0.83, 22 = 0.83, 23 = 0.83, 24 = 0.81, 25 = 0.00 and 26 = 0.00

- NOTES**
- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss is designed in accordance with the 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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FL02A	Floor Supported Gable	1	1	Job Reference (optional)

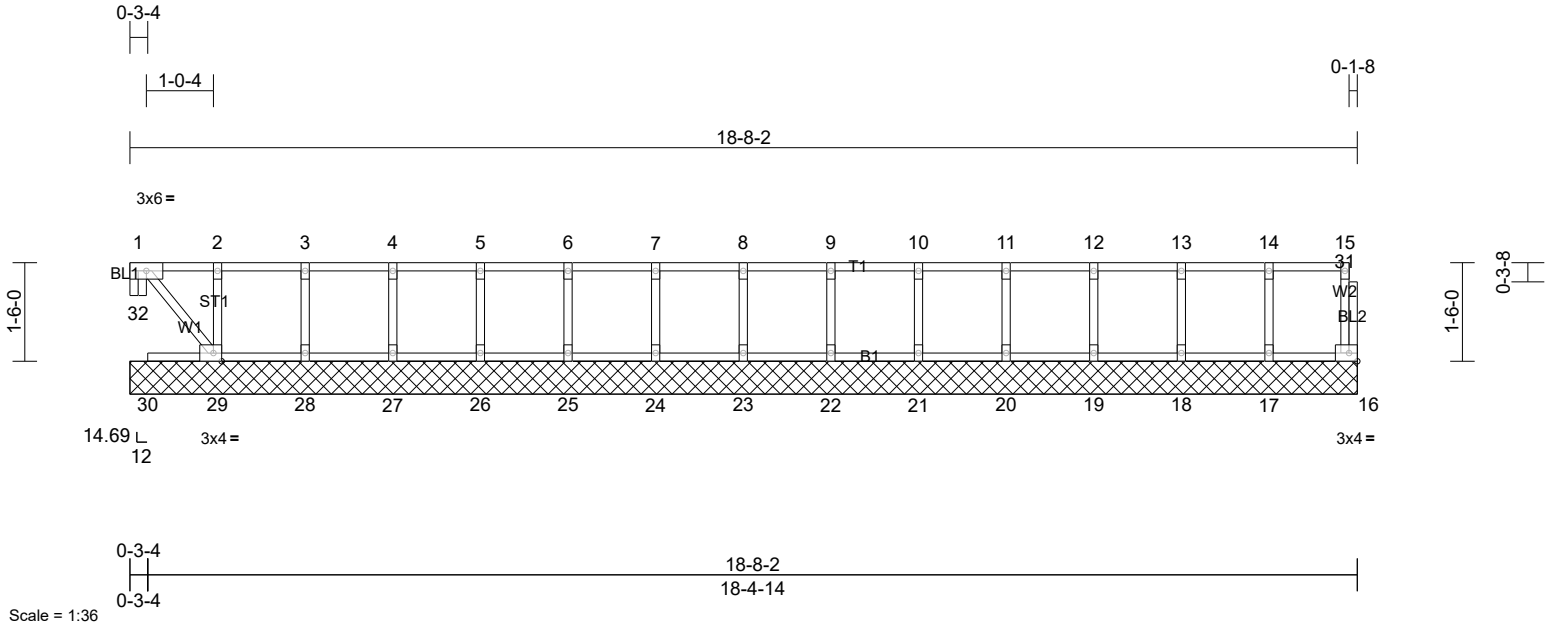


Plate Offsets (X, Y): [29:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%F, 11%E

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

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

REACTIONS All bearings 18'-8"-2."
(lb) - Max Grav All reactions 250 (lb) or less at joint
(s) 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

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

JOINT STRESS INDEX
1 = 0.82, 2 = 0.82, 3 = 0.82, 4 = 0.82, 5 = 0.82, 6 = 0.82, 7 = 0.82, 8 = 0.82, 9 = 0.82, 10 = 0.82, 11 = 0.82, 12 = 0.82, 13 = 0.82, 14 = 0.82, 15 = 0.81, 16 = 0.81, 17 = 0.83, 18 = 0.83, 19 = 0.83, 20 = 0.83, 21 = 0.83, 22 = 0.83, 23 = 0.83, 24 = 0.83, 25 = 0.83, 26 = 0.83, 27 = 0.83, 28 = 0.83, 29 = 0.81, 31 = 0.00 and 32 = 0.00

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 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" oc.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10'-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.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

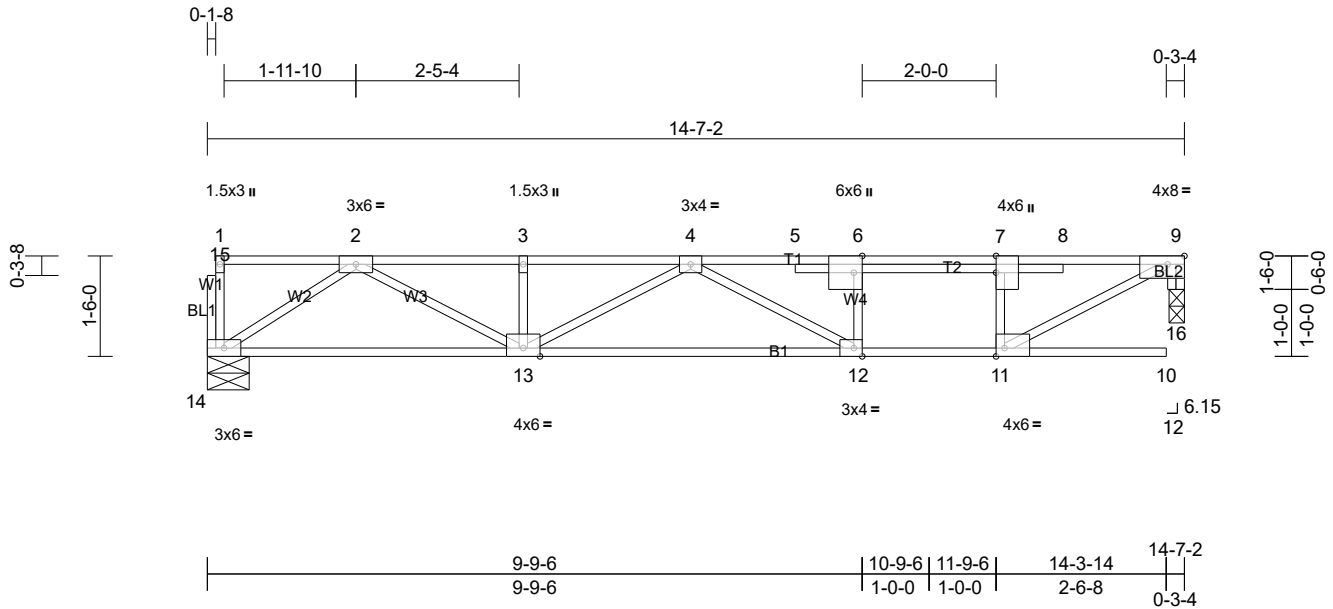
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT01	Floor	9	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:32.2

