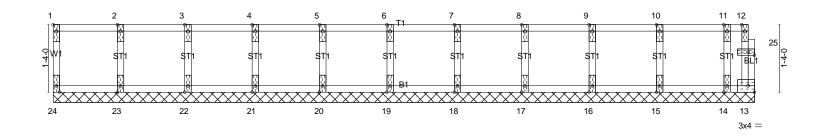


Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F01	Floor Supported Gable	1	1	Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:11 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-OMIKyWL63EqW0d66?uRr3HDFpdiuEjdN1mHkYayynK6

0<sub>1</sub>1<sub>7</sub>8

Scale = 1:22.8



ψ-3-φ						13-7-0						13-10-8
0-3-8	1					13-3-8						o-3-8
Plate Off	sets (X,Y)	[1:Edge,0-0-12], [25:0-1	1-8,0-0-12]									
		1										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	` _	n/a	999	MT20	220/195
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	13	n/a	n/a		
BCDL	5.0	Code IRC2015/T		Matri		110.2(01)	0.00	.0	.,, \	.,,	Weight: 56 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat)
BOT CHORD 2x4 DF No.2(flat)
WEBS 2x4 DF No.2(flat)
OTHERS 2x4 DF 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 13-10-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

#### **NOTES**

- 1) All plates are 1.5x4 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

Established Basic Permit #

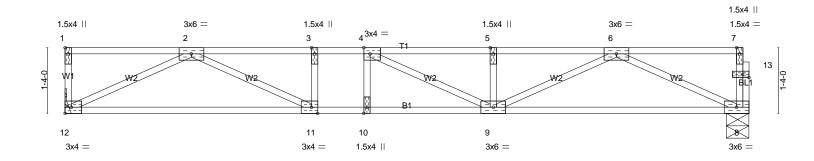
19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F01A	Floor	4	1	Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:13 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-Kkt4NCMMbr4EGxGV6JUJ8ilVuRDViaRgV4mrcTyynK4

 $0_{1}$  8 Scale = 1:23.4





0-3-8 0-3-8	5-1-8 4-10-0	0-5-10 0-5-10	13-7-0 7-6-4	0-3-8
	[1:Edge,0-0-12], [4:0-1-8,Edge], [11:	0-1-8,Edge], [13:0-1-8,0-0-1		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.48 BC 0.71 WB 0.25 Matrix-SH	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.12         9-10         >999         480           Vert(CT)         -0.16         9-10         >999         360           Horz(CT)         0.03         8         n/a         n/a	PLATES         GRIP           MT20         220/195           Weight: 64 lb         FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF No.2(flat) WEBS 2x4 DF 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.** (lb/size) 8=747/0-5-8 (min. 0-1-8), 12=753/Mechanical

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

TOP CHORD 2-3=-2062/0, 3-4=-2062/0, 4-5=-2056/0, 5-6=-2056/0 BOT CHORD 11-12=0/1312, 10-11=0/2062, 9-10=0/2062, 8-9=0/1329

WEBS 6-8=-1464/0, 2-12=-1457/0, 6-9=0/808, 2-11=0/844, 5-9=-295/0, 4-9=-305/223

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

LOAD CASE(S) Standard

Established Basic Permit #

19-03650

Job Truss Truss Type Qty **ENVISION NW** 1903888F F01B Floor Job Reference (optional)

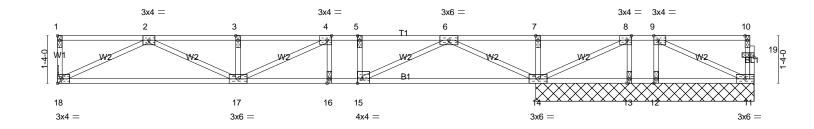
8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:16 2019 Page 1

ID:t9rACx?uLBINQU\_rXimwntyz1pO-kJYD?EPFtmTp7O?3nR10mKw0yeHivws6B1?VDoyynK1

Louws Truss, Inc., Ferndale, WA 98248

Scale = 1.32.3





		8-5-0			16-8-12		
η-3-β	7-8-4	8 <sub>0</sub> -1 <sub>0</sub>	13-5-12	16-1-4	16-5 <sub>T</sub> 0	19-3-0	19-6 <sub>1</sub> 8
0-3-8	7-4-12	0-4-6 <sup>1</sup>	5-0-12	2-7-8	0 <del>-</del> 3-12	2-6-4	0-3-8
		0-4-6			0-3-12		
Plate Offsets (X,Y)-	- [1:Edge,0-0-12], [4:0-1-8,Edge], [8:	0-1-8, Edge], [9:0-1-8, Edge]	, [15:0-1-8,Edge], [19:0-1-8	8,0-0-12]			

LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         YES	CSI. TC 0.49 BC 0.62 WB 0.27	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.10 16-17         >999         480           Vert(CT)         -0.13 16-17         >999         360           Horz(CT)         0.02         14         n/a         n/a	PLATES         GRIP           MT20         220/195
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	, ,	Weight: 91 lb FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 DF No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 DF No.2(flat)

except end verticals.

2x4 DF No.2(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-1-8 except (jt=length) 18=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 11 except 13=-350(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 11, 13 except 14=1342(LC 1), 18=644(LC 3), 12=368(LC 1)

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

TOP CHORD 2-3=-1603/0, 3-4=-1603/0, 4-5=-1370/0, 5-6=-1370/0, 6-7=0/990, 7-8=0/990,

8-9=0/258

**BOT CHORD** 17-18=0/1082, 16-17=0/1370, 15-16=0/1370, 14-15=0/432, 13-14=-258/0, 12-13=-258/0,

11-12=-258/0

**WEBS** 7-14=-281/0, 2-18=-1202/0, 6-14=-1580/0, 2-17=0/579, 6-15=0/1052, 3-17=-295/0,

5-15=-304/0, 4-17=-82/384, 9-11=0/286, 8-14=-817/0, 8-13=-43/354, 9-12=-341/0

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb)
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

Established Basic Permit #

19-03650

Job Truss Truss Type Qty **ENVISION NW** 1903888F F01C 8 Floor Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:18 2019 Page 1

