BID #1903888
Designed in Burlington, WA

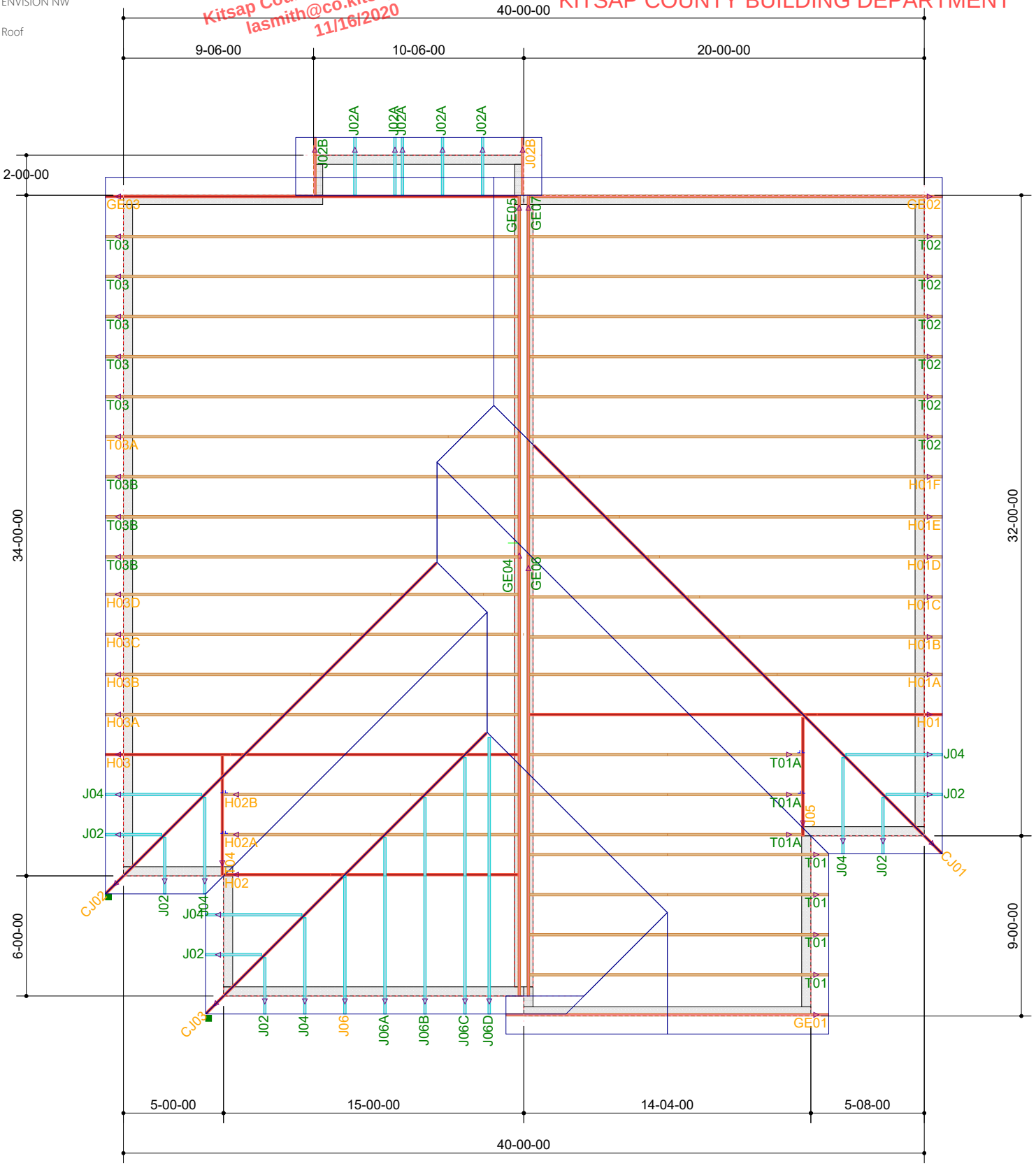
ENVISION NW

Roof

Reviewed for code compliance
with IRC 2015
Kitsap County Building Department
lasmith@co.kitsap.wa.us
11/16/2020

BASIC PERMIT PACKAGE
REVIEWED FOR CODE COMPLIANCE
WITH IRC 2015
KITSAP COUNTY BUILDING DEPARTMENT

7/11/2019



BID #1903888
ENVISION NW
SILVERDALE, WA 98383-9321

Sales:
Jeremiah Murphy

LOUWS TRUSS INCORPORATED

Roof: *6.00/12* Overhang: *10-12*

Ceiling: *Flat* Spacing: *24"*

30 PSF SNOW LOAD
All Gables dropped for 2x4 outlookers

Established Basic Permit #
19-03671

Permit Number: 20-04896

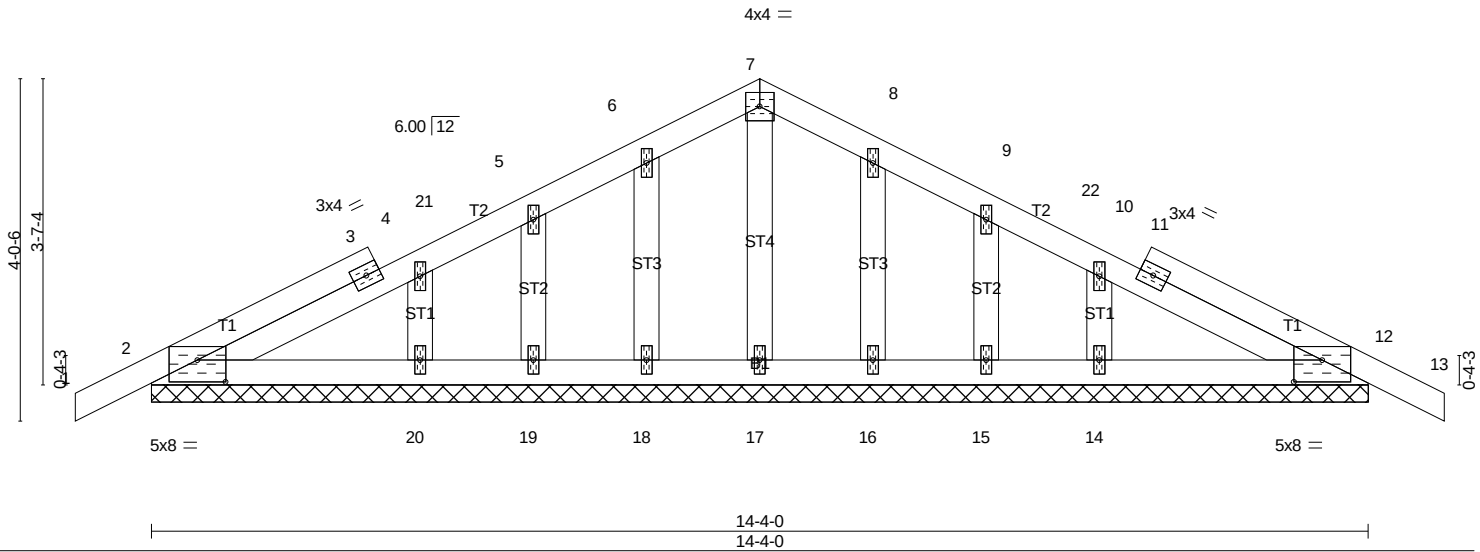
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE01	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:03:29 2019 Page 1

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-0-10-12 / 0-10-12 — 7-2-0 / 7-2-0 — 14-4-0 / 7-2-0 — 15-2-12 / 0-10-12

Scale = 1:27.1



14-4-0 / 14-4-0

Plate Offsets (X,Y)-- [2:0-4-0,0-3-1], [12:0-4-0,0-3-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	12	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	12	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	12	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 68 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 DF No.2

BRACING-
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-4-0.
(lb) - Max Horz 2=60(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-12 to 2-8-7, Exterior(2) 2-8-7 to 7-2-0, Corner(3) 7-2-0 to 10-9-3, Exterior(2) 10-9-3 to 15-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE02	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:03:33 2019 Page 1

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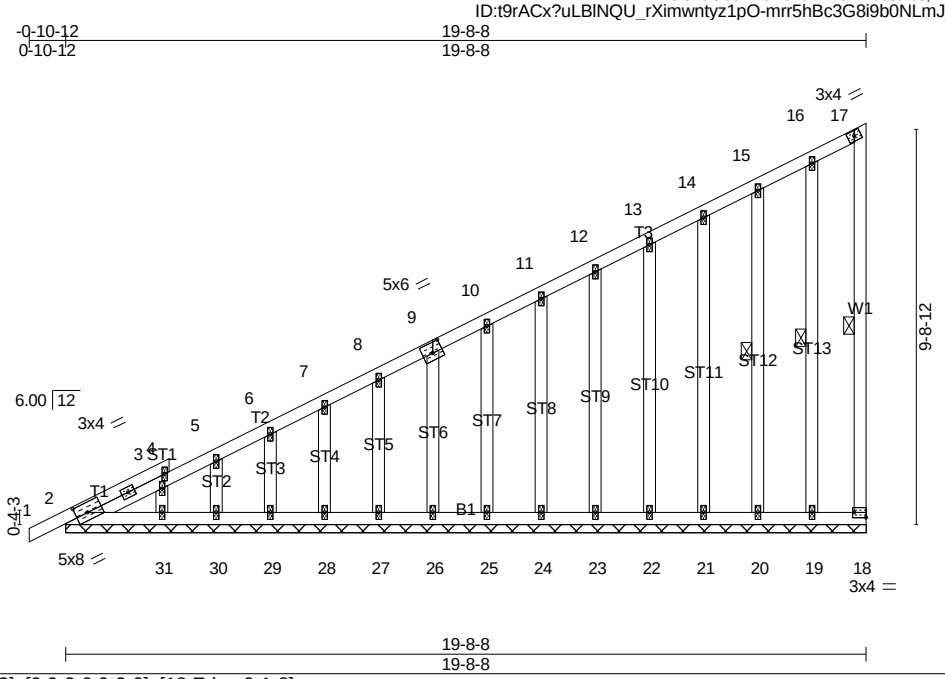


Plate Offsets (X,Y)-- [2:0-3-8,0-2-13], [9:0-3-0,0-3-0], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.00	1	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	18	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 156 lb	FT = 0%

LUMBER-

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

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.
WEBS	1 Row at midpt 17-18, 16-19, 15-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 19-8-8.
(lb) - Max Horz 2=369(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 18, 2, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31
Max Grav All reactions 250 lb or less at joint(s) 18, 2, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-543/267, 3-4=-530/257, 4-5=-529/264, 5-6=-503/257, 6-7=-471/245, 7-8=-441/235, 8-9=-410/224, 9-10=-379/214, 10-11=-348/203, 11-12=-318/192, 12-13=-287/182, 13-14=-257/171

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-12 to 2-8-7, Exterior(2) 2-8-7 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 2, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE04	Roof Special Supported Gable	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:03:42 2019 Page 1

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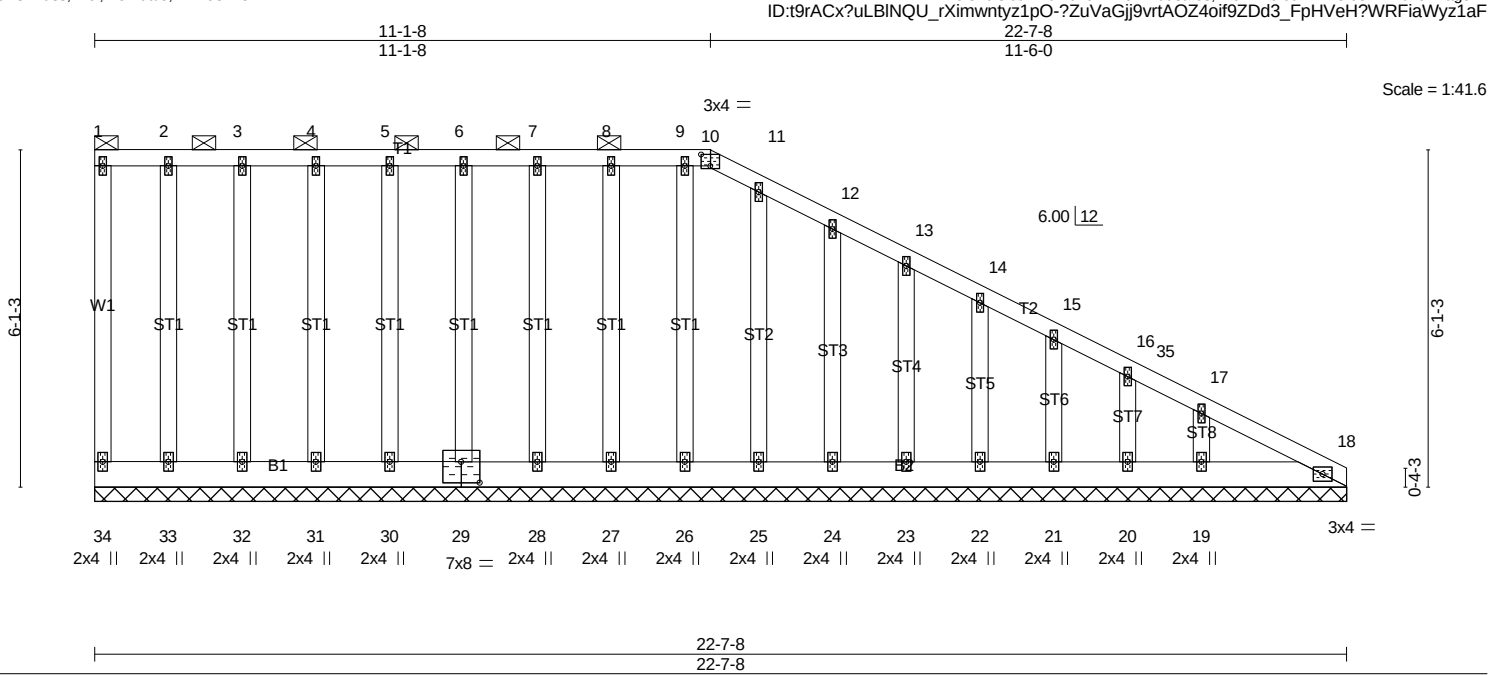


Plate Offsets (X,Y)-- [10:0-2-0,0-2-8], [29:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	18	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 174 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 DF No.2
OTHERS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-7-8.
(lb) - Max Horz 34=-218(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-265/133, 16-35=-285/138, 17-35=-290/131, 17-18=-338/161
BOT CHORD 33-34=-147/328, 32-33=-147/328, 31-32=-147/328, 30-31=-147/328, 29-30=-147/328, 28-29=-147/327, 27-28=-147/327, 26-27=-147/327, 25-26=-147/327, 24-25=-147/327, 23-24=-147/327, 22-23=-147/327, 21-22=-147/327, 20-21=-147/327, 19-20=-147/327, 18-19=-147/327

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-0-0, Exterior(2) 4-0-0 to 11-1-8, Corner(3) 11-1-8 to 14-8-0, Exterior(2) 14-8-0 to 22-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE05	GABLE	1	1	Job Reference (optional)

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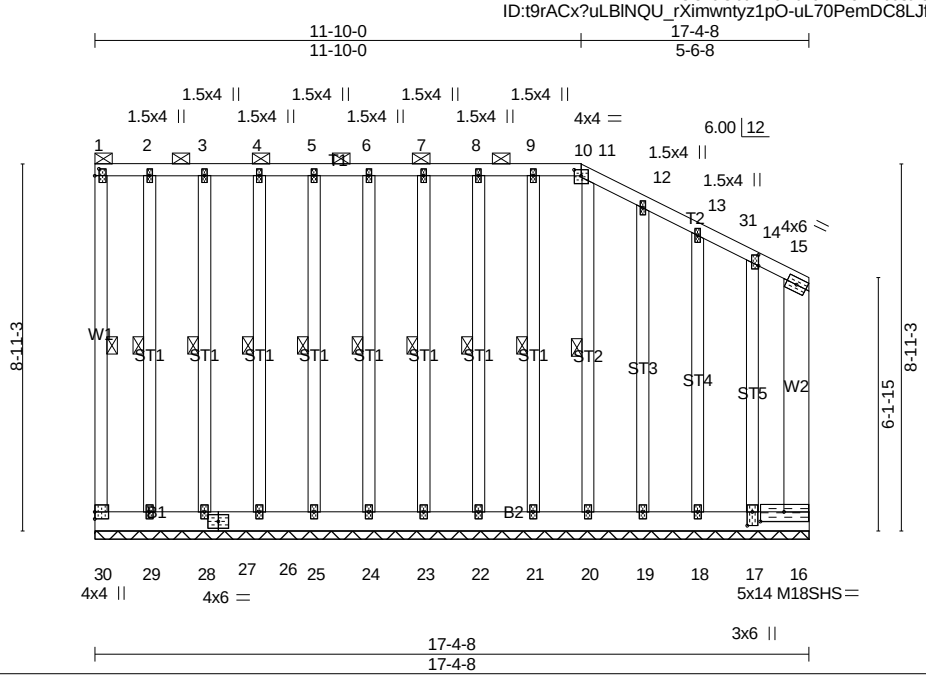


Plate Offsets (X,Y)-- [1:0-2-0,0-1-4], [10:0-0-0,0-1-12], [10:0-2-0,0-1-12], [11:0-1-12,0-0-14], [14:0-3-2,0-0-0], [16:0-6-14,0-2-12], [17:0-4-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	n/a	-	n/a	999	M18SHS	220/195
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.00	16	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-R							Weight: 216 lb	FT = 0%

LUMBER-

TOP CHORD	2x4 DF No.2
BOT CHORD	2x6 DF No.2
WEBS	2x4 DF No.2 *Except* W2: 2x8 DF SS
OTHERS	2x4 DF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-0-1 oc bracing: 16-17.
WEBS	1 Row at midpt 1-30, 2-29, 3-28, 4-26, 5-25, 6-24, 7-23, 8-22, 9-21, 11-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 17-4-8.
(lb) - Max Horz 30=-307(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 28, 26, 25, 24, 23, 22, 21, 20, 19 except 30=-127(LC 8), 16=-708(LC 11), 29=-126(LC 9), 18=-114(LC 9), 17=-1320(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18 except 16=1179(LC 8), 17=858(LC 11)

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

TOP CHORD	14-15=-495/330, 15-16=-686/459
BOT CHORD	29-30=-309/428, 28-29=-309/428, 27-28=-309/428, 26-27=-309/428, 25-26=-309/428, 24-25=-309/428, 23-24=-309/428, 22-23=-309/428, 21-22=-309/428, 20-21=-309/428, 19-20=-309/428, 18-19=-309/428, 17-18=-309/428, 16-17=-309/428
WEBS	14-17=-473/696

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-0-0, Exterior(2) 4-0-0 to 11-10-0, Corner(3) 11-10-0 to 15-5-3, Exterior(2) 15-5-3 to 17-0-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

NOTES-

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 26, 25, 24, 23, 22, 21, 20, 19 except (jt=lb) 30=127, 16=708, 29=126, 18=114, 17=1320.
12) 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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE06	Roof Special Supported Gable	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:03:50 2019 Page 1

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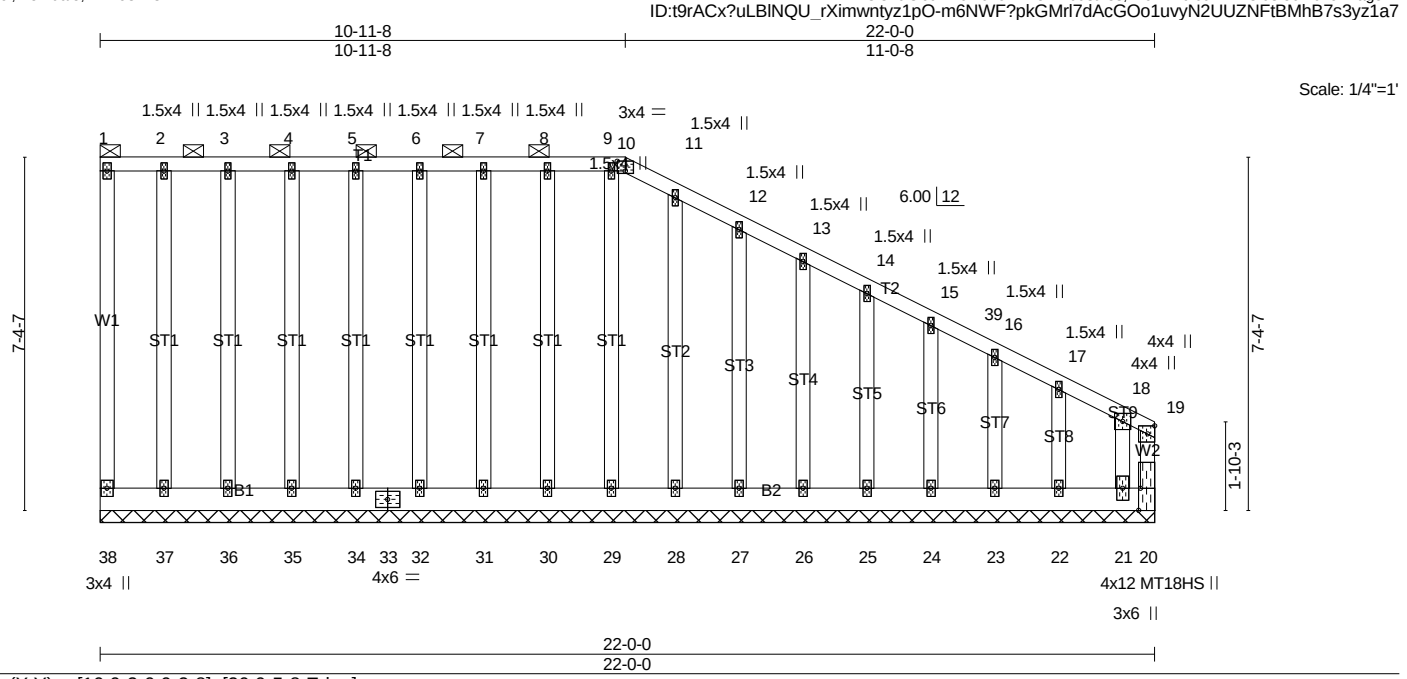


Plate Offsets (X,Y)-- [10:0-2-0,0-2-8], [20:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999	MT18HS	220/195
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	20	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-R							Weight: 202 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 DF No.2
OTHERS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 38=-262(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 20=-165(LC 11), 21=-625(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21 except 20=682(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-39=-277/149, 16-39=-280/143, 16-17=-307/158, 17-18=-346/173, 18-19=-554/272, 19-20=-585/289
BOT CHORD 37-38=-201/379, 36-37=-201/379, 35-36=-201/379, 34-35=-201/379, 33-34=-201/379, 32-33=-201/379, 31-32=-201/379, 30-31=-201/379, 29-30=-201/379, 28-29=-201/379, 27-28=-201/379, 26-27=-201/379, 25-26=-201/379, 24-25=-201/379, 23-24=-201/379, 22-23=-201/379, 21-22=-201/379, 20-21=-201/379
WEBS 18-21=-241/460

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-0-0, Exterior(2) 4-0-0 to 10-11-8, Corner(3) 10-11-8 to 14-8-0, Exterior(2) 14-8-0 to 21-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (jt=lb) 20=165, 21=625.

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

NOTES-

12) 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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE07	Roof Special Supported Gable	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:03:53 2019 Page 1

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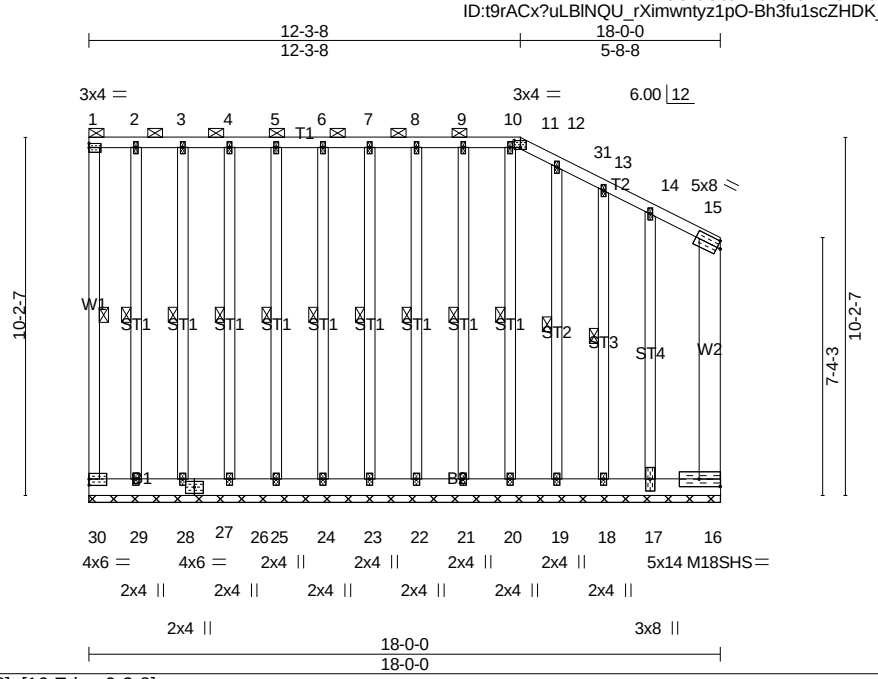


Plate Offsets (X,Y)-- [11:0-2-0,0-2-8], [16:Edge,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	n/a	-	n/a	999	M18SHS	220/195
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.00	16	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-R							Weight: 245 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x6 DF No.2 *Except*
B2: 2x6 DF 2400F 2.0E
WEBS 2x4 DF No.2 *Except*
W2: 2x8 DF SS
OTHERS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-30, 2-29, 3-28, 4-26, 5-25, 6-24, 7-23, 8-22, 9-21, 10-20, 12-19, 13-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 18-0-0.
(lb) - Max Horz 30=-352(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 28, 26, 25, 24, 23, 22, 21, 20 except 30=-187(LC 8), 16=-659(LC 11), 29=-179(LC 9), 19=-111(LC 8), 18=-233(LC 9), 17=-1360(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19 except 16=1063(LC 8), 18=392(LC 10), 17=936(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-455/316, 15-16=-579/399
BOT CHORD 29-30=-354/478, 28-29=-354/478, 27-28=-354/478, 26-27=-354/478, 25-26=-354/478, 24-25=-354/478, 23-24=-354/478, 22-23=-354/478, 21-22=-354/478, 20-21=-354/478, 19-20=-354/478, 18-19=-354/478, 17-18=-354/478, 16-17=-354/478
WEBS 14-17=-481/700

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-0-0, Exterior(2) 4-0-0 to 12-3-8, Corner(3) 12-3-8 to 16-0-0, Exterior(2) 16-0-0 to 17-8-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 26, 25, 24, 23, 22, 21, 20 except (jt=lb) 30=187, 16=659, 29=179, 19=111, 18=233, 17=1360.