Plate Offsets (X, Y): [6:0-3-0,Edge], [7:0-3-0,Edge], [9:0-3-0,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	0.27	10	>628	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.38	12-13	>448	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	-0.01	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 11%E

LUMBER **LOAD CASE(S)** Standard

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* T2:2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF Stud(flat)
OTHERS 2x4 SPF Stud(flat)

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

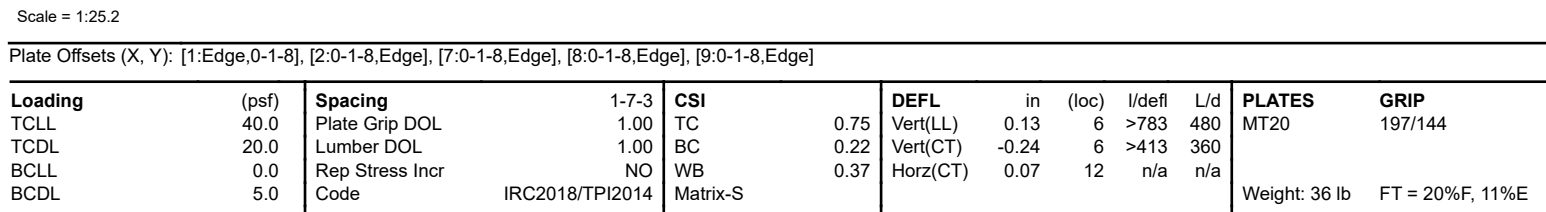
REACTIONS (lb/size) 14=739/0-7-8, (min. 0-1-8),
16=744/0-2-12, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1735/0, 3-4=-1735/0, 4-5=-1498/0, 5-6=-1493/0, 6-7=-1498/0, 7-8=-1514/0, 8-9=-1498/0, 9-16=-744/0
BOT CHORD 13-14=0/1001, 12-13=0/1997, 11-12=0/1498
WEBS 6-12=0/290, 7-11=-724/0, 4-12=-649/0, 4-13=-299/0, 2-13=0/838, 2-14=-1193/0, 9-11=0/1691

JOINT STRESS INDEX
1 = 0.06, 2 = 0.76, 3 = 0.15, 4 = 0.42, 5 = 0.00, 6 = 0.43, 7 = 0.85, 8 = 0.00, 9 = 0.80, 11 = 0.85, 12 = 0.53, 13 = 0.88, 14 = 0.59, 15 = 0.00 and 16 = 0.00

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
 - 3) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
 - 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) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

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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.

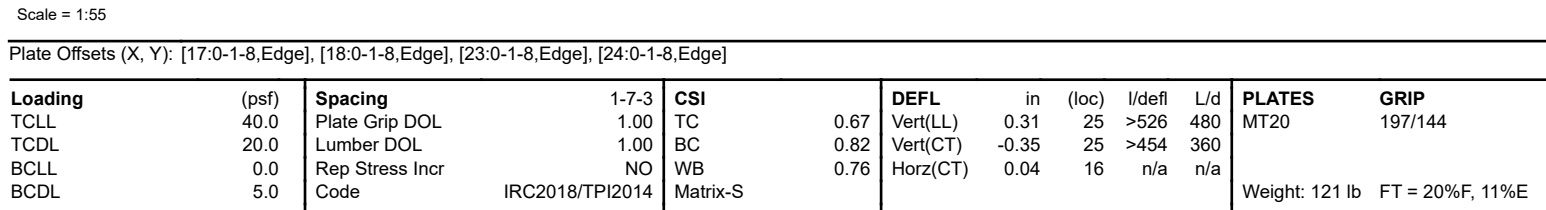
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-13=-652/0, 2-13=-652/0, 2-3=-670/0, 3-4=-670/0, 4-14=-670/0, 5-14=-670/0, 1-11=-433/0, 5-12=-553/0
BOT CHORD	8-9=0/652, 7-8=0/670
WEBS	4-7=-316/0, 5-7=0/757, 2-9=-293/0, 1-9=0/729, 2-8=-83/265

JOINT STRESS INDEX
1 = 0.32, 2 = 0.55, 3 = 0.18, 4 = 0.33, 5 = 0.69, 7 = 0.79, 8 = 0.55, 9 = 0.76, 11 = 0.00 and 12 = 0.00

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearing at joint(s) 11, 12 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) 12.
- 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:30 Page: ID:tl K?MRoc2QIB6KxCmwNHozCG77-PCNeCQpG6wdbHwt8?tl3LmuY2edDceD602vIBTzA14h



- 3) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 27.
- 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION: Do not erect truss backwards.

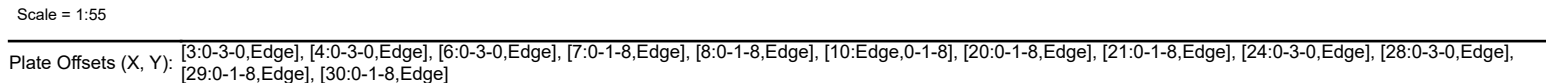
LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 16-25=-8, 1-7=-96, 7-10=-121, 10-15=-96

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Attach ribbon block to truss with 3-10d nails applied to flat face.

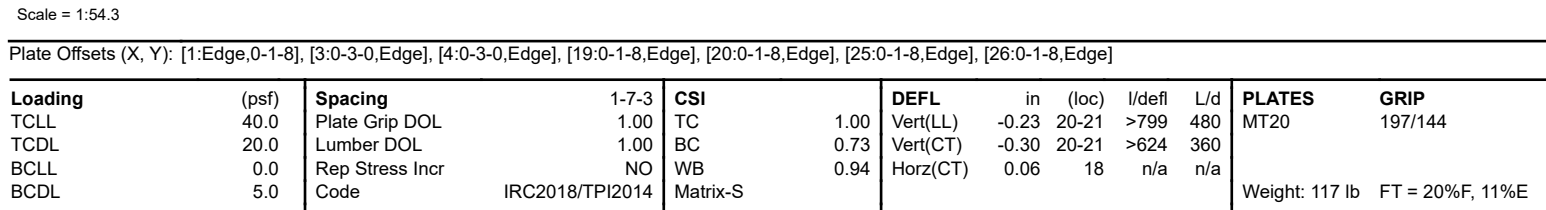
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LUMBER		NOTES
TOP CHORD	2x4 SPF No.2(flat) *Except* T3:2x4 SP 2400F 2.0E(flat)	1) Unbalanced floor live loads have been considered for this design.
BOT CHORD	2x4 SPF No.2(flat)	2) Attach ribbon block to truss with 3-10d nails applied to flat face.
WEBS	2x4 SPF Stud(flat)	3) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
OTHERS	2x4 SPF Stud(flat)	4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
BRACING		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.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	6) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	7) CAUTION, Do not erect truss backwards.
REACTIONS	(lb/size) 19=661/0-7-8, (min. 0-1-8), 24=1919/0-5-8, (min. 0-1-8), 33=485/0-2-12, (min. 0-1-8)	
	Max Grav 19=672 (LC 4), 24=1919 (LC 1), 33=568 (LC 3)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	LOAD CASE(S) Standard