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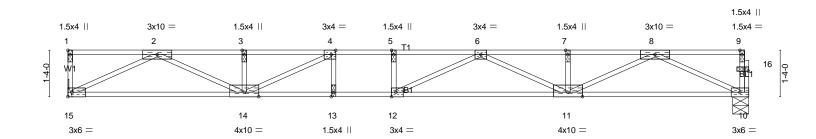
Louws Truss, Inc., Ferndale, WA 98248

2-5-4

1-7-4

Scale = 1:33.1

0-11-8



0-3-8	7-8-4	<sub>1</sub> 8-5-14 <sub>1</sub> 9-3-8	19-3-0	19-6 <sub>-</sub> 8
0-3-8	7-4-12	0-9-10'0-9-10	9-11-8	0-3-8
Plate Offsets (X,Y)	[1:Edge,0-0-12], [4:0-1-8,Edge], [12:0-1-8]	0-1-8,Edge], [16:0-1-8,0-	-0-12]	
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 371	1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.87	Vert(LL) -0.37 11-12 >619 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.67	Vert(CT) -0.53 11-12 >438 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.07 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	,	Weight: 88 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF 2400F 2.0E(flat)

WFBS 2x4 DF No.2(flat) **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals.

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

**REACTIONS.** (lb/size) 10=1058/0-5-8 (min. 0-1-8), 15=1064/Mechanical

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

2-3=-3291/0, 3-4=-3291/0, 4-5=-4185/0, 5-6=-4185/0, 6-7=-3345/0, 7-8=-3345/0 TOP CHORD **BOT CHORD** 14-15=0/1946, 13-14=0/4185, 12-13=0/4185, 11-12=0/4082, 10-11=0/1997

WEBS  $8-10=-2202/0,\ 2-15=-2162/0,\ 8-11=0/1498,\ 2-14=0/1494,\ 3-14=-271/31,\ 6-11=-818/0,\ 4-14=-1179/0,\ 6-12=-248/548$ 

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

LOAD CASE(S) Standard

Established Basic Permit #

19-03650

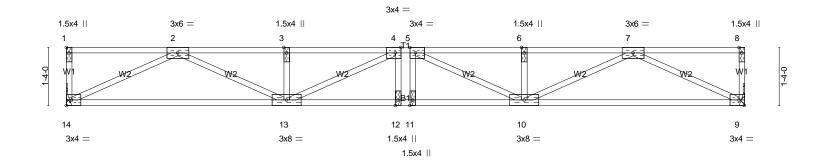
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F01D	Floor	4	1	
					Job Reference (optional)

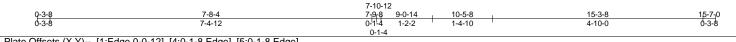
8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:21 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-5HM62xSNiJ55D9t1a\_dBTOduFf\_laAssKJiGt?yynJy

2-5-4

0\_2\_8

Scale = 1:26.5





Flate Offsets (A, I)	[1.Luge,0-0-12], [4.0-1-0,Luge], [5.0	r-1-0,Lugej		
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.14 12 >999 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.19 12 >956 360	i
BCLL 0.0	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.04 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	, ,	Weight: 73 lb FT = 20%F, 11%E

# LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF No.2(flat) 2x4 DF No.2(flat) WFBS

### **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. (lb/size) 9=850/Mechanical, 14=850/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2432/0, 3-4=-2432/0, 4-5=-2743/0, 5-6=-2432/0, 6-7=-2432/0 **BOT CHORD** 13-14=0/1506, 12-13=0/2743, 11-12=0/2743, 10-11=0/2743, 9-10=0/1506

WEBS 7-9=-1673/0, 2-14=-1673/0, 7-10=0/1028, 2-13=0/1028, 6-10=-262/0, 3-13=-262/0, 5-10=-501/49, 4-13=-501/49

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

Established Basic Permit #

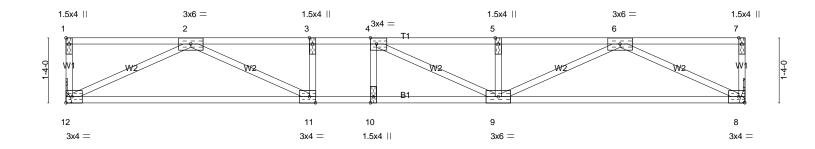
19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F01E	Floor	2	1	Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:24 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-Vs1EgzVG?ETg4dccF7Au40FMXszCnY8I0HxwUKyynJv

2-5-4

Scale = 1:23.6



γ-3-8	5-1-8	_ 5-8-4   6-3-0	13-7-12	13-11₁4
Ó-3-8	4-10-0	0-6-12 0-6-12	7-4-12	o-3-8
Plate Offsets (X,Y)	[1:Edge,0-0-12], [4:0-1-8,Edge], [11:	0-1-8,Edge]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.14 9-10 >999 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT) -0.18 9-10 >919 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.03 8 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	, ,	Weight: 63 lb FT = 20%F, 11%E
				,

LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF No.2(flat) WEBS 2x4 DF 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.** (lb/size) 8=760/Mechanical, 12=760/Mechanical

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

TOP CHORD 2-3=-2099/0, 3-4=-2099/0, 4-5=-2076/0, 5-6=-2076/0 BOT CHORD 11-12=0/1326, 10-11=0/2099, 9-10=0/2099, 8-9=0/1319

WEBS 6-8=-1465/0, 2-12=-1473/0, 6-9=0/840, 2-11=0/874, 5-9=-301/0, 3-11=-257/0, 4-9=-330/210

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

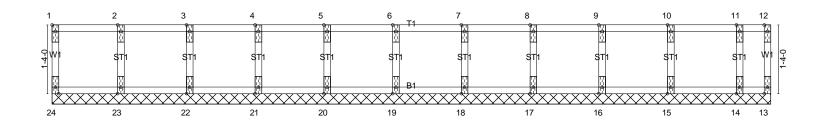
Established Basic Permit #

19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F01G	Floor Supported Gable	1	1	Job Reference (optional)