Continued on page 2

Established Basic Permit #

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NOTES-

12) 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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

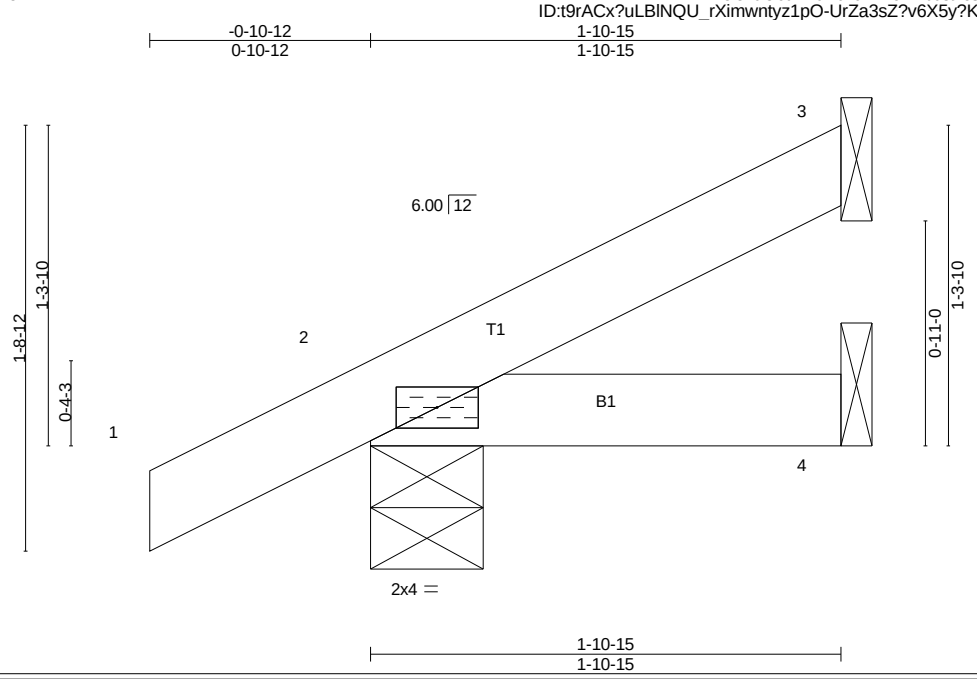
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J02	Jack-Open	6	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:51 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 7 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=51/Mechanical, 2=171/0-5-8 (min. 0-1-8), 4=15/Mechanical
Max Horz 2=50(LC 12)
Max Uplift3=-30(LC 12), 2=-37(LC 12)
Max Grav 3=51(LC 1), 2=171(LC 1), 4=33(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

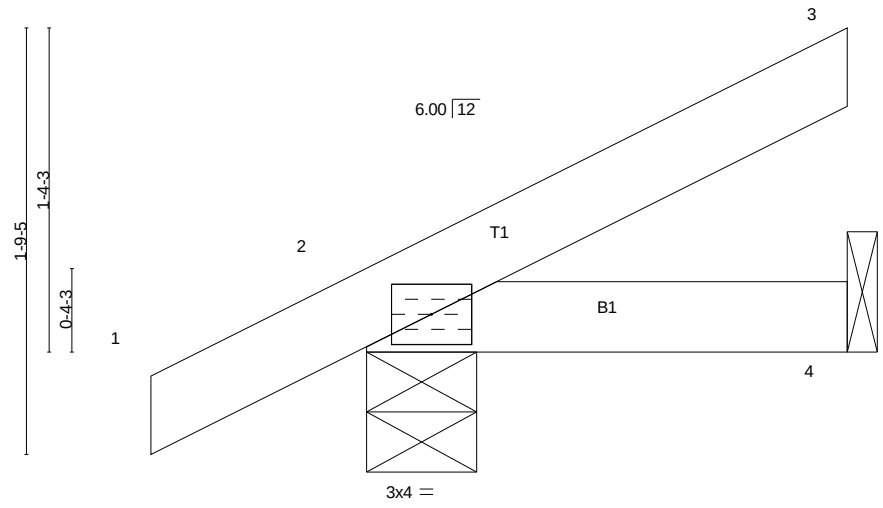
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J02A	Jack-Open	5	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:54 2019 Page 1

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-0-10-12 / 0-10-12 — 2-0-0 / 2-0-0

Scale = 1:9.6



2-0-0 / 2-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.00	2-4	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 7 lb	FT = 0%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=174/0-5-8 (min. 0-1-8), 4=71/Mechanical
Max Horz 2=51(LC 9)
Max Uplift2=-40(LC 9), 4=-19(LC 9)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

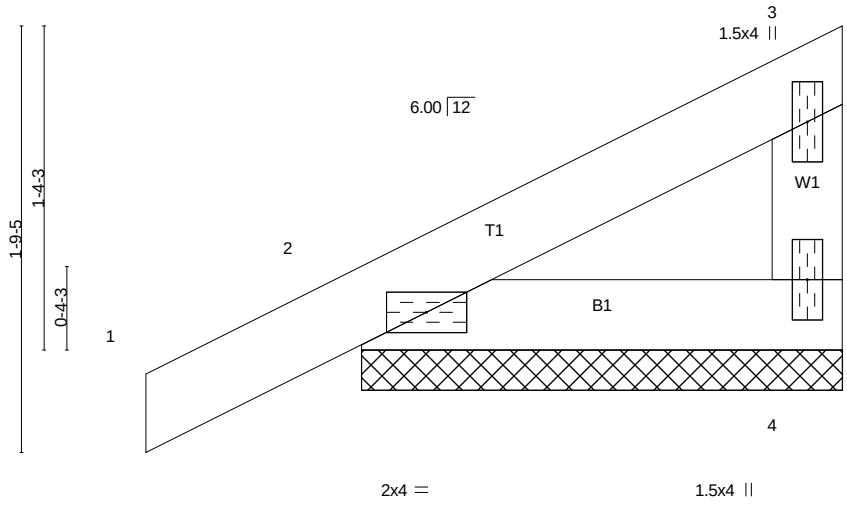
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J02B	Monopitch Supported Gable	2	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:57 2019 Page 1

ID:t9rACx?uLBlNQU_rXimwntyz1pO-J?wrJwdlUyHEgwoVhzVl52EvYUPFaZc2mcwAjgyz1Z4

-0-10-12 / 0-10-12 — 2-0-0 / 2-0-0

Scale = 1:9.6



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	1	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 8 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=67/2-0-0 (min. 0-1-8), 2=166/2-0-0 (min. 0-1-8)
Max Horz 2=44(LC 9)
Max Uplift4=-16(LC 12), 2=-41(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

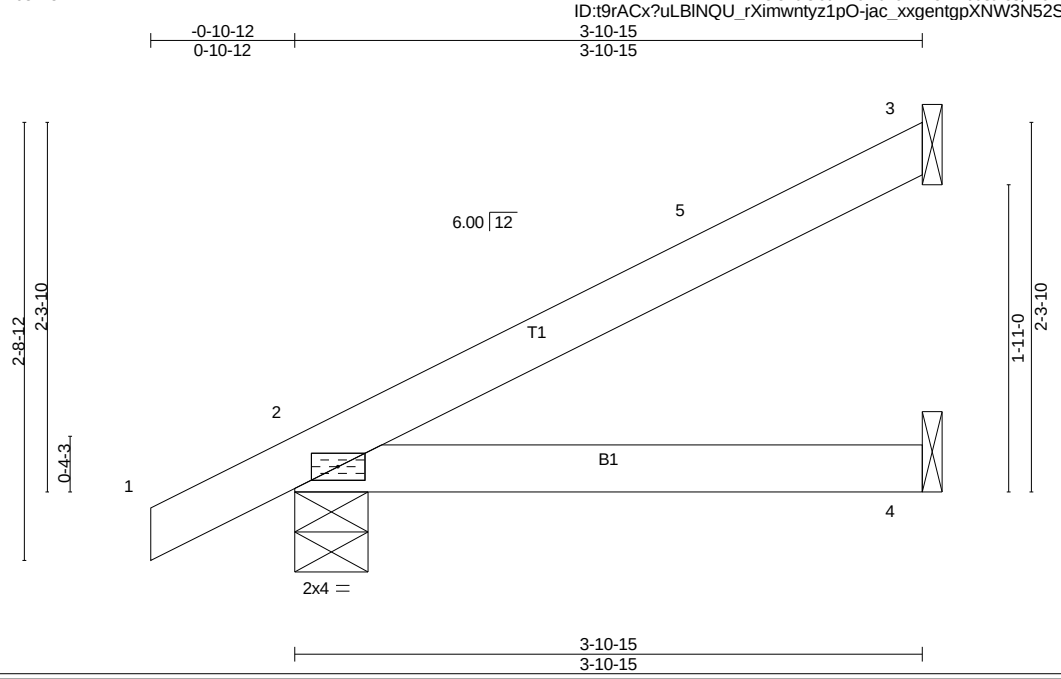
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J04	Jack-Open	6	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	2-4	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 13 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=121/Mechanical, 2=259/0-5-8 (min. 0-1-8), 4=29/Mechanical
Max Horz 2=86(LC 12)
Max Uplift3=-67(LC 12), 2=-46(LC 12)
Max Grav 3=121(LC 1), 2=259(LC 1), 4=65(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

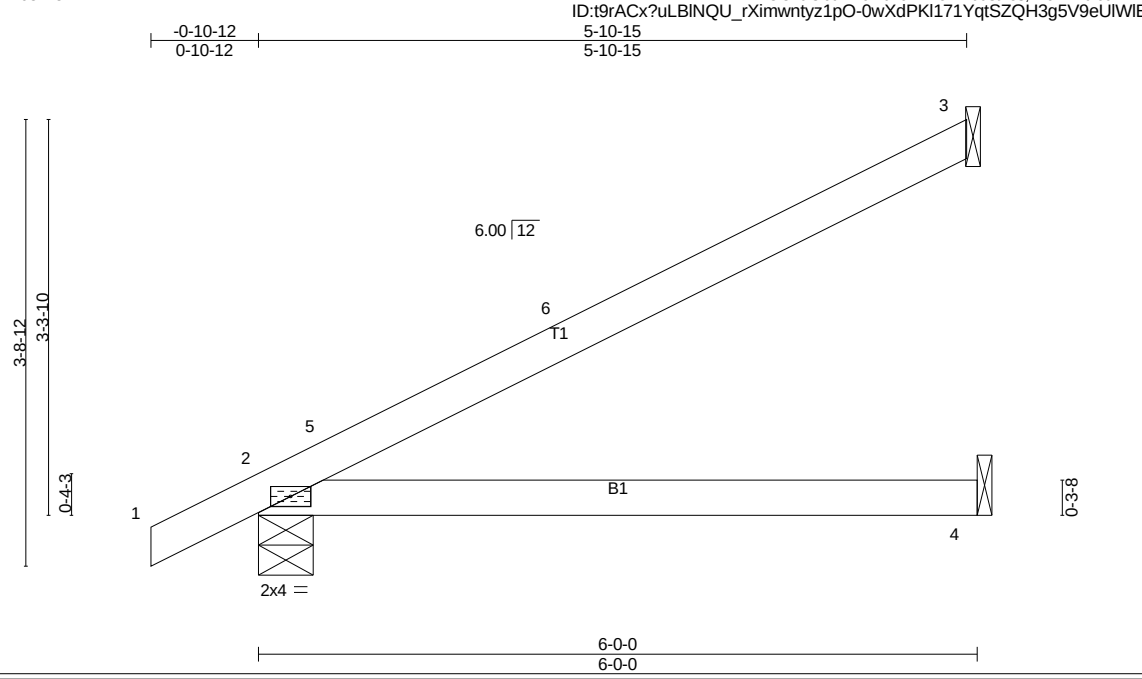
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J06	Jack-Open	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:07 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.06	2-4	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-4	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 19 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=200/Mechanical, 2=345/0-5-8 (min. 0-1-8), 4=46/Mechanical
Max Horz 2=124(LC 12)
Max Uplift3=-107(LC 12), 2=-54(LC 12)
Max Grav 3=200(LC 1), 2=345(LC 1), 4=103(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 5-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=107.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

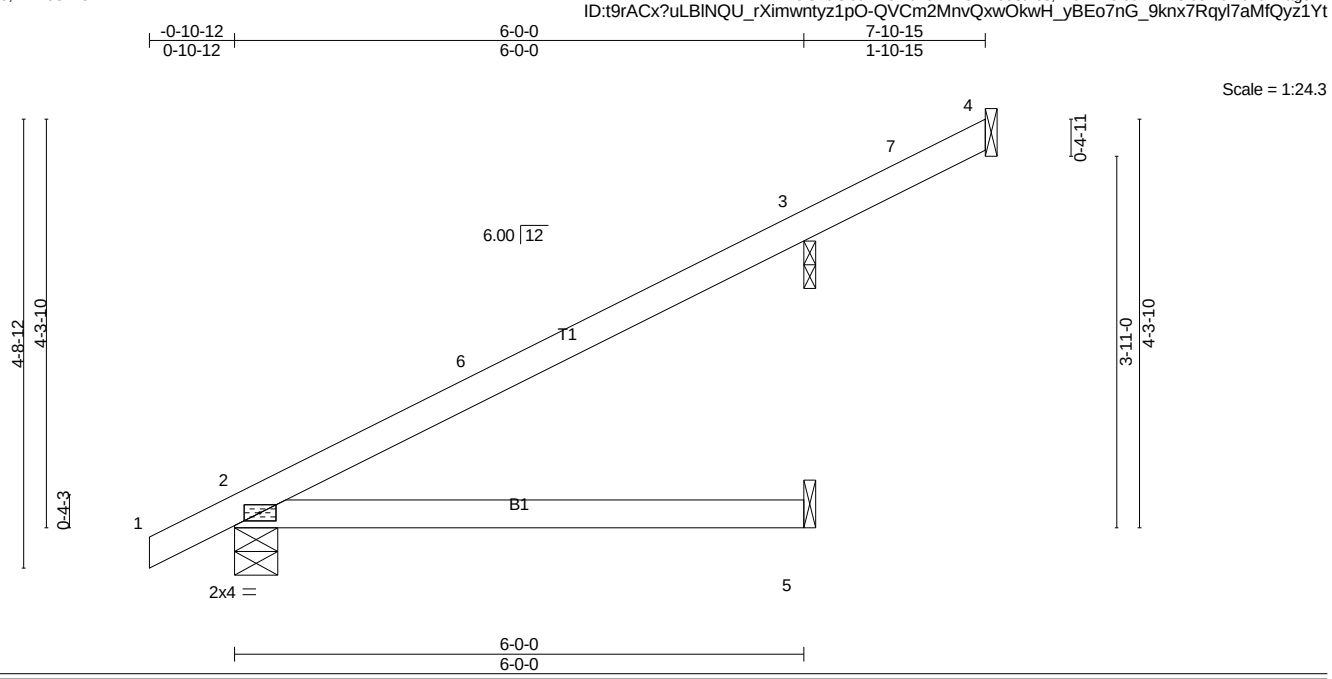
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J06A	Jack-Open	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:10 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.06	2-5	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-5	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 22 lb	FT = 0%

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

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-1-8.
(lb) - Max Horz 2=157(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 4, 2 except 3=-145(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=353(LC 1), 3=274(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 7-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2 except (jt=lb) 3=145.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

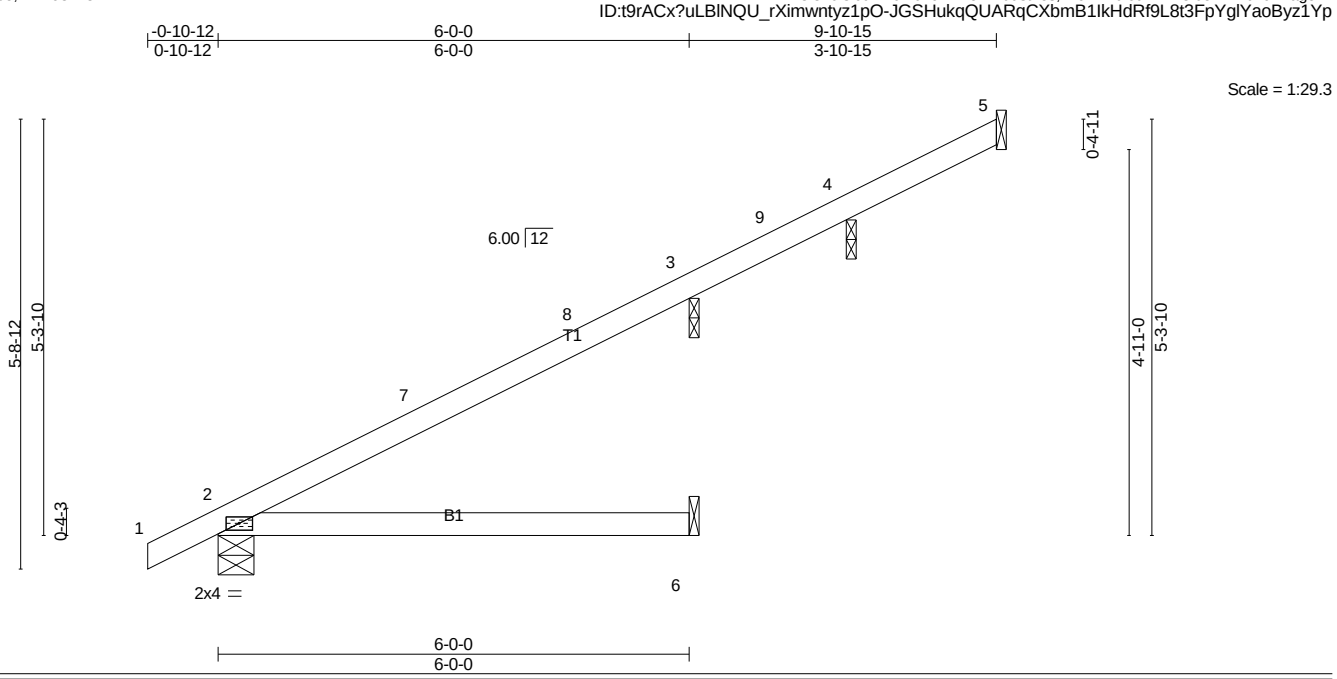
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J06B	Jack-Open	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:14 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.06	2-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-6	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 25 lb	FT = 0%

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

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-1-8, 4=0-1-8.
(lb) - Max Horz 2=183(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 3=-149(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 4 except 2=353(LC 1), 3=282(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 9-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 3=149.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

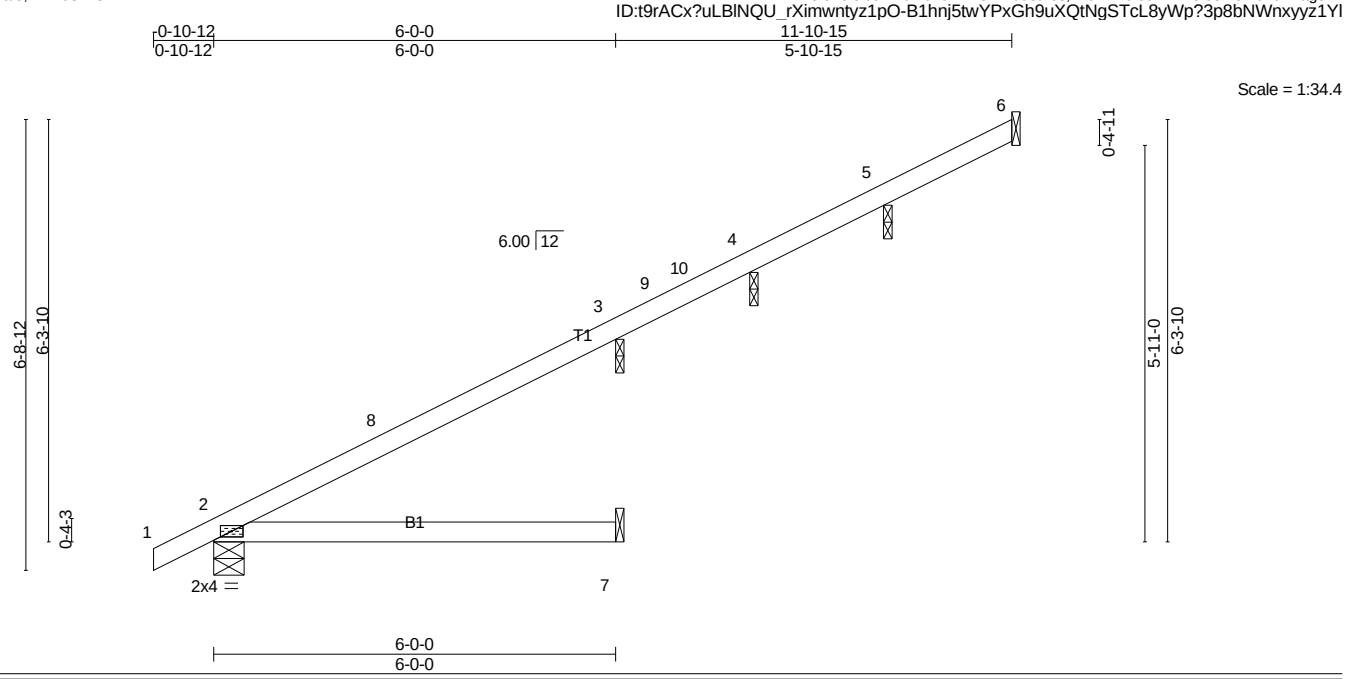
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J06C	Jack-Open	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:18 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.06	2-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-7	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 28 lb	FT = 0%

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

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-1-8 except (jt=length) 6=Mechanical, 2=0-5-8, 7=Mechanical.
(lb) - Max Horz 2=209(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 4, 5 except 3=-149(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 7, 4, 5 except 2=353(LC 1), 3=282(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 11-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 4, 5 except (jt=lb) 3=149.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

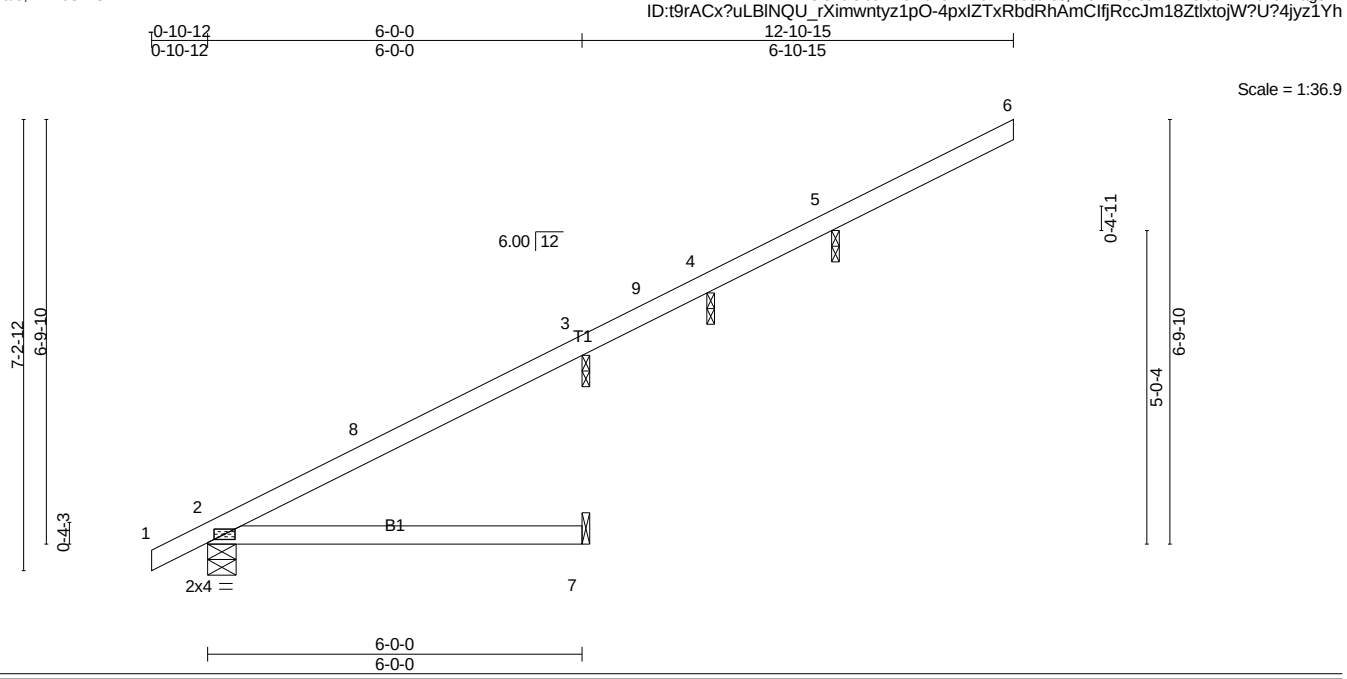
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J06D	Jack-Open	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:22 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.06	2-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-7	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 29 lb	FT = 0%

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

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-1-8 except (jt=length) 2=0-5-8, 7=Mechanical.
(lb) - Max Horz 2=215(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 3=-149(LC 12), 5=-194(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 7, 4 except 2=353(LC 1), 3=282(LC 1), 5=435(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 12-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4, 5.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=149, 5=194.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4, 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T01	Common	4	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:25 2019 Page 1

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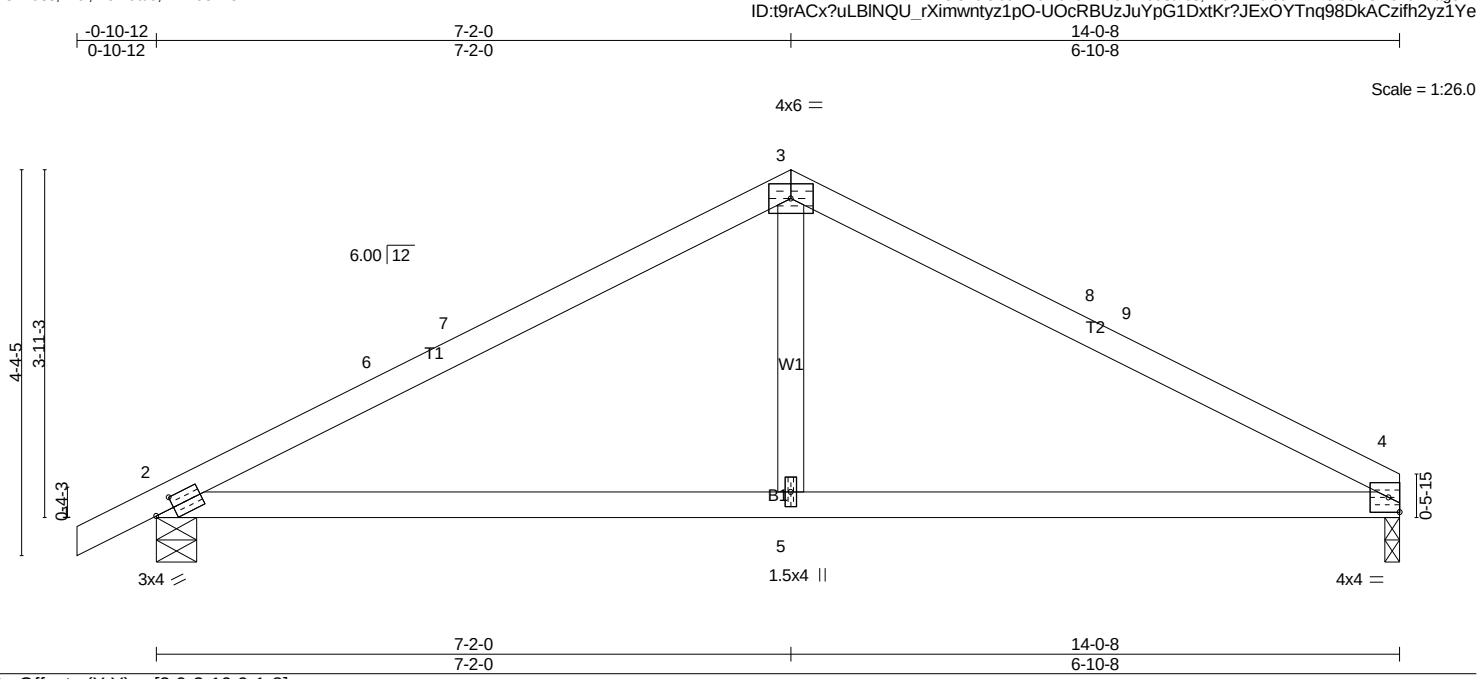