TOP CHORD	1-2=-1012/0, 2-3=-1025/0, 3-4=-1012/0, 4-5=-1013/0, 5-6=-1012/0, 6-7=-1270/168, 7-8=-317/915, 8-9=0/2572, 9-10=0/1658, 10-11=0/1660, 11-12=0/1668, 12-13=-951/76, 13-14=-948/75, 14-15=-1659/0, 15-16=-1659/0, 16-17=-1659/0, 1-33=-568/0
BOT CHORD	29-30=0/1012, 28-29=-191/1238, 27-28=-915/317, 26-27=-915/317, 25-26=-915/317, 24-25=-915/317, 23-24=-2572/0, 22-23=-737/0, 21-22=0/1583, 20-21=0/1659, 19-20=0/843
WEBS	3-30=-470/0, 6-28=-449/0, 10-23=-275/0, 16-20=-355/0, 1-30=0/1143, 6-29=-250/330, 14-21=0/424, 14-22=-817/0, 12-22=0/1411, 12-23=-1366/0, 17-20=0/930, 17-19=-1043/0, 9-24=-1099/0, 7-28=0/1385, 8-24=-2253/0, 7-27=-284/0, 8-26=0/308, 9-23=0/1601
JOINT STRESS INDEX	
1 = 0.85, 2 = 0.00, 3 = 0.58, 4 = 0.48, 5 = 0.00, 5 = 0.32, 6 = 0.82, 7 = 0.69, 8 = 0.82, 9 = 0.83, 10 = 0.85, 11 = 0.00, 12 = 0.78, 13 = 0.81, 14 = 0.71, 15 = 0.82, 16 = 0.82, 17 = 0.85, 18 = 0.81, 19 = 0.82, 20 = 0.86, 21 = 0.81, 22 = 0.62, 23 = 0.80, 24 = 0.67, 25 = 0.17, 26 = 0.82, 27 = 0.83, 28 = 0.62, 29 = 0.81, 30 = 0.89, 32 = 0.00 and 33 = 0.00	

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:31 Page: ID:ggBEXskQ4YngKDuL4SvRyozCGkm-tOx1PmqusDIRv3SLYaaaJ548E1aEndYYHZ210JzA14g

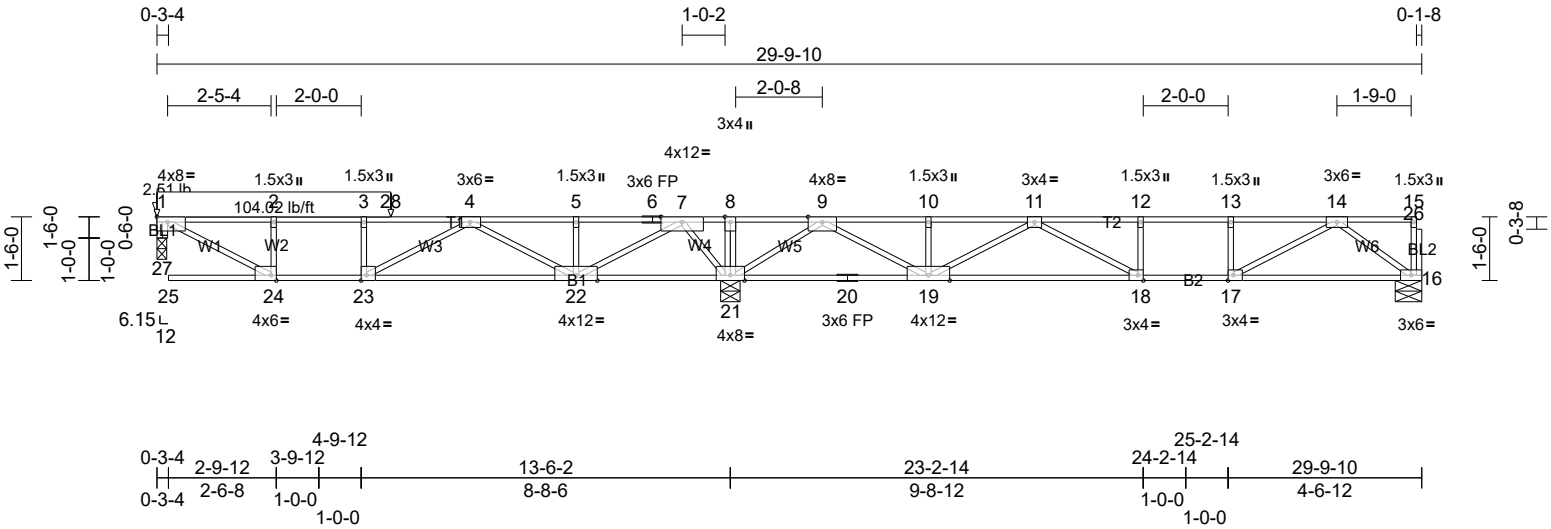


6-7=-619/480, 7-8=-619/480, 8-9=-619/480,
9-10=0/2681, 10-11=0/2683, 11-12=-520/453,
12-13=-520/453, 13-14=-1331/0,
14-15=-1331/0, 15-16=-1331/0, 1-29=-1247/0
BOT CHORD
25-26=0/2042, 24-25=0/1597, 23-24=-1777/0,
22-23=-1261/0, 21-22=-1261/0,
20-21=-56/1193, 19-20=0/1331, 18-19=0/573
WEBS
15-19=-337/0, 13-20=0/508, 13-21=-887/0,
11-21=0/1468, 11-23=-1741/0, 16-19=0/869,
16-18=-807/0, 3-26=-1020/0, 4-25=-471/0,
1-26=0/2305, 6-25=0/1040, 6-24=-1313/0,
9-24=0/1905, 9-23=-1426/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Attach ribbon block to truss with 3-10d nails applied to flat face.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT05A	Floor	1	1	Job Reference (optional)



Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:31 Page: ID:kAwAwizHNEdx1Z? CwsspzCFqN-iQx1PmouSDIRv3SLYaaaJ54AG1ZTNofWZ210JzA14d

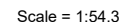


Plate Offsets (X, Y): [12:0-4-0,Edge], [15:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge]

LUMBER		2)	Attach ribbon block to truss with 3-10d nails applied to flat face.
TOP CHORD	2x4 SPF No.2(flat)	3)	Bearing at joint(s) 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
BOT CHORD	2x4 SPF No.2(flat)	4)	Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31.
WEBS	2x4 SPF Stud(flat)	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.
OTHERS	2x4 SPF Stud(flat)	6)	Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
BRACING		7)	CAUTION, Do not erect truss backwards.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	LOAD CASE(S) Standard	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		
REACTIONS (lb/size)			
	19=587/0-7-8, (min. 0-1-8), 24=1989/0-5-8, (min. 0-1-8), 31=437/0-2-12, (min. 0-1-8)		
Max Grav	19=661 (LC 7), 24=1994 (LC 8), 31=507 (LC 3)		