10:19rACx?uLBINQU\_rXimwntyz1pO-SE9?5fWWXrjOJwm\_NYDMARKp0gqTFVLbUbQ1YDyynJt

Scale = 1:22.3



0-3-8 0-3-8	13-7-12 13 13-4-4 0				
Plate Offsets (X,Y)	[1:Edge,0-0-12]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.07 BC 0.01 WB 0.02 Matrix-R	DEFL. in (I Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	loc) I/defl L/d - n/a 999 - n/a 999 13 n/a n/a	PLATES GRIP MT20 220/195 Weight: 55 lb FT = 20%F, 11%E

### LUMBER-

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

### BRACING-

TOP CHORD Str

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 13-11-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

#### NOTES

- 1) All plates are 1.5x4 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

Established Basic Permit #

19-03650

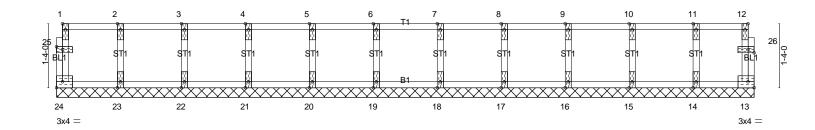
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F02	Floor Supported Gable	1	1	Job Reference (optional)

0118

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:29 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-spr7jgZPpm5zBOUZ2gm3n4yLltsESs41AZeh9XyynJq

0<sub>1</sub>1<sub>1</sub>8

Scale: 1/2"=1'



Q-3 <b>-</b> 8			14-3-0	1 <sub>4</sub> -6 <sub>7</sub> 8
0-3-8		0-3-8		
Plate Offsets (X,Y)	[1:Edge,0-0-12], [25:0-1-8,0-0-12], [2	26:0-1-8,0-0-12]		
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	· · ·		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20 220/195
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 13 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R	(2.)	Weight: 59 lb FT = 20%F, 11%E
2022 0.0	0000 11102010/11 12011	THE STATE OF THE S		11 0 19 11 1 20 701 ; 11 70 2

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

**BRACING-**

**TOP CHORD** 

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

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

REACTIONS. All bearings 14-6-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

LUMBER-

- 1) All plates are 1.5x4 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

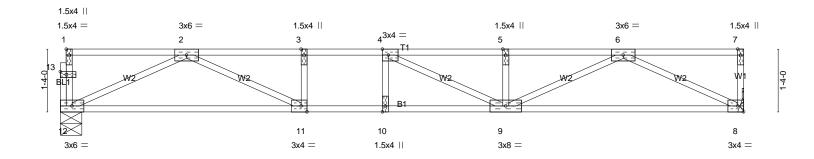
Established Basic Permit #

19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F02A	Floor	2	1	Job Reference (optional)



Scale = 1:24.5



Q-3- <b>8</b>	5-3-0	, 6-0-10 , 6-10-4 <sub>,</sub>	14-3-0	1 <sub>/</sub> 4-6 <sub>7</sub> 8
0-3-8	4-11-8	0-9-10 0-9-10	7-4-12	0-3-8
Plate Offsets (X,Y)	[1:Edge,0-0-12], [4:0-1-8,Edge], [11:	0-1-8,Edge], [13:0-1-8,0-	-0-12]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL) -0.20 9-10 >865 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.92	Vert(CT) -0.25 9-10 >682 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.03 8 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 66 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF No.2(flat) WEBS 2x4 DF 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:

2-2-0 oc bracing: 9-10.

**REACTIONS.** (lb/size) 12=783/0-5-8 (min. 0-1-8), 8=789/Mechanical

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

TOP CHORD 2-3=-2260/0, 3-4=-2260/0, 4-5=-2204/0, 5-6=-2204/0 BOT CHORD 11-12=0/1413, 10-11=0/2260, 9-10=0/2260, 8-9=0/1381

WEBS 6-8=-1534/0, 2-12=-1556/0, 6-9=0/914, 2-11=0/969, 5-9=-315/0, 3-11=-295/0, 4-9=-395/188

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

LOAD CASE(S) Standard

Established Basic Permit #

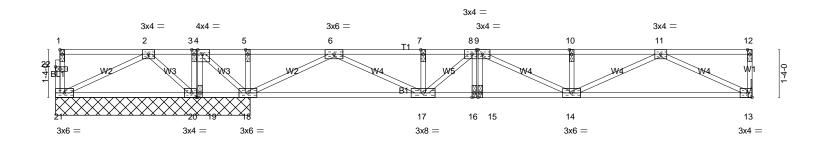
19-03650

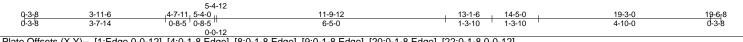
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F02B	Floor	1	1	Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:34 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-Dne0nOdXelkFH9NXrDMEU7g3muTF736mKrMSrlyynJI



Scale = 1.32.3





Flate Offsets (A, I)	[1.Euge,0-0-12], [4.0-1-6,Euge], [6.0	- 1-6,Eugej, [9.0-1-6,Eu(	jej, [20.0-1-6,⊑ugej, [22.0-1-6,0-0-12]	
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.53	Vert(LL) -0.07 14-15 >999 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.40	Vert(CT) -0.10 13-14 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.01 13 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	` ,	Weight: 95 lb FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 DF No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 DF No.2(flat)

except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 DF No.2(flat) **BOT CHORD** WFBS

REACTIONS. All bearings 5-5-8 except (jt=length) 13=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 21=-135(LC 4), 19=-910(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 21 except 18=1813(LC 1), 20=437(LC 1), 13=643(LC 4)

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

TOP CHORD 2-3=0/633, 3-4=0/633, 4-5=0/1492, 5-6=0/1492, 6-7=-1083/0, 7-8=-1083/0,

8-9=-1431/0, 9-10=-1581/0, 10-11=-1581/0 20-21=-342/42, 19-20=-633/0, 18-19=-633/0, 16-17=0/1431, 15-16=0/1431,