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.09	4-5	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.13	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	4	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 47 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=614/0-2-0 (min. 0-1-8), 2=704/0-5-8 (min. 0-1-8)
Max Horz 2=72(LC 12)
Max Uplift4=-96(LC 13), 2=-126(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-884/162, 6-7=-769/165, 3-7=-764/179, 3-8=-759/193, 8-9=-768/179, 4-9=-885/179
BOT CHORD 2-5=-83/678, 4-5=-83/678
WEBS 3-5=0/295

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 7-2-0, Exterior(2) 7-2-0 to 10-9-3, Interior(1) 10-9-3 to 13-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=126.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T01A	Common	3	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:28 2019 Page 1

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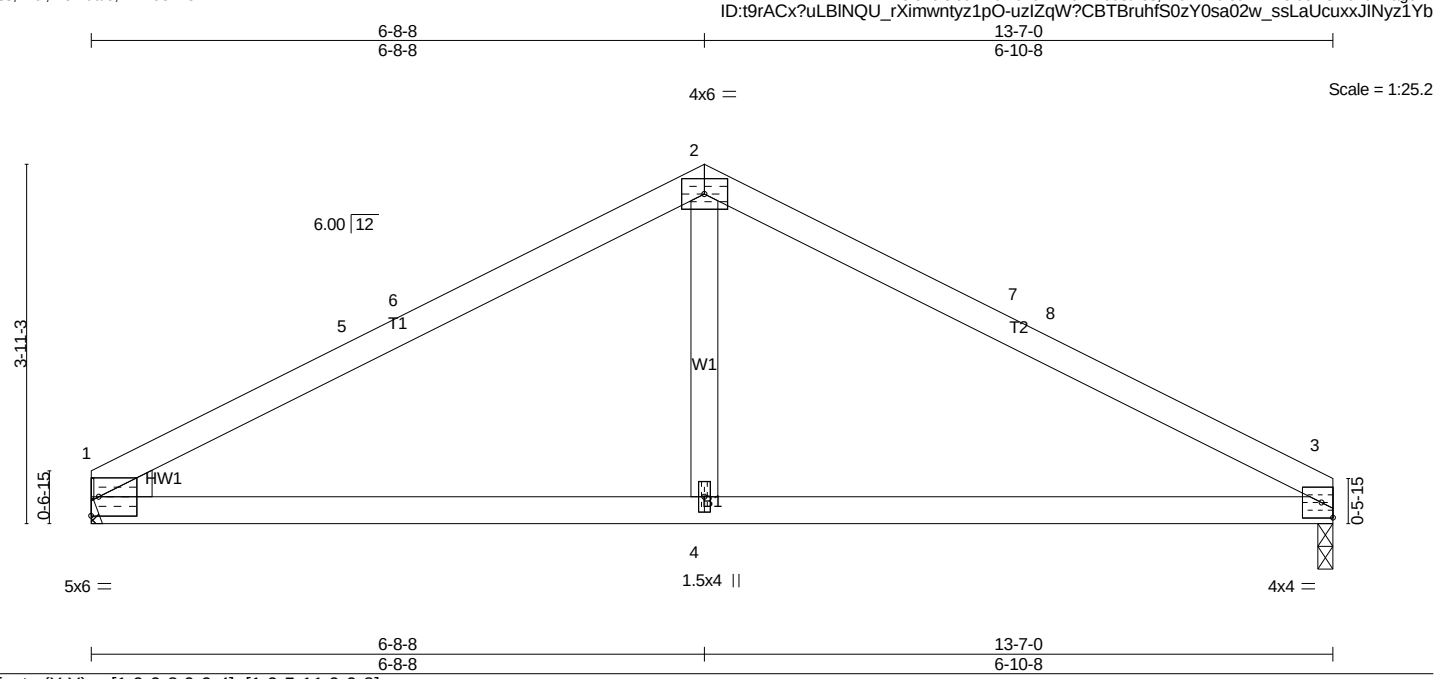


Plate Offsets (X,Y)-- [1:0-0-8,0-0-4], [1:0-5-11,0-0-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.09	3-4	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.13	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	3	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 45 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2
WEDGE
Left: 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=605/0-2-0 (min. 0-1-8), 1=605/Mechanical
Max Horz 1=-58(LC 13)
Max Uplift3=-96(LC 13), 1=-94(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-865/180, 5-6=-749/180, 2-6=-738/194, 2-7=-737/193, 7-8=-746/179, 3-8=-863/179
BOT CHORD 1-4=-83/658, 3-4=-83/658
WEBS 2-4=0/290

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-12 to 3-7-15, Interior(1) 3-7-15 to 6-8-8, Exterior(2) 6-8-8 to 10-3-11, Interior(1) 10-3-11 to 13-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 1.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

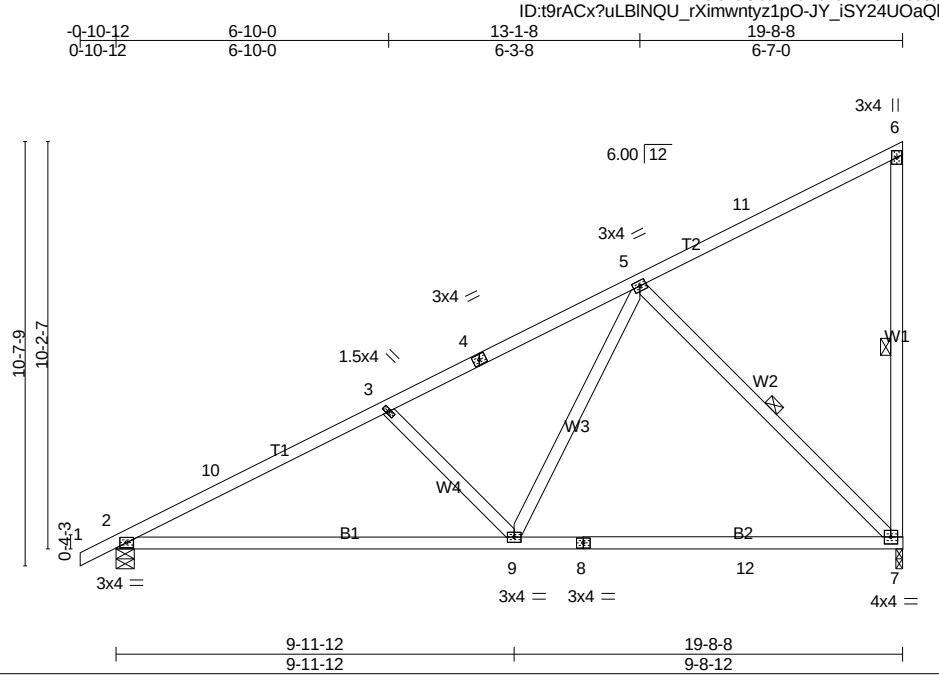
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T02	Monopitch	6	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:31 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.30	7-9	>763	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.44	7-9	>525	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 99 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=381(LC 9)
Max Uplift7=-234(LC 12), 2=-167(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1405/214, 3-10=-1308/229, 3-4=-1054/182, 4-5=-871/204
BOT CHORD 2-9=-366/1159, 8-9=-250/603, 8-12=-250/603, 7-12=-250/603
WEBS 3-9=-448/230, 5-9=-84/592, 5-7=-849/293

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=234, 2=167.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

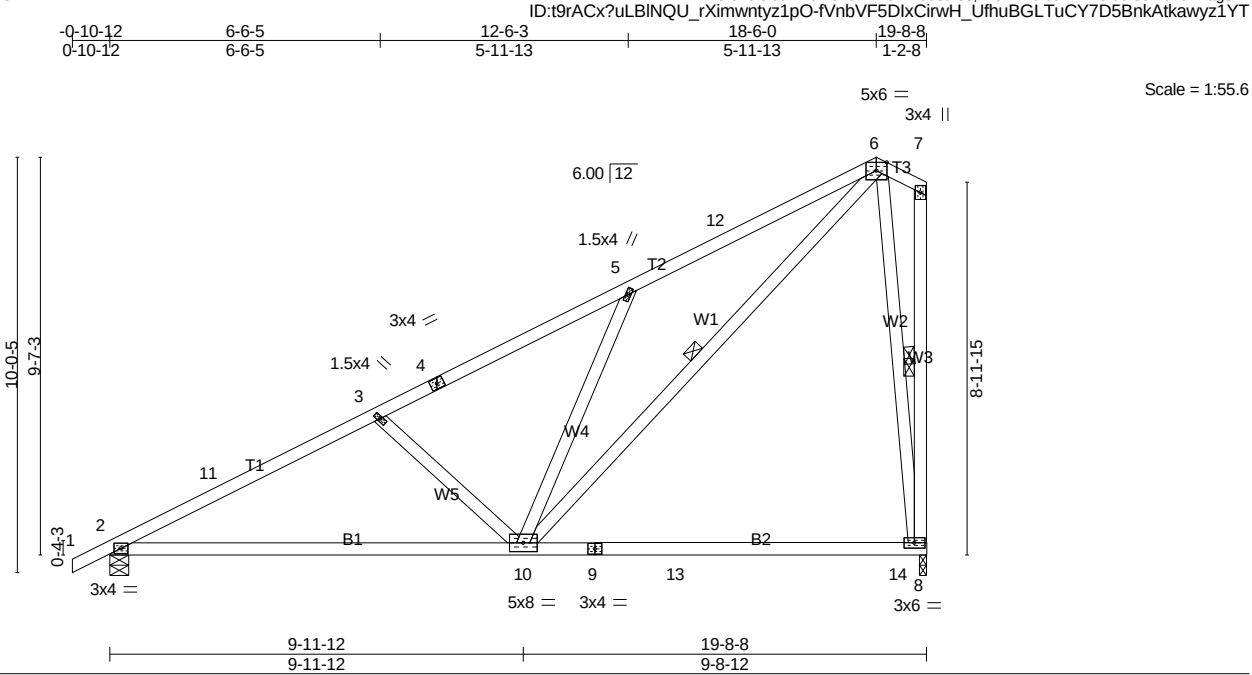
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T03	Common	5	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:36 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.37	8-10	>625	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.52	8-10	>444	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	8	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 114 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-10, 7-8, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=956/0-5-8 (min. 0-1-8), 8=868/0-2-0 (min. 0-1-8)
Max Horz 2=347(LC 11)
Max Uplift2=-172(LC 12), 8=-211(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1423/226, 3-11=-1333/240, 3-4=-1056/179, 4-5=-950/200, 5-12=-1333/449, 6-12=-1226/462
BOT CHORD 2-10=-377/1180
WEBS 3-10=-450/227, 5-10=-634/335, 6-10=-501/1465, 6-8=-848/442

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 18-6-0, Exterior(2) 18-6-0 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 8=211.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

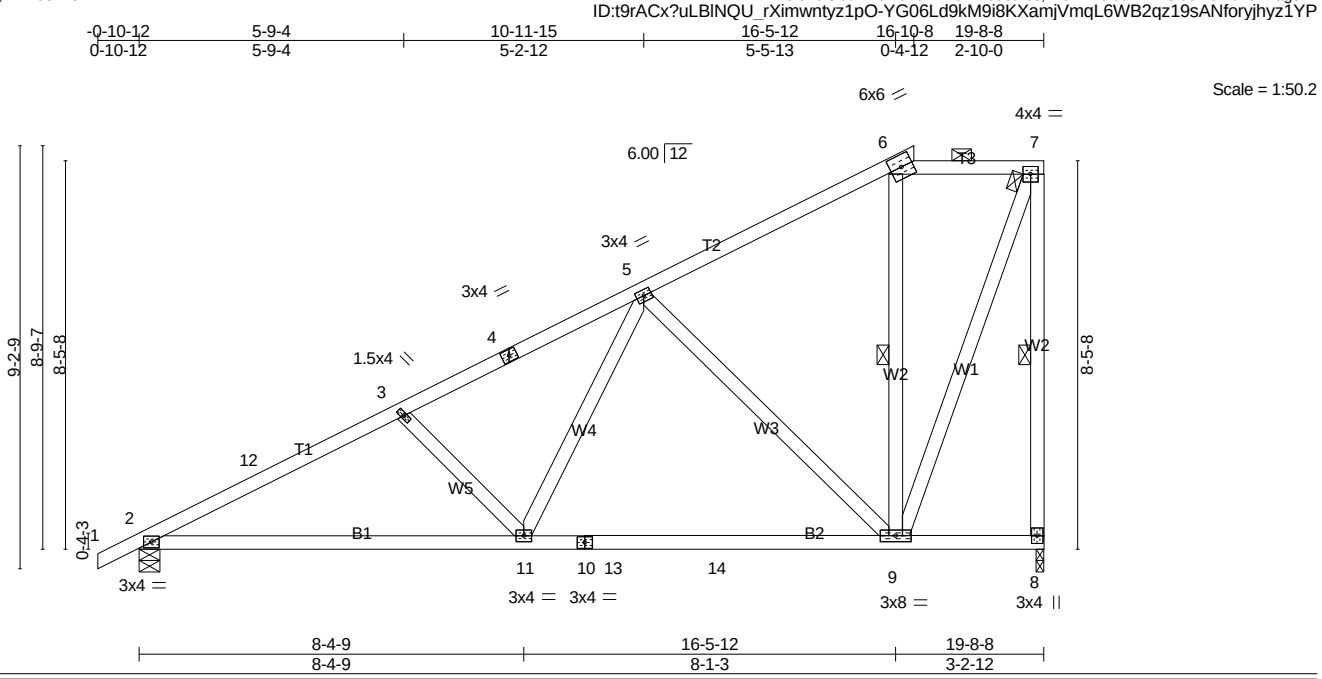
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T03A	Roof Special	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:05:40 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.09	9-11	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.16	2-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	8	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 114 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 6-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=318(LC 9)
Max Uplift8=-170(LC 12), 2=-177(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-1465/241, 3-12=-1380/253, 3-4=-1176/202, 4-5=-1017/220, 5-6=-423/160, 6-7=-293/168, 7-8=-857/252
BOT CHORD 2-11=-416/1222, 10-11=-315/776, 10-13=-315/776, 13-14=-315/776, 9-14=-315/776
WEBS 3-11=-363/187, 5-11=-62/460, 5-9=-689/247, 7-9=-248/805

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 16-3-3, Exterior(2) 16-3-3 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=170, 2=177.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

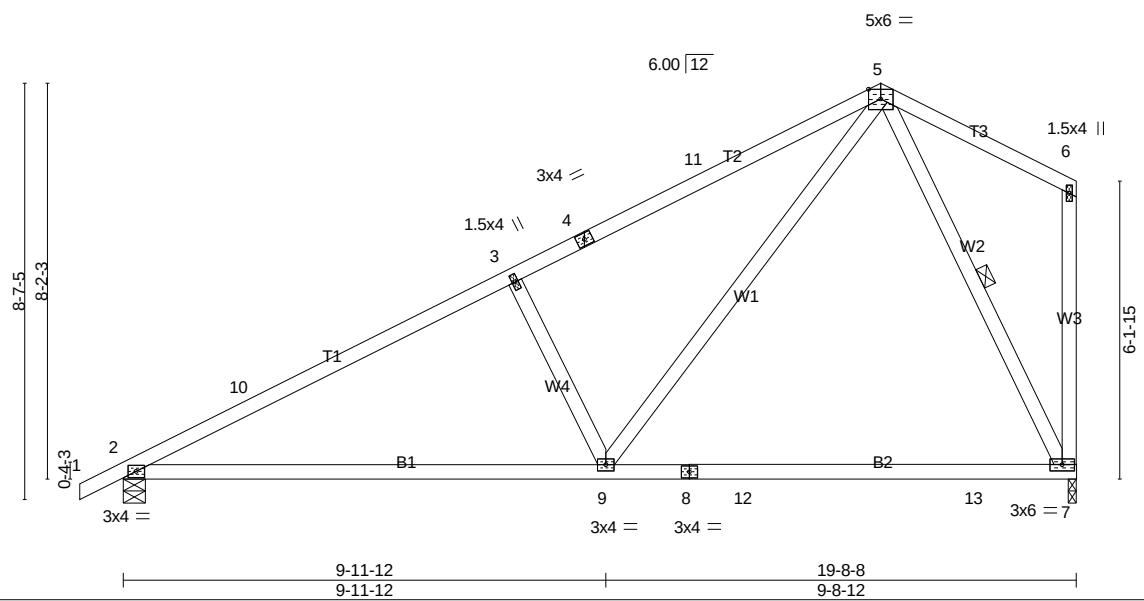
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T03B	Common	3	1	Job Reference (optional)

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-0-10-12 / 0-10-12 — 8-1-4 / 8-1-4 — 15-8-0 / 7-6-12 — 19-8-8 / 4-0-8

Scale: 1/4"=1'



9-11-12 / 9-11-12 — 19-8-8 / 9-8-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.36	7-9	>638	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.50	7-9	>468	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 96 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=956/0-5-8 (min. 0-1-8), 7=868/0-2-0 (min. 0-1-8)
Max Horz 2=256(LC 11)
Max Uplift2=-179(LC 12), 7=-158(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1365/214, 3-10=-1252/234, 3-4=-1113/245, 4-11=-980/257, 5-11=-967/271
BOT CHORD 2-9=-338/1111, 8-9=-166/350, 8-12=-166/350, 12-13=-166/350, 7-13=-166/350
WEBS 3-9=-574/293, 5-9=-213/885, 5-7=-766/258

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 15-8-0, Exterior(2) 15-8-0 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 7=158.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

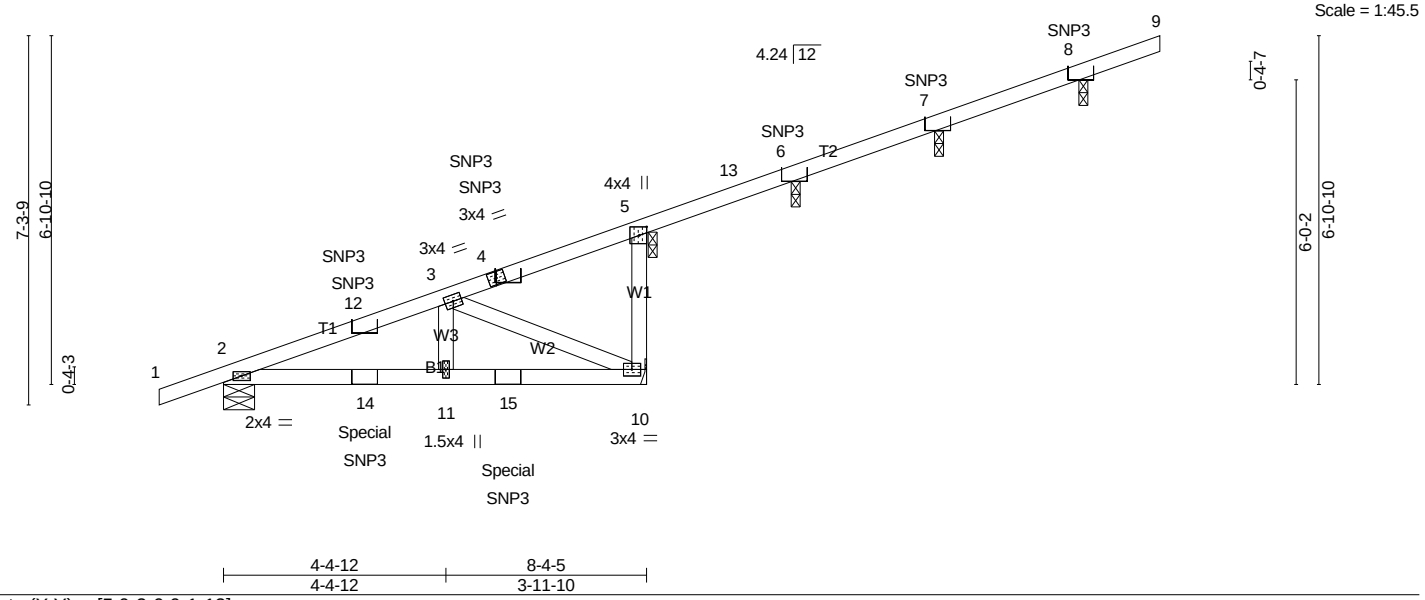
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	CJ03	Diagonal Hip Girder	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:03:26 2019 Page 1

ID:t9rACx?uLBlNQU_rXimwntyz1pO-TUwSDoXgw_q9FxL?sLMPvrzJspJWlNgfryNs0Syz1aV

-1-3-3	4-4-12	8-4-5	8-6-12	11-4-11	14-2-10	17-0-13	18-5-15
1-3-3	4-4-12	3-11-10	0-2-7	2-9-15	2-9-15	2-10-3	1-5-2

Scale = 1:45.5



4-4-12	8-4-5
4-4-12	3-11-10

Plate Offsets (X,Y)-- [5:0-2-0,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	11	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.01	10	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 51 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-2-2 except (jt=length) 10=Mechanical, 2=0-7-6.
(lb) - Max Horz 2=212(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 5, 10, 6, 7, 8 except 2=-118(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 7, 8 except 10=254(LC 1), 2=500(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-630/44, 3-12=-530/41
BOT CHORD 2-14=-173/537, 11-14=-173/537, 11-15=-173/537, 10-15=-173/537
WEBS 3-10=-582/202

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 6, 7, 8.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 10, 6, 7, 8 except (jt=lb) 2=118.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6, 7, 8.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
10) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) J02 (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
11) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J04 (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
12) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 11-3-5 from the left end to connect truss(es) J06A (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
13) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 14-1-4 from the left end to connect truss(es) J06B (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
14) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 16-11-3 from the left end to connect truss(es) J06C (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.

Continued on page 2

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NOTES-

15) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) J02 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping -26.6 deg. down.
16) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent spaced at 2-9-15 oc max. starting at 2-9-8 from the left end to 5-7-7 to connect truss(es) J02 (1 ply 2x4 DF), J04 (1 ply 2x4 DF) to back face of bottom chord.
17) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J04 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping -26.6 deg. down.
18) Fill all nail holes where hanger is in contact with lumber.
19) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
20) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-74, 5-9=-74, 2-10=-16
   Concentrated Loads (lb)
      Vert: 4=-33(F=-16, B=-16) 15=-13(F=-6, B=-6)

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)

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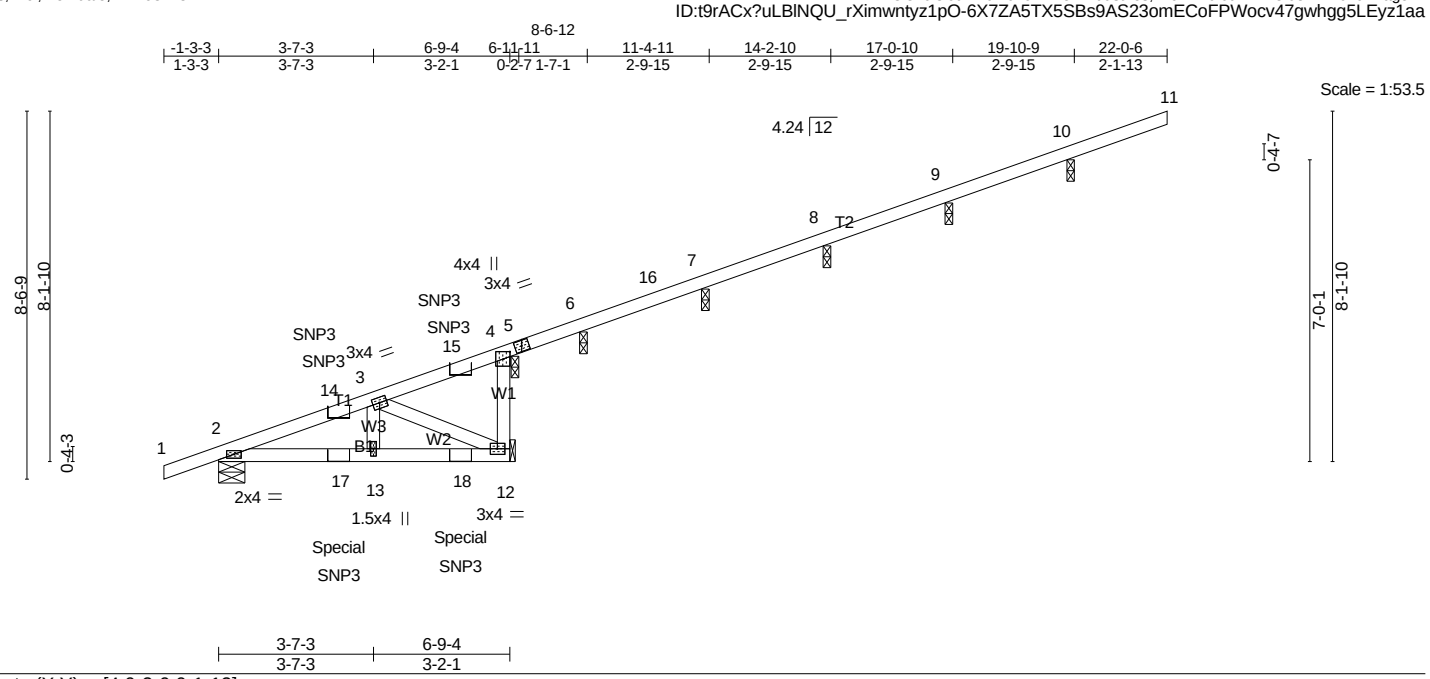


Plate Offsets (X,Y)-- [4:0-2-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.01	13	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 51 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-2-2 except (jt=length) 12=Mechanical, 2=0-7-6.
(lb) - Max Horz 2=231(LC 20)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 6, 7, 8, 9 except 4=-101(LC 5), 10=-106(LC 5)
Max Grav All reactions 250 lb or less at joint(s) 4, 12, 6, 7, 8, 9 except 2=423(LC 1), 10=336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-461/0, 3-14=-379/0
BOT CHORD 2-17=-112/382, 13-17=-112/382, 13-18=-112/382, 12-18=-112/382
WEBS 3-12=-417/140

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 6, 7, 8, 9, 10.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 6, 7, 8, 9 except (jt=lb) 4=101, 10=106.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 6, 7, 8, 9, 10.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
10) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) J02 (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
11) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J04 (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
12) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) J02 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping -26.6 deg. down.
13) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent spaced at 2-9-15 oc max. starting at 2-9-8 from the left end to 5-7-7 to connect truss(es) J02 (1 ply 2x4 DF), J04 (1 ply 2x4 DF) to back face of bottom chord.
14) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J04 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping -26.6 deg. down.