LUMBER

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

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

REACTIONS (lb/size)	19=587/0-7-8, (min. 0-1-8), 24=1989/0-5-8, (min. 0-1-8), 31=437/0-2-12, (min. 0-1-8)
Max Grav	19=661 (LC 7), 24=1994 (LC 8), 31=507 (LC 3)

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

TOP CHORD 1-2=-831/0, 2-3=-831/0, 3-4=-831/0,
4-5=-62/650, 5-6=-62/650, 6-32=0/2720,
7-32=0/2714, 7-8=0/2714, 8-9=-195/969,
9-10=-201/971, 10-11=-222/967,
11-12=-1513/177, 12-13=-1518/178,
13-14=-1449/0, 14-15=-1453/0,
15-16=-1449/0, 16-17=-1449/0, 1-31=-507/0

BOT CHORD 27-28=0/831, 26-27=-235/724,
25-26=-1852/0, 24-25=-1852/0,
23-24=-1596/0, 22-23=-586/1091,
21-22=-106/1662, 20-21=0/1449,
19-20=0/610

WEBS 2-28=-376/0, 16-20=-370/0, 1-28=0/938,
4-27=0/505, 4-26=-907/0, 6-26=0/1489,
6-24=-1349/0, 8-23=0/1212, 8-24=-1464/0,
13-21=-239/502, 13-22=-472/0, 17-20=0/961,
17-19=-859/0, 11-23=-1075/0, 11-22=0/725

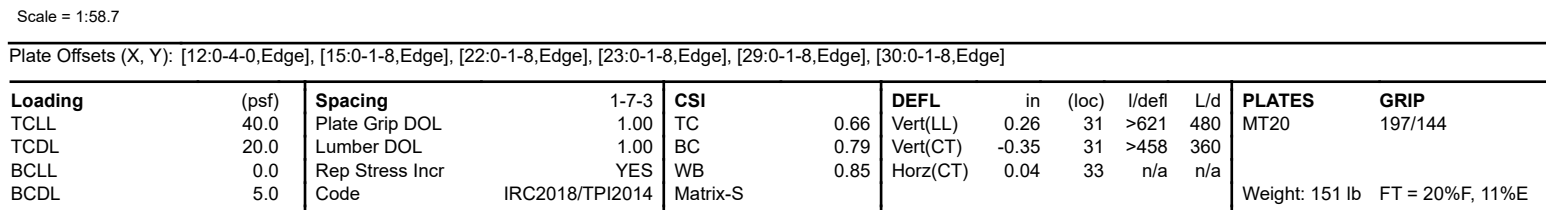
JOINT STRESS INDEX

1 = 0.85, 2 = 0.82, 3 = 0.82, 4 = 0.71, 5 = 0.82, 6 = 0.82, 7 = 0.84, 8 = 0.81, 9 = 0.00, 9 = 0.33, 10 = 0.58, 11 = 0.84, 12 = 0.35, 12 = 0.43, 13 = 0.43, 14 = 0.00, 15 = 0.85, 16 = 0.82, 17 = 0.87, 18 = 0.81, 19 = 0.82, 20 = 0.89, 21 = 0.81, 22 = 0.64, 23 = 0.75, 24 = 0.61, 25 = 0.27, 26 = 0.69, 27 = 0.81, 28 = 0.87, 30 = 0.00 and 31 = 0.00

NOTES

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

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:32 Page: ID:9CFX8v8QBqRFXcH?iCWmy zCFdF-LbVPd6rWdXiIWD1X6I5psJdQIRvX65BhWdNlYzA14f

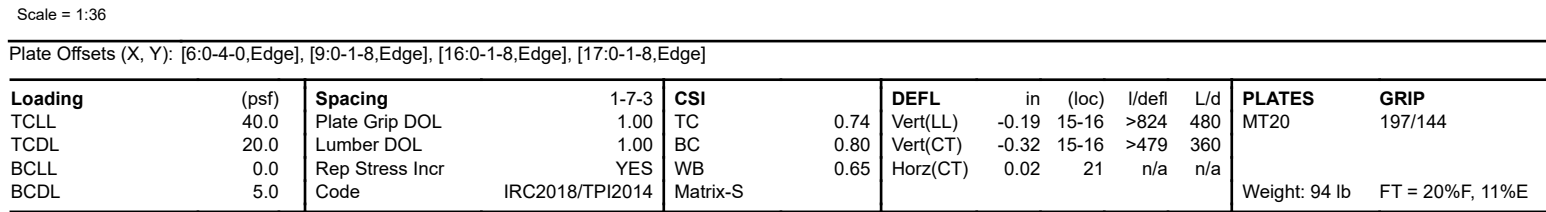


BRACING		0.00
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS (lb/size)		
	27=2174/0-5-8, (min. 0-1-8), 32=420/0-2-12, (min. 0-1-8), 33=822/0-9-8, (min. 0-1-8)	
Max Grav	27=2174 (LC 1), 32=508 (LC 3), 33=878 (LC 4)	
FORCES		NOTES
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	1) Unbalanced floor live loads have been considered for this design.
TOP CHORD	1-2=-838/0, 2-3=-838/0, 3-4=-838/0, 4-5=-68/823, 5-6=-68/823, 6-34=0/2865, 7-34=0/2860, 7-8=0/2859, 8-9=-410/844, 9-10=-418/844, 10-11=-438/841, 11-12=-2259/0, 12-13=-2255/0,	2) Bearing at joint(s) 32, 33 considers parallel to grain value using ANSI/TP1 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) 32.
		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/TP1 1.
		5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
		6) CAUTION, Do not erect truss backwards.
		LOAD CASE(S) Standard

11-12=-2259/0, 12-13=-2255/0,
13-14=-2715/0, 14-15=-2721/0,
15-16=-2715/0, 16-17=-2715/0,
17-18=-1541/0, 18-35=-1541/0,
19-35=-1541/0, 1-32=-508/0, 19-33=-878/0
BOT CHORD 29-30=0/838, 28-29=-368/734,
27-28=-1984/0, 26-27=-1546/0,
25-26=-376/1628, 24-25=-376/1628,
23-24=0/2424, 22-23=0/2715, 21-22=0/2349
WEBS 2-30=-385/9, 15-23=-318/0, 1-30=0/946,
4-29=0/584, 4-28=-937/0, 6-28=0/1515,
6-27=-1366/0, 8-26=0/1480, 8-27=-1720/0,
13-23=0/907, 13-24=-532/0, 17-22=-51/417,
17-21=-923/0, 18-21=-284/0, 19-21=0/1722,
11-26=-1412/0, 11-24=0/930

JOINT STRESS INDEX

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:32 Page: ID:qDFKL7KaKIMQmaC MQnSLNzCFaP-LbVPd6rWdXtIWd1X6l5psJdN2RvN68KhWdNlYlZa14f



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.