**BOT CHORD** 14-15=0/1431, 13-14=0/1079

**WEBS** 2-21=-41/382, 4-18=-1187/0, 2-20=-555/0, 4-19=0/711, 11-13=-1198/0, 6-18=-1705/0, 11-14=0/558, 6-17=0/1154, 10-14=-258/0, 9-14=-107/336, 8-17=-511/0, 8-16=0/255

## NOTES-

Dieta Offeete (V V)

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 21 and 910 lb uplift at joint 19.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

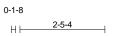
LOAD CASE(S) Standard

Established Basic Permit #

19-03650

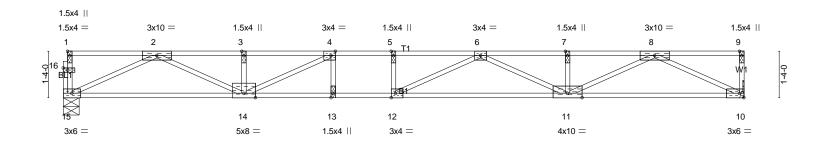
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F02C	Floor	9	1	Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:37 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-dMJ9PPfQxD6q8d56WLvx6mlVt6QrKOPC0pa6R4yynJi



1-7-4

Scale = 1:33 1



0-3-8	7-9-12	<sub>1</sub> 8-7-6 <sub>1</sub> 9-5-0	19-3-0	19-6 <sub>i</sub> -8
0 <u>-3-8</u> 0-3-8	7-6-4	0-9-10	0 9-10-0	0-3-8
Plate Offsets (X,Y)	[1:Edge,0-0-12], [4:0-1-8,Edge], [12:	0-1-8,Edge], [16:0-1-8,0	-0-12]	
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.86	Vert(LL) -0.37 11-12 >627 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.67	Vert(CT) -0.52 11-12 >443 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.07 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	- (- /	Weight: 88 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF 2400F 2.0E(flat)

WEBS 2x4 DF 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 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 15=1058/0-5-8 (min. 0-1-8), 10=1064/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3319/0, 3-4=-3319/0, 4-5=-4191/0, 5-6=-4191/0, 6-7=-3318/0, 7-8=-3318/0

BOT CHORD 14-15=0/1986, 13-14=0/4191, 12-13=0/4191, 11-12=0/4070, 10-11=0/1957

WEBS 8-10=-2173/0, 2-15=-2190/0, 8-11=0/1512, 2-14=0/1481, 3-14=-272/30, 6-11=-835/0, 4-14=-1161/0, 6-12=-233/561

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

LOAD CASE(S) Standard

Established Basic Permit #

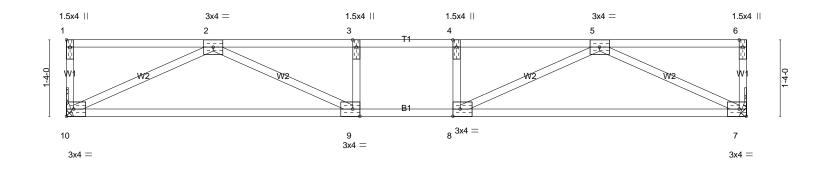
19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW	
1903888F	F02D	Floor	4	1	Job Reference (optional)	
Louws Truss, Inc., Ferndale, W	A 98248	8.310 s Jun 26 2019 MTek Industries, Inc. Fri Jul 12 12:33:39 2019 Pag ID:t9rACx?uLBINQU_rXimwntyz1pO-ZkRvq5ggTrMYNwFUdmxPBBNz0v9AoKZVT73DWyyyr				

2-5-4

1-7-8

Scale = 1.20.1



0-3-8	5-1-8			11-7-0	11-10 <sub>1</sub> 8
0-3-8	4-10-0	' 0-9	-12 ' 0-9-12 '	4-10-0	0-3-8
Plate Offsets (X,Y)	[1:Edge,0-0-12], [8:0-1-8,Edge], [9:0-	·1-8,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.37 BC 0.48 WB 0.21 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl L/d -0.11 9-10 >999 480 -0.17 9-10 >840 360 0.02 7 n/a n/a	PLATES GRIP MT20 220/195 Weight: 52 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF No.2(flat)

2x4 DF No.2(flat) WFBS

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

**REACTIONS.** (lb/size) 7=646/Mechanical, 10=646/Mechanical

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

2-3=-1574/0, 3-4=-1574/0, 4-5=-1574/0 TOP CHORD **BOT CHORD** 9-10=0/1088, 8-9=0/1574, 7-8=0/1088

WEBS 5-7=-1208/0, 2-10=-1208/0, 5-8=0/618, 2-9=0/618

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

Established Basic Permit #

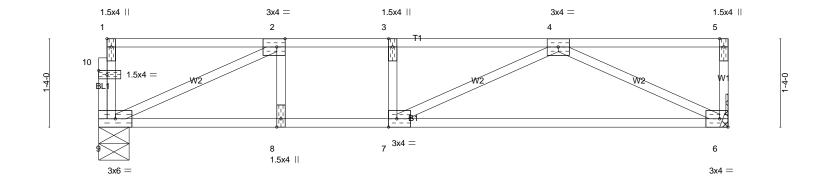
19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F02E	Floor	2	1	Job Reference (optional)

8.310 s Jun 26 2019 MTek Industries, Inc. Fri Jul 12 12:33:42 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-\_J72S7jYlmk7EO\_3JvV6pp?R279F?iox94lt7HyynJd



Scale = 1:17.4



0-3-8	2-9-12	3-7-2 4-4-8	9-2-8	9-6-0
0-3-8	2-6-4	0-9-6 0-9-6	4-10-0	0-3-8
Plate Offsets (X,Y)	[1:Edge,0-0-12], [2:0-1-8,Edge], [7:0	-1-8,Edge], [10:0-1-8,0-	-0-12]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.14 6-7 >827 480	MT20 220/195
TCDL 10.0	Lumber DOL 1.00	BC 0.59	Vert(CT) -0.22 6-7 >511 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01 6 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 44 lb FT = 20%F, 11%E