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NOTES-

15) Fill all nail holes where hanger is in contact with lumber.
16) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
17) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-74, 4-11=-74, 2-12=-16
   Concentrated Loads (lb)
      Vert: 15=-33(F=-16, B=-16) 18=-19(F=-10, B=-10)

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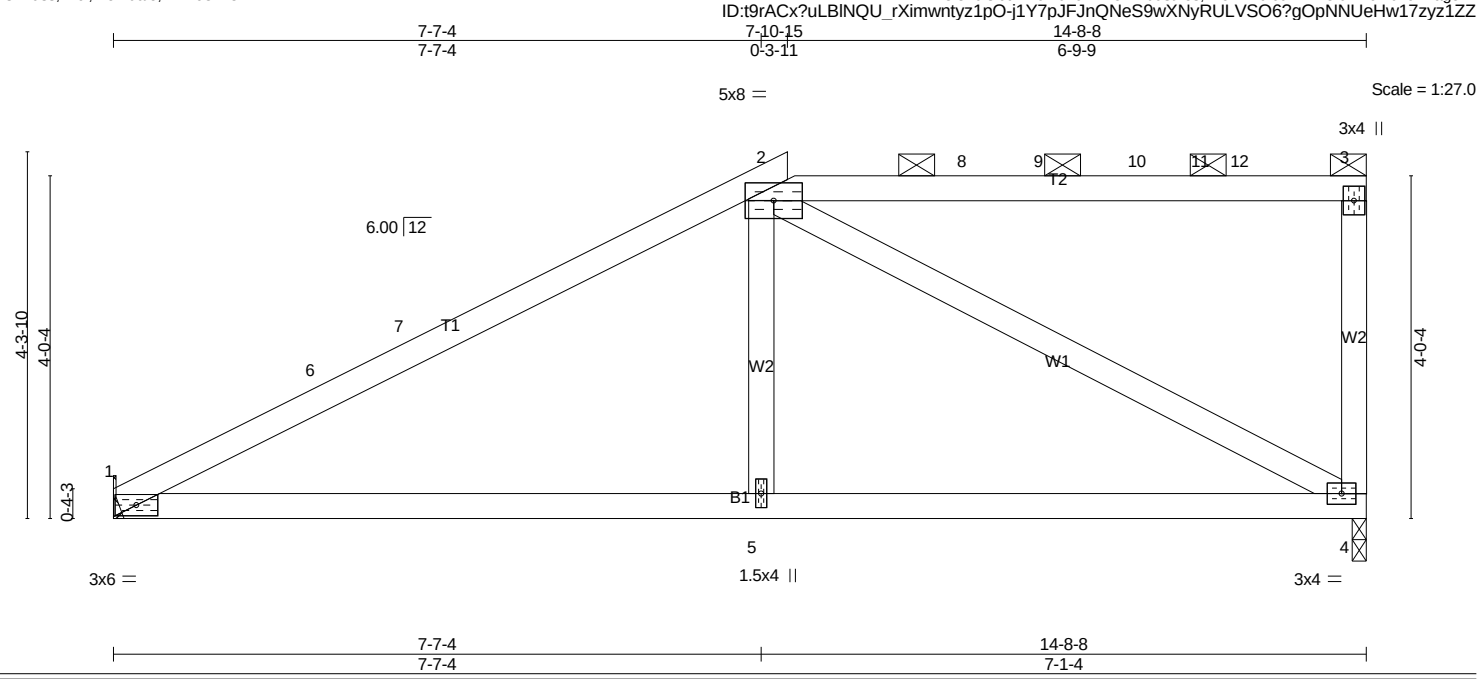
19-03671

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Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H02A	Roof Special	1	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.13	1-5	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	1-5	>834	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.01	4	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 61 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=655/Mechanical, 4=632/0-2-0 (min. 0-1-8)
Max Horz 1=140(LC 11)
Max Uplift 1=-126(LC 12), 4=-153(LC 9)
Max Grav 1=661(LC 23), 4=632(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-932/170, 6-7=-811/174, 2-7=-803/189
BOT CHORD 1-5=-260/716, 4-5=-262/710
WEBS 2-5=0/310, 2-4=-784/246

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-12 to 3-7-15, Interior(1) 3-7-15 to 7-8-9, Exterior(2) 7-8-9 to 12-9-11, Interior(1) 12-9-11 to 14-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=126, 4=153.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 132 lb up at 7-8-10, 114 lb down and 88 lb up at 10-0-12, and 120 lb down and 93 lb up at 12-0-12, and 125 lb down and 150 lb up at 13-3-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-74, 2-3=-74, 1-4=-16
Concentrated Loads (lb)
Vert: 2=-10 12=28

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Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H02B	Roof Special	1	1	Job Reference (optional)

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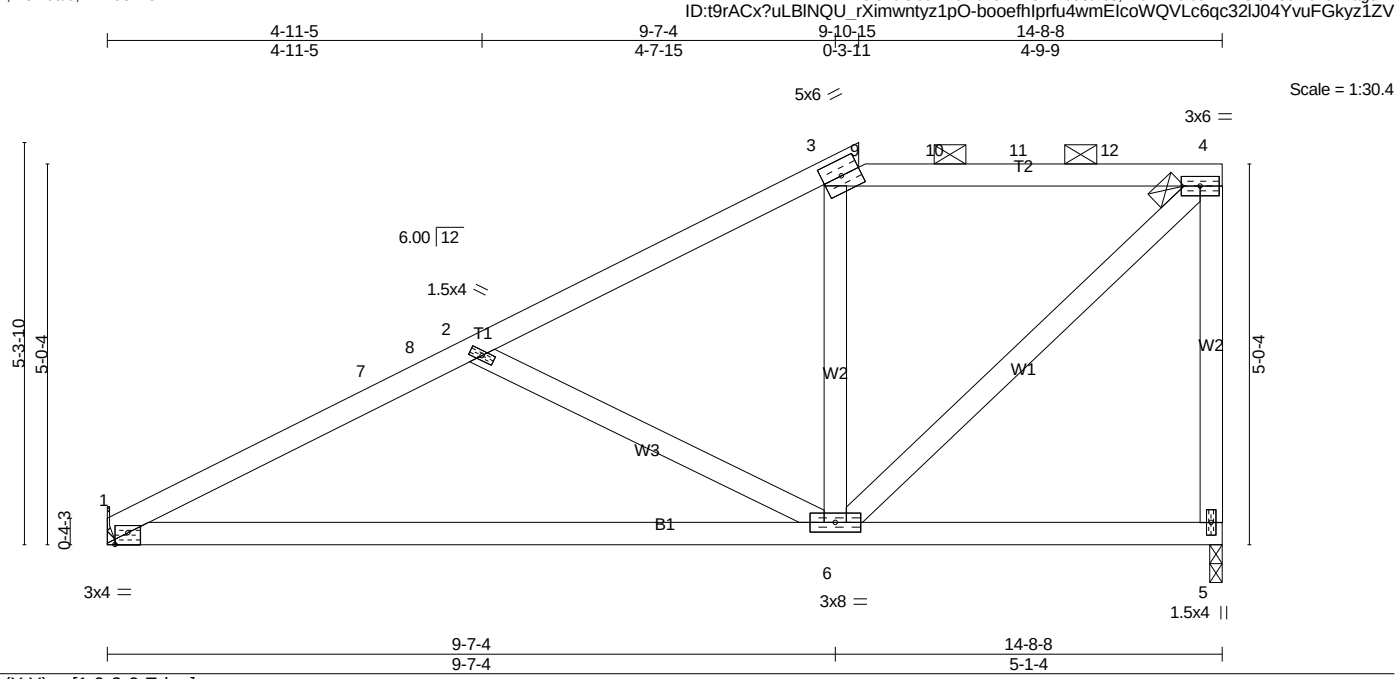


Plate Offsets (X,Y)-- [1:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.16	1-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.30	1-6	>572	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 70 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=678/Mechanical, 5=914/0-2-0 (min. 0-1-8)
Max Horz 1=180(LC 11)
Max Uplift1=-130(LC 12), 5=-263(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-1087/256, 7-8=-960/263, 2-8=-960/264, 2-3=-692/183, 3-9=-541/186, 9-10=-541/186, 10-11=-542/186, 11-12=-542/186, 4-12=-542/186, 4-5=-893/333
BOT CHORD 1-6=-406/927
WEBS 2-6=-424/218, 4-6=-225/705

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-12 to 3-7-15, Interior(1) 3-7-15 to 9-4-11, Exterior(2) 9-4-11 to 14-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=130, 5=263.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 110 lb up at 9-11-10, and 34 lb down and 84 lb up at 12-0-12, and 287 lb down and 246 lb up at 13-3-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-74, 3-4=-74, 1-5=-16
Concentrated Loads (lb)
Vert: 12=-287

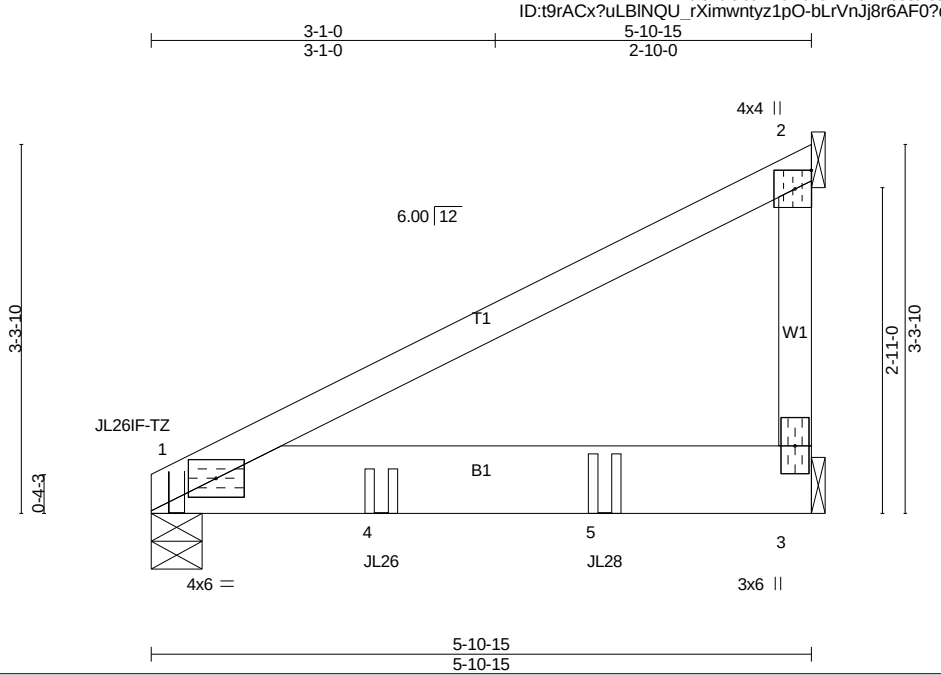
Established Basic Permit #
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Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	J05	Jack-Open Girder	1	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.05	1-3	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.07	1-3	>956	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 29 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x8 DF SS
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1422/0-5-8 (min. 0-1-8), 2=205/Mechanical, 3=647/Mechanical
Max Horz 1=103(LC 8)
Max Uplift1=-228(LC 8), 2=-106(LC 8), 3=-80(LC 4)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 1=228, 2=106.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
8) Use USP JL26IF-TZ (With 6-10d HDG nails into Girder & 4-10d x 1-1/2 HDG nails into Truss) or equivalent at 0-2-12 from the left end to connect truss(es) T01A (1 ply 2x4 DF) to back face of bottom chord.
9) Use USP JL26 (With 6-10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) T01A (1 ply 2x4 DF) to back face of bottom chord.
10) Use USP JL28 (With 10-10d nails into Girder & 6-10d x 1-1/2 nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) T01A (1 ply 2x4 DF) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-74, 1-3=-16
Concentrated Loads (lb)
Vert: 1=-598(B) 4=-589(B) 5=-589(B)

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Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)

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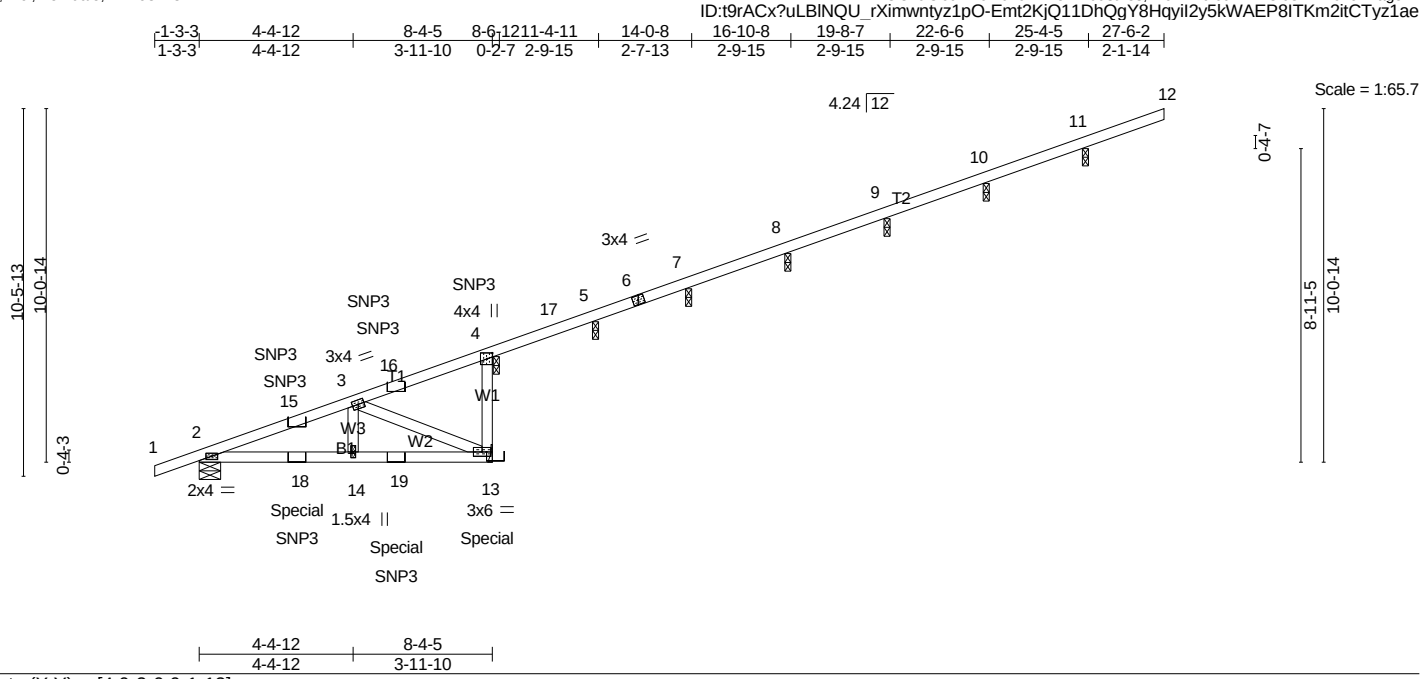


Plate Offsets (X,Y)-- [4:0-2-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.01	14	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.01	13	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 64 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-2-2 except (jt=length) 13=Mechanical, 2=0-7-6.
(lb) - Max Horz 2=277(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8, 9, 10 except 4=-170(LC 5), 13=-150(LC 8), 11=-106(LC 5)
Max Grav All reactions 250 lb or less at joint(s) 5, 7, 8, 9, 10 except 4=336(LC 1), 13=891(LC 1), 2=499(LC 1), 11=336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-628/0, 3-15=-528/0
BOT CHORD 2-18=-172/535, 14-18=-172/535, 14-19=-172/535, 13-19=-172/535
WEBS 3-13=-580/204

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4, 5, 7, 8, 9, 10, 11.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8, 9, 10 except (jt=lb) 4=170, 13=150, 11=106.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 5, 7, 8, 9, 10, 11.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
10) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) J02 (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
11) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J04 (1 ply 2x4 DF) to front face of top chord, skewed 45.0 deg.to the left, sloping -26.6 deg. down.
12) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) J02 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping -26.6 deg. down.
13) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent spaced at 2-9-15 oc max. starting at 2-9-8 from the left end to 5-7-7 to connect truss(es) J02 (1 ply 2x4 DF), J04 (1 ply 2x4 DF) to back face of bottom chord.

Continued on page 2

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NOTES-

14) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J04 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping -26.6 deg. down.
15) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 8-5-6 from the left end to connect truss(es) J05 (1 ply 2x4 DF) to back face of top chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
16) Fill all nail holes where hanger is in contact with lumber.
17) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 637 lb down and 89 lb up at 8-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
19) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-74, 4-12=-74, 2-13=-16
   Concentrated Loads (lb)
      Vert: 4=-100(B) 13=-637(B) 16=-33(F=-16, B=-16) 19=-13(F=-6, B=-6)

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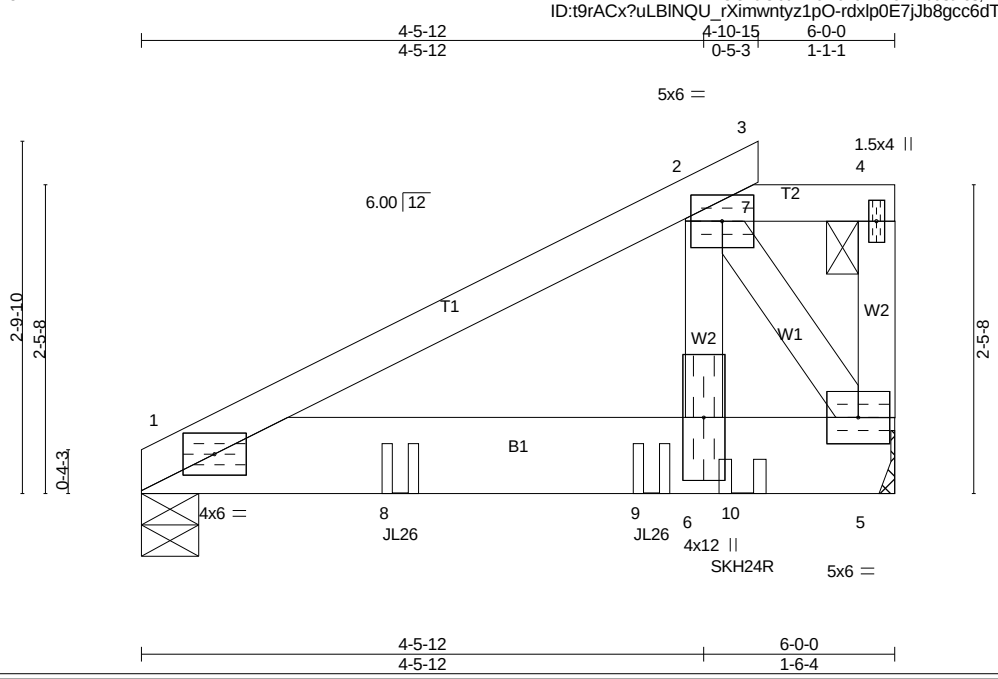
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Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	T04	Roof Special Girder	1	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.02	1-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.03	1-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-P							Weight: 34 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x8 DF SS
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=939/0-5-8 (min. 0-1-8), 5=1083/Mechanical
Max Horz 1=81(LC 5)
Max Uplift1=-200(LC 8), 5=-269(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-890/188
BOT CHORD 1-8=-187/746, 8-9=-187/746, 6-9=-187/746, 6-10=-181/713, 5-10=-181/713
WEBS 2-6=-229/1300, 2-5=-1362/323

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=200, 5=269.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use USP JL26 (With 6-10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) H02A (1 ply 2x4 DF), H02B (1 ply 2x4 DF) to front face of bottom chord.
11) Use USP SKH24R (With 4-16d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 4-9-7 from the left end to connect truss(es) CJ02 (1 ply 2x4 DF) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
12) Fill all nail holes where hanger is in contact with lumber.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 95 lb up at 4-6-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
14) 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

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-74, 2-3=-74, 2-7=-14, 4-7=-74, 1-5=-16
   Concentrated Loads (lb)
      Vert: 2=-23 8=-645(F) 9=-662(F) 10=-181(B)

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19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	GE03	GABLE	1	1	Job Reference (optional)

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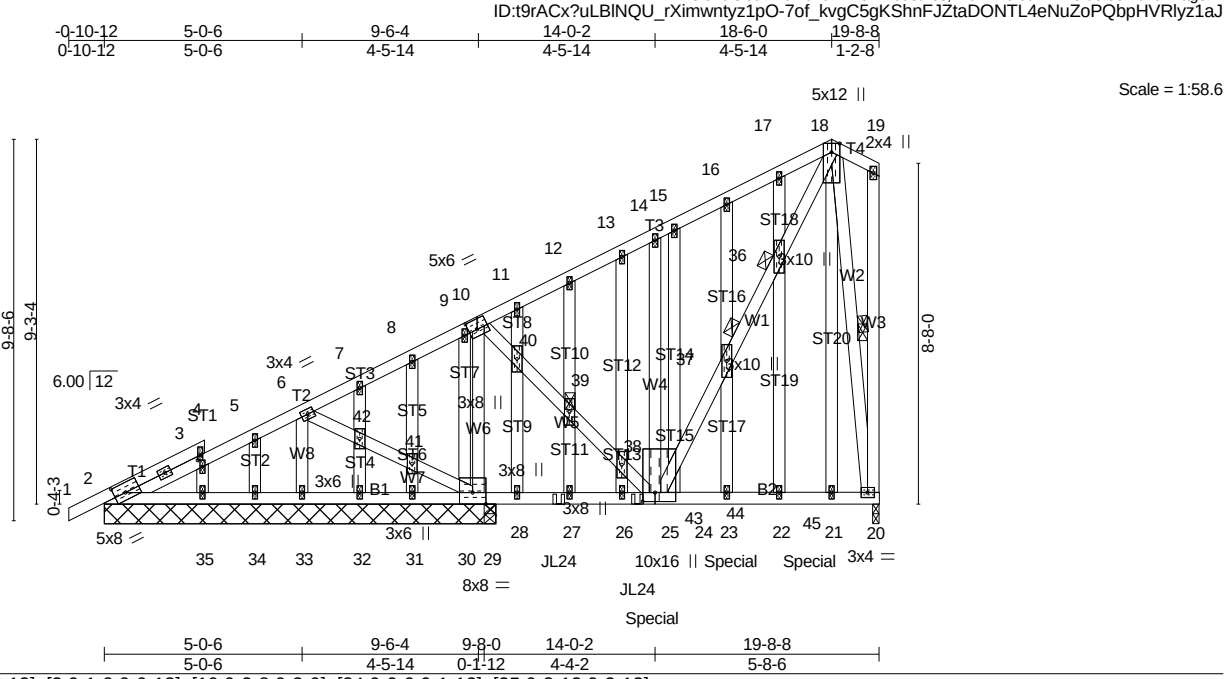


Plate Offsets (X,Y)-- [2:0-3-8,0-2-13], [3:0-1-9,0-0-12], [10:0-2-8,0-3-0], [24:0-0-0,0-1-12], [25:0-2-12,0-3-12]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.01	23	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.02	23	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	-0.00	20	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH						Weight: 207 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2
OTHERS 2x4 DF No.2

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.
WEBS 1 Row at midpt 19-20, 18-20
JOINTS 1 Brace at Jt(s): 36, 37, 39

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 9-11-8 except (jt=length) 20=0-2-0, 29=0-3-8.
(lb) - Max Horz 2=332(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 33, 30, 31, 32, 34, 35, 2 except 20=-156(LC 8), 29=-175(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 33, 31, 32, 34, 35, 2 except 30=312(LC 1), 20=539(LC 1), 29=516(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-291/77, 11-12=-304/88, 12-13=-275/93, 13-14=-251/94, 14-15=-262/120, 15-16=-290/147, 16-17=-258/163
WEBS 10-30=-359/98, 10-40=-80/378, 39-40=-100/439, 38-39=-81/386, 25-38=-77/358, 25-37=-172/336, 36-37=-157/308, 18-36=-206/410, 18-20=-503/160

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 30, 31, 32, 34, 35, 2 except (jt=lb) 20=156, 29=175.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 11-6-12 from the left end to 13-6-12 to connect truss(es) J02A (1 ply 2x4 DF) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

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NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 35 lb up at 13-11-4, and 55 lb down and 35 lb up at 15-11-4, and 55 lb down and 35 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) No notches allowed in overhang and 0-10-12 from left end and 0-0-0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.
15) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-18=-74, 2-20=-16, 18-19=-74
   Concentrated Loads (lb)
      Vert: 23=-55(B) 27=-55(B) 43=-55(B) 44=-55(B) 45=-55(B)

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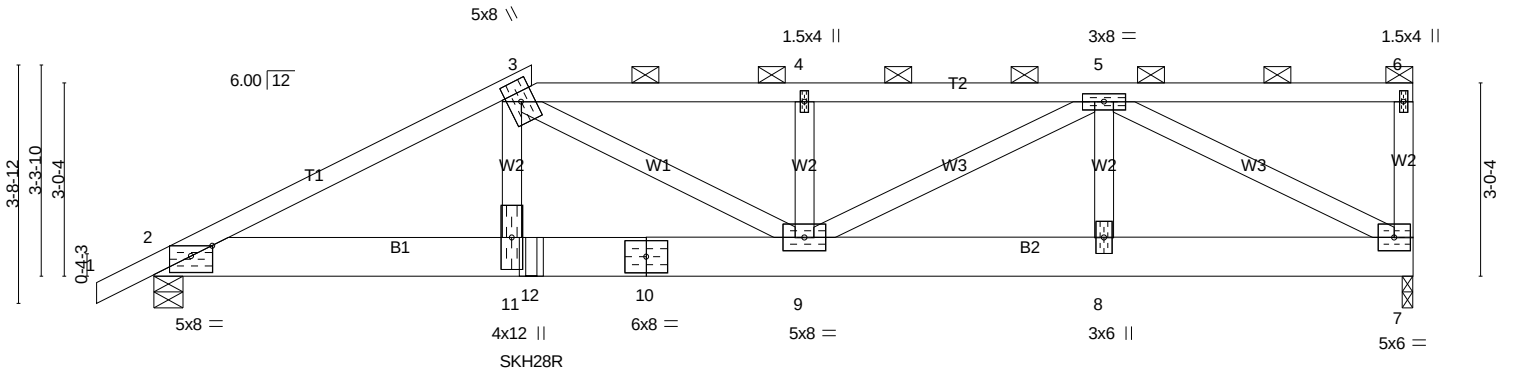
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01	Roof Special Girder	1	1	Job Reference (optional)

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0-10-12	5-7-4	5-10-15	10-2-3	14-10-8	19-8-8
0-10-12	5-7-4	0-3-11	4-3-4	4-8-4	4-10-0

Scale = 1:36.1



5-7-4	10-2-3	14-10-8	19-8-8
5-7-4	4-6-15	4-8-4	4-10-0

Plate Offsets (X,Y)-- [2:0-4-0,0-1-15]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.10	9-11	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.15	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.02	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 116 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x8 DF SS
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-10 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=1159/0-2-0 (min. 0-1-8), 2=1659/0-5-8 (min. 0-1-12)
Max Horz 2=105(LC 26)
Max Uplift7=-259(LC 5), 2=-329(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3076/651, 3-4=-2677/596, 4-5=-2669/591
BOT CHORD 2-11=-635/2661, 11-12=-630/2623, 10-12=-630/2623, 9-10=-630/2623, 8-9=-417/1768, 7-8=-417/1768
WEBS 3-11=-120/937, 3-9=-372/413, 4-9=-448/158, 5-9=-243/1028, 5-7=-1974/439

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=259, 2=329.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use USP SKH28R (With 10-16d nails into Girder & 8-10d x 1-1/2 nails into Truss) or equivalent at 5-10-15 from the left end to connect truss(es) CJ01 (1 ply 2x4 DF) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 226 lb down and 191 lb up at 5-8-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) 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

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Established Basic Permit #
19-03671

Permit Number: 20-04896

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-74, 3-6=-74, 2-7=-16
Concentrated Loads (lb)
Vert: 3=-126 12=-868(B)

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01A	Roof Special	1	1	Job Reference (optional)