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-670/0, 3-4=-682/0, 4-5=-702/0, 5-6=-490/37, 6-7=-464/39, 7-8=-1585/0, 8-9=-1572/0, 9-10=-1585/0, 10-11=-1585/0, 11-12=-1175/0, 12-22=-1175/0, 13-22=-1175/0, 13-21=-698/0
BOT CHORD	19-20=0/418, 18-19=0/783, 17-18=0/598, 16-17=0/1585, 15-16=0/1670
WEBS	9-17=-414/0, 2-20=-556/0, 2-19=0/349, 7-17=0/1133, 7-18=-606/0, 11-15=-565/0, 12-15=-266/0, 13-15=0/1313, 5-18=-462/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearing at joint(s) 21 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) 20.
- 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.

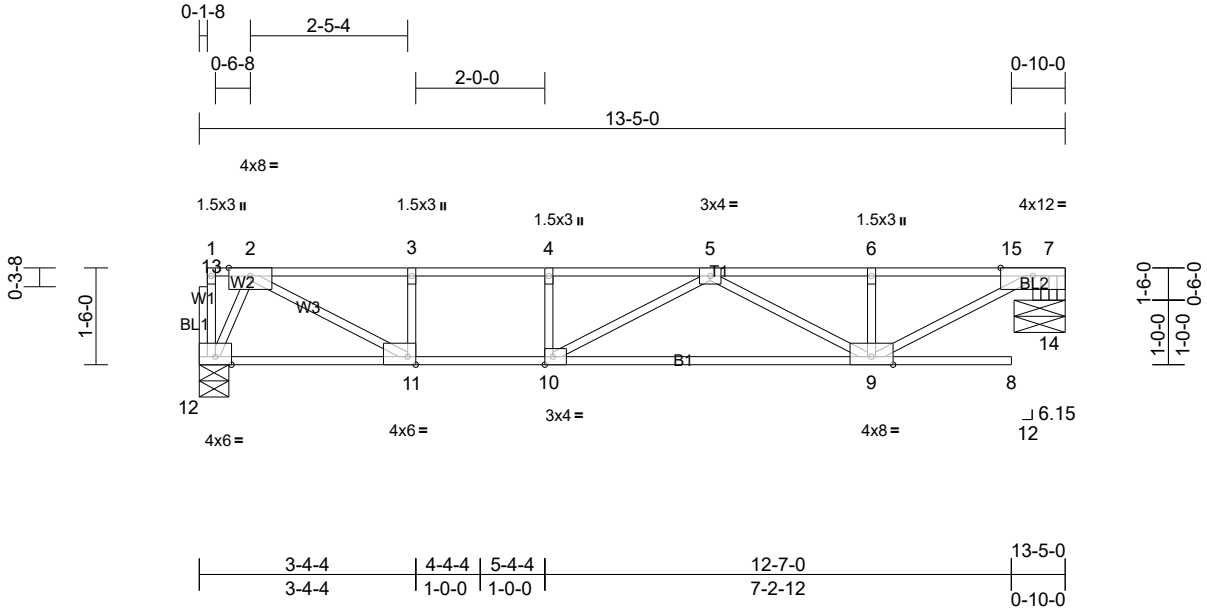
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT09	Floor	4	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:32.2

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.26	9-10	>591	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.43	9-10	>364	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF Stud(flat)
OTHERS 2x4 SPF Stud(flat)

BRACING

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

REACTIONS (lb/size) 12=672/0-5-8, (min. 0-1-8),
14=673/0-9-8, (min. 0-1-8)

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

TOP CHORD 2-3=-1406/0, 3-4=-1406/0, 4-5=-1406/0,
5-6=-1124/0, 6-15=-1124/0, 7-15=-1124/0,
7-14=-673/0

BOT CHORD 11-12=0/303, 10-11=0/1406, 9-10=0/1574

WEBS 3-11=-485/0, 2-11=0/1259, 2-12=-686/0,
5-10=-267/98, 5-9=-514/0, 6-9=-261/0,
7-9=0/1256

JOINT STRESS INDEX

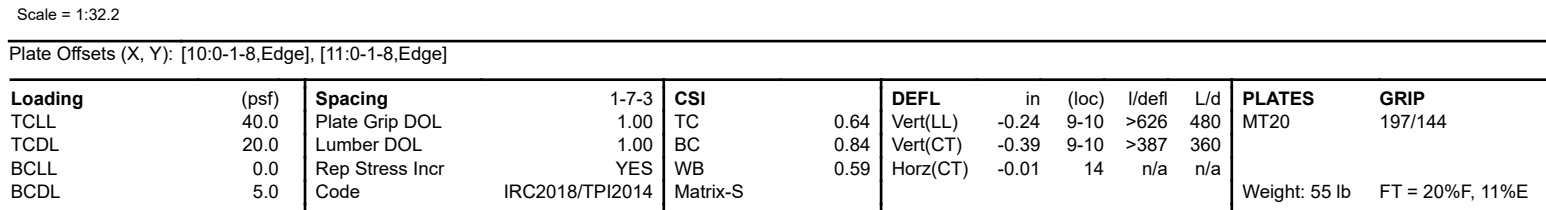
1 = 0.09, 2 = 0.70, 3 = 0.37, 4 = 0.08, 5 = 0.33, 6 = 0.20, 7 = 0.55, 9 = 0.86, 10 = 0.14, 11 = 0.63, 12 = 0.39, 13 = 0.00 and 14 = 0.00

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
- 3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:32 Page: ID:01n5m15wfX1NvJKMPwY6SznCGJC-LbVPd6rWdXtIWD1X6I5psJdPdRum69GhWdNIYlZa14f



TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF Stud(flat)
OTHERS	2x4 SPF Stud(flat)

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

REACTIONS (lb/size) 12=652/0-5-8, (min. 0-1-8),
14=657/0-3-8, (min. 0-1-8)

(lb) or less except when shown.