# LUMBER-

TOP CHORD 2x4 DF No.2(flat) BOT CHORD 2x4 DF No.2(flat) WEBS 2x4 DF 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.** (lb/size) 9=506/0-5-8 (min. 0-1-8), 6=512/Mechanical

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

TOP CHORD 2-3=-936/0, 3-4=-936/0

BOT CHORD 8-9=0/936, 7-8=0/936, 6-7=0/812 WEBS 4-6=-902/0, 2-9=-1025/0, 4-7=0/274

# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

LOAD CASE(S) Standard

Established Basic Permit #

19-03650

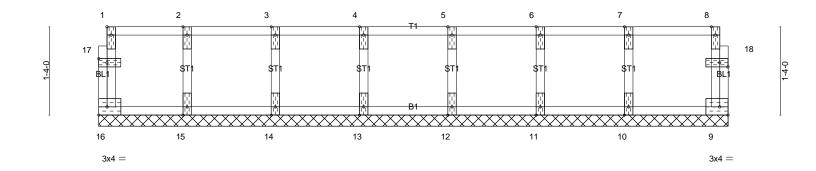
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	F02F	Floor Supported Gable	1	1	Job Reference (optional)

8.310 s Jun 26 2019 MTek Industries, Inc. Fri Jul 12 12:33:44 2019 Page 1 ID:t9rACx?uLBINQU\_rXimwntyz1pO-wiFotpkpHN\_qUh8SQJXauE4uUwzgTeoEdOn\_BAyynJb

0\_1\_8

Scale = 1:17.4

0<sub>1</sub>1<sub>7</sub>8



0-3-8 0-3-8	[1:Edge,0-0-12], [17:0-1-8,0-0-12], [1	8:0-1-8 0-0-121	9-2-8 8-11-0	9-5-U 0-3-8
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP
TCLL 40.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	TC 0.07 BC 0.01 WB 0.02	Vert(LL) n/a - n/a Vert(CT) n/a - n/a Horz(CT) 0.00 9 n/a	999 MT20 220/195 999 n/a
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R	11012(01) 0.00 9 11/4	Weight: 40 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 DF No.2(flat)
BOT CHORD 2x4 DF No.2(flat)
WEBS 2x4 DF No.2(flat)
OTHERS 2x4 DF 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 9-6-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

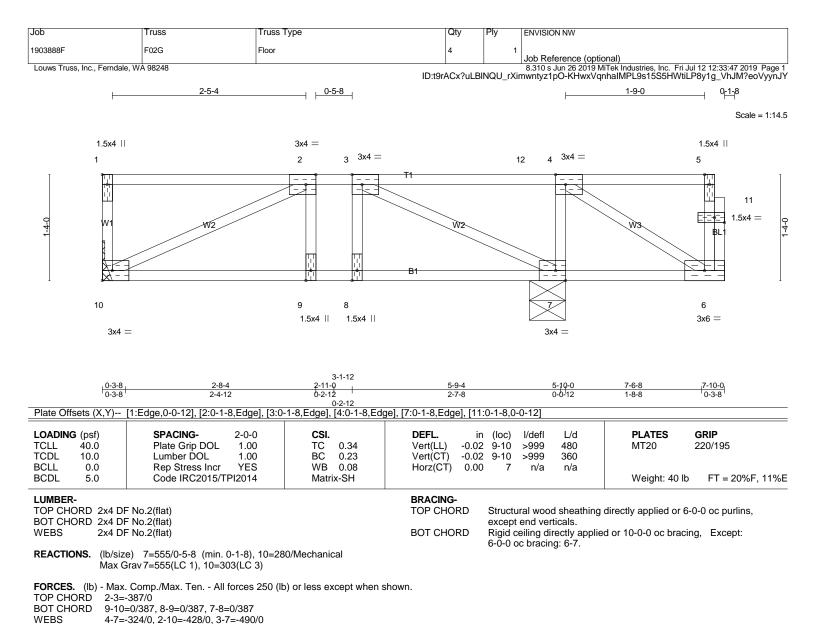
#### **NOTES**

- 1) All plates are 1.5x4 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

Established Basic Permit #

19-03650



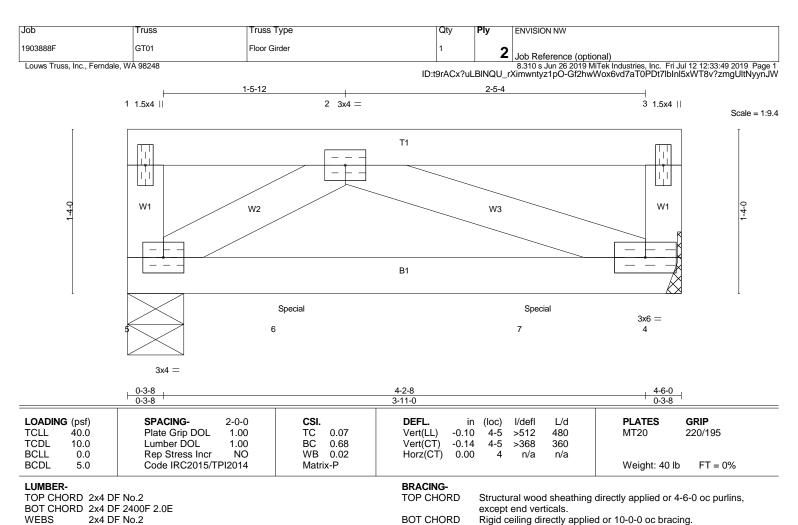
#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

LOAD CASE(S) Standard

Established Basic Permit #

19-03650



**REACTIONS.** (Ib/size) 4=1011/Mechanical, 5=951/0-5-8 (min. 0-1-8)

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

BOT CHORD 5-6=0/252, 6-7=0/252, 4-7=0/252

WEBS 2-4=-272/0, 2-5=-300/0

# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-5-0 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) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) 750 lb down at 1-4-0, and 750 lb down at 3-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 4-5=-10, 1-3=-100
 Concentrated Loads (lb)

Vert: 6=-750(F) 7=-750(F)