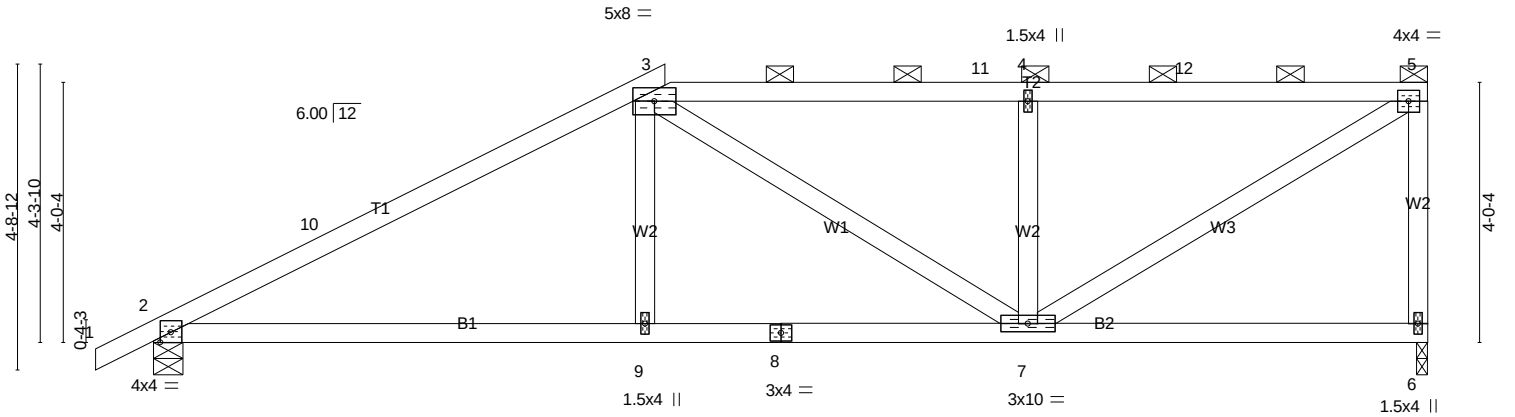
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ID:t9rACx?uLBlNQU_rXimwntyz1pO-yDXhZmydglEByJWkPCUcqEv6lw8VSBCouuMCkwyz1Zy

0-10-12 | 7-7-4 | 7-10-15 | 13-6-5 | 19-8-8

0-10-12 | 7-7-4 | 0-3-11 | 5-7-6 | 6-2-3

Scale = 1:35.6



7-7-4 | 13-6-5 | 19-8-8

7-7-4 | 5-11-1 | 6-2-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.11	2-9	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.20	2-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 89 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=869/0-2-0 (min. 0-1-8), 2=958/0-5-8 (min. 0-1-8)
Max Horz 2=147(LC 9)
Max Uplift6=-180(LC 9), 2=-156(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1372/217, 3-10=-1241/237, 3-11=-1044/249, 4-11=-1046/248, 4-12=-1039/245, 5-12=-1039/245, 5-6=-818/211
BOT CHORD 2-9=-320/1101, 8-9=-321/1096, 7-8=-321/1096
WEBS 3-9=0/267, 3-7=-303/92, 4-7=-535/202, 5-7=-255/1184

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 7-8-9, Exterior(2) 7-8-9 to 12-9-11, Interior(1) 12-9-11 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=180, 2=156.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 127 lb up at 7-8-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-74, 3-5=-74, 2-6=-16

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-3

Established Basic Permit #

19-03671

Permit Number: 20-04896

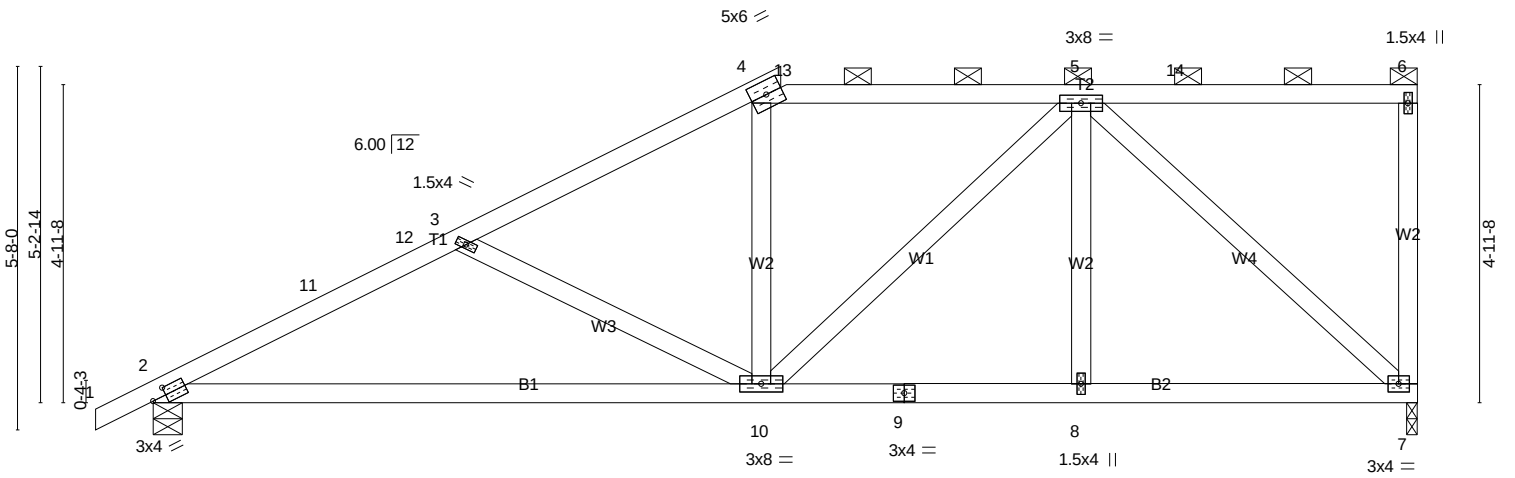
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01B	Roof Special	1	1	Job Reference (optional)

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0-10-12	4-10-9	9-5-12	9-9-7	14-5-9	19-8-8
0-10-12	4-10-9	4-7-3	0-3-11	4-8-2	5-2-15

Scale = 1:35.9



9-5-12	14-5-9	19-8-8
9-5-12	4-11-13	5-2-15

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.15	2-10	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.28	2-10	>824	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 99 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=185(LC 11)
Max Uplift7=-178(LC 9), 2=-193(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1474/298, 11-12=-1403/306, 3-12=-1349/314, 3-4=-1108/223, 4-13=-923/230, 5-13=-923/230
BOT CHORD 2-10=-450/1259, 9-10=-223/745, 8-9=-223/745, 7-8=-223/745
WEBS 3-10=-384/189, 5-7=-990/239

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 9-3-3, Exterior(2) 9-3-3 to 14-5-9, Interior(1) 14-5-9 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=178, 2=193.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 115 lb up at 9-10-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-74, 4-6=-74, 2-7=-16

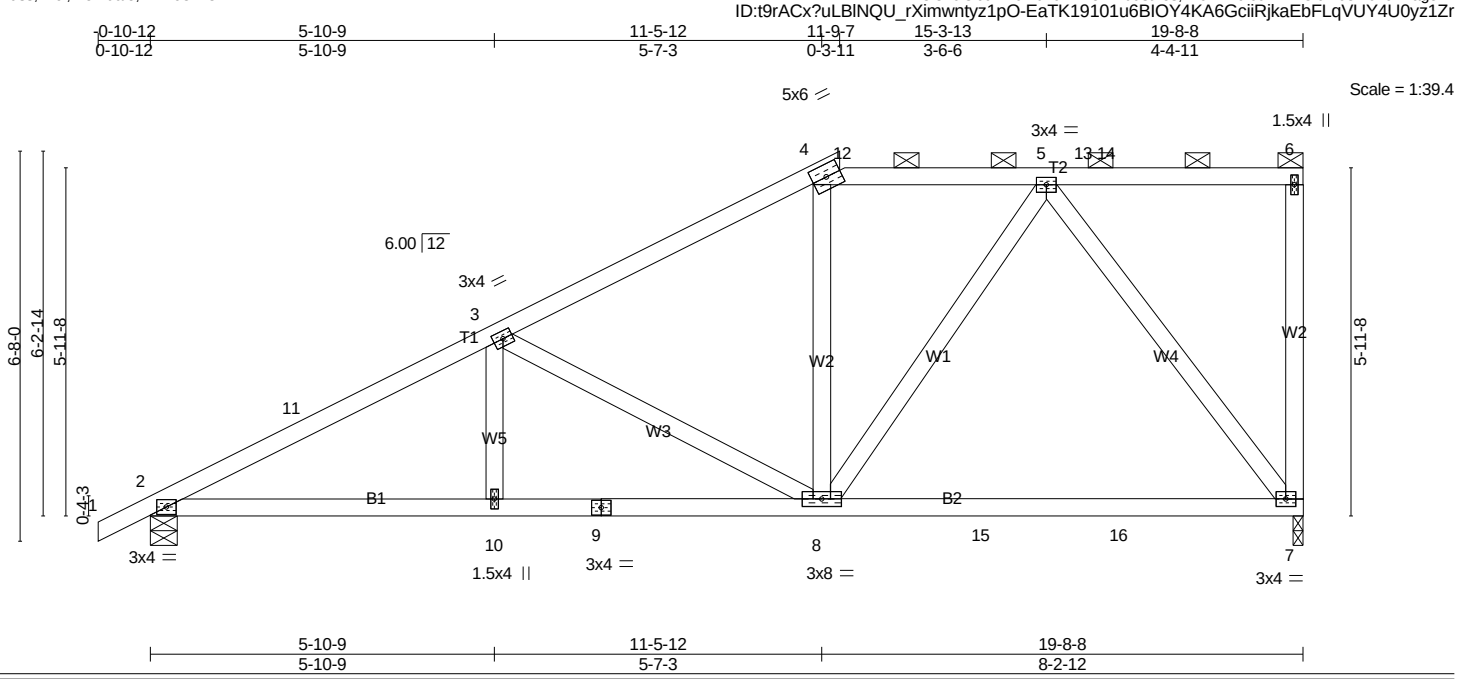
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01C	Roof Special	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:08 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.11	7-8	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.20	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.03	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 102 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-6-2 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=223(LC 11)
Max Uplift7=-174(LC 9), 2=-192(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1494/264, 3-11=-1407/276, 3-4=-927/200, 4-12=-740/210, 5-12=-741/210
BOT CHORD 2-10=-429/1245, 9-10=-429/1245, 8-9=-429/1245, 8-15=-205/517, 15-16=-205/517, 7-16=-205/517
WEBS 3-8=-574/209, 5-8=-97/398, 5-7=-843/258

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 11-3-3, Exterior(2) 11-3-3 to 16-4-5, Interior(1) 16-4-5 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=174, 2=192.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 117 lb up at 11-10-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-74, 4-6=-74, 2-7=-16

Established Basic Permit #
19-03671

Permit Number: 20-04896

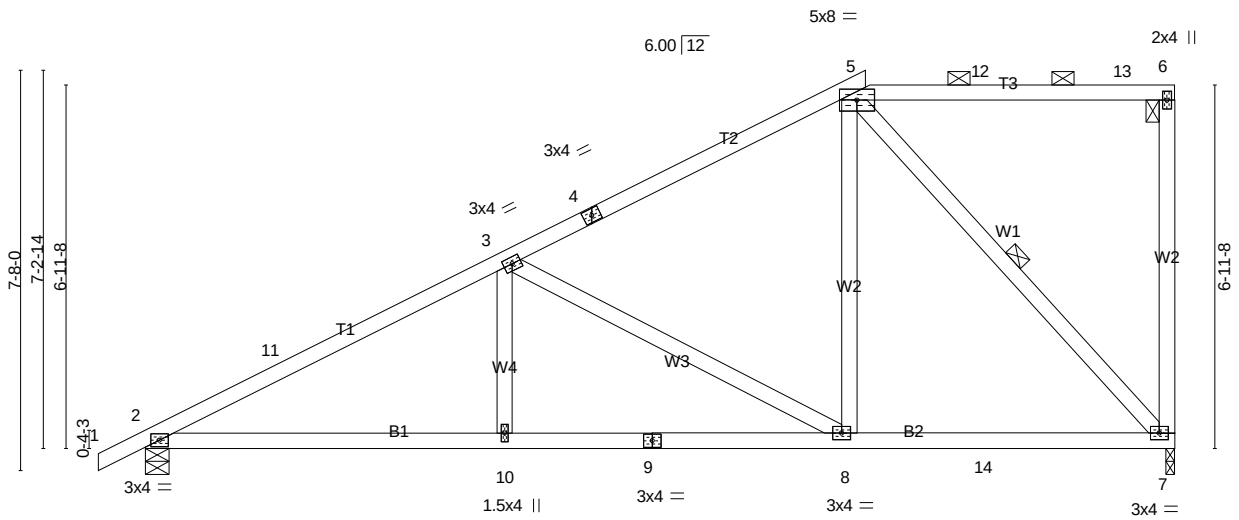
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01D	Roof Special	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:11 2019 Page 1

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-0-10-12	6-10-9	13-5-12	13-9-7	19-8-8
0-10-12	6-10-9	6-7-3	0-3-11	5-11-1

Scale = 1:44.1



6-10-9	13-5-12	19-8-8
6-10-9	6-7-3	6-2-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.06	2-10	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.12	2-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 101 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.
WEBS 1 Row at midpt 5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=259(LC 11)
Max Uplift7=-164(LC 9), 2=-178(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1454/221, 3-11=-1354/237, 3-4=-748/158, 4-5=-625/181
BOT CHORD 2-10=-407/1200, 9-10=-407/1200, 8-9=-407/1200, 8-14=-230/552, 7-14=-230/552
WEBS 3-10=0/255, 3-8=-740/252, 5-8=-56/457, 5-7=-816/250

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 13-7-1, Exterior(2) 13-7-1 to 18-8-3, Interior(1) 18-8-3 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=164, 2=178.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down and 118 lb up at 13-7-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-74, 5-6=-74, 2-7=-16

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01E	Roof Special	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:15 2019 Page 1

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Scale: 1/4"=1'

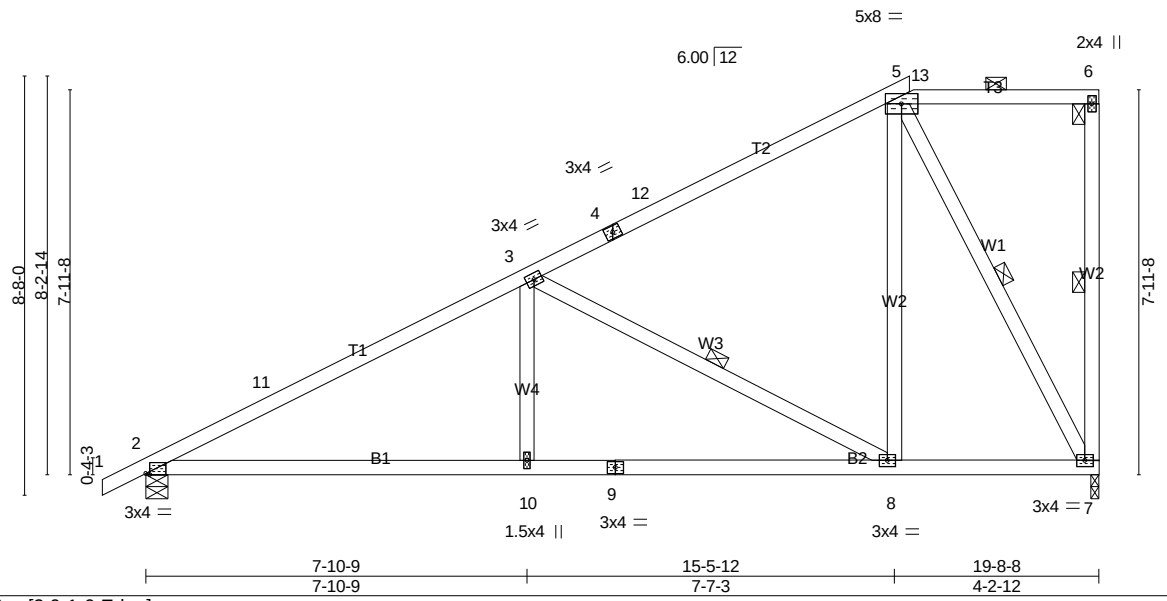


Plate Offsets (X,Y)-- [2:0-1-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.10	2-10	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.17	2-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.03	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 106 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.
WEBS 1 Row at midpt 6-7, 3-8, 5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=297(LC 9)
Max Uplift7=-160(LC 12), 2=-178(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1408/207, 3-11=-1295/227, 3-4=-570/135, 4-12=-484/142, 5-12=-425/161
BOT CHORD 2-10=-390/1149, 9-10=-390/1149, 8-9=-390/1149, 7-8=-192/373
WEBS 3-10=0/307, 3-8=-873/290, 5-8=-82/497, 5-7=-817/265

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 15-7-1, Exterior(2) 15-7-1 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=160, 2=178.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 98 lb up at 15-7-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-74, 5-6=-74, 2-7=-16

Established Basic Permit #

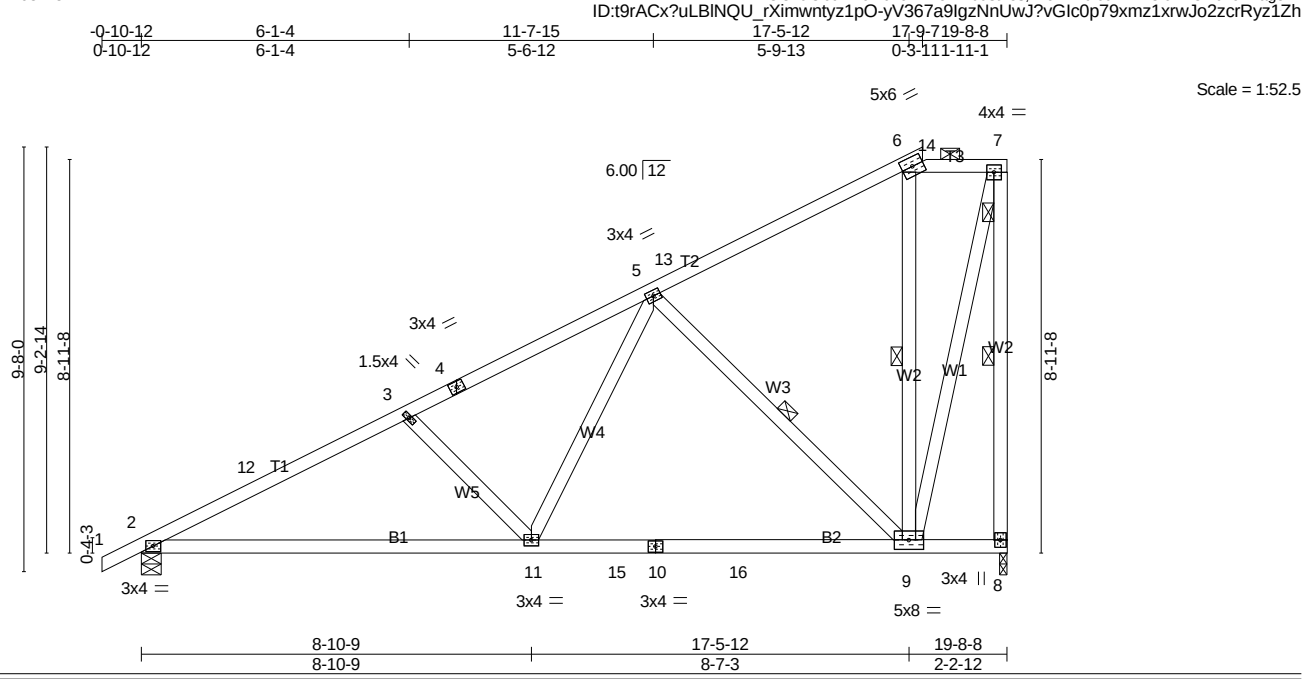
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H01F	Roof Special	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:18 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.12	9-11	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.20	2-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	8	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 117 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 5-9, 6-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=983/0-2-0 (min. 0-1-8), 2=967/0-5-8 (min. 0-1-8)
Max Horz 2=337(LC 11)
Max Uplift8=-245(LC 12), 2=-181(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-1471/246, 3-12=-1384/258, 3-4=-1162/204, 4-5=-994/223, 5-13=-371/138, 6-13=-358/159, 7-8=-987/262
BOT CHORD 2-11=-409/1225, 11-15=-300/744, 10-15=-300/744, 10-16=-300/744, 9-16=-300/744
WEBS 3-11=-391/200, 5-11=-68/495, 5-9=-735/264, 6-9=-282/220, 7-9=-265/927

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 17-3-3, Exterior(2) 17-3-3 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=245, 2=181.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 178 lb down and 178 lb up at 17-10-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-74, 6-7=-74, 2-8=-16

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 14=-127

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H02	Roof Special Girder	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Thu Jul 11 18:04:22 2019 Page 1

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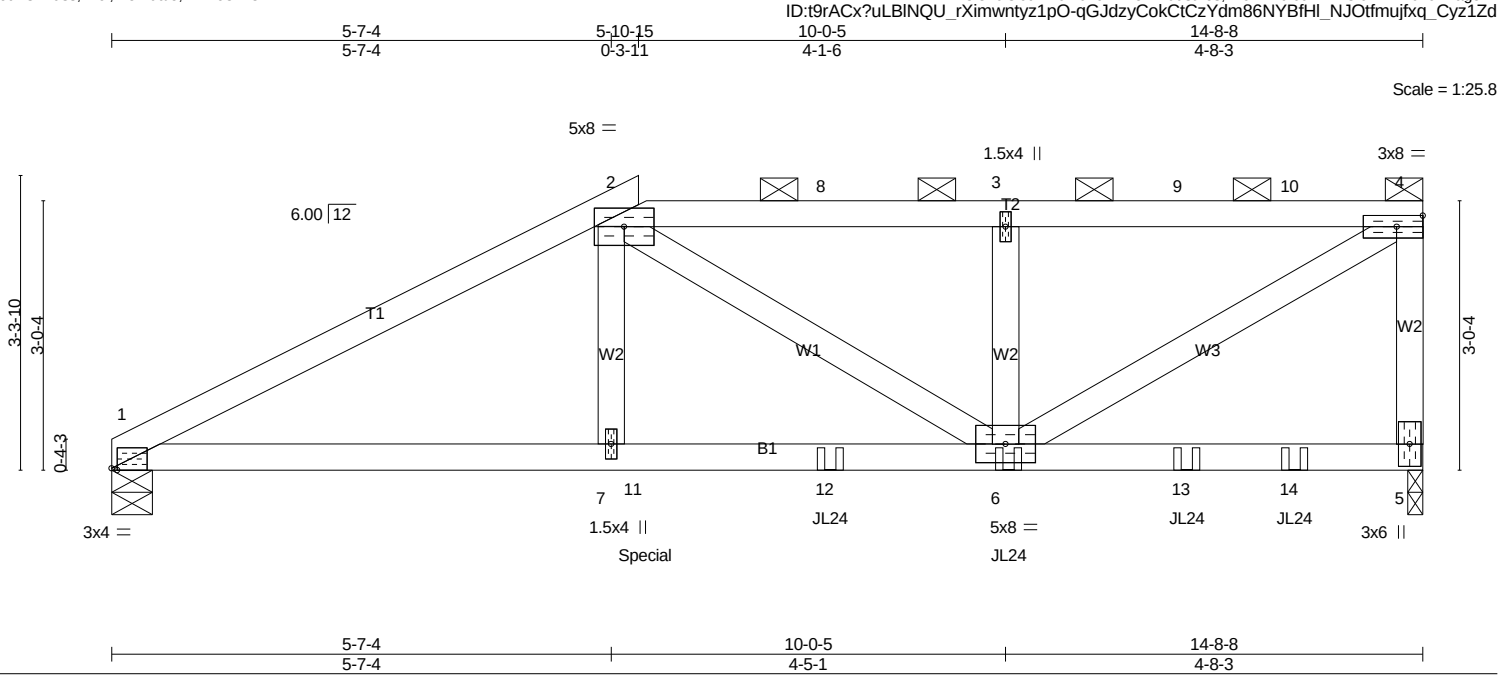


Plate Offsets (X,Y)-- [1:0-0-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.05	6-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 65 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-12 max.): 2-4.
BOT CHORD Rigid ceiling directly applied or 9-7-4 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=987/0-5-8 (min. 0-1-8), 5=1243/0-2-0 (min. 0-1-8)
Max Horz 1=102(LC 26)
Max Uplift1=-261(LC 8), 5=-398(LC 8)
Max Grav 1=1006(LC 19), 5=1266(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1799/476, 2-8=-1544/504, 3-8=-1555/507, 3-9=-1546/503, 9-10=-1546/503, 4-10=-1546/503, 4-5=-1193/432
BOT CHORD 1-7=-424/1505, 7-11=-424/1490, 11-12=-424/1490, 6-12=-424/1490
WEBS 2-7=-26/418, 3-6=-793/424, 4-6=-532/1731

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=261, 5=398.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 13-3-4 to connect truss(es) J06A (1 ply 2x4 DF), J06B (1 ply 2x4 DF), J06C (1 ply 2x4 DF), J06D (1 ply 2x4 DF) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 109 lb up at 5-8-10, 247 lb down and 152 lb up at 8-0-12, 254 lb down and 156 lb up at 10-0-12, and 254 lb down and 156 lb up at 12-0-12, and 254 lb down and 157 lb up at 13-3-4 on top chord, and 261 lb down and 75 lb up at 5-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Permit Number: 20-04896

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-74, 2-4=-74, 1-5=-16
   Concentrated Loads (lb)
      Vert: 2=-24 3=-134 6=-30(F) 8=-134 9=-134 10=-134 11=-261(F) 12=-30(F) 13=-30(F) 14=-30(F)

Established Basic Permit #

19-03671

Permit Number: 20-04896

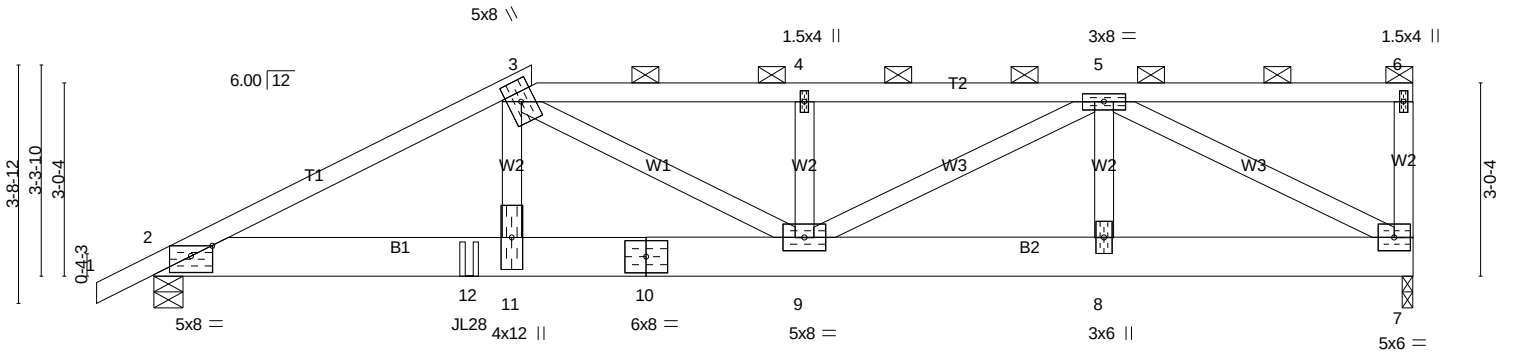
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H03	Roof Special Girder	1	1	Job Reference (optional)

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ID:t9rACx?uLBlNQU_rXimwntyz1pO-Ua19U2LKvuOVPOX4rdaMgBnsyDTMhzOfTXsSPWyz1ZR