TOP CHORD 2-3=-1346/0, 3-4=-1346/0, 4-5=-1346/0,
5-6=-970/0, 6-7=-970/0, 7-14=-657/0

BOT CHORD 11-12=0/296, 10-11=0/1346, 9-10=0/1467

WEBS 3-11=-464/0, 2-11=0/1198, 2-12=-673/0,
5-9=-567/0, 7-9=0/1120

1 = 0.09, 2 = 0.89, 3 = 0.36, 4 = 0.05, 5 = 0.36, 6 = 0.18, 7 = 0.81, 9 = 0.75, 10 = 0.13, 11 = 0.60, 12 = 0.38, 13 = 0.00 and 14 = 0.00

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
- 3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

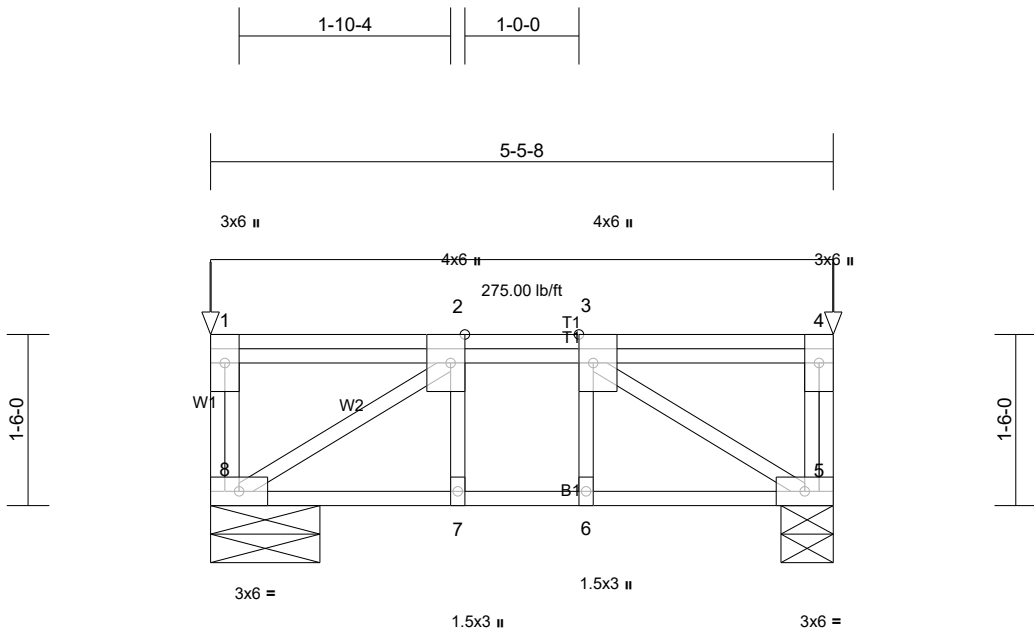
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT11	Floor	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:33

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Scale = 1:20.2

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.02	7-8	>999	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.02	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 31 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 5=987/0-5-8, (min. 0-1-8),
8=987/0-11-8, (min. 0-1-8)

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

TOP CHORD 1-8=-362/0, 4-5=-362/0, 2-3=-1005/0
BOT CHORD 7-8=0/1005, 6-7=0/1005, 5-6=0/1005
WEBS 2-8=-1195/0, 3-5=-1195/0

JOINT STRESS INDEX

1 = 0.14, 2 = 0.58, 3 = 0.58, 4 = 0.14, 5 = 0.64, 6 = 0.11, 7 = 0.11 and 8 = 0.65

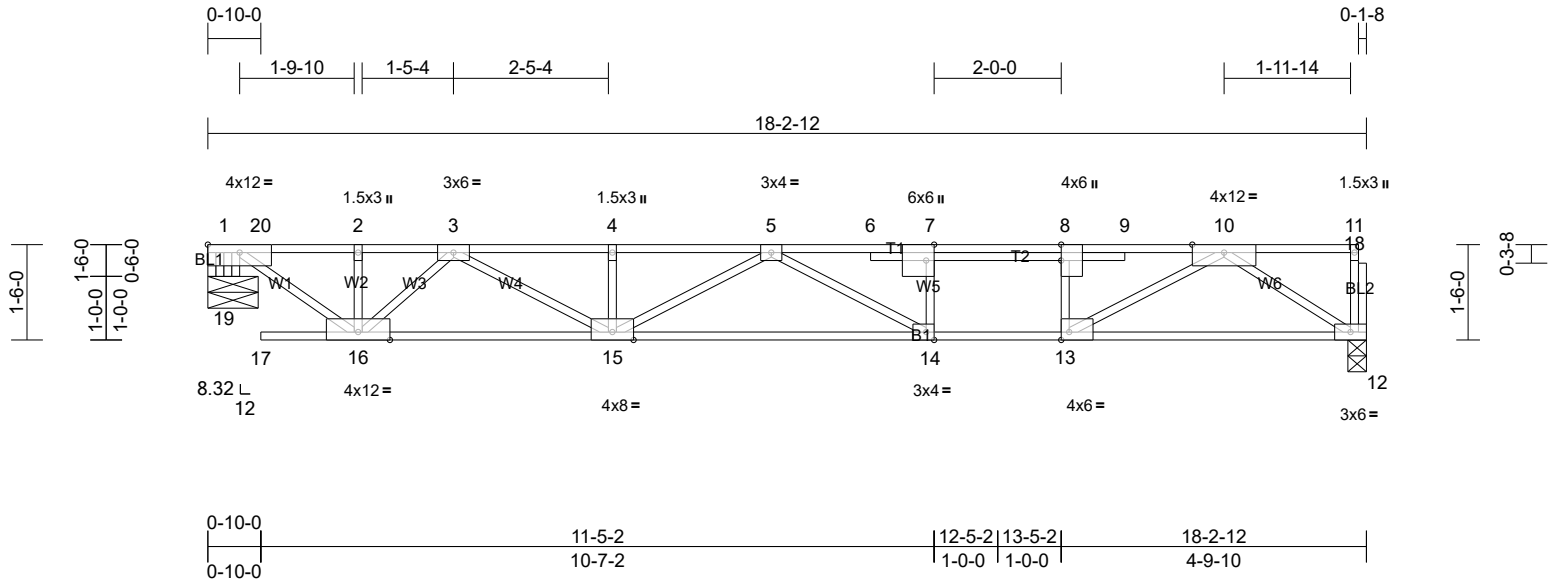
NOTES

- Unbalanced floor live loads have been considered for this design.
- 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.
- Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 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
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-8=-8, 1-4=-371 (F=-275)

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT12	Floor	2	1	Job Reference (optional)



Scale = 1:37.7

Plate Offsets (X, Y): [1:Edge,0-1-8], [7:0-3-0,Edge], [8:0-3-0,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.25	14-15	>867	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.41	14-15	>521	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER 6) CAUTION, Do not erect truss backwards.