Established Basic Permit #

19-03650

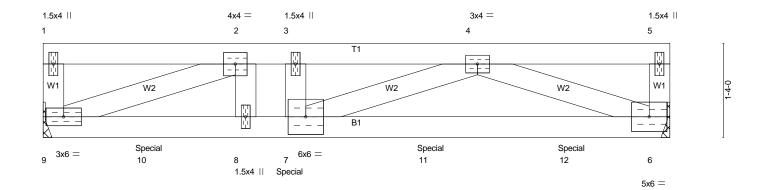
Job Truss Qty **ENVISION NW** Truss Type 1903888F GT01B Floor Girder | Z | Job Reference (optional)

8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:54 2019 Page 1
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Louws Truss, Inc., Ferndale, WA 98248

0-5-0 2-5-4

Scale = 1:16.4



<u>0-3-8 </u>   <del>0-3-8 </del>	3-0-4 2-8-12	3-5-4 3-2-12 0-2-8 0-2-8	8-7-4 5-2-0	8-10-12 10-3-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	CSI. TC 0.70 BC 0.87 WB 0.33	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.16         6-7         >658         480           Vert(CT)         -0.22         6-7         >476         360           Horz(CT)         0.02         6         n/a         n/a	PLATES         GRIP           MT20         220/195
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH	1.0.2(0.1) 0.02 0	Weight: 77 lb FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2 BOT CHORD 2x4 DF 2400F 2.0E

2x4 DF No.2 **WEBS** 

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins,

except end verticals.

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

REACTIONS. (lb/size) 6=2182/Mechanical, 9=2125/Mechanical

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

TOP CHORD 2-3=-4771/0, 3-4=-4771/0, 4-5=-580/0

**BOT CHORD** 9-10=0/4771, 8-10=0/4771, 7-8=0/4771, 7-11=0/3301, 11-12=0/3301, 6-12=0/3301

**WEBS** 4-6=-2934/0, 2-9=-4924/0, 4-7=0/1720, 2-8=0/486, 3-7=0/1197

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-4-0 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) Refer to girder(s) for truss to truss connections
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 840 lb down at 1-6-0, 840 lb down at 3-6-0, and 840 lb down at 5-6-0, and 840 lb down at 7-6-0 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: 6-9=-10, 1-5=-100

Concentrated Loads (lb)

Vert: 7=-840(B) 10=-840(B) 11=-840(B) 12=-840(B)

Established Basic Permit #

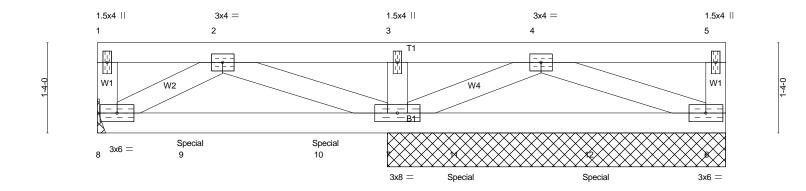
19-03650

Job Truss Qty **ENVISION NW** Truss Type 1903888F GT02A Floor Girder LibitorACx?uLBINQU\_rXimwntyz1pO-O9Kcfyy52vFHeTWvU5sod1qwxButhn3umC8xq7yynJJ

Louws Truss, Inc., Ferndale, WA 98248

1-6-12 2-5-4 1-11-12

Scale = 1.17.0



0-3-8	4-5-4		4-7-0	9-0-0	9-3-8
0-3-8	4-1-12		0-1-12	4-5-0	0-3-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.26 BC 0.91 WB 0.03 Matrix-SH	Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0		PLATES         GRIP           MT20         220/195           Weight: 81 lb         FT = 0%

LUMBER-**BRACING-**

TOP CHORD 2x4 DF No.2 BOT CHORD 2x4 DF No.2

2x4 DF No.2 **WEBS** 

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

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

(lb/size) 7=2313/5-0-0 (min. 0-1-9), 8=634/Mechanical, 6=588/5-0-0 (min. 0-1-9) REACTIONS.

Max Grav 7=2313(LC 1), 8=655(LC 3), 6=596(LC 4)

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

TOP CHORD 4-5=-264/0 **BOT CHORD** 

8-9=0/336, 9-10=0/336, 7-10=0/336, 7-11=0/349, 11-12=0/349, 6-12=0/349

**WEBS** 3-7=-267/0, 2-7=-393/0, 4-7=-454/0

# NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-5-0 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) Refer to girder(s) for truss to truss connections
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) 636 lb down at 1-4-8, 636 lb down at 3-4-8, and 636 lb down at 5-4-8, and 636 lb down at 7-4-8 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)

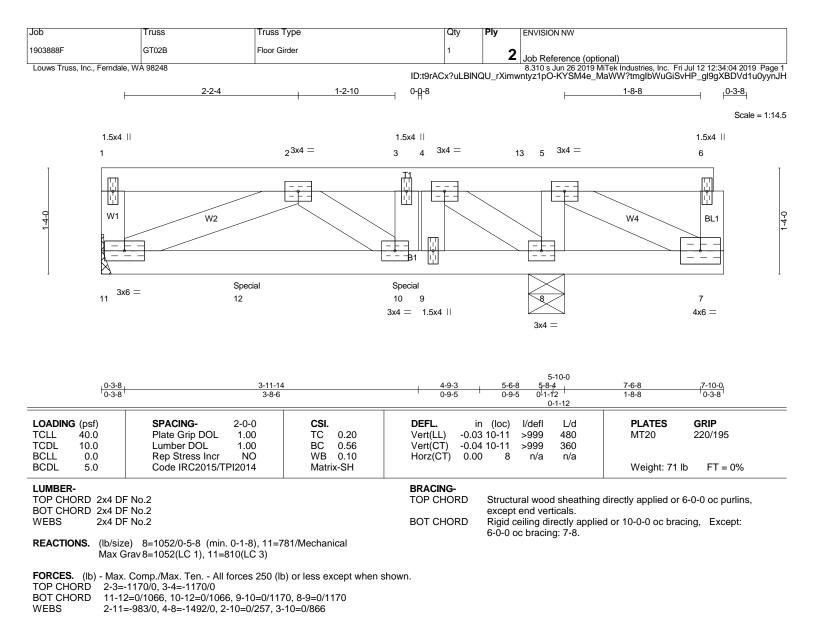
Vert: 6-8=-10, 1-5=-100

Concentrated Loads (lb)

Vert: 9=-636(F) 10=-636(F) 11=-636(F) 12=-636(F)

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19-03650



# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 10-3 2x4 - 1 row at 0-5-0 oc, member 9-4 2x4 - 1 row at 0-5-0

- 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) Refer to girder(s) for truss to truss connections
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) 502 lb down at 1-10-0, and 502 lb down at 3-10-0 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: 7-11=-10, 1-6=-100

Concentrated Loads (lb)

Vert: 10=-502(B) 12=-502(B)

Established Basic Permit #

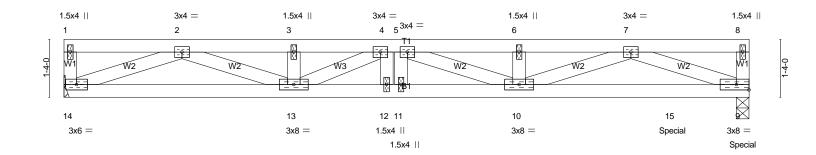
19-03650

Job Truss Truss Type Qty **ENVISION NW** 1903888F GT01A Floor Girder 2 Job Reference (optional) 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:33:52 2019 Page 1

Louws Truss, Inc., Ferndale, WA 98248

2-5-4 1-10-4

Scale = 1:26.6



0-3-8	7-7-4		8-11-14 10-4-8	15-6-8	15-10-0
0-3-8	7-3-12		1-4-10 1-4-10	5-2-0	0-3-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.42 BC 0.75 WB 0.18 Matrix-SH	DEFL.         in (loc)         l/defl           Vert(LL)         -0.13         9-10         >999           Vert(CT)         -0.18         9-10         >999           Horz(CT)         0.03         9         n/a	L/d PLATES 480 MT20 360 n/a Weight: 13	<b>GRIP</b> 220/195 8 lb FT = 0%

LUMBER-**BRACING-**

TOP CHORD 2x4 DF No.2 BOT CHORD 2x4 DF 2400F 2.0E

2x4 DF No.2 **WEBS** 

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

**REACTIONS.** (lb/size) 9=3928/0-3-8 (min. 0-2-2), 14=959/Mechanical

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

TOP CHORD 2-3=-3284/0, 3-4=-3284/0, 4-5=-3824/0, 5-6=-4127/0, 6-7=-4127/0, 7-8=-440/0

**BOT CHORD**  $13-14=0/2016,\ 12-13=0/3824,\ 11-12=0/3824,\ 10-11=0/3824,\ 10-15=0/2604,\ 9-15=0/2604$ 

**WEBS** 7-9=-2333/0, 2-14=-2089/0, 7-10=0/1642, 2-13=0/1367, 5-10=0/739, 4-13=-752/0, 4-12=0/402, 5-11=-561/0

- 1) Special connection required to distribute bottom chord loads equally between all plies.
- 2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 3) 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.
- 4) Unbalanced floor live loads have been considered for this design.
- 5) Refer to girder(s) for truss to truss connections.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1001 lb down at 14-0-12, and 2177 lb down at 15-8-4 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: 9-14=-10, 1-8=-100

Concentrated Loads (lb)

Vert: 9=-2177(F) 15=-1001(B)

Established Basic Permit #

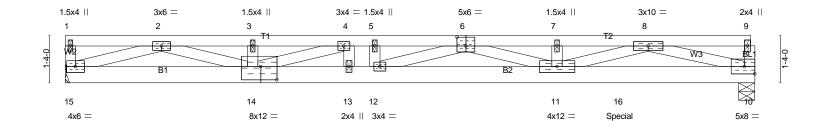
19-03650

Job Truss Qty **ENVISION NW** Truss Type 1903888F GT01C Floor Girder Louws Truss, Inc., Ferndale, WA 98248

0-5-4

0-3-8 Scale = 1.32.6

2-8-12



0-2-10

		1		_
LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	40.0	Plate Grip DOL	1.00	TC 0.71
TCDL	10.0	Lumber DOL	1.00	BC 0.86
BCLL	0.0	Rep Stress Incr	NO	WB 0.47
BCDI	5.0	Code IRC2015/T	Matrix-SH	

DEFL I/d in (loc) I/defl >688 Vert(LL) -0.34 11-12 480 Vert(CT) -0.46 11-12 >503 360 Horz(CT) 0.05 10

GRIP PLATES MT20 220/195

Weight: 194 lb FT = 0%

LUMBER-

**WEBS** 

TOP CHORD 2x4 DF No.2 BOT CHORD 2x6 DF No.2 \*Except\*

2-5-4

B2: 2x6 DF 2400F 2.0E

Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [14:0-5-8,0-4-8]

2x4 DF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins,

except end verticals.

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

**REACTIONS.** (lb/size) 10=2769/0-5-8 (min. 0-1-8), 15=1464/Mechanical

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

TOP CHORD 2-3=-5891/0, 3-4=-5891/0, 4-5=-8052/0, 5-6=-8052/0, 6-7=-10151/0, 7-8=-10151/0,

14-15=0/3392, 13-14=0/8052, 12-13=0/8052, 11-12=0/9657, 11-16=0/6142, 10-16=0/6142 **BOT CHORD WEBS** 8-10=-5727/0, 2-15=-3422/0, 8-11=0/4276, 2-14=0/2666, 6-11=0/919, 4-14=-2372/0,

6-12=-2097/0, 4-13=0/626

# 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: 2x6 - 2 rows staggered at 0-4-0 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) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) 2115 lb down at 15-8-8 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: 10-15=-10, 1-9=-100 Concentrated Loads (lb) Vert: 16=-2115(B)