0-10-12	5-7-4	5-10-15	10-2-3	14-10-8	19-8-8
0-10-12	5-7-4	0-3-11	4-3-4	4-8-4	4-10-0

Scale = 1:36.1



5-7-4	10-2-3	14-10-8	19-8-8
5-7-4	4-6-15	4-8-4	4-10-0

Plate Offsets (X,Y)-- [2:0-4-0,0-1-15]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.09	9	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.02	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 116 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x8 DF SS
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-6 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=1130/0-2-0 (min. 0-1-8), 2=1770/0-5-8 (min. 0-1-14)
Max Horz 2=105(LC 7)
Max Uplift7=-256(LC 5), 2=-365(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3110/682, 3-4=-2540/578, 4-5=-2532/573
BOT CHORD 2-12=-663/2693, 11-12=-663/2693, 10-11=-654/2646, 9-10=-654/2646, 8-9=-414/1724, 7-8=-414/1724
WEBS 3-11=-238/1159, 3-9=-551/432, 4-9=-443/157, 5-9=-226/922, 5-7=-1923/435

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=256, 2=365.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use USP JL28 (With 10-10d nails into Girder & 6-10d x 1-1/2 nails into Truss) or equivalent at 4-11-4 from the left end to connect truss(es) T04 (1 ply 2x8 DF) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 82 lb up at 5-8-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) 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

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Established Basic Permit #

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LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-74, 3-6=-74, 2-7=-16
Concentrated Loads (lb)
Vert: 3=-10 12=-1067(F)

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H03A	Roof Special	1	1	Job Reference (optional)

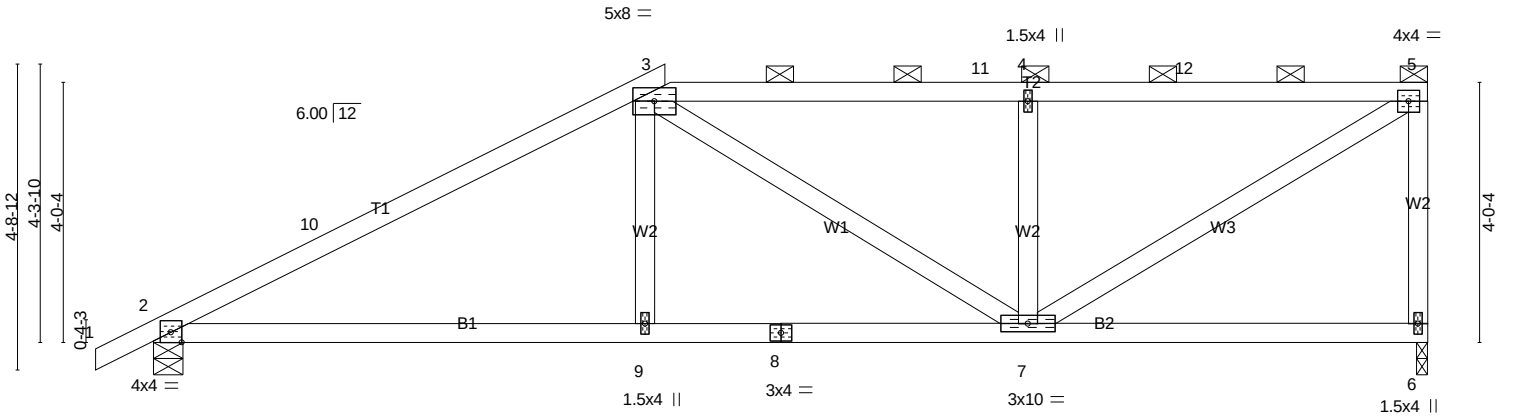
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ID:t9rACx?uLBlNQU_rXimwntyz1pO-u9jI74ODCpm4GrGfWm83HqPGDQQxuT669V460qyz1ZO

0-10-12 | 7-7-4 | 7-10-15 | 13-6-5 | 19-8-8

0-10-12 | 7-7-4 | 0-3-11 | 5-7-6 | 6-2-3

Scale = 1:35.6



7-7-4 | 13-6-5 | 19-8-8

7-7-4 | 5-11-1 | 6-2-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.11	2-9	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.20	2-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 89 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-8 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=147(LC 9)
Max Uplift6=-179(LC 9), 2=-155(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1368/217, 3-10=-1237/237, 3-11=-1042/249, 4-11=-1044/248, 4-12=-1037/245, 5-12=-1037/245, 5-6=-817/211
BOT CHORD 2-9=-320/1097, 8-9=-321/1093, 7-8=-321/1093
WEBS 3-9=0/267, 3-7=-301/94, 4-7=-534/201, 5-7=-255/1182

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 7-8-9, Exterior(2) 7-8-9 to 12-9-11, Interior(1) 12-9-11 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=179, 2=155.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down and 125 lb up at 7-8-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-74, 3-5=-74, 2-6=-16

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19-03671

Permit Number: 20-04896

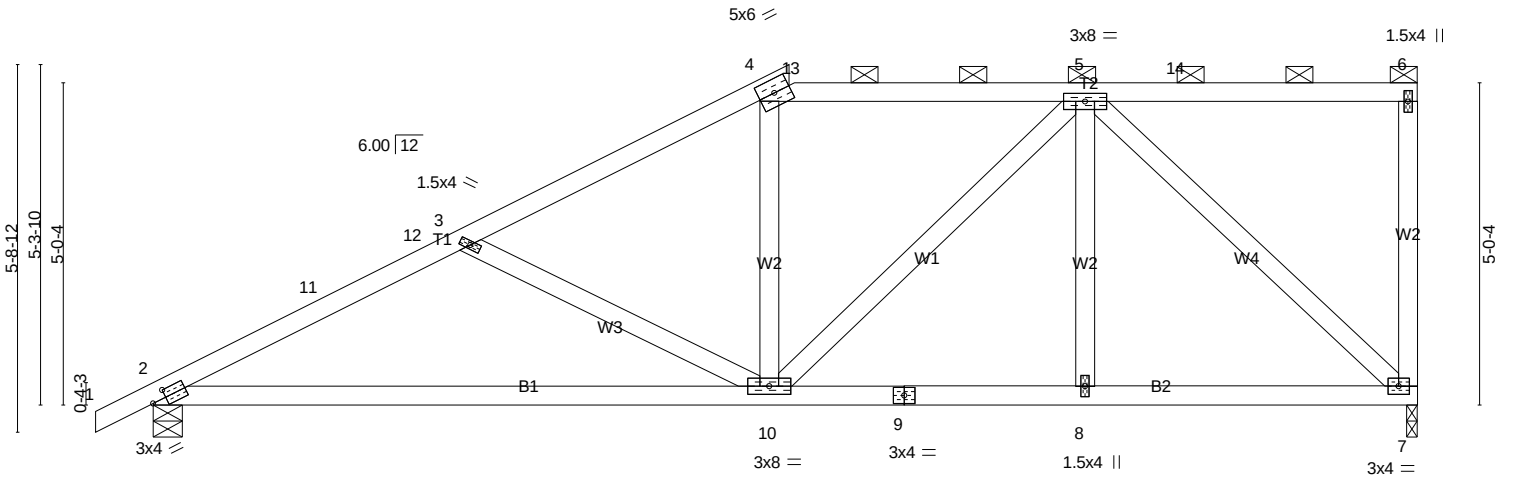
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H03B	Roof Special	1	1	Job Reference (optional)

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0-10-12	4-11-5	9-7-4	9-10-15	14-6-5	19-8-8
0-10-12	4-11-5	4-7-15	0-3-11	4-7-6	5-2-3

Scale = 1:35.9



9-7-4	14-6-5	19-8-8
9-7-4	4-11-1	5-2-3

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.16	2-10	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.30	2-10	>785	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 100 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=187(LC 9)
Max Uplift7=-178(LC 9), 2=-194(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1471/299, 11-12=-1400/313, 3-12=-1344/315, 3-4=-1098/221, 4-13=-912/229, 5-13=-913/229
BOT CHORD 2-10=-451/1256, 9-10=-221/728, 8-9=-221/728, 7-8=-221/728
WEBS 3-10=-392/193, 5-10=-85/256, 5-7=-980/239

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 9-4-11, Exterior(2) 9-4-11 to 14-6-5, Interior(1) 14-6-5 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=178, 2=194.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 117 lb up at 9-11-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-74, 4-6=-74, 2-7=-16

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Established Basic Permit #

19-03671

Permit Number: 20-04896

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 13=-0

Established Basic Permit #

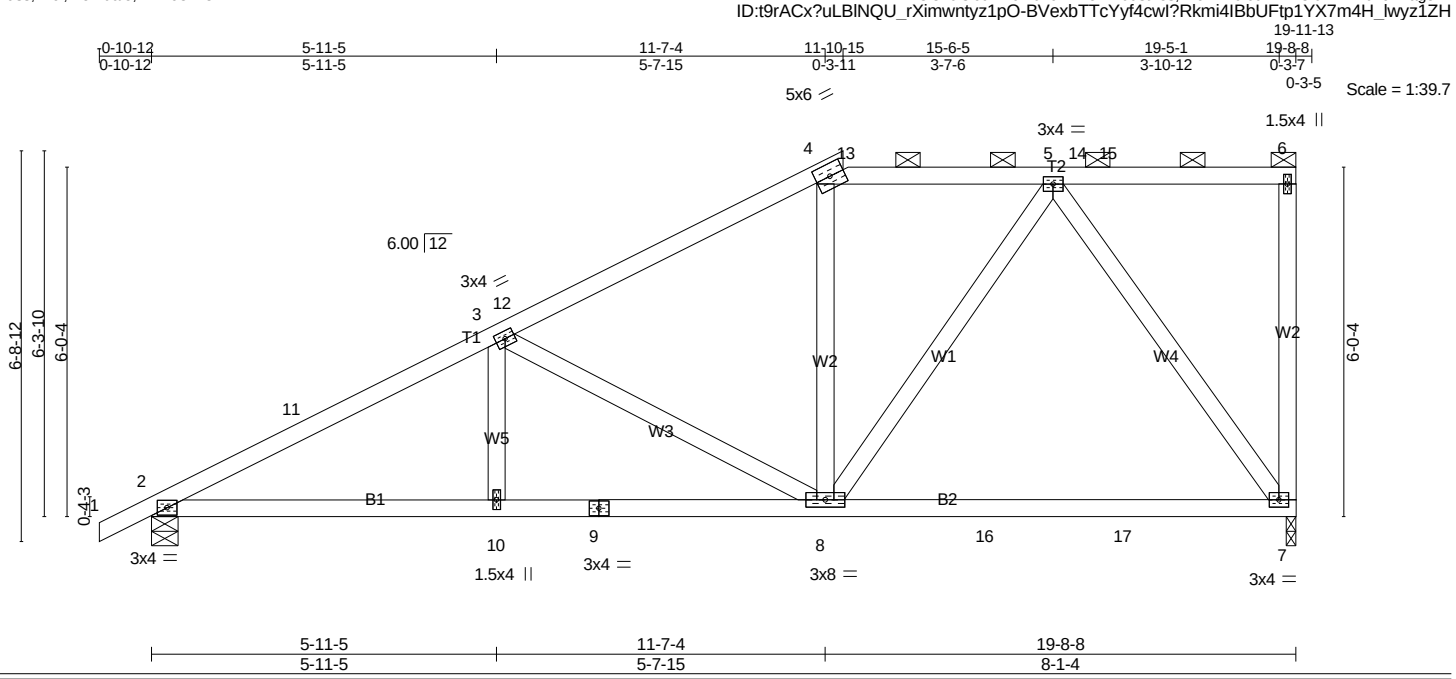
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H03C	California	1	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.11	7-8	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.19	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 102 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-7-1 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=956/0-5-8 (min. 0-1-8), 7=868/0-2-0 (min. 0-1-8)
Max Horz 2=225(LC 11)
Max Uplift2=-192(LC 12), 7=-173(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1492/264, 3-11=-1404/276, 3-12=-916/178, 4-12=-904/199, 4-13=-729/210, 5-13=-729/210
BOT CHORD 2-10=-423/1242, 9-10=-423/1242, 8-9=-423/1242, 8-16=-198/493, 16-17=-198/493, 7-17=-198/493
WEBS 3-8=-583/210, 5-8=-103/418, 5-7=-837/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 11-4-11, Exterior(2) 11-4-11 to 16-5-13 , Interior(1) 16-5-13 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 7=173.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 97 lb up at 11-11-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-74, 4-6=-74, 2-7=-16

Established Basic Permit #

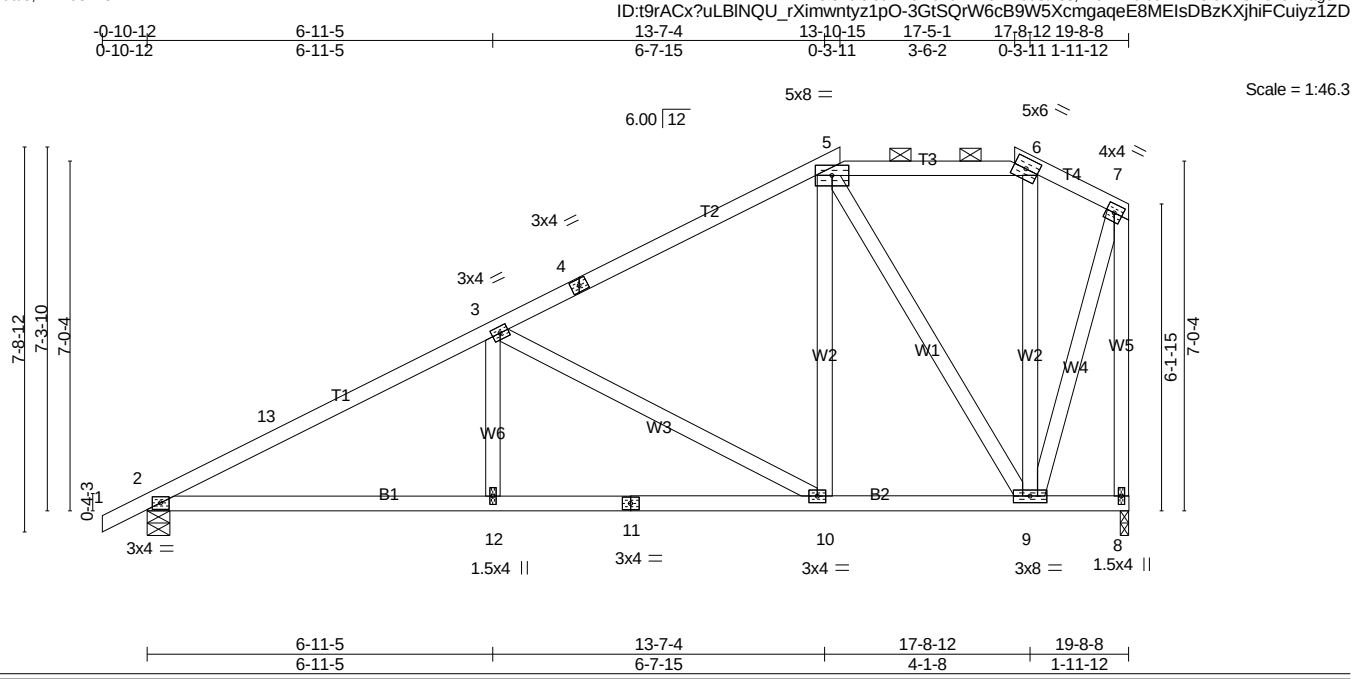
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888	H03D	California	1	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	2-12	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.12	2-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	8	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 117 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=994/0-5-8 (min. 0-1-8), 8=956/0-2-0 (min. 0-1-8)
Max Horz 2=240(LC 34)
Max Uplift2=-195(LC 12), 8=-171(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-1537/256, 3-13=-1437/273, 3-4=-816/186, 4-5=-689/209, 6-7=-289/172, 7-8=-935/240
BOT CHORD 2-12=-407/1273, 11-12=-407/1273, 10-11=-407/1273, 9-10=-231/610
WEBS 3-12=0/267, 3-10=-749/254, 5-10=-59/436, 5-9=-738/215, 7-9=-234/810

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 13-8-9, Exterior(2) 13-8-9 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=195, 8=171.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 227 lb down and 179 lb up at 13-8-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-74, 5-6=-74, 6-7=-74, 2-8=-16

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-127

Established Basic Permit #

19-03671

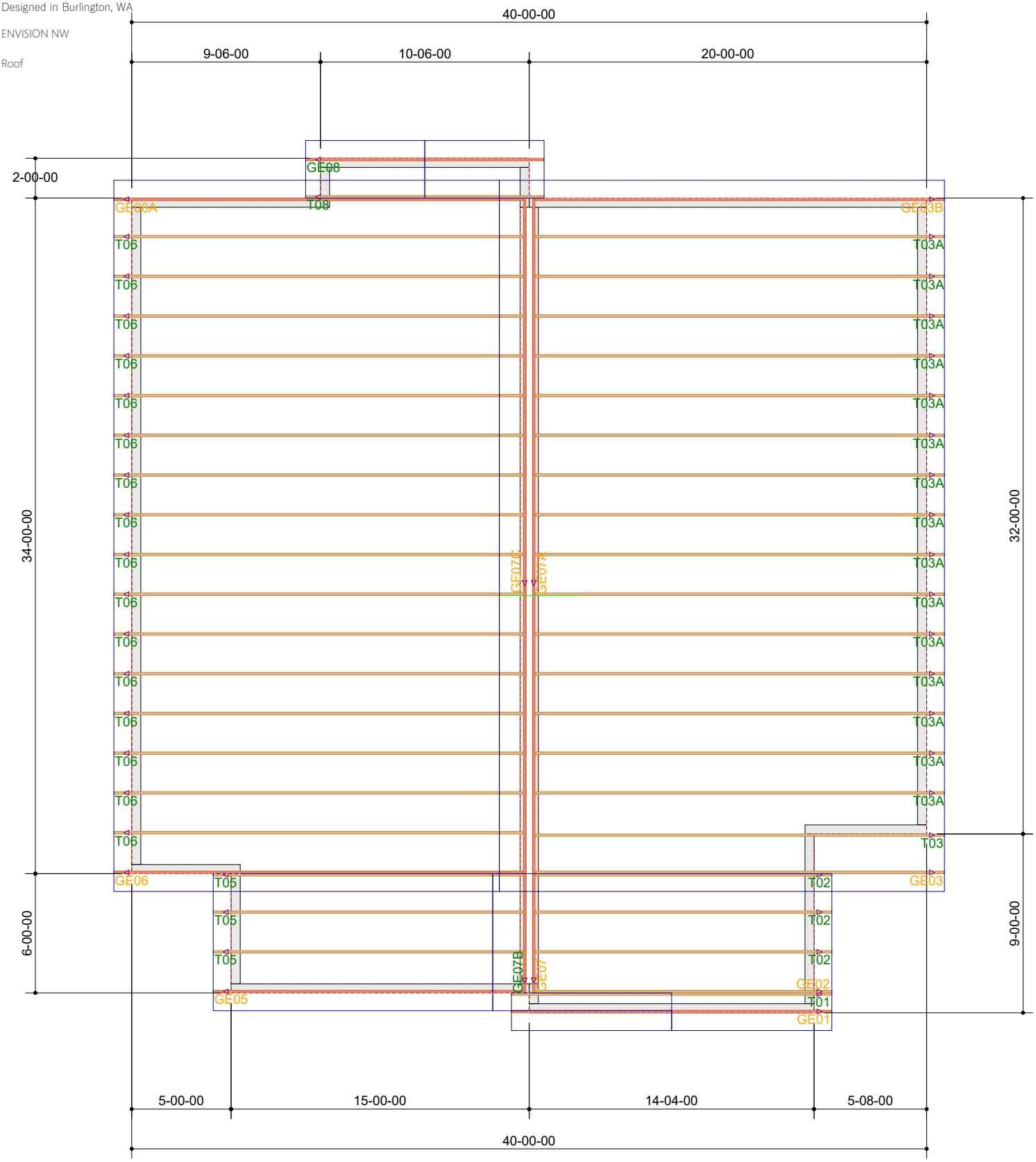
Permit Number: 20-04896

BID #1903888A
Designed in Burlington, WA

ENVISION NW

Roof

7/12/2019



BID #1903888A
ENVISION NW
SILVERDALE, WA 98383-9321

Sales:
Jeremiah Murphy

LOUWS TRUSS INCORPORATED

Established Basic Permit #
19-03671

Roof: *6.00/12* Overhang: *10-12*

Ceiling: *Flat* Spacing: *24"*

30 PSF SNOW LOAD
All Gables dropped for 2x4 outlookers

Permit Number: 20-04896

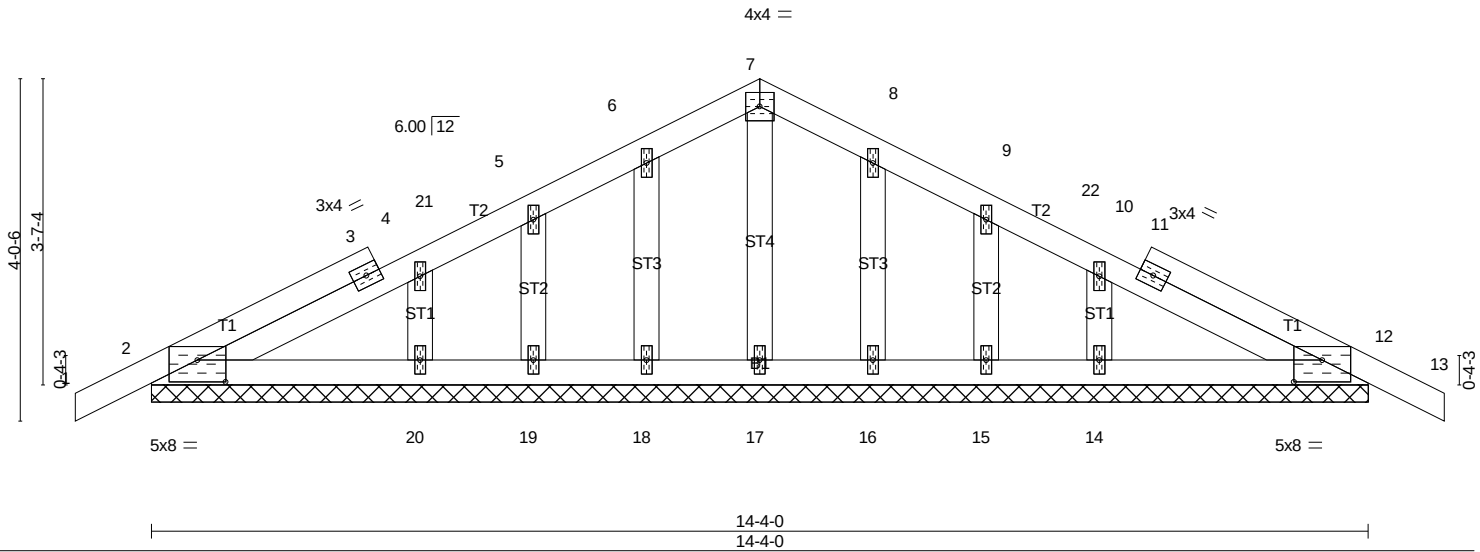
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE01	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:18 2019 Page 1

ID:t9rACx?uLBlNQU_rXimwntyz1pO-HqVfKPf0g0oha6o0YjWit9Nlm9MV6scU0Vhk2Oyyp9B

-0-10-12 / 0-10-12 | 7-2-0 / 7-2-0 | 14-4-0 / 7-2-0 | 15-2-12 / 0-10-12

Scale = 1:27.1



14-4-0
14-4-0

Plate Offsets (X,Y)-- [2:0-4-0,0-3-1], [12:0-4-0,0-3-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	12	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	12	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	12	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 68 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 DF No.2

BRACING-
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-4-0.
(lb) - Max Horz 2=-60(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-12 to 2-8-7, Exterior(2) 2-8-7 to 7-2-0, Corner(3) 7-2-0 to 10-9-3, Exterior(2) 10-9-3 to 15-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE02	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:20 2019 Page 1

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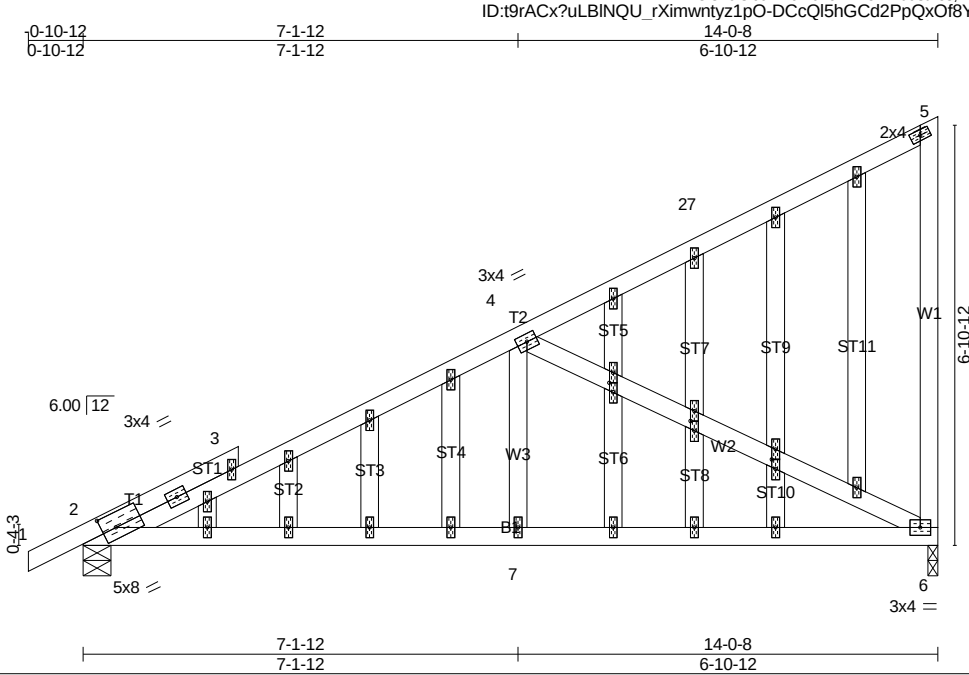


Plate Offsets (X,Y)-- [2:0-2-12,0-2-13], [12:0-1-14,0-0-12], [15:0-1-14,0-0-12], [18:0-1-14,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.08	2-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.14	2-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 100 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2
OTHERS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=612/0-2-0 (min. 0-1-8), 2=702/0-5-8 (min. 0-1-8)
Max Horz 2=261(LC 9)
Max Uplift6=-162(LC 12), 2=-129(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-953/134, 3-4=-874/152
BOT CHORD 2-7=-247/782, 6-7=-247/782
WEBS 4-7=0/293, 4-6=-853/263

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 13-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=162, 2=129.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

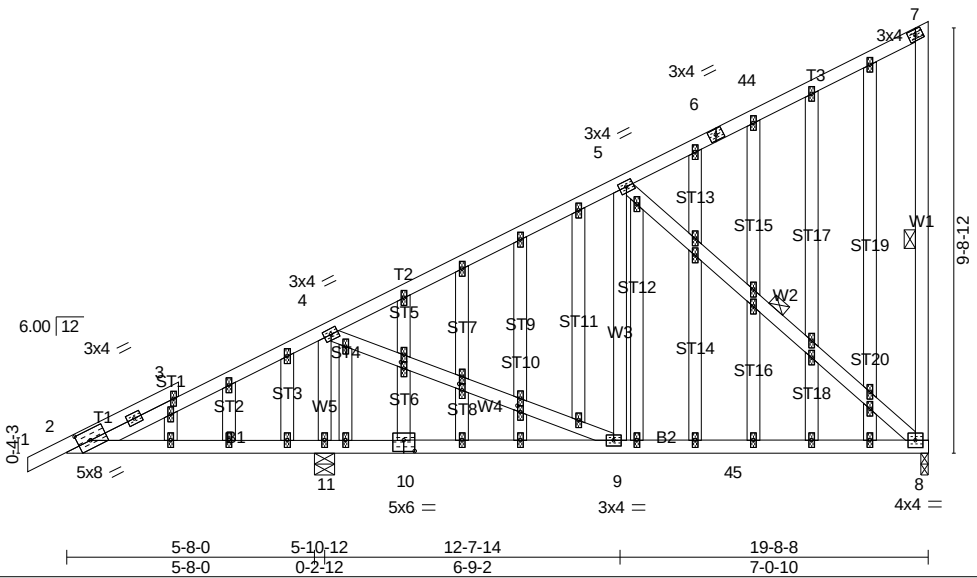
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE03	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:23 2019 Page 1

ID:t9rACx?uLBlNQU_rXimwntyz1pO-dnIYN6j9UYQzgtgzLH6taD4UnA?Xn23DAnPVjbyyp96

-0-10-12 5-10-12 12-7-14 19-8-8
0-10-12 5-10-12 6-9-2 7-0-10

Scale = 1:52.7



5-8-0 5-10-12 12-7-14 19-8-8
5-8-0 0-2-12 6-9-2 7-0-10

Plate Offsets (X,Y)-- [2:0-3-8,0-2-13], [10:0-3-0,0-3-0], [30:0-1-12,0-0-12], [31:0-1-12,0-0-12], [34:0-1-12,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.05	8-9	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.10	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 185 lb	FT = 0%

LUMBER-

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

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.
WEBS	1 Row at midpt 7-8, 5-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=470/0-2-0 (min. 0-1-8), 11=1357/0-5-8 (min. 0-1-8)
Max Horz 11=369(LC 9)
Max Uplift8=-161(LC 12), 11=-239(LC 12)
Max Grav 8=476(LC 19), 11=1357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-557/669, 3-4=-543/794, 4-5=-443/51
BOT CHORD 2-11=-623/565, 10-11=-702/555, 9-10=-702/555, 9-45=-170/310, 8-45=-170/310
WEBS 4-11=-1231/527, 4-9=-410/938, 5-8=-357/185

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=161, 11=239.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE03B	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:26 2019 Page 1

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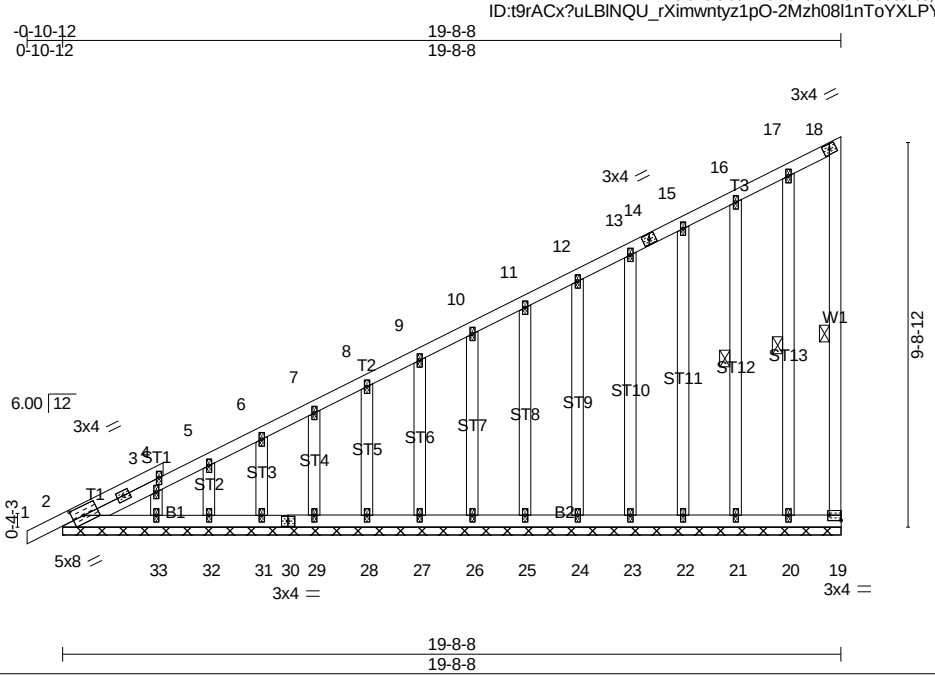


Plate Offsets (X,Y)-- [2:0-3-8,0-2-13], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.00	1	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	19	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 156 lb	FT = 0%

LUMBER-

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

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.
WEBS	1 Row at midpt 18-19, 17-20, 16-21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 19-8-8.
(lb) - Max Horz 2=369(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33
Max Grav All reactions 250 lb or less at joint(s) 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-543/267, 3-4=-530/257, 4-5=-529/264, 5-6=-503/257, 6-7=-471/245, 7-8=-441/235, 8-9=-410/224, 9-10=-379/214, 10-11=-348/203, 11-12=-318/192, 12-13=-287/182, 13-14=-257/163, 14-15=-252/171

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-12 to 2-8-7, Exterior(2) 2-8-7 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE05	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:29 2019 Page 1

ID:t9rACx?uLBlNQU_rXimwntyz1pO-SxfqeAov4OA7Oo77hXCHpUKc6a5MBqN5YisqxFyyp90

0-10-12 13-2-0 14-8-8
0-10-12 13-2-0 1-6-8

Scale = 1:38.5

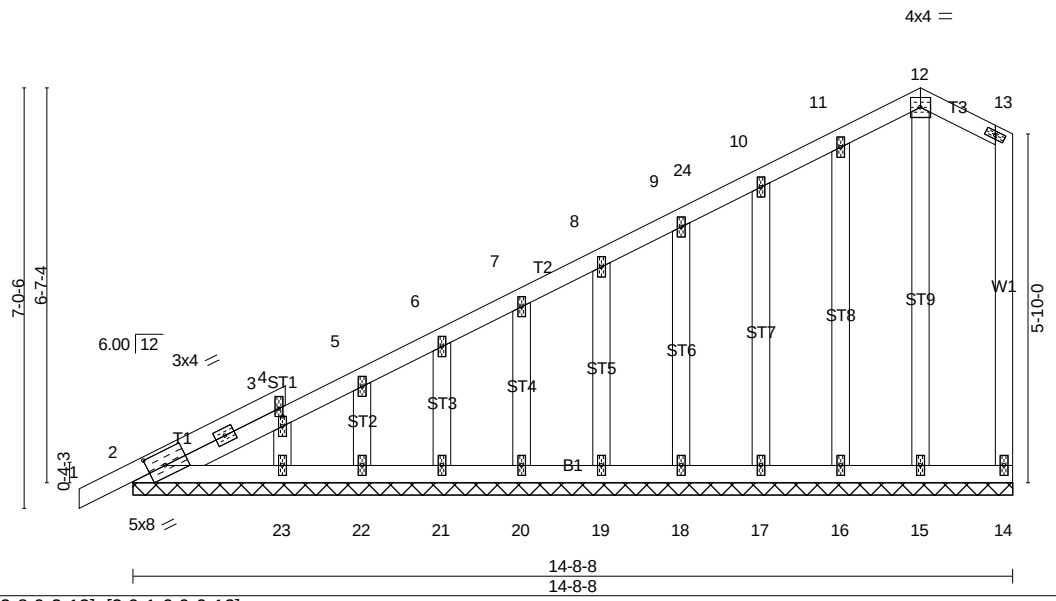


Plate Offsets (X,Y)-- [2:0-3-8,0-2-13], [3:0-1-9,0-0-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	1	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 96 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2
OTHERS 2x4 DF No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-8-8.
(lb) - Max Horz 2=229(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 15, 16, 17, 18, 19, 20, 21, 22, 23
Max Grav All reactions 250 lb or less at joint(s) 14, 2, 15, 16, 17, 18, 19, 20, 21, 22, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-324/167, 3-4=-299/151, 4-5=-299/158, 5-6=-270/151

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-12 to 2-5-3, Exterior(2) 2-5-3 to 13-2-0, Corner(3) 13-2-0 to 14-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2, 15, 16, 17, 18, 19, 20, 21, 22, 23.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE06	GABLE	1	1	Job Reference (optional)

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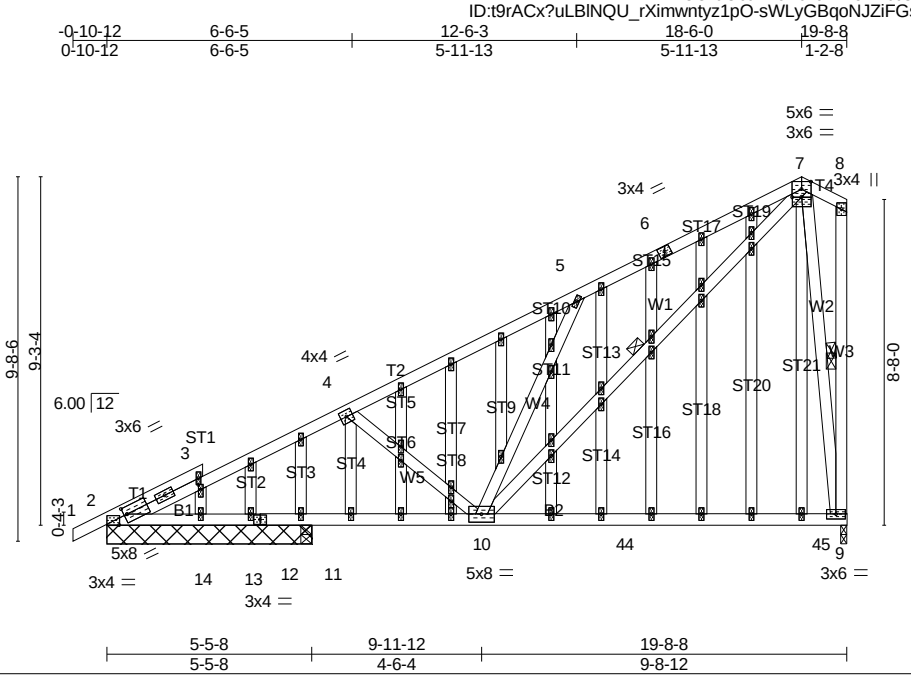


Plate Offsets (X,Y)-- [2:0-1-0,0-2-5], [2:0-2-8,Edge], [7:0-3-0,0-0-1], [43:0-1-9,0-0-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.33	9-10	>528	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.52	9-10	>328	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	9	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 195 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-9-6 oc bracing.
WEBS	1 Row at midpt 7-10, 8-9, 7-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 5-5-8 except (jt=length) 9=0-2-0.
(lb) - Max Horz 2=334(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 11, 14 except 2=-147(LC 12), 9=-209(LC 12), 13=-187(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 11, 11, 13 except 2=712(LC 1), 9=841(LC 19), 14=330(LC 1)

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

TOP CHORD	2-3=-1426/251, 3-4=-1361/268, 4-5=-1031/212, 5-6=-1326/464, 6-7=-1219/478
BOT CHORD	2-14=-382/1218, 13-14=-382/1218, 12-13=-382/1218, 11-12=-382/1218, 10-11=-382/1218
WEBS	4-10=-509/246, 5-10=-647/341, 7-10=-514/1428, 7-9=-803/430

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 18-6-0, Exterior(2) 18-6-0 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 14 except (jt=lb) 2=147, 9=209, 13=187.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE06A	GABLE	1	1	Job Reference (optional)

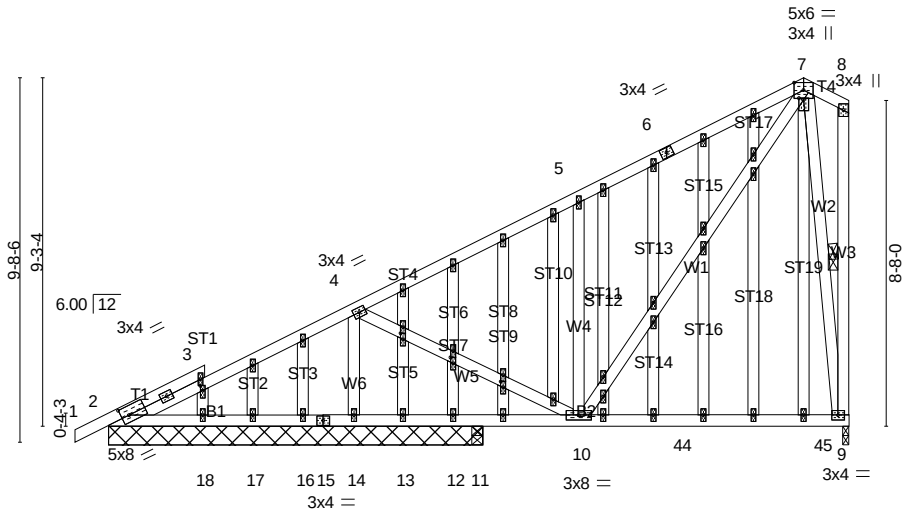
Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:36 2019 Page 1

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-0-10-12 | 6-6-5 | 12-6-3 | 18-6-0 | 19-8-8

0-10-12 | 6-6-5 | 5-11-13 | 5-11-13 | 1-2-8

Scale = 1:61.4



6-6-5 | 9-8-0 | 12-6-3 | 19-8-8

6-6-5 | 3-1-11 | 2-10-3 | 7-2-5

Plate Offsets (X,Y)-- [2:0-2-8,0-2-13], [7:0-0-8,0-1-8], [36:0-1-14,0-0-12], [37:0-1-14,0-0-12], [39:0-1-14,0-0-12], [43:0-1-9,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.09	9-10	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.15	9-10	>798	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 196 lb	FT = 0%

LUMBER-

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

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, Except: 10-0-0 oc bracing: 9-10.
WEBS	1 Row at midpt 8-9, 7-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 9-11-8 except (jt=length) 9=0-2-0, 11=0-3-8.
(lb) - Max Horz 2=334(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 17, 18 except 14=-325(LC 12), 9=-113(LC 12), 11=-128(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 13, 16, 17, 18, 11 except 14=1002(LC 1), 9=520(LC 19)

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

TOP CHORD	2-3=-340/291, 3-4=-327/407, 4-5=-467/102, 5-6=-443/190, 6-7=-356/204
BOT CHORD	2-18=-302/165, 17-18=-302/165, 16-17=-302/165, 15-16=-302/165, 14-15=-302/165, 13-14=-302/165, 12-13=-302/165, 11-12=-302/165, 10-11=-302/165
WEBS	4-14=-987/341, 4-10=-123/592, 5-10=-467/243, 7-10=-152/377, 7-9=-490/342

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 18-6-0, Exterior(2) 18-6-0 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 17, 18 except (jt=lb) 14=325, 9=113, 11=128.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

NOTES-

11) No notches allowed in overhang and 1012 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE07	GABLE	1	1	Job Reference (optional)

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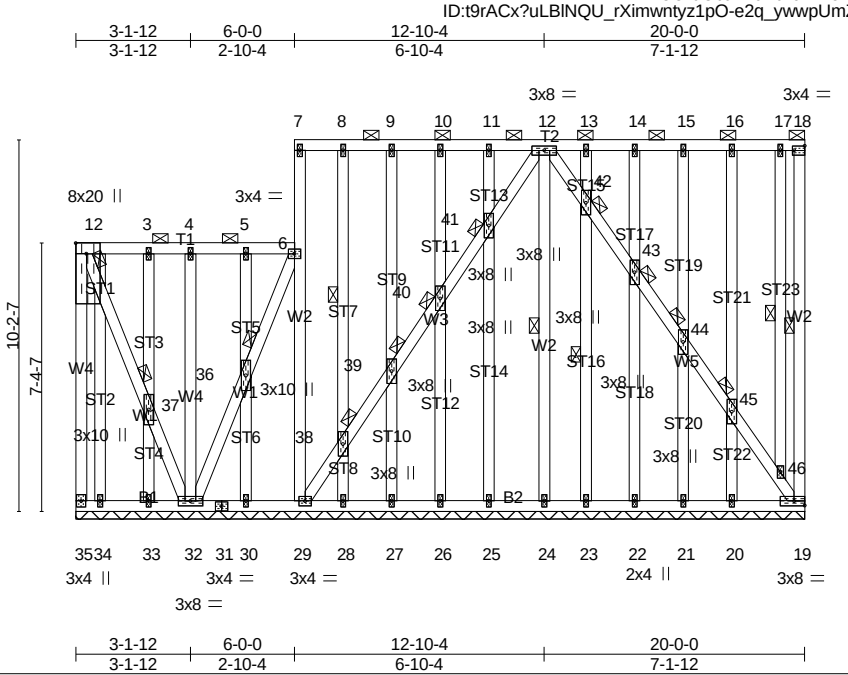


Plate Offsets (X,Y)-- [1:Edge,0-3-8], [2:0-0-0,0-1-12], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.01	19	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 306 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-6, 6-29, 7-18.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-3-9 oc bracing: 34-35 6-0-0 oc bracing: 33-34,32-33.
WEBS	1 Row at midpt 18-19, 12-24, 8-38, 23-42, 17-46
JOINTS	1 Brace at Jt(s): 1, 18, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 35=323(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 19, 32, 24, 30, 33, 34, 28, 27, 26, 25, 23, 22, 21, 20 except 35=-223(LC 10), 29=-116(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 35, 29, 19, 32, 24, 30, 33, 34, 28, 27, 26, 25, 23, 22, 21, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 34-35=-442/464, 33-34=-443/465, 32-33=-443/465, 31-32=-322/371, 30-31=-322/371, 29-30=-322/371
WEBS 1-37=-238/283

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Corner(3) 0-4-14 to 4-0-1, Exterior(2) 4-0-1 to 6-1-12, Corner(3) 6-1-12 to 10-0-0, Exterior(2) 10-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 32, 24, 30, 33, 34, 28, 27, 26, 25, 23, 22, 21, 20 except (jt=lb) 35=223, 29=116.

Continued on page 2

Established Basic Permit #

19-03671

Permit Number: 20-04896

NOTES-

11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

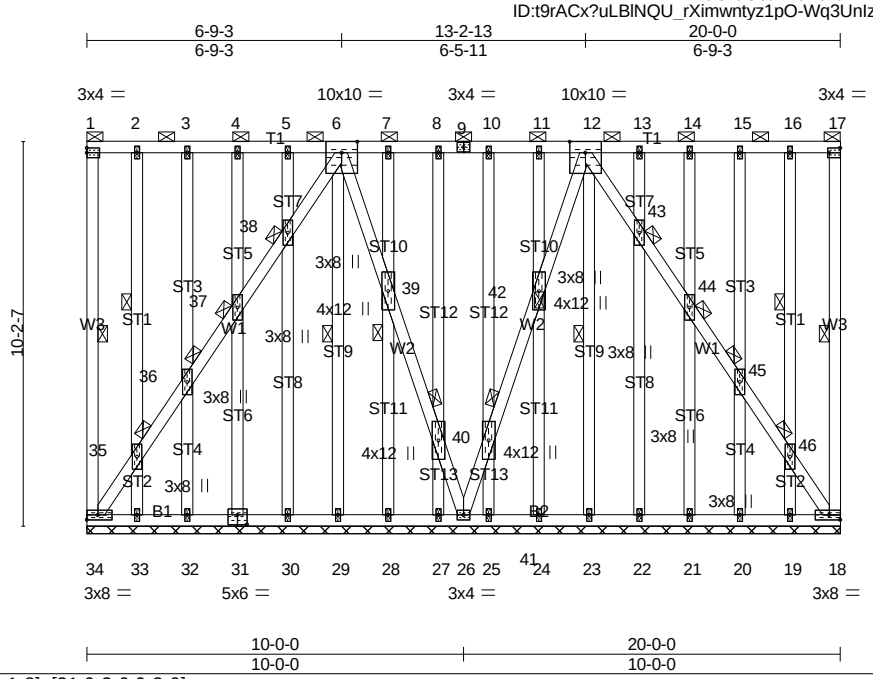
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE07A	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:44 2019 Page 1

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Scale = 1:61.2

Plate Offsets (X,Y)-- [17:Edge,0-1-8], [31:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.01	18	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 319 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-17, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-34, 17-18, 2-35, 6-29, 12-23, 16-46
JOINTS	1 Brace at Jt(s): 1, 17, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 34=346(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 26, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19 except 34=-158(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 34, 18, 26, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 33-34=-276/302, 32-33=-276/302, 31-32=-276/302, 30-31=-276/302, 29-30=-276/302, 28-29=-276/302, 27-28=-276/302, 26-27=-276/302
WEBS 37-38=-245/252, 6-38=-266/273

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-0-0, Exterior(2) 4-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 26, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19 except (jt=lb) 34=158.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE07B	Roof Special Supported Gable	1	1	Job Reference (optional)

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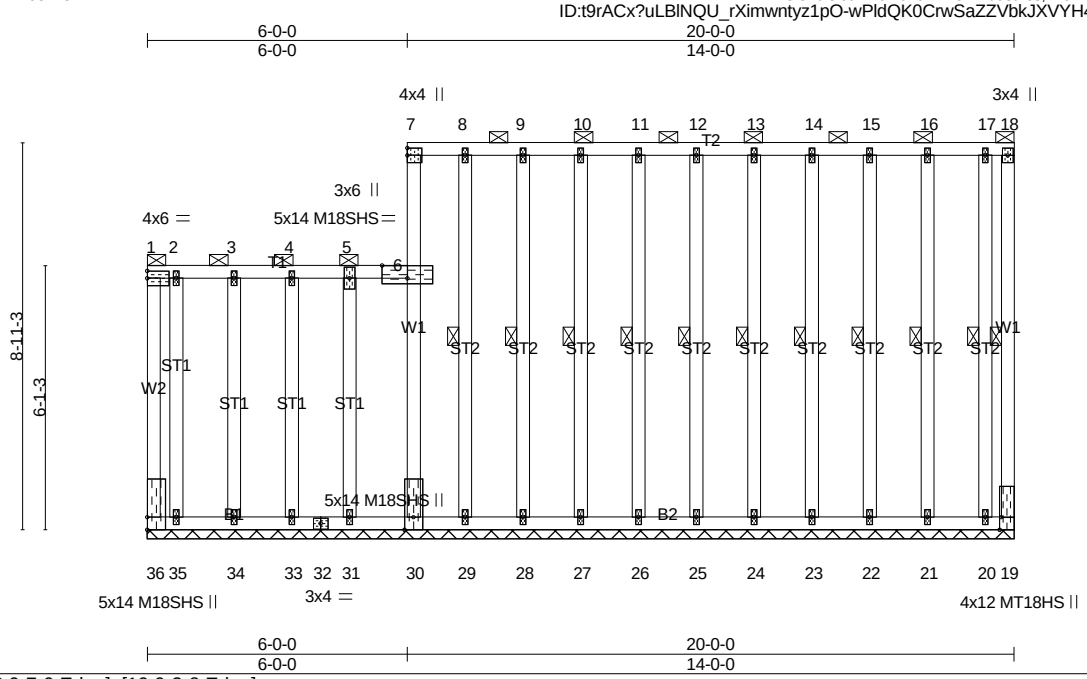


Plate Offsets (X,Y)-- [6:0-7-0,Edge], [19:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	n/a	-	n/a	999	M18SHS	220/195
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.00	19	n/a	n/a	MT18HS	220/195
BCDL	8.0	Code IRC2015/TPI2014		Matrix-R							Weight: 227 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-6, 6-30, 7-18.
BOT CHORD	Rigid ceiling directly applied or 9-8-12 oc bracing.
WEBS	1 Row at midpt 18-19, 8-29, 9-28, 10-27, 11-26, 12-25, 13-24, 14-23, 15-22, 16-21, 17-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 36=-302(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 33, 34, 28, 27, 26, 25, 24, 23, 22, 21 except 36=-800(LC 10), 30=-114(LC 9), 19=-505(LC 11), 31=-457(LC 8), 35=-753(LC 9), 29=-312(LC 9), 20=-512(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 30, 33, 34, 28, 27, 26, 25, 24, 23, 22, 21 except 36=755(LC 9), 19=475(LC 8), 31=458(LC 11), 35=803(LC 10), 29=277(LC 19), 20=538(LC 11)

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

TOP CHORD	1-36=-359/364, 6-30=-253/270
BOT CHORD	35-36=-291/311, 34-35=-291/311, 33-34=-291/311, 32-33=-291/311, 31-32=-291/311, 30-31=-291/311
WEBS	5-31=-521/536, 2-35=-309/311

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-8-15, Exterior(2) 3-8-15 to 6-1-12, Corner(3) 6-1-12 to 10-0-0, Exterior(2) 10-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 1-4-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

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19-03671

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NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 34, 28, 27, 26, 25, 24, 23, 22, 21 except (jt=lb) 36=800, 30=114, 19=505, 31=457, 35=753, 29=312, 20=512.
13) 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.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE07C	GABLE	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248

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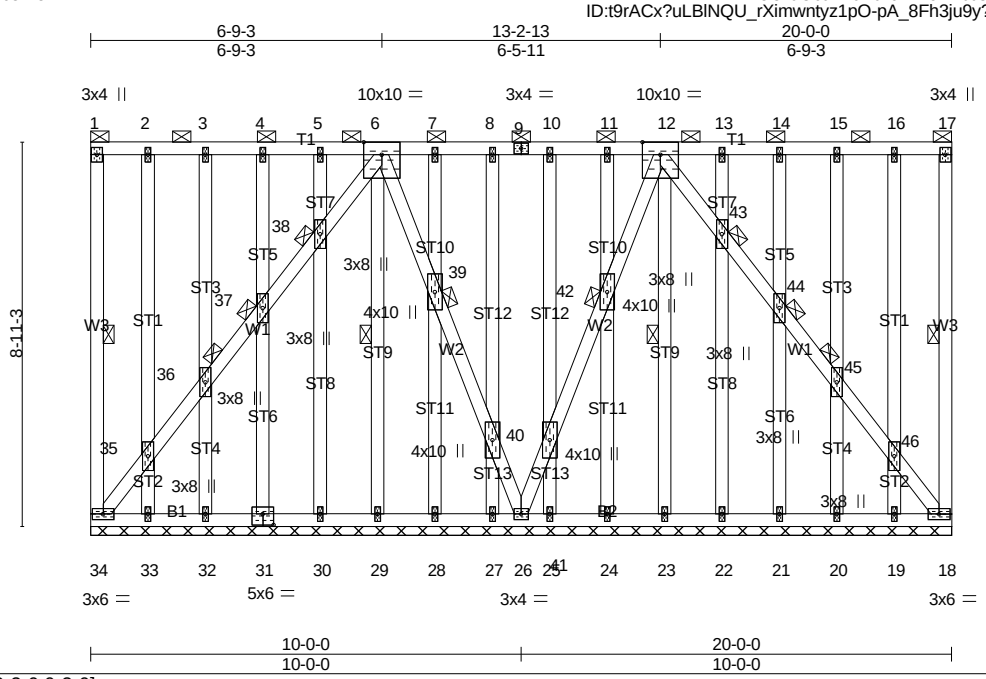


Plate Offsets (X,Y)-- [31:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	18	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 286 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-17, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-34, 17-18, 6-29, 12-23
JOINTS	1 Brace at Jt(s): 1, 17, 36, 37, 38, 39, 42, 43, 44, 45

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 34=-302(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 18, 26, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19 except 34=-130(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 34, 18, 26, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 33-34=-231/254, 32-33=-231/254, 31-32=-231/254, 30-31=-231/254, 29-30=-231/254, 28-29=-231/254, 27-28=-231/254, 26-27=-231/254

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-0-0, Exterior(2) 4-0-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 26, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19 except (jt=lb) 34=130.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Established Basic Permit #

19-03671

Permit Number: 20-04896

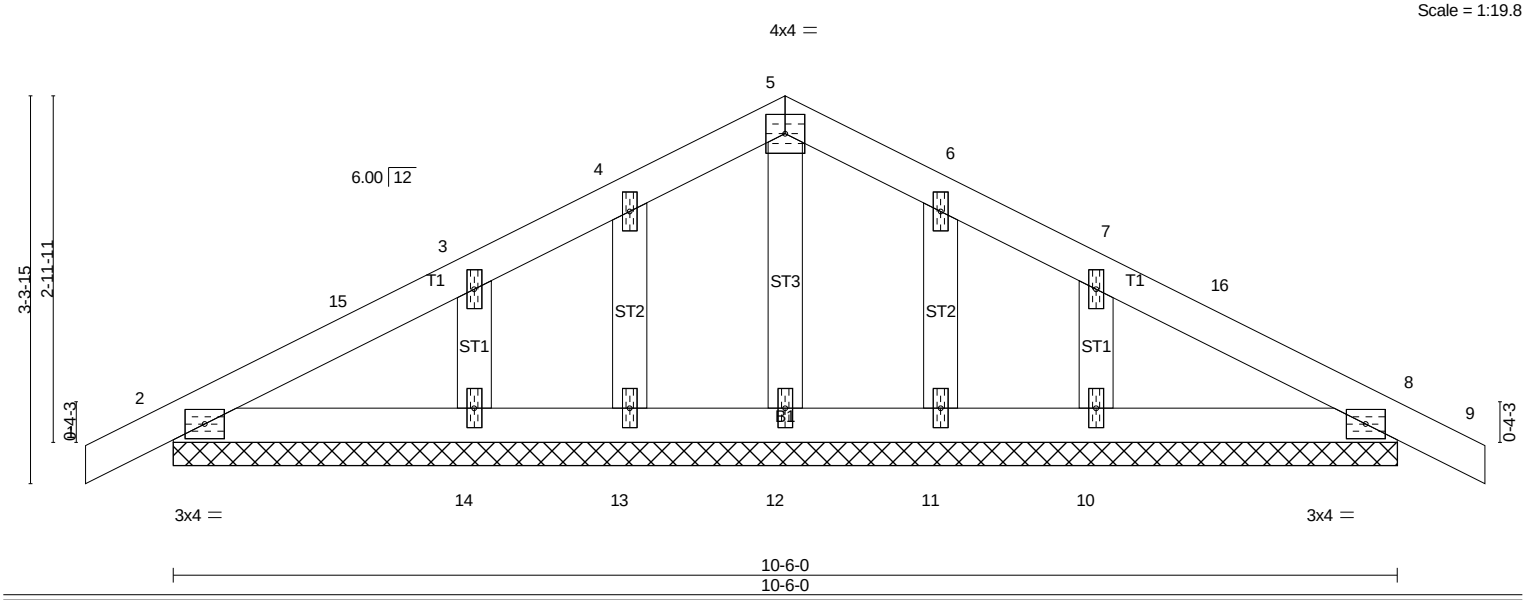
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	GE08	Common Supported Gable	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:54 2019 Page 1

ID:t9rACx?uLBlNQU_rXimwntyz1pO-DlgGuj5bB4KaueYxfH98Klsvife3Y8UnI5QeIlyyp8d

-0-9-0 / 0-9-0 — 5-3-0 / 5-3-0 — 10-6-0 / 5-3-0 — 11-3-0 / 0-9-0

Scale = 1:19.8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	8	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	9	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	8	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 44 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 DF No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-6-0.
(lb) - Max Horz 2=48(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-0 to 2-7-0, Exterior(2) 2-7-0 to 5-3-0, Corner(3) 5-3-0 to 8-10-3, Exterior(2) 8-10-3 to 11-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

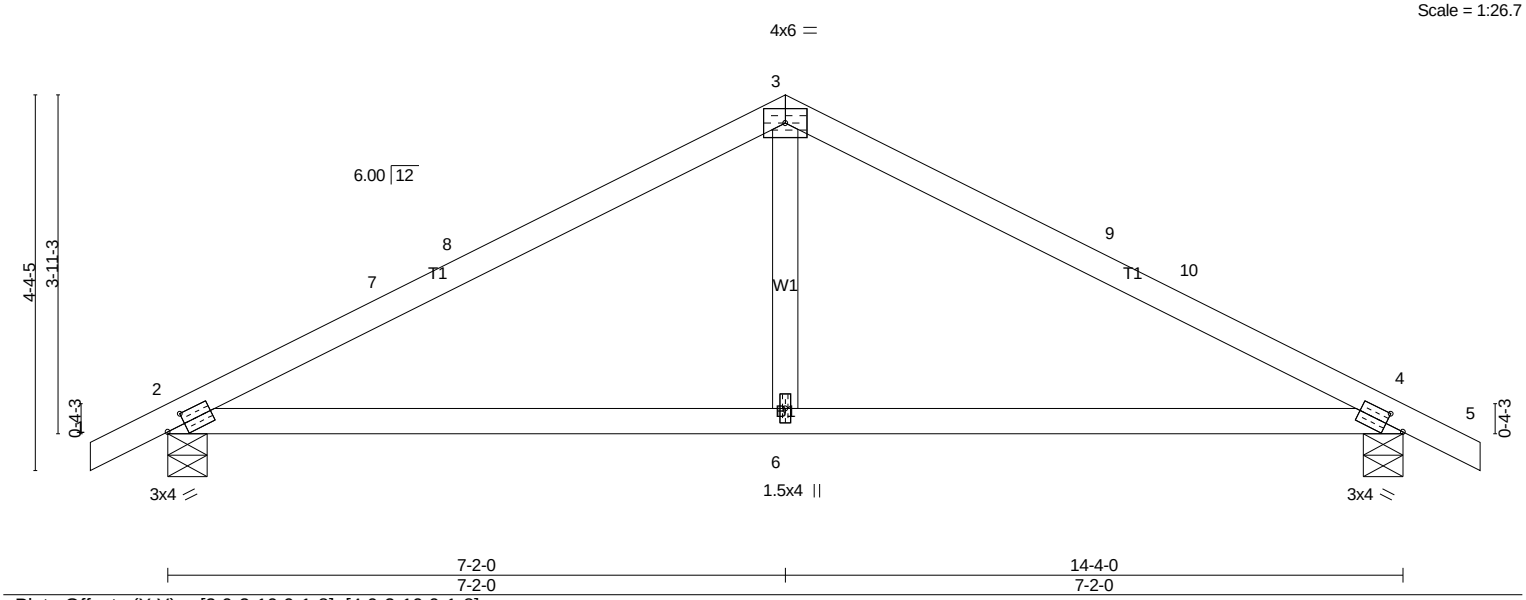
Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T01	Common	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:56 2019 Page 1

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-0-10-12 | 7-2-0 | 14-4-0 | 15-2-12
0-10-12 | 7-2-0 | 7-2-0 | 0-10-12

Scale = 1:26.7



7-2-0 | 14-4-0
7-2-0 | 7-2-0

Plate Offsets (X,Y)-- [2:0-2-10,0-1-8], [4:0-2-10,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.08	4-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.13	4-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	4	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 49 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=708/0-5-8 (min. 0-1-8), 4=708/0-5-8 (min. 0-1-8)
Max Horz 2=65(LC 12)
Max Uplift2=-126(LC 12), 4=-126(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-890/160, 7-8=-776/164, 3-8=-771/178, 3-9=-771/178, 9-10=-776/164, 4-10=-890/160
BOT CHORD 2-6=-57/683, 4-6=-57/683
WEBS 3-6=0/297

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 7-2-0, Exterior(2) 7-2-0 to 10-9-3, Interior(1) 10-9-3 to 15-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=126, 4=126.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T02	Monopitch	3	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:28:58 2019 Page 1

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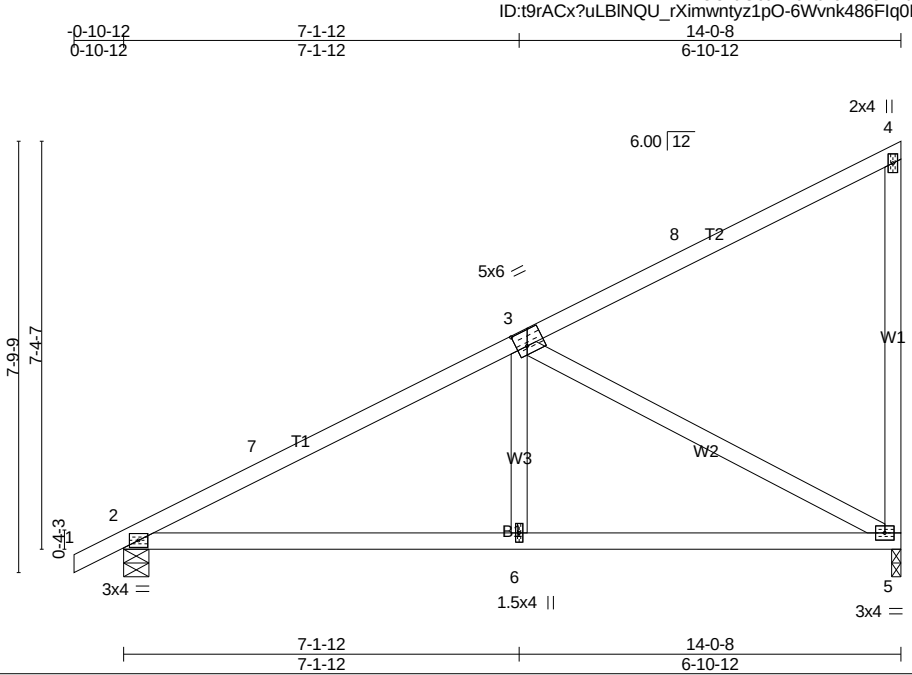


Plate Offsets (X,Y)-- [3:0-2-4,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.06	2-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.11	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.01	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 66 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=612/0-2-0 (min. 0-1-8), 2=702/0-5-8 (min. 0-1-8)
Max Horz 2=273(LC 9)
Max Uplift5=-165(LC 12), 2=-126(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-891/127, 3-7=-785/145
BOT CHORD 2-6=-245/696, 5-6=-248/690
WEBS 3-6=0/290, 3-5=-775/255

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 13-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=165, 2=126.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T03	Monopitch	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:29:01 2019 Page 1

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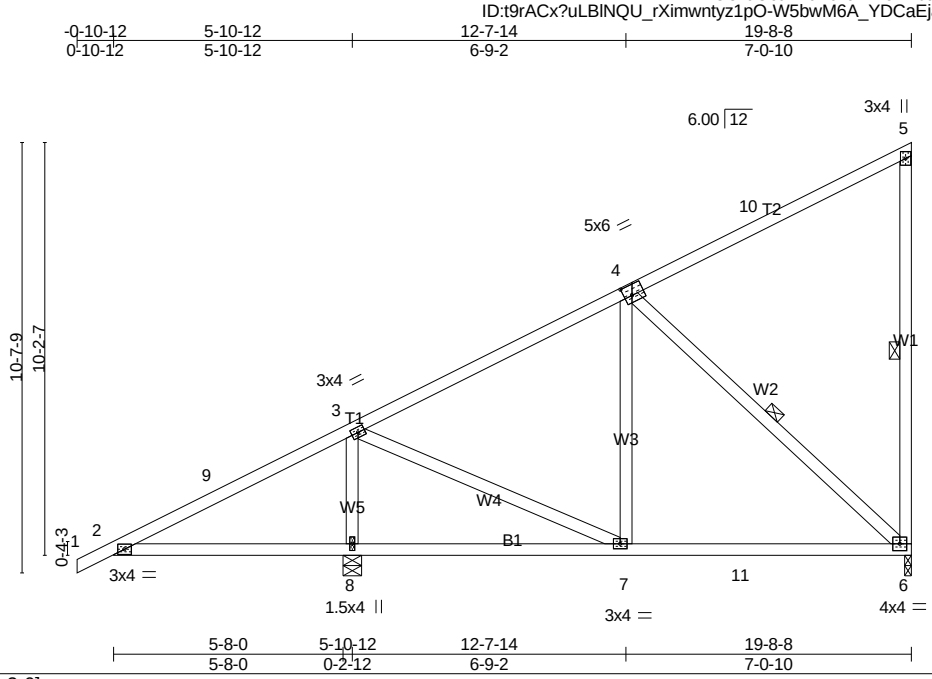


Plate Offsets (X,Y)-- [4:0-2-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.05	6-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 105 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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.
WEBS 1 Row at midpt 5-6, 4-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=470/0-2-0 (min. 0-1-8), 8=1357/0-5-8 (min. 0-1-8)
Max Horz 8=381(LC 9)
Max Uplift6=-165(LC 12), 8=-234(LC 12)
Max Grav 6=482(LC 19), 8=1357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-496/605, 3-9=-488/717, 3-4=-432/52
BOT CHORD 2-8=-540/508, 7-8=-651/495, 7-11=-179/303, 6-11=-179/303
WEBS 3-8=-1223/520, 3-7=-345/841, 4-6=-352/189

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=165, 8=234.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T03A	Monopitch	15	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:29:03 2019 Page 1

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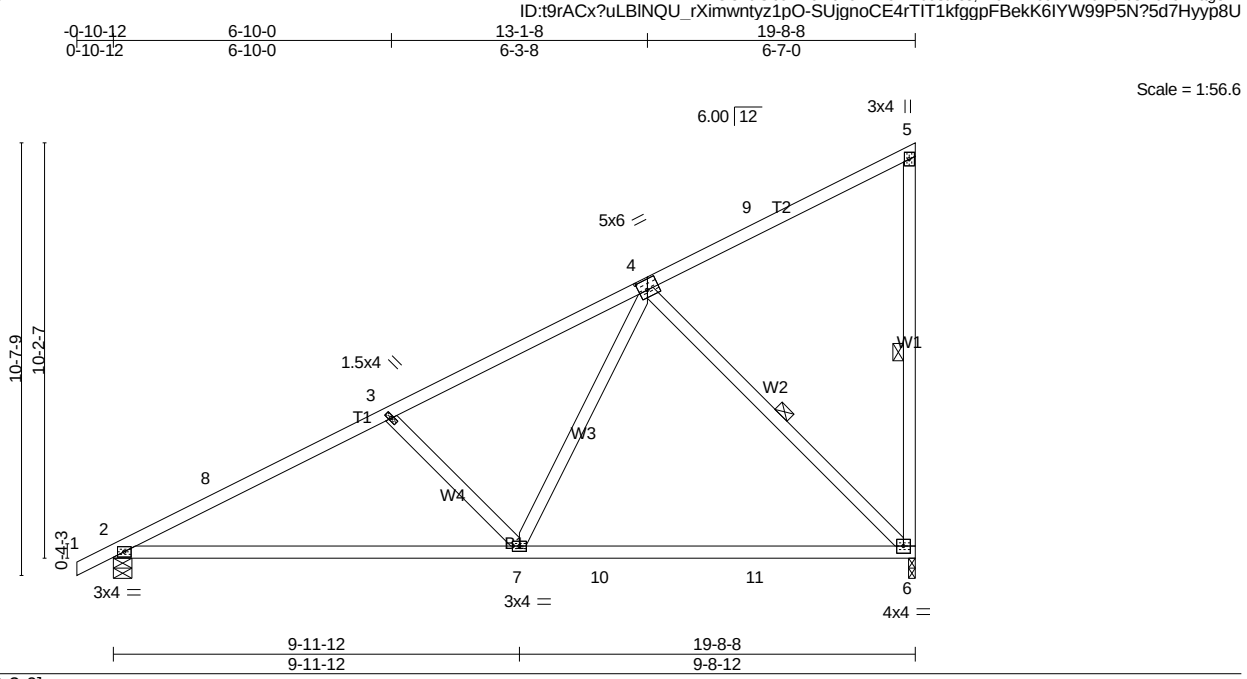


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.30	6-7	>783	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.43	6-7	>534	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 99 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6, 4-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=868/0-2-0 (min. 0-1-8), 2=956/0-5-8 (min. 0-1-8)
Max Horz 2=381(LC 9)
Max Uplift6=-234(LC 12), 2=-167(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-1405/214, 3-8=-1308/229, 3-4=-1054/204
BOT CHORD 2-7=-366/1159, 7-10=-250/603, 10-11=-250/603, 6-11=-250/603
WEBS 3-7=-448/230, 4-7=-84/587, 4-6=-849/293

NOTES-
1) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=234, 2=167.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

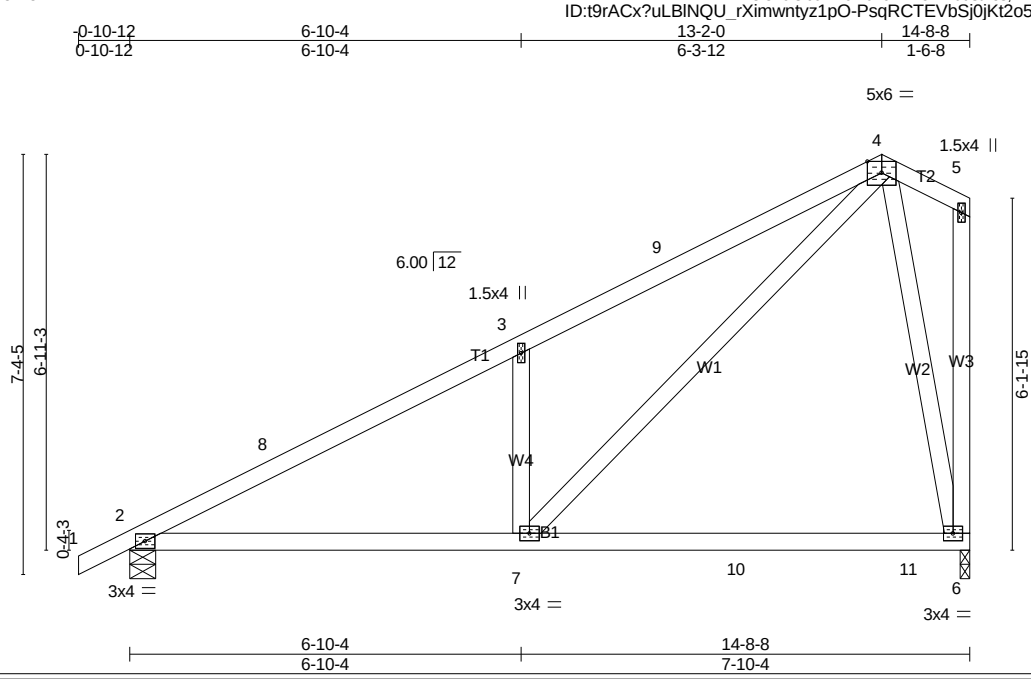
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T05	Common	3	1	Job Reference (optional)

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.11	6-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.17	6-7	>983	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	6	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 77 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=731/0-5-8 (min. 0-1-8), 6=642/0-2-0 (min. 0-1-8)
Max Horz 2=241(LC 11)
Max Uplift2=-137(LC 12), 6=-144(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-978/141, 3-8=-877/157, 3-9=-988/270, 4-9=-868/291
BOT CHORD 2-7=-263/777
WEBS 3-7=-522/274, 4-7=-290/935, 4-6=-615/314

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 13-2-0, Exterior(2) 13-2-0 to 14-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=137, 6=144.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T06	Common	16	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:29:08 2019 Page 1

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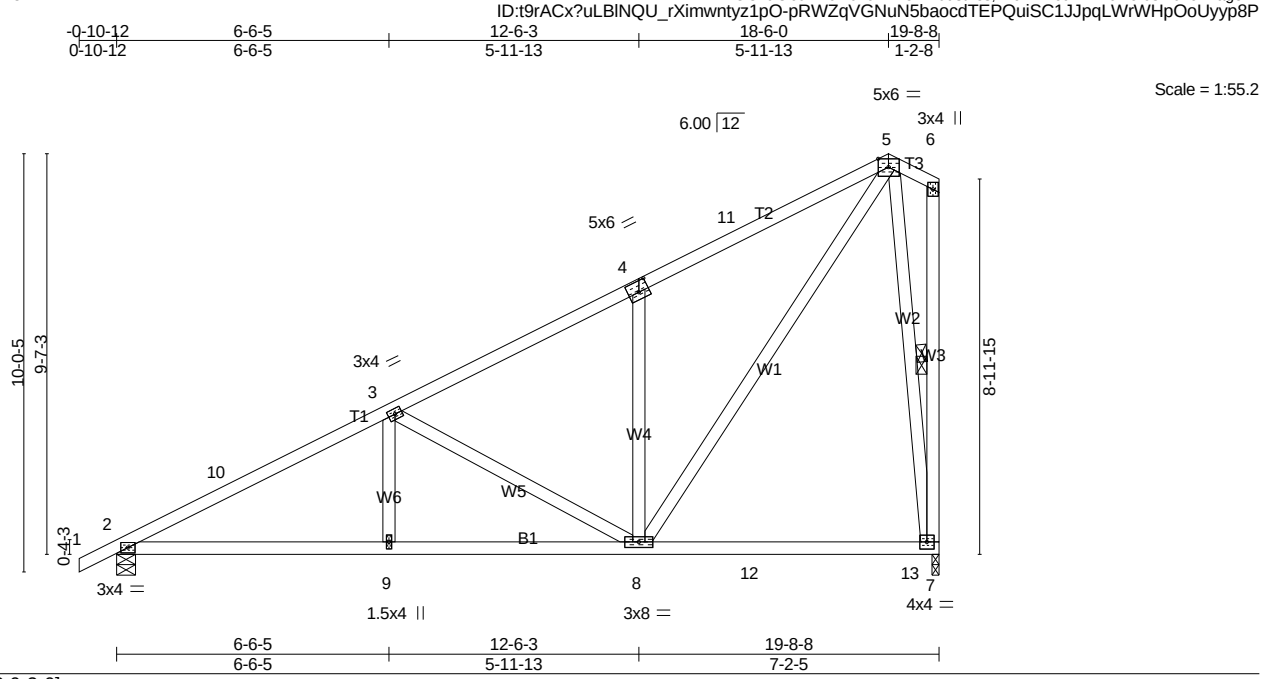


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.11	7-8	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.17	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	7	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 118 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=956/0-5-8 (min. 0-1-8), 7=868/0-2-0 (min. 0-1-8)
Max Horz 2=347(LC 9)
Max Uplift2=-172(LC 12), 7=-211(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1459/207, 3-10=-1359/222, 3-4=-841/185, 4-11=-851/273, 5-11=-741/286
BOT CHORD 2-9=-365/1204, 8-9=-365/1204
WEBS 3-8=-618/206, 4-8=-465/241, 5-8=-331/1037, 5-7=-858/424

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-12 to 2-8-7, Interior(1) 2-8-7 to 18-6-0, Exterior(2) 18-6-0 to 19-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 7=211.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

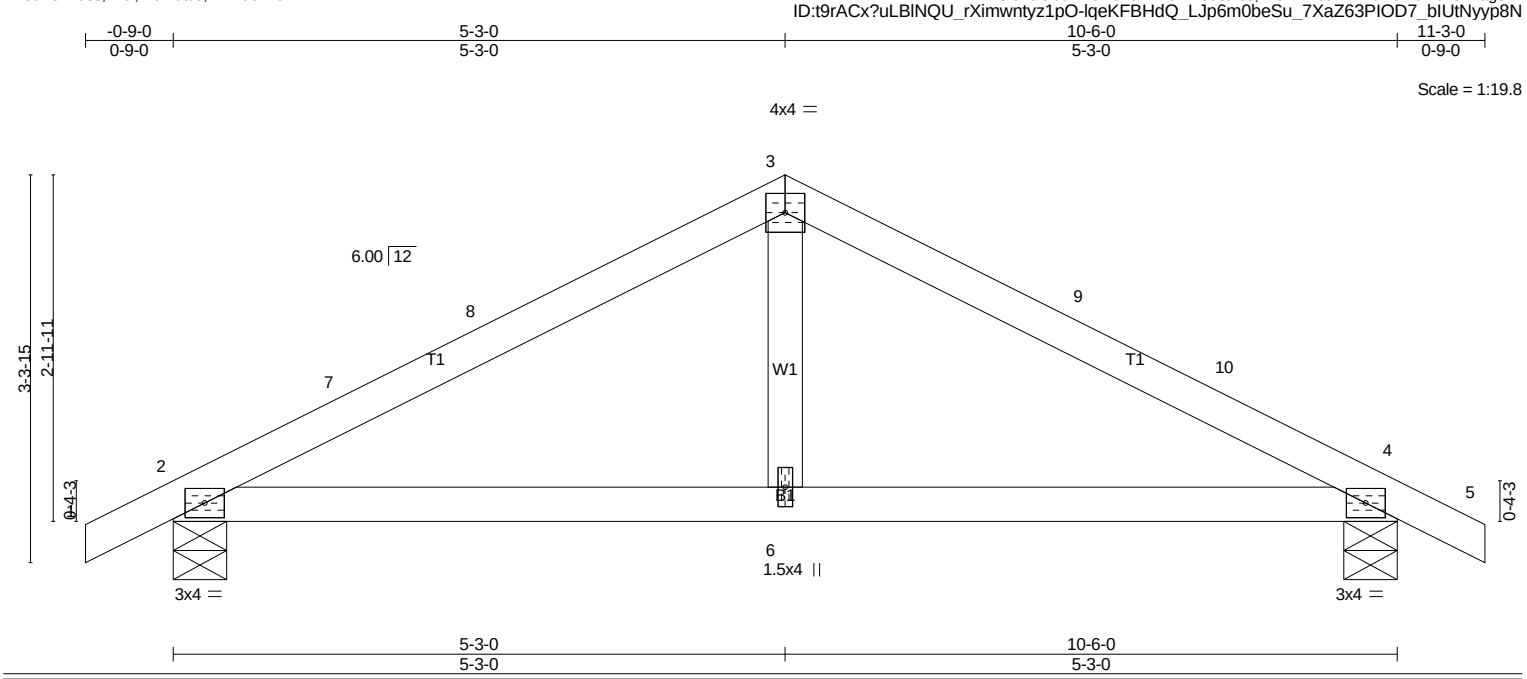
Established Basic Permit #
19-03671

Permit Number: 20-04896

Job	Truss	Truss Type	Qty	Ply	ENVISION NW
1903888A	T08	Common	1	1	Job Reference (optional)

Louws Truss, Inc., Ferndale, WA 98248 — 8.310 s Jun 26 2019 MiTek Industries, Inc. Fri Jul 12 10:29:10 2019 Page 1

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.02	2-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	4	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 36 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=524/0-5-8 (min. 0-1-8), 4=524/0-5-8 (min. 0-1-8)
Max Horz 2=48(LC 16)
Max Uplift2=-95(LC 12), 4=-95(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-630/144, 7-8=-542/148, 3-8=-539/159, 3-9=-539/159, 9-10=-542/148, 4-10=-630/145
BOT CHORD 2-6=-53/478, 4-6=-53/478

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-0 to 2-10-3, Interior(1) 2-10-3 to 5-3-0, Exterior(2) 5-3-0 to 8-10-3, Interior(1) 8-10-3 to 11-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Established Basic Permit #
19-03671

Permit Number: 20-04896