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* T2:2x4 SPF No.2(flat)	LOAD CASE(S)	Standard
BOT CHORD	2x4 SP 2400F 2.0E(flat)		
WEBS	2x4 SPF Stud(flat)		
OTHERS	2x4 SPF Stud(flat)		

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

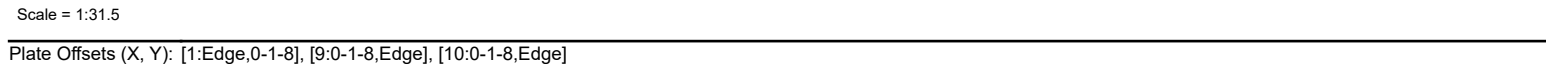
REACTIONS (lb/size)	12=922/0-3-8, (min. 0-1-8), 19=923/0-9-8, (min. 0-1-8)
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FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-20=-1284/0, 2-20=-1284/0, 2-3=-1284/0, 3-4=-2757/0, 4-5=-2757/0, 5-6=-2677/0, 6-7=-2673/0, 7-8=-2677/0, 8-9=-2692/0, 9-10=-2677/0, 1-19=-923/0
BOT CHORD	15-16=0/1971, 14-15=0/3038, 13-14=0/2677, 12-13=0/1241
WEBS	8-13=-687/0, 5-14=-549/80, 5-15=-321/0, 3-15=0/897, 3-16=-931/0, 1-16=0/1532, 10-13=0/1639, 10-12=-1474/0

JOINT STRESS INDEX	
	1 = 0.86, 2 = 0.82, 3 = 0.82, 4 = 0.82, 5 = 0.71, 6 = 0.00, 7 = 0.50, 8 = 0.88, 9 = 0.00, 10 = 0.72, 11 = 0.81, 12 = 0.82, 13 = 0.83, 14 = 0.81, 15 = 0.61, 16 = 0.86, 18 = 0.00 and 19 = 0.00

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Attach ribbon block to truss with 3-10d nails applied to flat face.
 - Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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.
 - Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:33 Page: ID:3lzMmGd18MnYxj 6q0tk2GzCGL5-pn3ngSs8Or?98Ncjq?d2OWAa qD?rb5qktXs4CzA14e



LUMBER	
TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF Stud(flat)
OTHERS	2x4 SPF Stud(flat)

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

REACTIONS (lb/size) 8=731/0-2-10, (min. 0-1-8),
13=727/0-9-8, (min. 0-1-8)

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

TOP CHORD 1-14=-1232/0, 2-14=-1232/0, 2-3=-1232/0,
3-4=-1744/0, 4-5=-1744/0, 5-6=-1744/0,
1-13=-727/0

BOT CHORD 10-11=0/1777, 9-10=0/1744, 8-9=0/804
WEBS 5-9=-422/0, 3-11=-621/0, 2-11=-266/0,

JOINT STRESS INDEX
 1 = 0.61, 2 = 0.20, 3 = 0.40, 4 = 0.07, 5 = 0.32, 6 = 0.80, 7
 = 0.03, 8 = 0.59, 9 = 0.83, 10 = 0.23, 11 = 0.63 and 13 =
 0.00

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearing at joint(s) 13 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) 8.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

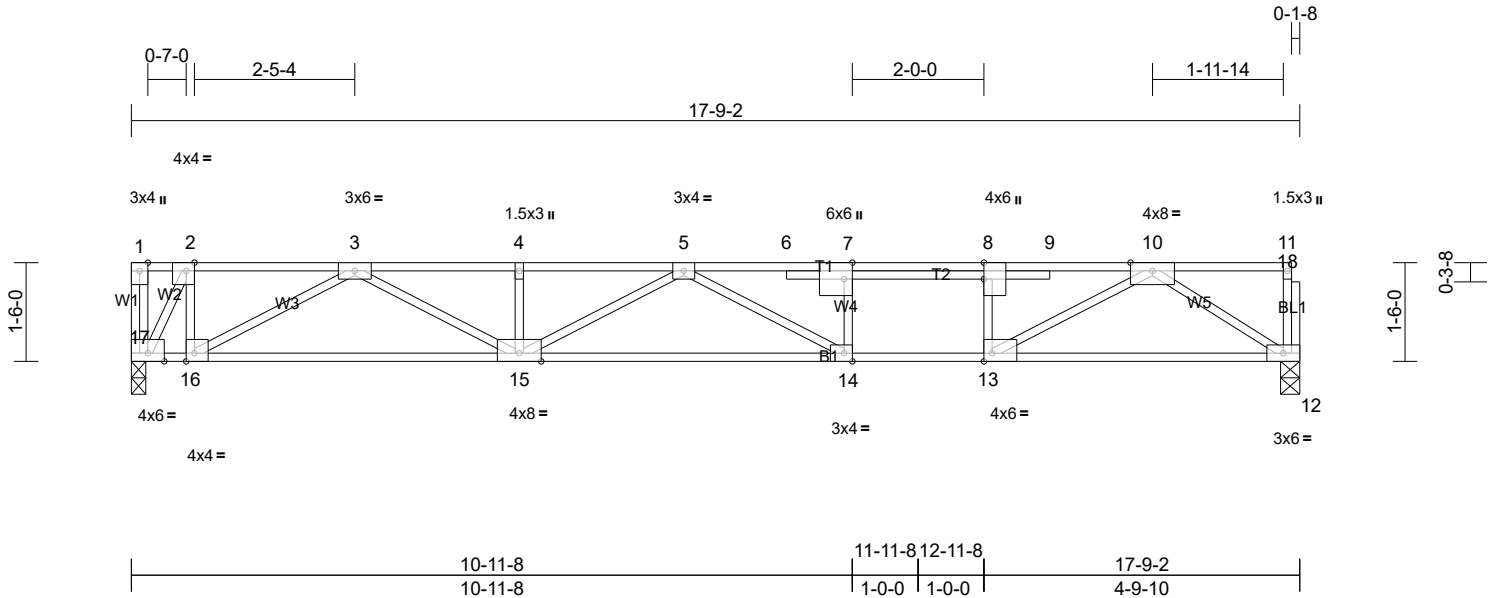
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT14	Floor	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Page: 1

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Scale = 1:34.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-3-0,Edge], [8:0-3-0,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.23	14-15	>898	480	MT20	197/144
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.39	14-15	>543	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* T2:2x4 SPF No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SPF Stud(flat)
OTHERS	2x4 SPF Stud(flat)

BRACING

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

REACTIONS (lb/size) 12=904/0-3-8, (min. 0-1-8),
17=910/0-2-10, (min. 0-1-8)

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

TOP CHORD 2-3=-521/0, 3-4=-2605/0, 4-5=-2605/0,
5-6=-2601/0, 6-7=-2597/0, 7-8=-2601/0,
8-9=-2615/0, 9-10=-2601/0

BOT CHORD 16-17=0/521, 15-16=0/1790, 14-15=0/2919,
13-14=0/2601, 12-13=0/1215

WEBS 8-13=-663/0, 5-14=-504/102, 5-15=-358/0,
3-15=0/930, 3-16=-1448/0, 2-16=0/723,
2-17=-1066/0, 10-13=0/1582, 10-12=-1443/0

JOINT STRESS INDEX

1 = 0.48, 2 = 0.79, 3 = 0.85, 4 = 0.82, 5 = 0.71, 6 = 0.00, 7 = 0.48, 8 = 0.84, 9 = 0.00, 10 = 0.87, 11 = 0.81, 12 = 0.82, 13 = 0.80, 14 = 0.81, 15 = 0.63, 16 = 0.79, 17 = 0.58 and 18 = 0.00