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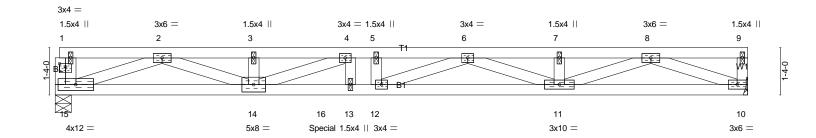
Job Truss Truss Type Qty **ENVISION NW** 1903888F GT02 Floor Girder 2 LibitorACx?uLBINQU\_rXimwntyz1pO-\_bfT0xwDl\_tin?nKozl5?PCO0zyZUMAS4EvGDoyynJM

Louws Truss, Inc., Ferndale, WA 98248

2-5-4

0-5-4

Scale = 1.32.5



		8-11-0		
Q-3- <b>8</b>	8-5-12	8 <sub>7</sub> 8 <sub>7</sub> 6 ,	19-3-0	19-6 <sub>7</sub> 8
0-3-8	8-2-4	0-2-10	10-4-0	d-3-8
		0-2-10		

Plate Offsets (X,Y) [1:	:0-2-0,0-1-0]	0-2-10		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.37 BC 0.63 WB 0.30 Matrix-SH	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.27         13         >851         480           Vert(CT)         -0.37         13         >627         360           Horz(CT)         0.05         10         n/a         n/a	PLATES GRIP MT20 220/195  Weight: 168 lb FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2

BOT CHORD 2x4 DF 2400F 2.0E WFBS 2x4 DF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins,

except end verticals.

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

REACTIONS. (lb/size) 15=1451/0-5-8 (min. 0-1-8), 10=1295/Mechanical

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

TOP CHORD 2-3=-5855/0, 3-4=-5855/0, 4-5=-7164/0, 5-6=-7164/0, 6-7=-4910/0, 7-8=-4910/0

**BOT CHORD** 14-15=0/3373, 14-16=0/7164, 13-16=0/7164, 12-13=0/7164, 11-12=0/6350, 10-11=0/2828 **WEBS** 

 $8-10=-2943/0,\ 2-15=-3478/0,\ 8-11=0/2245,\ 2-14=0/2676,\ 3-14=-328/0,\ 6-11=-1552/0,\ 4-14=-1546/0,\ 6-12=0/1297,\ 4-14=0/1297,\ 4-14=0/1297,\ 4-14=0/1297,\ 4-14=0/1297,\ 4-14=0/1297,\ 4-$ 

4-13=0/658, 5-12=-379/0

#### 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 0-5-0 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) Refer to girder(s) for truss to truss connections
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) 645 lb down at 7-6-8 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: 10-15=-10, 1-9=-100

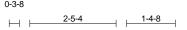
Concentrated Loads (lb) Vert: 16=-645(B)

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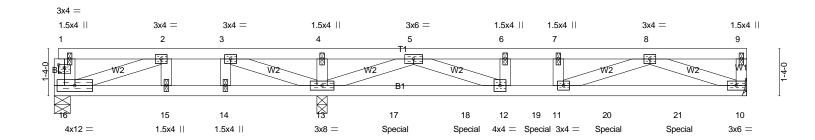
Job Truss Qty Ply **ENVISION NW** Truss Type 1903888F GT02C Floor Girder | 1 | 2 | Job Reference (optional) | 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 12:34:07 2019 Page 1 | ID:t9rACx?uLBINQU\_rXimwntyz1pO-I77Vig0EtRuakEOtGfSzK5XkACh?M\_JdvTriVKyynJE

Louws Truss, Inc., Ferndale, WA 98248



1-2-8

Scale = 1.32.5



-12 4-0-0 4-8-4	7-6-12	1	12-10-8	13-5-12	19-3-0	19-6 <sub>7</sub> 8 0-3-8
0-4 0-8-4 0-8-4	2-10-8	1	5-3-12	0-7-4 0-7-4	5-2-0	d-3-8
- [1:0-2-0,0-1-0]						
SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES	GRIP
Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.11 12-13 >999 480	MT20	220/195
	-		11012(01)	0.01 10 1/4 1/4	Woight: 163	Ib ET = 0%
Code INC2013/1	F12014	Matrix-311			Weight. 103	ID I I = 070
	0-4	0-4	0-4	0-4	0-4	0-4

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 DF No.2 BOT CHORD 2x4 DF 2400F 2.0E

2x4 DF No.2

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

14-1-0

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 16=76/0-5-8 (min. 0-1-8), 13=2704/0-3-8 (min. 0-1-8), 10=1294/Mechanical

Max Uplift16=-197(LC 4)

Max Grav 16=153(LC 3), 13=2704(LC 1), 10=1304(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=0/939, 3-4=0/1643, 4-5=0/1643, 5-6=-3869/0, 6-7=-3869/0, 7-8=-3869/0

15-16=-939/0, 14-15=-939/0, 13-14=-939/0, 13-17=0/1526, 17-18=0/1526, 12-18=0/1526, **BOT CHORD** 

12-19=0/3869, 11-19=0/3869, 11-20=0/2387, 20-21=0/2387, 10-21=0/2387

**WEBS** 4-13=-265/0, 2-16=0/1062, 3-13=-1185/0, 8-10=-2312/0, 5-13=-3312/0, 8-11=0/1678,

5-12=0/2576

#### NOTES-

WFBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-4-0 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 16.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 800 lb down at 9-7-8, 293 lb down at 11-7-12, 293 lb down at 13-7-12, and 293 lb down at 15-7-12, and 293 lb down at 17-7-12 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: 10-16=-10, 1-9=-100

Continued on page 2

Established Basic Permit #

19-03650

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888F	GT02C	Floor Girder	1	2	Job Reference (optional)

B.310 s Jun 26 2019 MTek Industries, Inc. Fri Jul 12 12:34:07 2019 Page 2 ID:t9rACx?uLBINQU\_rXimwntyz1pO-I77Vig0EtRuakEOtGfSzK5XkACh?M\_JdvTriVKyynJE

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 17=-800(B) 18=-293(B) 19=-293(B) 20=-293(B) 21=-293(B)

Established Basic Permit #

19-03650