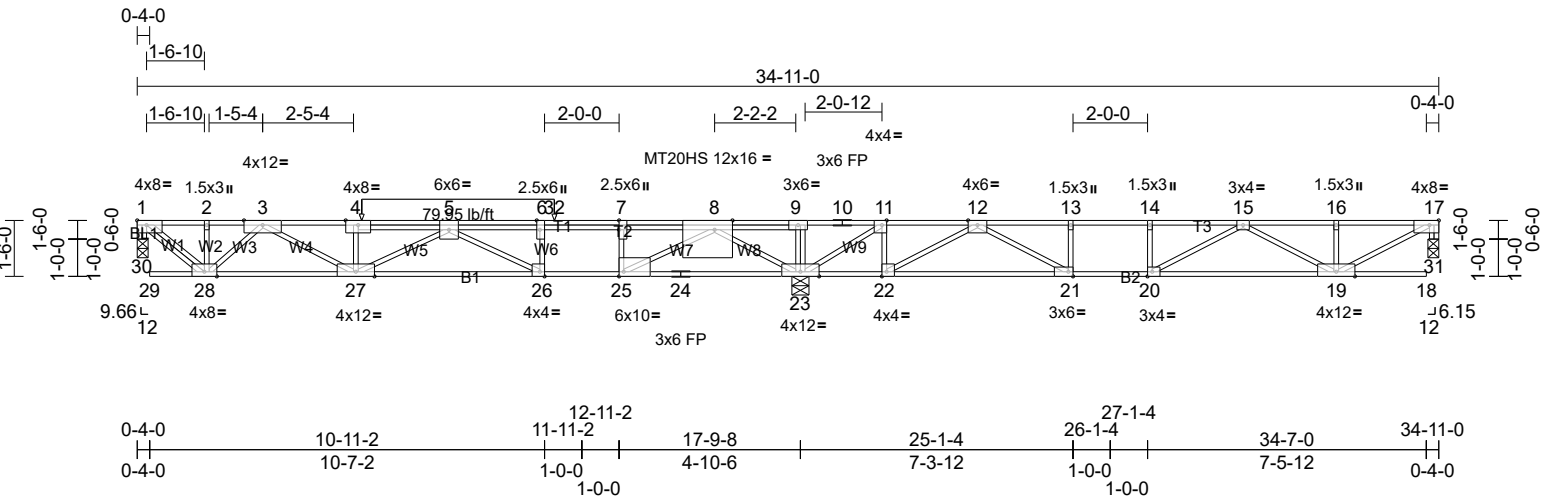
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Attach ribbon block to truss with 3-10d nails applied to flat face.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:33 Page: ID: H5ltOzX3q4ZALCEzRoIfZszCFjB-pn3ngSs8Or?98Ncjq?d2OWAV/hgDDrX2qktXs4CzA14e

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-F	FT16	Floor	6	1	Job Reference (optional)



Scale = 1:61.1

Plate Offsets (X, Y): [1:Edge,0-1-8], [6:0-3-0,Edge], [7:0-3-0,Edge], [8:0-5-12,Edge], [11:0-1-8,Edge], [17:0-3-0,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.20	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.56	26-27	>378	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.01	31	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 176 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SPF Stud(flat) *Except* W7:2x4 SPF No.2(flat)

OTHERS 2x4 SPF Stud(flat)

1 = 0.88, 2 = 0.82, 3 = 0.76, 4 = 0.84, 5 = 0.67, 6 = 0.48, 7 = 0.47, 8 = 0.88, 9 = 0.81, 10 = 0.69, 11 = 0.78, 12 = 0.73, 13 = 0.82, 14 = 0.82, 15 = 0.71, 16 = 0.82, 17 = 0.68, 19 = 0.67, 20 = 0.81, 21 = 0.82, 22 = 0.72, 23 = 0.62, 24 = 0.38, 25 = 0.88, 26 = 0.84, 27 = 0.79, 28 = 0.89, 30 = 0.00 and 31 = 0.00

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, Except: 6-0-0 oc bracing: 23-25,22-23.

REACTIONS (lb/size) 23=2469/0-5-8, (min. 0-1-8), 30=1234/0-3-8, (min. 0-1-8), 31=749/0-3-8, (min. 0-1-8)

Max Grav 23=2469 (LC 1), 30=1278 (LC 10), 31=778 (LC 4)

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

TOP CHORD 1-2=-1481/0, 2-3=-1487/0, 3-4=-4150/0, 4-5=-4162/0, 5-6=-3768/0, 6-32=-3768/0, 7-32=-3768/0, 7-8=-3768/0, 8-9=0/1774, 9-10=0/1798, 10-11=0/1804, 11-12=-178/475, 12-13=-2063/0, 13-14=-2063/0, 14-15=-2063/0, 15-16=-1286/0, 16-17=-1286/0, 1-30=-1278/0, 17-31=-778/0

BOT CHORD 27-28=0/2644, 26-27=0/5111, 25-26=0/3768, 24-25=-29/1007, 23-24=-29/1007, 22-23=-475/178, 21-22=0/1295, 20-21=0/2063, 19-20=0/1935

WEBS 9-23=-337/0, 13-21=-363/0, 12-21=0/982, 12-22=-1337/0, 11-22=0/659, 11-23=-1779/0, 15-19=-740/0, 16-19=-264/0, 17-19=0/1452, 6-26=0/709, 7-25=-1377/0, 5-26=-1756/0, 5-27=-1085/0, 4-27=-256/0, 3-27=0/1719, 3-28=-1545/0, 1-28=0/1911, 8-25=0/3301, 8-23=-2452/0

NOTES

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

2) All plates are MT20 plates unless otherwise indicated.

3) Bearing at joint(s) 30, 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

6) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

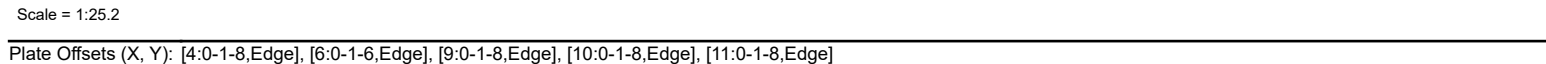
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 18-29=-8, 1-4=-96, 4-32=-256, 17-32=-96

JOINT STRESS INDEX

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Jun 03 09:59:34 Page: ID:BXhMEvQ17PifZP4HeKOY LzCFZ?-Hzd92osn9870mXBwEj8HxkipUEIqa65 zXGPceza14d



LUMBER	
TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* T2:2x4 SPF No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SPF Stud(flat)
OTHERS	2x4 SPF Stud(flat)

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.

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

TOP CHORD 1-2=-786/0, 2-3=-786/0, 3-4=-786/0,
4-5=-663/0, 5-14=-659/0, 6-14=-661/0,
1-13=-492/0

JOINT STRESS INDEX
1 = 0.81, 2 = 0.27, 3 = 0.09, 4 = 0.40, 5 = 0.00, 6 = -nan (ind), 6 = 0.36, 7 = 0.00, 9 = 0.71, 10 = 0.27, 11 = 0.82 and 13 = 0.00

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearing at joint(s) 13 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) 13.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard