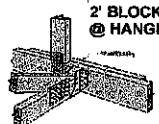
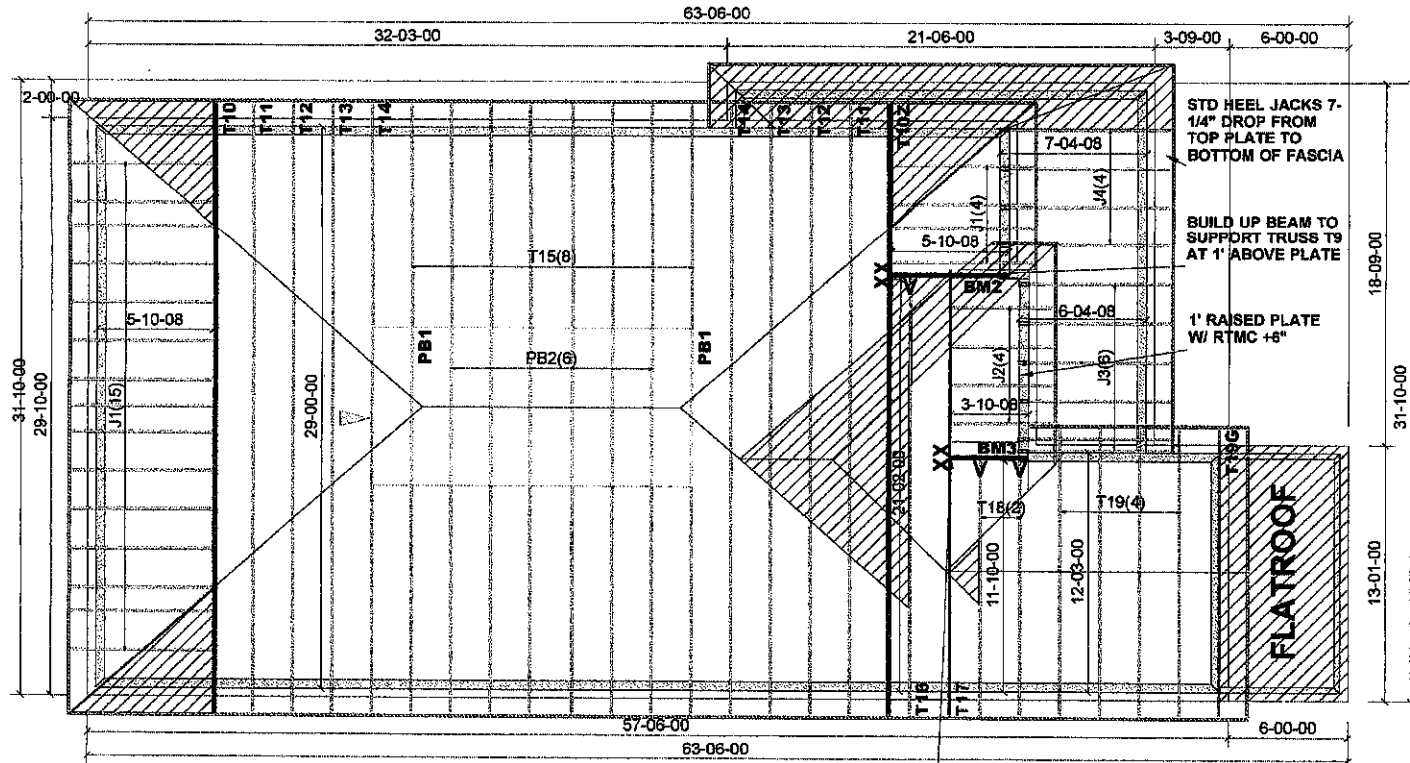


**RECEIVED**  
 JUN 13 2019  
 TOWN OF CALEDON  
 BUILDING SECTION  
 FILE NO.



2' BLOCK REQUIRED @ HANGER LOCATION

TRUSS PROFILES TO BE VERIFIED BY BUILDING DESIGNER

ALL CONVENTIONAL ROOF FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"x4"SPF@24"O.C. WITH 2"x4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT. POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

TRUSSES DESIGNED CONFORM WITH: ONTARIO BUILDING CODE (2012) OCCUPANCY: RESIDENTIAL | PART: 9

**DESIGN LOADS:**  
 CITY: CALEDON  
 G.S.L. = 37.6 psf  
 TC DL = 6 psf  
 BC LL = 10.50 psf  
 BC DL = 7.00 psf

**NOTES:**  
 FIN. OH.: 12"  
 HEEL TYPE: R.T.M. CANT.  
 EXT. WALLS: 2X6  
 CLAD. TYPE 1: BRICK/5"  
 CLAD. TYPE 2: SIDING/0"  
 FSC SIZE: 2X6  
 SHEATHING: ASPHALT SHINGLE

IF DESIGNED COMMERCIAL, REFERE TO SEALED TRUSS DOCS FOR UPLIFT DESIGN

**HARDWARE:**  
 LJS26DS (V) 3pcs  
 HGUS26-2 (XX) 2pcs

CONV FRM BY OTHERS

T- 180737

**COMMENTS:**  
 BM2 & BM3: 2-2"x10" SPF #2



Job Track: **50120**  
 Plan Log: **200170**  
 Layout ID: **400368**

Builder / Location:  
**Greenpark / Caledon**

Project: **Lamberts Lane Home Corp.**

Date: 2019-02-01 Designer: Brian

Model / Elevation:  
**Preston 2 / Elev. 2**

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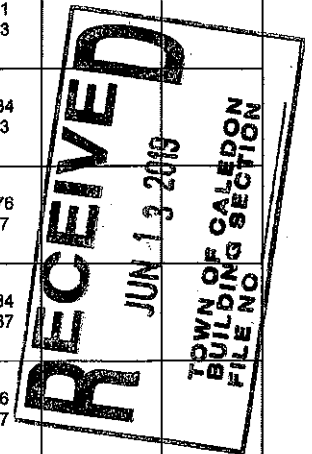
# DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: Greenpark  
 Project: Lamberts Lane Home Corp.  
 Location: Caledon  
 Model: Preston 2  
 Lot #:   
 Elevation: 2

Job Track: 50120  
 PlanLog: 200170  
 Layout ID: 400368  
 Ref #  
 Page: 1 of 2  
 Date: 02-01-2019  
 Designer: Brian Faneca  
 Sales Rep: Mario DiCano

## Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T10 Hip Girder	9/12	29-00-00	5-03-13	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	302.55 190.00		
	1 2-ply	T10Z Hip Girder	9/12	29-00-00	5-03-13	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	302.55 190.00		
	2	T11 Hip	9/12	29-00-00	6-07-13	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	270.3 168.00		
	2	T12 Hip	9/12	29-00-00	7-11-13	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	282.63 181.33		
	2	T13 Hip	9/12	29-00-00	9-03-13	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	286.36 185.00		
	2	T14 Hip	9/12	29-00-00	10-07-13	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	293.97 186.00		
	8	T15 Piggyback Base	9/12	29-00-00	9-03-13	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	1145.45 740.00		
	1	T16 Hip	9/12	21-03-00	7-05-02	2 x 4	1-03-08	1-06-04 3-04-00	96.61 61.33		
	1	T17 Hip Girder	9/12	21-08-00	5-11-02	2 x 4 2 x 6	1-03-08	1-06-04 2-00-04	120.34 78.83		
	2	T18 Common	9/12	11-10-00	6-01-06	2 x 4	1-03-08	1-10-00 1-06-04	107.76 72.67		
	4	T19 Common	9/12	12-03-00	6-01-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	225.84 150.67		
	1	T19G GABLE	9/12	12-03-00	6-01-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	56.56 38.67		
	2	PB1 Piggyback	9/12	8-02-08	2-08-00	2 x 4			44.77 29.33		
	6	PB2 Piggyback	9/12	8-02-08	3-00-15	2 x 4			117.05 76.00		



# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: Greenpark  
 Project: Lamberts Lane Home Corp.  
 Location: Caledon  
 Model: Preston 2  
 Lot #:   
 Elevation: 2

Job Track: 50120  
 PlanLog: 200170  
 Layout ID: 400368  
 Ref #  
 Page: 2 of 2  
 Date: 02-01-2019  
 Designer: Brian Faneca  
 Sales Rep: Mario DiCano

## Roof Trusses

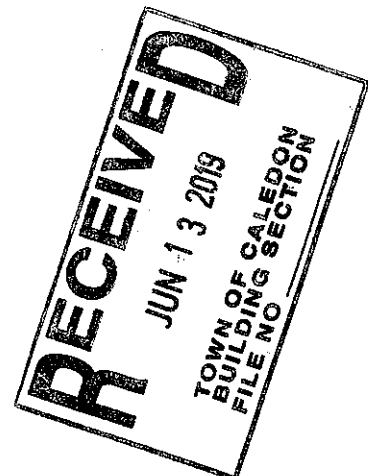
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	19	J1 Jack-Open	8/12	5-10-08	5-03-13	2 x 4	1-03-08	1-04-13 5-03-13	369 221.67		
	4	J2 Jack-Open	9/12	3-10-08	4-11-02	2 x 4	1-03-08	2-00-04 4-11-02	62.93 40.67		
	6	J3 Jack-Open	4/12	6-04-08	2-10-06	2 x 4	1-03-08	3-15 2-05-07	99.57 64.00		
	4	J4 Jack-Open	4/12	7-04-00	3-02-03	2 x 4	1-03-08	3-15 2-09-04	83.86 54.00		

TOTAL # TRUSS= 70      TOTAL BFT OF ALL TRUSSES= 2728.17      BFT.      TOTAL WEIGHT OF ALL TRSSES 4268.09      LBS

## HARDWARE

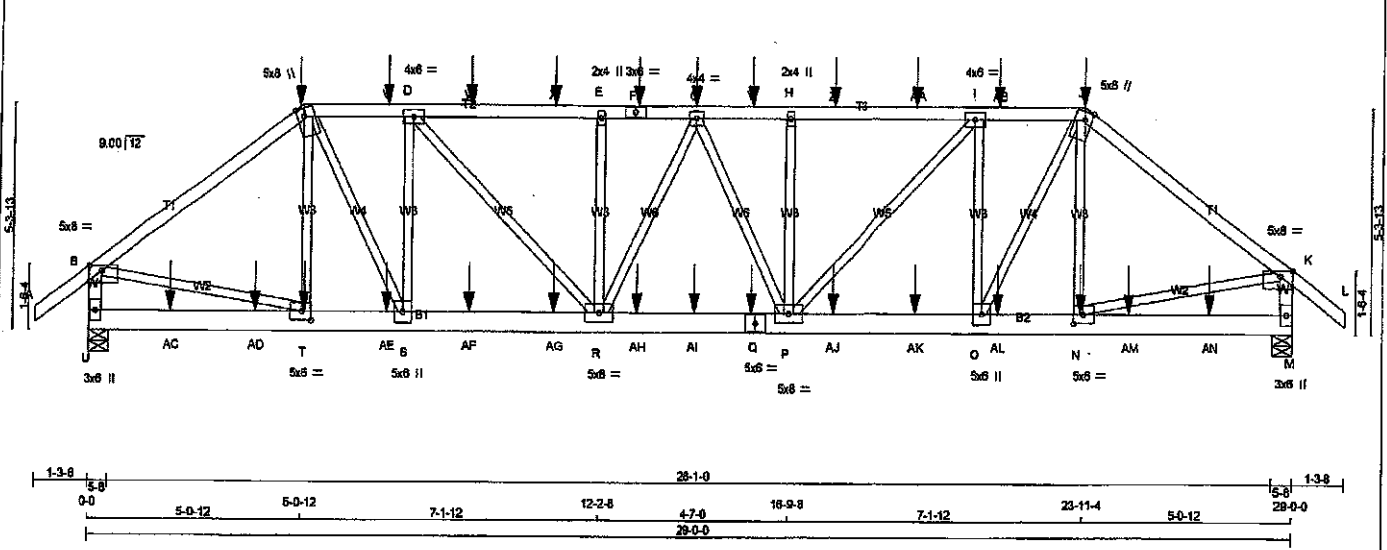
QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
3	Hardware	LJS26DS	

TOTAL NUMBER OF ITEMS= 5



JOB NAME <b>200170-400368</b>	TRUSS NAME <b>T10</b>	QUANTITY <b>1</b>	PLY <b>2</b>	JOB DESC. <b>Prestan 2</b>	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitak Industries, Inc. Wed Feb 6 08:01:19 2019 Page 1  
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 Scale = 1:50.0



TOTAL WEIGHT = 2 X 151 = 303 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - J	2x4	DRY	No.2	SPF
J - L	2x4	DRY	No.2	SPF
U - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
U - Q	2x6	DRY	2100F 1.8E	SPF
Q - M	2x6	DRY	2100F 1.8E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY, SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122'X3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
C-F	12	SIDE(61.0)
F-J	12	SIDE(61.0)
J-L	12	SIDE(61.0)
U-B	12	TOP
M-K	12	TOP
BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS		
U-Q	2	SIDE(197.8)
Q-M	2	SIDE(197.8)
WEBS : (0.122'X3") SPIRAL NAILS		
T-C	6	SIDE(57.8)
N-J	6	SIDE(57.8)
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.  
 GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.  
 SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	5.0	8.0	1.50 3.50
C	TTW+m	MT20	5.0	8.0	Edge 2.00
D	TMW+I	MT20	4.0	6.0	
E	TMW+w	MT20	2.0	4.0	
F	TS-I	MT20	3.0	6.0	
G	TMW+I	MT20	4.0	4.0	
H	TMW+w	MT20	2.0	4.0	
I	TMW+I	MT20	4.0	8.0	
J	TTW+m	MT20	5.0	8.0	Edge 2.00
K	TMW+p	MT20	5.0	8.0	1.50 3.50
M	BMW+I	MT20	3.0	6.0	
N	BMW+I	MT20	5.0	6.0	2.50 2.75
O	BMW+I	MT20	5.0	8.0	
P	BMW+I	MT20	5.0	8.0	
Q	BS-I	MT20	5.0	6.0	
R	BMW+I	MT20	5.0	8.0	
S	BMW+I	MT20	5.0	8.0	

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	4319	4318	0	0
U DOWN	0	0	5-8	5-8
M UP	0	0	5-8	5-8

**UNFACTORED REACTIONS**

1ST LCASE	MAX	MIN	COMPONENT REACTIONS	WIND	DEAD	SOIL
JT COMBINED	3214	1814 / 0	610 / 0	0 / 0	0 / 0	790 / 0
U	3214	1814 / 0	610 / 0	0 / 0	0 / 0	791 / 0
M	3214	1814 / 0	610 / 0	0 / 0	0 / 0	791 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, M

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.56 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	UNBRAC	WEBS MAX. FACTORED FORCE (LBS)	CS1 (LC)
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00	T-C -453 / 113
B-C	-4687 / 0	-102.1	-102.1	0.43 (1)	4.02	C-S 0 / 2846
C-V	-5113 / 0	-102.1	-102.1	0.30 (1)	3.99	S-D -2121 / 0
V-D	-5113 / 0	-102.1	-102.1	0.30 (1)	3.99	O-I -2120 / 0
D-W	-6362 / 0	-102.1	-102.1	0.40 (1)	3.56	O-J 0 / 2846
W-X	-6362 / 0	-102.1	-102.1	0.40 (1)	3.56	N-J -453 / 113
X-E	-6362 / 0	-102.1	-102.1	0.40 (1)	3.56	B-T 0 / 3991
E-F	-6362 / 0	-102.1	-102.1	0.34 (1)	3.56	N-K 0 / 3991
F-G	-6362 / 0	-102.1	-102.1	0.34 (1)	3.56	P-I 0 / 1834
G-Y	-6362 / 0	-102.1	-102.1	0.34 (1)	3.56	P-R 0 / 1835
Y-H	-6362 / 0	-102.1	-102.1	0.34 (1)	3.56	P-H -799 / 0
H-Z	-6362 / 0	-102.1	-102.1	0.40 (1)	3.56	R-E -805 / 0
Z-AA	-6362 / 0	-102.1	-102.1	0.40 (1)	3.56	R-G -805 / 0
AA-I	-6362 / 0	-102.1	-102.1	0.40 (1)	3.56	G-I -805 / 0
I-AB	-5112 / 0	-102.1	-102.1	0.30 (1)	3.99	
AB-J	-5112 / 0	-102.1	-102.1	0.30 (1)	3.99	
J-K	-4686 / 0	-102.1	-102.1	0.43 (1)	4.02	
K-L	0 / 42	-102.1	-102.1	0.08 (1)	10.00	
U-B	-4178 / 0	0.0	0.0	0.24 (1)	5.83	
M-K	-4177 / 0	0.0	0.0	0.24 (1)	5.83	
U-AC	0 / 0	-38.5	-38.5	0.05 (3)	10.00	
AC-AD	0 / 0	-38.5	-38.5	0.05 (3)	10.00	
AD-T	0 / 0	-38.5	-38.5	0.05 (3)	10.00	
T-AE	0 / 3893	-38.5	-38.5	0.13 (1)	10.00	
AE-S	0 / 3893	-38.5	-38.5	0.13 (1)	10.00	
S-AF	0 / 5114	-38.5	-38.5	0.17 (1)	10.00	
AF-AG	0 / 5114	-38.5	-38.5	0.17 (1)	10.00	
AG-R	0 / 5114	-38.5	-38.5	0.17 (1)	10.00	
R-AH	0 / 6443	-38.5	-38.5	0.22 (1)	10.00	
AH-AI	0 / 6443	-38.5	-38.5	0.22 (1)	10.00	
AI-Q	0 / 6443	-38.5	-38.5	0.22 (1)	10.00	
Q-P	0 / 6443	-38.5	-38.5	0.22 (1)	10.00	
P-AJ	0 / 5113	-38.5	-38.5	0.17 (1)	10.00	
AJ-AK	0 / 5113	-38.5	-38.5	0.17 (1)	10.00	
AK-O	0 / 5113	-38.5	-38.5	0.17 (1)	10.00	
O-AL	0 / 3862	-38.5	-38.5	0.13 (1)	10.00	
AL-N	0 / 3862	-38.5	-38.5	0.13 (1)	10.00	
N-AM	0 / 0	-38.5	-38.5	0.05 (3)	10.00	
AM-AN	0 / 0	-38.5	-38.5	0.05 (3)	10.00	

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH. LL	= 28.0 PSF
DL	= 8.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 52.5 PSF

**SPACING = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

\*\*\* NON STANDARD GIRDER \*\*\*  
 ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, OBC 2012  
 - CSA 086-09, CSA 086-14  
 - TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(LL) = L/ 989 (0.13")  
 ALLOWABLE DEFL.(TL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(TL) = L/ 989 (0.22")

CSI: TC=0.431/0.0 (B-C-I), BC=0.221/0.0 (P-R-I),  
 WB=0.491/0.0 (B-T-I), SS=0.191/0.0 (H-I-I)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
 COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

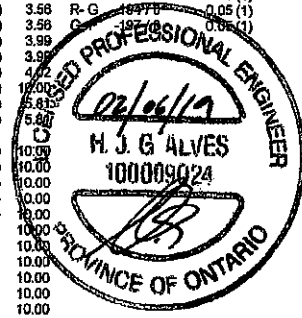
**NAIL VALUES**

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354	1667 789 1937 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (N) (INPUT = 0.90)  
 JSI METAL= 0.62 (Q) (INPUT = 1.00)



DWG NO. TAMT1902766  
 STRUCTURAL COMPONENT ONLY

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
T	BMV/MH	MT20	5.0	6.0	2.50 2.75
U	BMV1+p	MT20	3.0	6.0	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

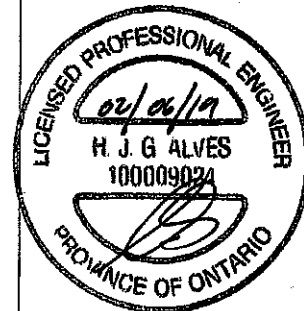
**LOADING**

TOTAL LOAD CASES: (4)

CHORDS		WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	LC1 MAX. CSI (LC)	MAX. UNBRAC	MEMB. MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO	
AN-M	0/0	-38.5 -38.5	0.05 (3)		10.00	

**FACTORED CONCENTRATED LOADS (LBS)**

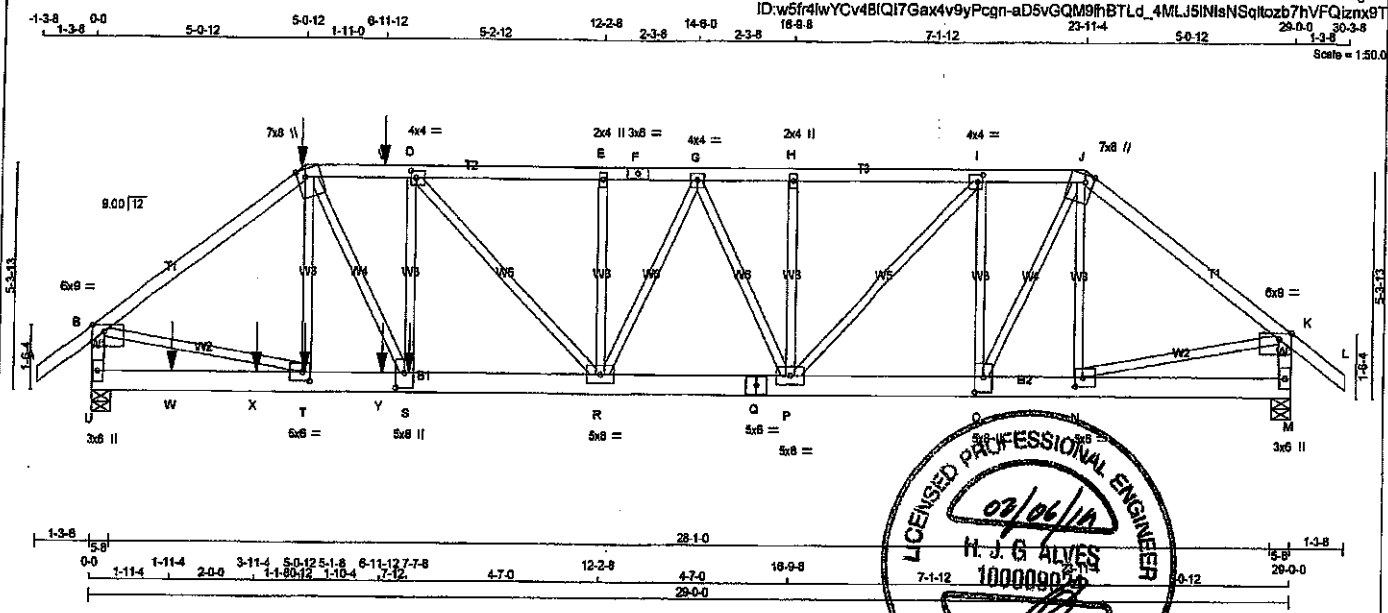
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-0-12		-75	-84	FRONT	VERT	DEAD		
C	5-0-12		-205	-205	FRONT	VERT	TOTAL		
C	5-0-12		-410	-410	FRONT	VERT	SNOW		
F	13-1-8		-188	-198	FRONT	VERT	TOTAL		
G	14-6-0		-188	-188	FRONT	VERT	TOTAL		
J	23-11-4		-75	-84	FRONT	VERT	DEAD		
J	23-11-4		-205	-205	FRONT	VERT	TOTAL		
J	23-11-4		-410	-410	FRONT	VERT	SNOW		
N	23-10-8		-75	-95	FRONT	VERT	TOTAL		
Q	15-10-8		-75	-95	FRONT	VERT	TOTAL		
T	5-1-8		-75	-95	FRONT	VERT	TOTAL		
V	7-1-8		-188	-188	FRONT	VERT	TOTAL		
W	9-1-8		-188	-188	FRONT	VERT	TOTAL		
X	11-1-8		-188	-188	FRONT	VERT	TOTAL		
Y	13-1-8		-188	-188	FRONT	VERT	TOTAL		
Z	17-10-8		-188	-188	FRONT	VERT	TOTAL		
AA	19-10-8		-188	-188	FRONT	VERT	TOTAL		
AB	21-10-8		-188	-188	FRONT	VERT	TOTAL		
AC	1-11-4		-75	-95	FRONT	VERT	TOTAL		
AD	3-11-4		-75	-95	FRONT	VERT	TOTAL		
AE	7-1-8		-75	-95	FRONT	VERT	TOTAL		
AF	9-1-8		-75	-95	FRONT	VERT	TOTAL		
AG	11-1-8		-75	-95	FRONT	VERT	TOTAL		
AH	13-1-8		-75	-95	FRONT	VERT	TOTAL		
AI	14-6-0		-75	-95	FRONT	VERT	TOTAL		
AJ	17-10-8		-75	-95	FRONT	VERT	TOTAL		
AK	19-10-8		-75	-95	FRONT	VERT	TOTAL		
AL	21-10-8		-75	-95	FRONT	VERT	TOTAL		
AM	25-0-12		-75	-95	FRONT	VERT	TOTAL		
AN	27-0-12		-75	-95	FRONT	VERT	TOTAL		



DWG NO. TAM 7192766  
 STRUCTURAL COMPONENT ONLY 2/2

JOB NAME <b>200170-400368</b>	TRUSS NAME <b>T10Z</b>	QUANTITY <b>1</b>	PLY <b>2</b>	JOB DESC. <b>Preston 2</b>	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington Version 8.230 S Nov 17 2018 MtTek Industries, Inc. Wed Feb 6 05:01:20 2019 Page 1  
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 29-0-0 30-3-8 Scale = 1:50.0



**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - J	2x4	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
U - B	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
U - Q	2x6	DRY 2100F 1.8E	SPF
Q - M	2x6	DRY 2100F 1.8E	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C	1	12	SIDE(61.0)
C-F	1	12	SIDE(61.0)
F-J	1	12	TOP
J-L	1	12	TOP
U-B	1	12	TOP
M-K	1	12	TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

U-Q	2	12	SIDE(197.8)
Q-M	2	12	TOP

WEBS : (0.122"x3") SPIRAL NAILS

T-C	1	6	SIDE(7.5)
D-S	1	6	SIDE(498.6)
2k3	1	5	
I-O	1	5	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	6.0	8.0	Edge 3.50
C	TTWV+m	MT20	7.0	8.0	Edge 2.50
D	TMWV-l	MT20	4.0	4.0	2.00 1.50
E	TMWV+w	MT20	2.0	4.0	
F	TS-l	MT20	3.0	6.0	
G	TMWV-t	MT20	4.0	4.0	
H	TMWV+v	MT20	2.0	4.0	
I	TMWV-l	MT20	4.0	4.0	2.00 1.50
J	TTWV+m	MT20	7.0	8.0	Edge 2.50
K	TMWV-p	MT20	6.0	8.0	Edge 3.50
M	BMV1+p	MT20	3.0	6.0	
N	BMWV-l	MT20	5.0	6.0	2.50 2.25
O	BMWV+t	MT20	5.0	8.0	4.25 2.50
P	BMWVW-l	MT20	5.0	8.0	
Q	BS-l	MT20	5.0	6.0	
R	BMWVW-l	MT20	5.0	8.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

**BEARINGS**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
U	5128	0	5128	0	0	5-8	5-8
M	3088	0	3088	0	0	5-8	5-8

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX. COMBINED	MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	3813	2185 / 0	718 / 0	0 / 0	0 / 0	931 / 0	0 / 0	0 / 0
M	2301	1315 / 0	428 / 0	0 / 0	0 / 0	568 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, M

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.64 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

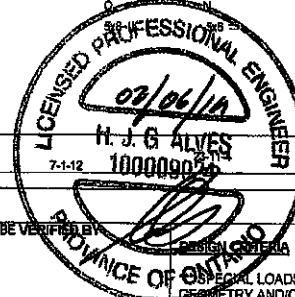
TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRAC LENGTH	WEBS	
						MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO							
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00	T-C	-500 / 113 0.10 (1)
B-C	-3942 / 0	-102.1	-102.1	0.51 (1)	3.84	C-S	0 / 3821 0.41 (1)
C-V	-8267 / 0	-102.1	-102.1	0.24 (1)	3.72	S-D	-309 / 10 0.06 (1)
V-D	-8267 / 0	-102.1	-102.1	0.24 (1)	3.72	C-I	-1932 / 0 0.39 (1)
D-E	-8064 / 0	-102.1	-102.1	0.21 (1)	3.78	O-J	0 / 2320 0.28 (1)
E-F	-8064 / 0	-102.1	-102.1	0.27 (1)	3.81	N-J	-395 / 0 0.08 (1)
F-G	-8064 / 0	-102.1	-102.1	0.21 (1)	3.81	B-T	0 / 4883 0.60 (1)
G-H	-5185 / 0	-102.1	-102.1	0.19 (1)	4.11	N-K	0 / 2781 0.34 (1)
H-I	-5185 / 0	-102.1	-102.1	0.23 (1)	4.09	P-I	0 / 2101 0.28 (1)
I-J	-3788 / 0	-102.1	-102.1	0.15 (1)	4.74	D-R	-300 / 0 0.12 (1)
J-K	-3581 / 0	-102.1	-102.1	0.34 (1)	4.75	P-H	-400 / 0 0.08 (1)
K-L	0 / 42	-102.1	-102.1	0.08 (1)	10.00	R-E	-393 / 0 0.05 (1)
U-B	-4984 / 0	0.0	0.0	0.28 (1)	5.38	R-G	0 / 939 0.12 (1)
M-K	-3014 / 0	0.0	0.0	0.17 (1)	8.85	G-P	-1108 / 0 0.28 (1)

U-W	0 / 0	-38.5	-38.5	0.05 (3)	10.00		
W-X	0 / 0	-38.5	-38.5	0.05 (3)	10.00		
X-T	0 / 0	-38.5	-38.5	0.05 (3)	10.00		
T-Y	0 / 4735	-38.5	-38.5	0.17 (1)	10.00		
Y-S	0 / 4735	-38.5	-38.5	0.17 (1)	10.00		
S-R	0 / 8288	-38.5	-38.5	0.22 (1)	10.00		
R-Q	0 / 5660	-38.5	-38.5	0.17 (1)	10.00		
Q-P	0 / 5660	-38.5	-38.5	0.17 (1)	10.00		
P-O	0 / 3788	-38.5	-38.5	0.12 (1)	10.00		
O-N	0 / 2891	-38.5	-38.5	0.09 (1)	10.00		
N-M	0 / 0	-38.5	-38.5	0.02 (3)	10.00		

**FACTORED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-0-12	-75	-84		FRONT	VERT	DEAD		
C	5-0-12	-205	-205		BACK	VERT	TOTAL		
C	5-0-12	-422	-422		FRONT	VERT	SNOW		
S	7-7-8	-2670	-2670		BACK	VERT	TOTAL		
T	5-1-8	-75	-95		BACK	VERT	TOTAL		
V	6-11-12	-198	-198		BACK	VERT	TOTAL		
W	1-11-4	-75	-95		BACK	VERT	TOTAL		
X	3-11-4	-75	-95		BACK	VERT	TOTAL		
Y	6-11-12	-75	-95		BACK	VERT	TOTAL		



DESIGNER'S ANALYSIS \*\*\*

GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

\*\*\* NON STANDARD GIRDER \*\*\*

ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.11")  
 ALLOWABLE DEFL.(TL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.51/1.00 (B-C-T), BC=0.22/1.00 (R-S-T), WB=0.60/1.00 (B-T-T), SS=0.14/1.00 (C-D-T)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN (PLU)	MAX MIN (PLU)
MT20	610	354	1667	788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (N) (INPUT = 0.90)  
 JSI METAL= 0.59 (T) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200170-400368	T10Z	1	2	Preston 2 TRUSS DESC.	

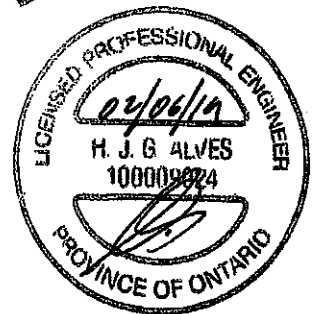
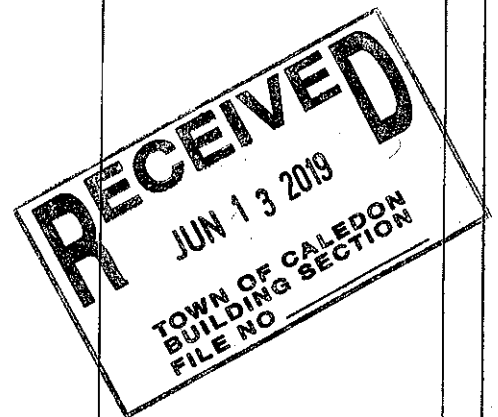
Tamarack Roof Truss, Burlington

Version 9.230 S Nov 17 2018 MiTek Industries, Inc. Wed Feb 8 08:01:20 2019 Page 2  
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**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
S	BMWw+h MT20	5.0	8.0	4.25	2.50
T	BMWw-l MT20	5.0	6.0	2.50	2.25
U	BMWt+p MT20	3.0	6.0		

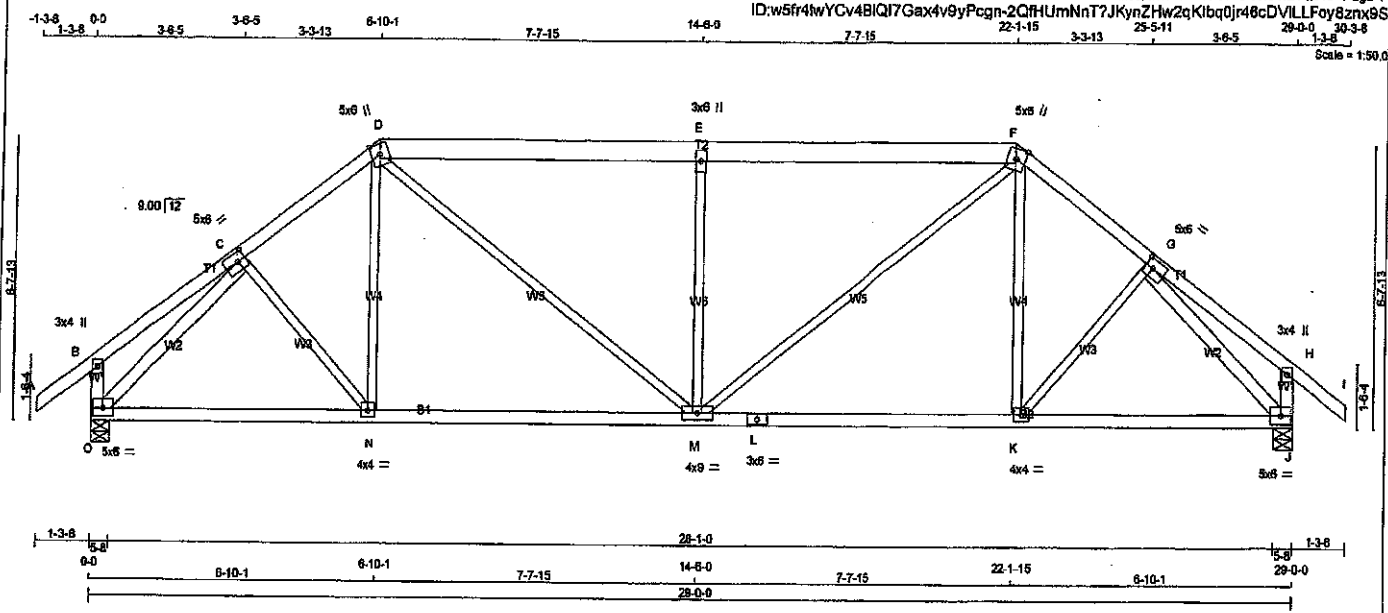
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.



DWG NO. TAM 1902767  
 STRUCTURAL  
 COMPONENTS 2/2

JOB NAME <b>200170-400368</b>	TRUSS NAME <b>T11</b>	QUANTITY <b>2</b>	PLY <b>1</b>	JOB DESC. <b>Preston 2</b>	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Wed Feb 6 08:01:21 2019 Page 1  
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TOTAL WEIGHT = 2 X 135 = 270 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x6	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
O - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
O - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF

ALL WEBS EXCEPT	SIZE	LUMBER	DESCR.
O - C	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
O	2180	0	2180	0	5-8	5-8
J	2180	0	2180	0	5-8	5-8

**UNFACTORED REACTIONS**

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERALIVE	WIND	DEAD	SOIL
O	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
J	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 29.0 PSF  
 DL = 8.0 PSF

BOT CH. LL = 10.8 PSF  
 DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, OBC 2012  
 - CSA 088-09, CSA 088-14  
 - TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-1	MT20	5.0	6.0	2.50	2.25
D	TTVW+m	MT20	5.0	6.0	Edge	
E	TMV+w	MT20	3.0	6.0		
F	TTVW+rn	MT20	5.0	6.0	Edge	
G	TMVW-1	MT20	5.0	6.0	2.50	2.25
H	TMV+p	MT20	3.0	4.0		
J	BMVW-1	MT20	5.0	6.0		
K	BMVW-1	MT20	4.0	4.0		
L	BS-1	MT20	3.0	6.0		
M	BMVW-1	MT20	4.0	9.0		
N	BMVW-1	MT20	4.0	4.0		
O	BMVW-1	MT20	5.0	6.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 4.40 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS				
	MAX. FACTORED FORCE (LBS)	FACTORED (PLF)	MAX. VERT. LOAD LC1 (LBS)	MAX. UNBRACED (LBS)	MEMB. FORCE (LBS)	MAX. FACTORED (LBS)	
FR-TO							
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	C-N	0 / 163	
B-C	0 / 22	-102.1 -102.1	0.17 (1)	10.00	N-D	0 / 279	
C-D	-2170 / 0	-102.1 -102.1	0.24 (1)	4.40	D-M	0 / 999	
D-E	-2493 / 0	-102.1 -102.1	0.53 (1)	4.60	M-E	-976 / 0	
E-F	-2493 / 0	-102.1 -102.1	0.53 (1)	4.60	M-F	0 / 999	
F-G	-2170 / 0	-102.1 -102.1	0.24 (1)	4.40	K-F	0 / 279	
G-H	0 / 22	-102.1 -102.1	0.17 (1)	10.00	K-G	0 / 163	
H-I	0 / 42	-102.1 -102.1	0.14 (1)	10.00	O-C	-2435 / 0	
O-B	-277 / 0	0.0	0.0	0.03 (1)	7.81	G-J	-2435 / 0
J-H	-277 / 0	0.0	0.0	0.03 (1)	7.81		
O-N	0 / 1636	-38.5	-38.5	0.59 (2)	10.00		
N-M	0 / 1721	-38.5	-38.5	0.59 (2)	10.00		
M-L	0 / 1721	-38.5	-38.5	0.59 (2)	10.00		
L-K	0 / 1721	-38.5	-38.5	0.59 (2)	10.00		
K-J	0 / 1636	-38.5	-38.5	0.59 (2)	10.00		

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
 ALLOWABLE DEFL.(TL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.53/1.00 (D-E-1), BC=0.59/1.00 (M-N-2), WB=0.71/1.00 (G-J-1), SSI=0.29/1.00 (E-F-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX	618	1867
MIN	354	798

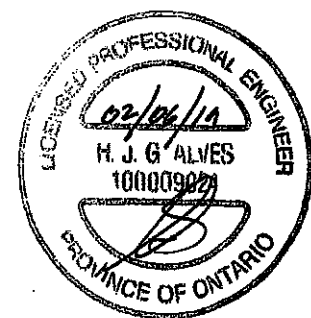
MT20

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.86 (O) (INPUT = 0.90)  
 JSI METAL= 0.60 (G) (INPUT = 1.00)

**RECEIVED**  
 JUN 13 2019  
 TOWN OF CALEDON  
 BUILDING SECTION  
 FILE NO.



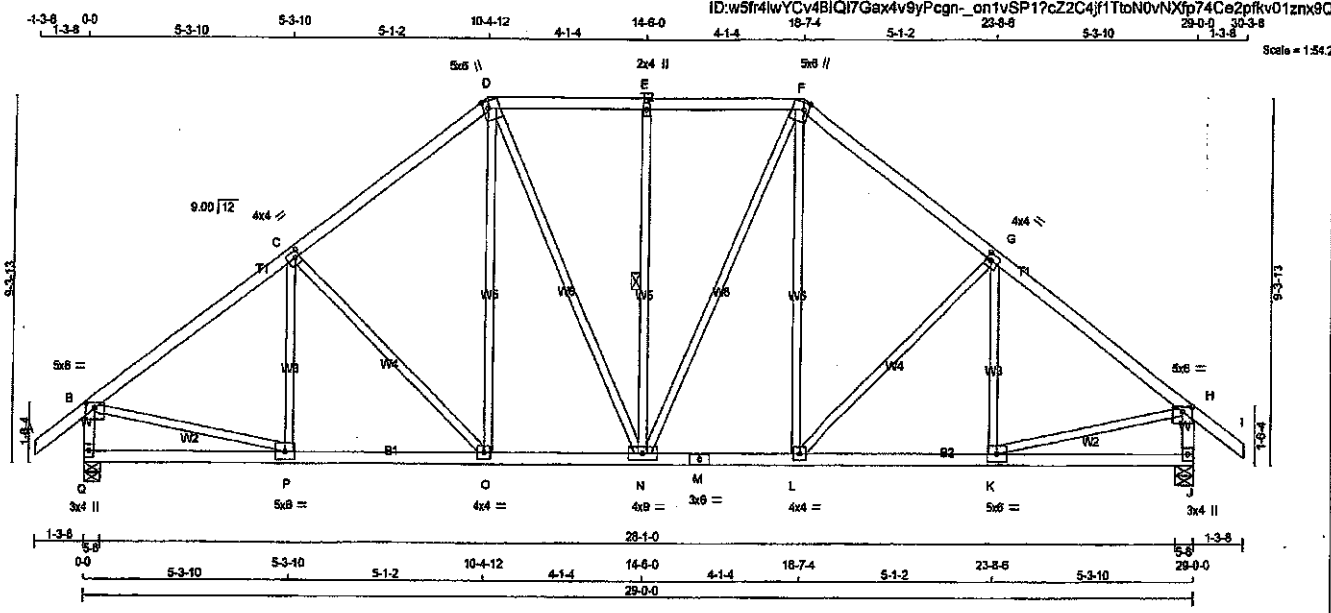
DRWG NO. TAM 1902768  
 STRUCTURAL COMPONENT ONLY





JOB NAME <b>200170-400368</b>	TRUSS NAME <b>T13</b>	QUANTITY <b>2</b>	PLY <b>1</b>	JOB DESC. <b>Preston 2</b>	DRWG NO.
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Tamarack Roof Truss, Burlington Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Wed Feb 8 08:01:23 2019 Page 1  
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 29-0-0 30-3-8 1-3-8 Scale = 1:54.2



**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
Q - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
Q - M	2x4	DRY No.2	SPF
M - J	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVV-p	MT20	5.0	6.0	1.50	3.00
C	TMVV-t	MT20	4.0	4.0	2.00	1.50
D	TTVV+m	MT20	5.0	6.0	2.25	1.50
E	TMVV-w	MT20	2.0	4.0		
F	TTVV+m	MT20	5.0	6.0	2.25	1.50
G	TMVV-t	MT20	4.0	4.0	2.00	1.50
H	TMVV-p	MT20	5.0	6.0	1.50	3.00
J	BMV1+p	MT20	3.0	4.0		
K	BMVV-t	MT20	5.0	6.0		
L	BMVV-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMVVW-t	MT20	4.0	9.0		
O	BMVV-t	MT20	4.0	4.0		
P	BMVV-t	MT20	5.0	6.0		
Q	BMV1+p	MT20	3.0	4.0		

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
Q	2180	0	2180	0	5-8	5-8
J	2180	0	2180	0	5-8	5-8

**UNFACTORED REACTIONS**

JT	1ST LOASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1620	822 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
J	1620	822 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, J

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

**LOADING**

TOTAL LOAD CASES: (4)

FR-TO	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
A-B	0 / 42	-102.1	-102.1	10.00
B-C	-2202 / 0	-102.1	-102.1	4.17
C-D	-1932 / 0	-102.1	-102.1	4.43
D-E	-1664 / 0	-102.1	-102.1	4.91
E-F	-1832 / 0	-102.1	-102.1	4.91
F-G	-1832 / 0	-102.1	-102.1	4.43
G-H	-2202 / 0	-102.1	-102.1	4.17
H-I	0 / 42	-102.1	-102.1	10.00
Q-B	-2096 / 0	0.0	0.0	5.85
J-H	-2096 / 0	0.0	0.0	5.85
Q-P	0 / 0	-38.5	-38.5	10.00
P-O	0 / 1791	-38.5	-38.5	10.00
O-N	0 / 1518	-38.5	-38.5	10.00
N-M	0 / 1518	-38.5	-38.5	10.00
M-L	0 / 1518	-38.5	-38.5	10.00
L-K	0 / 1518	-38.5	-38.5	10.00
K-J	0 / 0	-38.5	-38.5	10.00

TOTAL WEIGHT = 2 X 143 = 286 LB

**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.0/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, OBC 2012  
 - CSA 088-09, CSA 088-14  
 - TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
 ALLOWABLE DEFL.(TL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.45/1.00 (B-C-1), BC=0.43/1.00 (O-P-2).  
 WB=0.41/1.00 (C-O-1), SS=0.21/1.00 (B-C-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

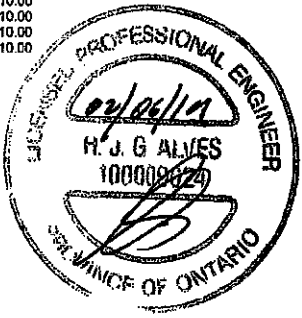
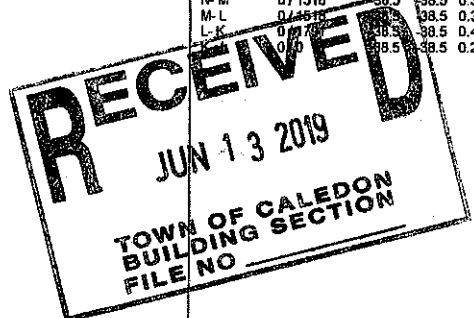
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

MAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION (PL)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1697 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

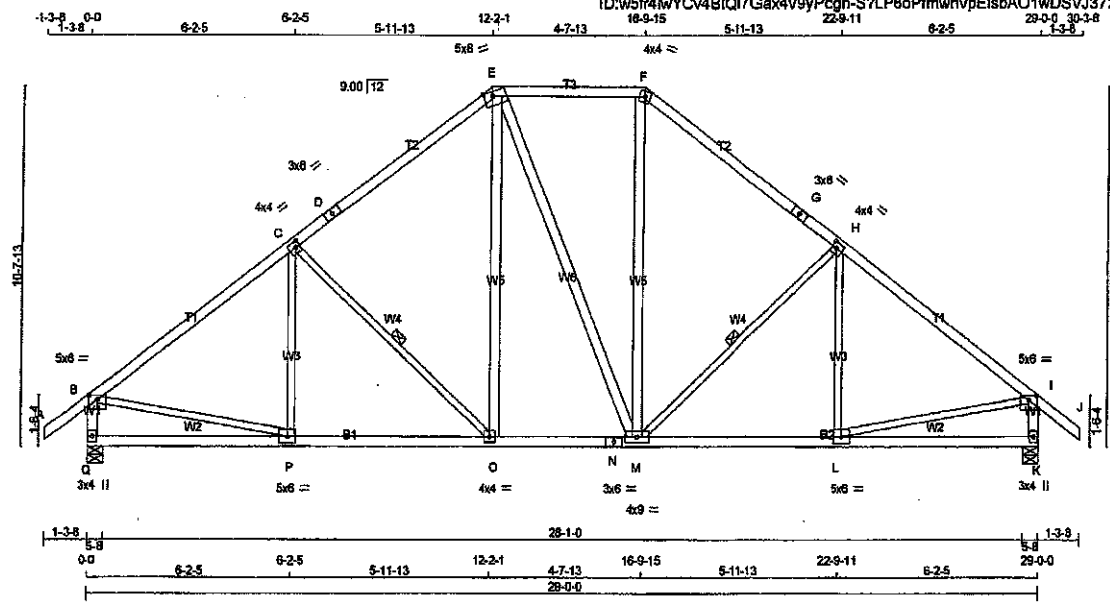
JSI GRIP= 0.90 (P) (INPUT = 0.90)  
 JSI METAL= 0.48 (M) (INPUT = 1.00)



DWG NO. TAM T1302170  
 STRUCTURAL COMPONENT ONLY

JOB NAME 200170-400368	TRUSS NAME T14	QUANTITY 2	PLY 1	JOB DESC. Preston 2	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington Version 9.230 S Nov 17 2018 MiTek Industries, Inc. Wed Feb 6 08:01:24 2019 Page 1  
 ID:w5fr4hwYcV48IQI7Gax4v9yPcgn-S7LP6oPfmwhvpEIsBA01wD5VJ372pfuB2JTzTx9P  
 18-9-15 22-9-11 6-2-5 29-0-0 30-3-8  
 Scale = 1/8" = 1'-0"



TOTAL WEIGHT = 2 X 147 = 294 lb

**LUMBER**  
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
E - F	2x4	DRY No.2	SPF
F - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
Q - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
Q - N	2x4	DRY No.2	SPF
N - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
O - E	2x4	DRY No.2	SPF
E - M	2x4	DRY No.2	SPF
M - F	2x4	DRY No.2	SPF

DRY, SEASONED LUMBER.

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X	
B	TMWV-p	MT20	5.0	6.0	1.50	3.00
C	TMWV-t	MT20	4.0	4.0	2.00	1.50
D	TS-1	MT20	3.0	6.0		
E	TTWV-m	MT20	5.0	6.0	1.75	3.25
F	TTW-m	MT20	4.0	4.0		
G	TS-4	MT20	3.0	6.0		
H	TMWV-t	MT20	4.0	4.0	2.00	1.50
I	TMWV-p	MT20	5.0	6.0	1.50	3.00
K	BMV1-p	MT20	3.0	4.0		
L	BMWV-4	MT20	5.0	6.0		
M	BMWVW-1	MT20	4.0	9.0		
N	BS-1	MT20	3.0	6.0		
O	BMWV-4	MT20	4.0	4.0		
P	BMWV-1	MT20	5.0	6.0		
Q	BMV1-p	MT20	3.0	4.0		

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	VERT	HORZ	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
Q	2180	0	2180	0	5-8
K	2180	0	2180	0	5-8

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
K	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, K

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.  
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-M.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

**LOADING**  
TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS		WEBS	
		FACTORED VERT. LOAD (PL)	LC1 MAX (LC)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
FR-TO					
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00
B-C	-2212 / 0	-102.1	-102.1	0.64 (1)	3.92
C-D	-1790 / 0	-102.1	-102.1	0.57 (1)	4.35
D-E	-1790 / 0	-102.1	-102.1	0.57 (1)	4.35
E-F	-1402 / 0	-102.1	-102.1	0.31 (1)	5.16
F-G	-1791 / 0	-102.1	-102.1	0.57 (1)	4.35
G-H	-1791 / 0	-102.1	-102.1	0.57 (1)	4.35
H-I	-2211 / 0	-102.1	-102.1	0.64 (1)	3.92
I-J	0 / 42	-102.1	-102.1	0.14 (1)	10.00
Q-B	-2084 / 0	0.0	0.0	0.22 (1)	5.88
K-I	-2084 / 0	0.0	0.0	0.22 (1)	5.87
Q-P	0 / 0	-38.5	-38.5	0.29 (3)	10.00
P-O	0 / 1805	-38.5	-38.5	0.51 (2)	10.00
O-N	0 / 1401	-38.5	-38.5	0.34 (2)	10.00
N-M	0 / 1401	-38.5	-38.5	0.34 (2)	10.00
M-L	0 / 1805	-38.5	-38.5	0.51 (2)	10.00
L-K	0 / 0	-38.5	-38.5	0.29 (3)	10.00

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.64/1.00 (B-C-1), BC=0.51/1.00 (O-P-2),  
WB=0.41/1.00 (B-P-1), SSI=0.24/1.00 (H-I-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

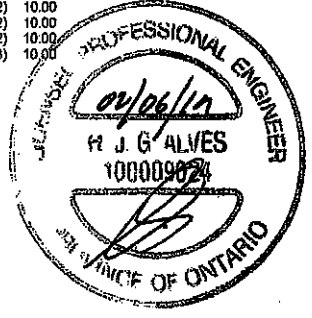
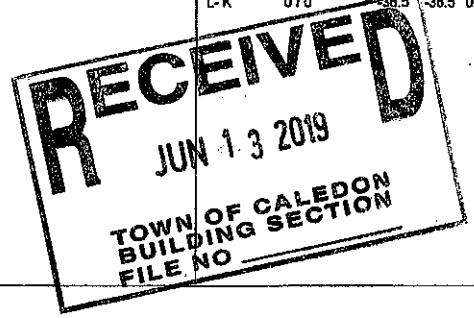
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

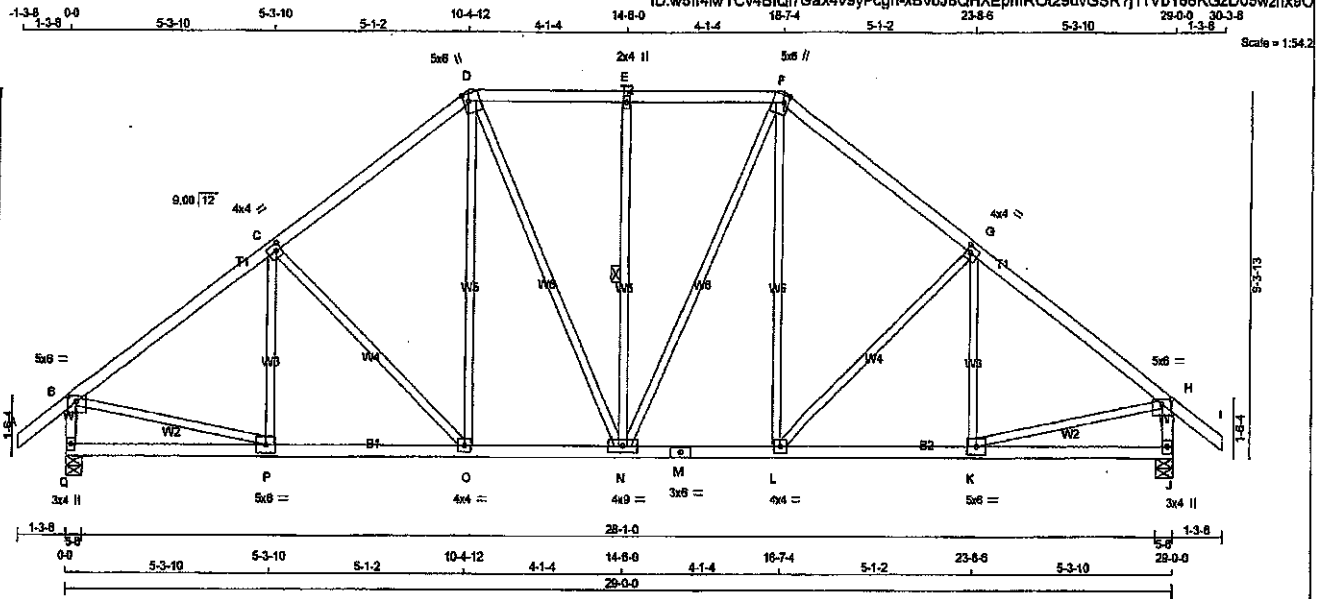
JSI GRIP = 0.87 (C) (INPUT = 0.90)  
JSI METAL = 0.48 (N) (INPUT = 1.00)



DRWG NO. TAM T1902171  
STRUCTURAL COMPONENTS

JOB NAME 200170-400388	TRUSS NAME T15	QUANTITY 8	PLY 1	JOB DESC. Preston 2	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 8 X 143 = 1145 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
Q - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
Q - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
Q	2180	0	2180	0	5-8	5-8
J	2180	0	2180	0	5-8	5-8

**UNFACTORED REACTIONS**

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
J	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, J

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

**LOADING**  
TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MEMB. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO						
A-B	0 / 42	-102.1	-102.1	10.00	P-C	-176 / 112
B-C	-2202 / 0	-102.1	-102.1	4.17	C-O	-394 / 0
C-D	-1932 / 0	-102.1	-102.1	4.43	O-D	0 / 459
D-E	-1664 / 0	-102.1	-102.1	4.91	D-N	0 / 353
E-F	-1664 / 0	-102.1	-102.1	4.91	N-E	-500 / 0
F-G	-1932 / 0	-102.1	-102.1	4.43	N-F	0 / 353
G-H	-2202 / 0	-102.1	-102.1	4.17	L-F	0 / 459
H-I	0 / 42	-102.1	-102.1	10.00	L-G	-394 / 0
Q-B	-2096 / 0	0.0	0.0	5.85	K-G	-178 / 112
J-H	-2096 / 0	0.0	0.0	5.85	B-P	0 / 1836
					K-H	0 / 1836
Q-P	0 / 0	-38.5	-38.5	10.00		
P-O	0 / 1791	-38.5	-38.5	10.00		
O-N	0 / 1518	-38.5	-38.5	10.00		
N-M	0 / 1518	-38.5	-38.5	10.00		
M-L	0 / 1518	-38.5	-38.5	10.00		
L-K	0 / 1791	-38.5	-38.5	10.00		
K-J	0 / 0	-38.5	-38.5	10.00		

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN./C/C**

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2016, OBC 2012  
- CSA 088-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.45/1.00 (B-C:1), BC=0.43/1.00 (O-P:2), WB=0.41/1.00 (C-C:1), SS=0.21/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

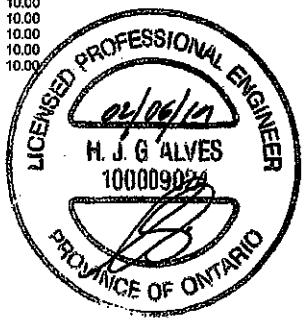
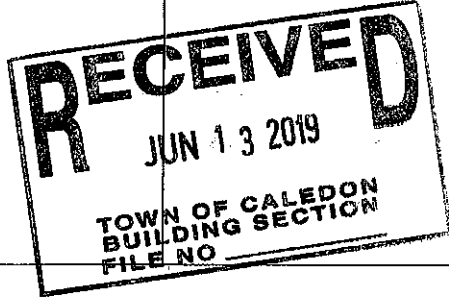
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE CRIP(DRY), SHEAR SECTION (PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1067 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

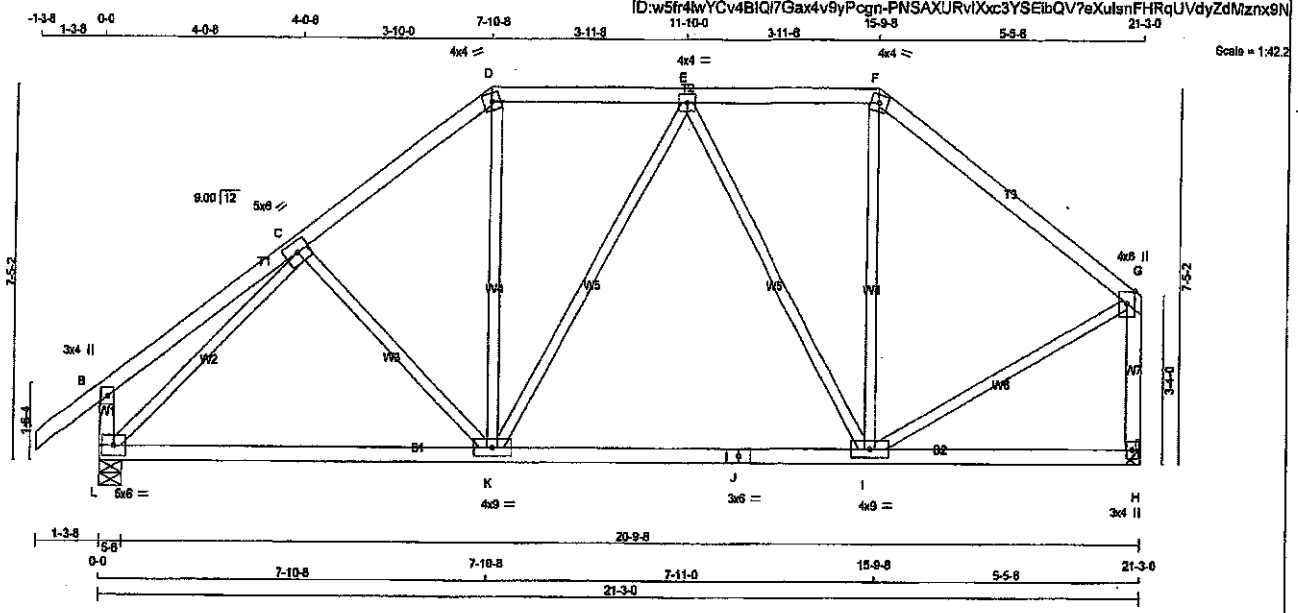
JSI GRIP= 0.90 (P) (INPUT = 0.90)  
JSI METAL= 0.49 (M) (INPUT = 1.00)



DWG NO. TAM 1902772  
STRUCTURAL  
COMPONENT T15.V

JOB NAME 200170-400368	TRUSS NAME T16	QUANTITY 1	PLY 1	JOB DESC. Preston 2	DRWG NO.
TRUSS DESC.				Version 8.230 S Nov 17 2018 MITek Industries, Inc. Wed Feb 6 08:01:26 2019 Page 1	

Tamareck Roof Truss, Burlington ID:w5fr4wYcv4BIQ7Gax4v9yPcgn-PNSAXJrVixc3YSEibQV7eXulanFHRqUVdyZdMzrx9N



TOTAL WEIGHT = 97 lb (M/F)

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
L - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	5.0	6.0	
D	TTW-m	MT20	4.0	4.0	
E	TMWW-t	MT20	4.0	4.0	
F	TTW-m	MT20	4.0	4.0	
G	TMV+p	MT20	4.0	6.0	Edge
H	BMV1+p	MT20	3.0	4.0	
I	BMWW-t	MT20	4.0	9.0	
J	BS-t	MT20	3.0	5.0	
K	BMWW-t	MT20	4.0	9.0	
L	BMV1-t	MT20	5.0	6.0	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
L	1635	0	1635	0	0	5-8	5-8
H	1494	0	1494	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3-8.

**UNFACTORED REACTIONS**

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1213	697 / 0	223 / 0	0 / 0	0 / 0	293 / 0	0 / 0
H	1116	617 / 0	223 / 0	0 / 0	0 / 0	276 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L.

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNI BRAC LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNI BRAC LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	C-K	-118 / 59	0.07 (1)
B-C	0 / 27	-102.1 -102.1	0.25 (1)	10.00	K-D	0 / 492	0.11 (1)
C-D	-1370 / 0	-102.1 -102.1	0.21 (1)	5.33	L-F	0 / 288	0.08 (2)
D-E	-1079 / 0	-102.1 -102.1	0.21 (1)	5.83	L-C	-1677 / 0	0.90 (1)
E-F	-880 / 0	-102.1 -102.1	0.20 (1)	6.25	I-G	0 / 997	0.22 (1)
F-G	-1099 / 0	-102.1 -102.1	0.41 (1)	5.51	K-E	-70 / 70	0.10 (1)
L-B	-296 / 0	0.0	0.0	0.03 (1)	E-I	-467 / 0	0.68 (1)
H-G	-1414 / 0	0.0	0.0	0.27 (1)			
L-K	0 / 1154	-38.5	-38.5	0.59 (2)	10.00		
K-J	0 / 1112	-38.5	-38.5	0.59 (2)	10.00		
J-I	0 / 1112	-38.5	-38.5	0.59 (2)	10.00		
I-H	0 / 0	-38.5	-38.5	0.28 (3)	10.00		

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2016, CBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.14")  
ALLOWABLE DEFL.(TL) = L/360 (0.71")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.41/M.0 (F-G:1), BC=0.59/1.00 (K-L:2), WB=0.90/1.00 (C-L:1), SSI=0.19/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

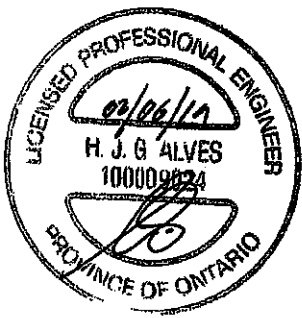
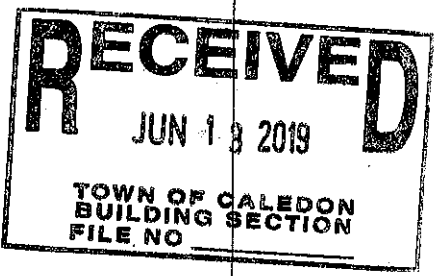
**NAIL VALUES**

PLATE	GRIP (DRY)	SHEAR (PS)	SECTION (PL)
MT20	618	354	1667
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

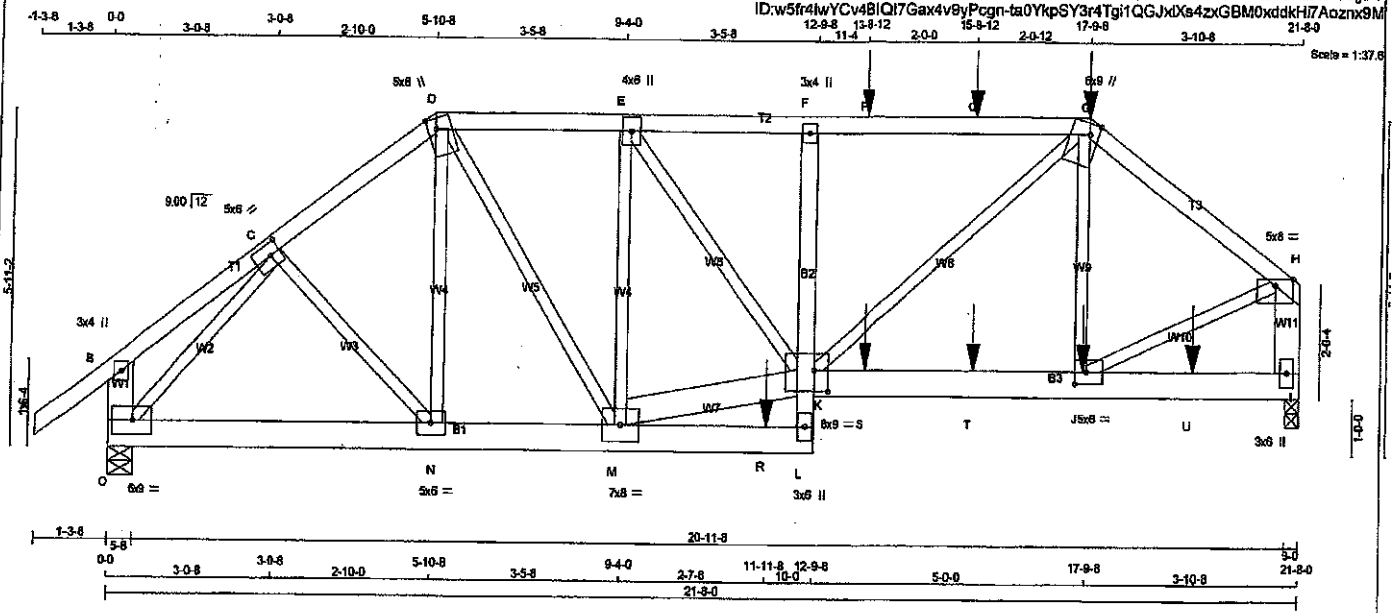
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (G) (INPUT = 0.90)  
JSI METAL= 0.56 (G) (INPUT = 1.00)



DWG NO. TAM 71902773  
STRUCTURAL COMPONENT ONLY

JOB NAME <b>200170-400368</b>	TRUSS NAME <b>T17</b>	QUANTITY <b>1</b>	PLY <b>1</b>	JOB DESC. <b>Preston 2</b>	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



TOTAL WEIGHT = 121 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
G - H	2x4	DRY No.2	SPF
O - B	2x6	DRY No.2	SPF
I - H	2x6	DRY No.2	SPF
O - L	2x6	DRY No.2	SPF
L - F	2x4	DRY No.2	SPF
K - I	2x6	DRY No.2	SPF
ALL WEBS EXCEPT M - K	2x3	DRY No.2	SPF
M - K	2x6	DRY No.2	SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
50	TMV+p	MT20	3.0	4.0		
D	TMWV-1	MT20	5.0	6.0	2.50	2.25
O	TMWV+m	MT20	5.0	6.0	2.25	1.75
H	TMWV-1	MT20	4.0	6.0		
I	TMV+p	MT20	3.0	4.0		
G	TMWV+m	MT20	6.0	9.0	Edge	2.00
H	TMWV-p	MT20	5.0	6.0	Edge	
J	BMV1+p	MT20	3.0	6.0		
K	BMVW-t	MT20	5.0	6.0	2.50	2.50
L	BMVWVW-t	MT20	6.0	9.0	4.50	3.00
M	BMV+p	MT20	3.0	6.0		
N	BMVW-t	MT20	7.0	6.0		
M	BMVW-t	MT20	5.0	6.0		
O	BMVW-1	MT20	6.0	9.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
I	2444	0	2444	0	3-0	3-0
O	2173	0	2173	0	5-8	5-8

**UNFACTORED REACTIONS**

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
I	1817	1038 / 0	343 / 0	0 / 0	0 / 0	439 / 0	0 / 0
O	1609	934 / 0	290 / 0	0 / 0	0 / 0	385 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) I, O

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.98 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**  
TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED (PLF)			WEBS		
		VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-B	0 / 42	-102.1	-102.1	0.15 (1)	10.00	N-D	0 / 144
B-C	0 / 17	-102.1	-102.1	0.13 (1)	10.00	D-M	0 / 1166
C-D	-2189 / 0	-102.1	-102.1	0.20 (1)	4.40	M-E	-1305 / 0
D-E	-2343 / 0	-102.1	-102.1	0.27 (1)	4.18	M-K	0 / 2401
E-F	-3107 / 0	-102.1	-102.1	0.62 (1)	3.18	E-K	0 / 1275
F-P	-3119 / 0	-102.1	-102.1	0.80 (1)	2.98	K-G	0 / 1662
P-Q	-3118 / 0	-102.1	-102.1	0.80 (1)	2.98	J-G	-449 / 69
Q-G	-3119 / 0	-102.1	-102.1	0.80 (1)	2.98	J-H	0 / 2031
G-H	-2359 / 0	-102.1	-102.1	0.41 (1)	4.02	O-C	-2415 / 0
O-B	-282 / 0	0.0	0.0	0.02 (1)	7.81	C-N	0 / 295
I-H	-2351 / 0	0.0	0.0	0.18 (1)	6.84		
O-N	0 / 1600	-38.5	-38.5	0.31 (1)	10.00		
N-M	0 / 1733	-38.5	-38.5	0.35 (1)	10.00		
M-R	0 / 55	-38.5	-38.5	0.34 (1)	10.00		
R-L	0 / 55	-38.5	-38.5	0.34 (1)	10.00		
L-K	0 / 883	0.0	0.0	0.20 (1)	10.00		
K-F	-670 / 0	0.0	0.0	0.18 (1)	7.81		
K-S	0 / 1873	-38.5	-38.5	0.33 (1)	10.00		
S-T	0 / 1873	-38.5	-38.5	0.33 (1)	10.00		
T-J	0 / 1873	-38.5	-38.5	0.33 (1)	10.00		
J-U	0 / 0	-38.5	-38.5	0.13 (3)	10.00		
U-I	0 / 0	-38.5	-38.5	0.13 (3)	10.00		

**FACTORED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	17-8-8	-15	-17	---	FRONT	VERT	DEAD	---
G	17-8-8	-103	-103	---	FRONT	VERT	TOTAL	---
G	17-8-8	-164	-164	---	FRONT	VERT	SNOW	---
J	17-8-12	-38	-46	---	FRONT	VERT	TOTAL	---
P	13-8-12	-96	-96	---	FRONT	VERT	TOTAL	---
Q	15-8-12	-96	-96	---	FRONT	VERT	TOTAL	---
R	11-11-8	-813	-813	---	FRONT	VERT	TOTAL	---
S	13-8-12	-38	-46	---	FRONT	VERT	TOTAL	---
T	15-8-12	-38	-46	---	FRONT	VERT	TOTAL	---
U	19-8-12	-38	-46	---	FRONT	VERT	TOTAL	---

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
LOADS WERE DERIVED FROM USER INPUT  
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.0/12

\*\*\* NON STANDARD GIRDER \*\*\*  
ADDTL. USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.72")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")  
ALLOWABLE DEFL. (TL) = L/360 (0.72")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.15")

CSI: TC=0.80/1.00 (F-G-1), BC=0.35/1.00 (M-N-1),  
WB=0.73/1.00 (C-O-1), SSI=0.44/1.00 (L-M-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

PLATE GRIP (DRY)	SHEAR SECTION (PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1667	788
	1987	1655		

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (D) (INPUT = 0.90)  
JSI METAL= 0.60 (C) (INPUT = 1.00)



AWG NO. TAM 17902774  
**STRUCTURAL COMPONENT ONLY**

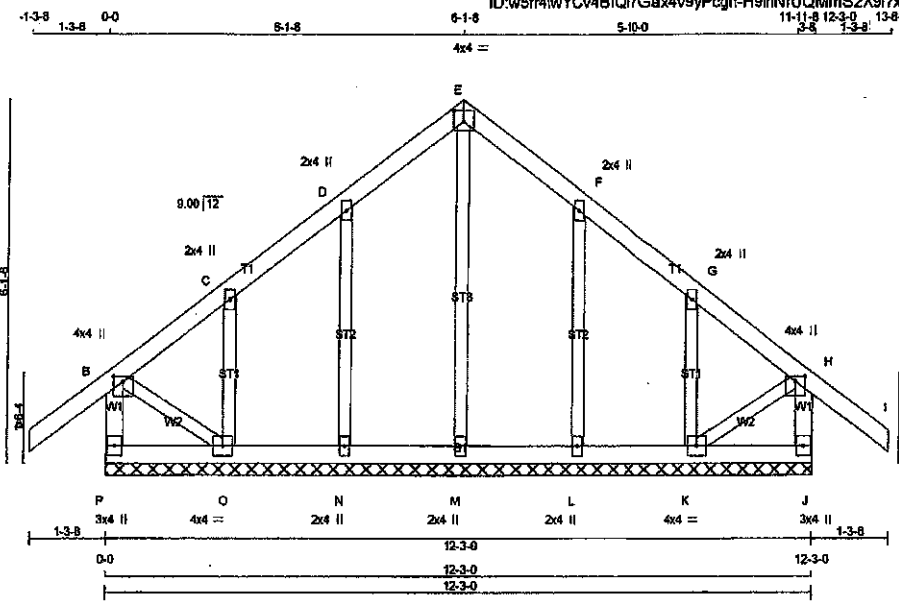






JOB NAME 200170-400368	TRUSS NAME T19G	QUANTITY 1	PLY 1	JOB DESC. Preston 2	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 6 Nov 17 2018 MITek Industries, Inc. Wed Feb 6 08:01:30 2019 Page 1  
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 11-1-8 12-3-0 13-8-8



TOTAL WEIGHT = 57 lb

**LUMBER**  
 N. L. G. A. RULES  
 CHORDS SIZE LUMBER DESCR.  
 P - B 2x4 DRY No.2 SPF  
 A - E 2x4 DRY No.2 SPF  
 E - I 2x4 DRY No.2 SPF  
 J - H 2x4 DRY No.2 SPF  
 P - J 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF  
 ALL GABLE WEBS 2x3 DRY No.2 SPF  
 DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**  
**BEARINGS**  
 THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.  
 THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.  
 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCG 2010, NBCG 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, OBC 2012  
 - CSA 089-09, CSA 089-14  
 - TPIC 2011, TPIC 2014

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
C, D, F, G					
C TMVW+w	MT20	2.0	4.0		
E TTW+p	MT20	4.0	4.0	2.25	2.00
H TMVW+p	MT20	4.0	4.0	1.00	2.00
J BMV1+p	MT20	3.0	4.0		
K BMVW1-t	MT20	4.0	4.0		
L, M, N					
L BMV1+w	MT20	2.0	4.0		
O BMVW1-t	MT20	4.0	4.0		
P BMV1+p	MT20	3.0	4.0		

**LOADING**  
 TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	UNBRAC LENGTH	MEMB. MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO	
P-B	-263 / 0	0.0	0.0	0.03 (1)	7.81	M-E -147 / 0 0.08 (1)
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	N-D -225 / 0 0.07 (1)
B-C	-24 / 0	-102.1	-102.1	0.08 (1)	6.25	O-C -221 / 0 0.04 (1)
C-D	-27 / 0	-102.1	-102.1	0.08 (1)	6.25	L-F -225 / 0 0.07 (1)
D-E	-34 / 0	-102.1	-102.1	0.06 (1)	6.25	K-G -221 / 0 0.04 (1)
E-F	-34 / 0	-102.1	-102.1	0.06 (1)	6.25	B-O 0 / 33 0.01 (1)
F-G	-27 / 0	-102.1	-102.1	0.06 (1)	6.25	K-H 0 / 33 0.01 (1)
G-H	-24 / 0	-102.1	-102.1	0.06 (1)	6.25	
H-I	0 / 42	-102.1	-102.1	0.14 (1)	10.00	
J-H	-263 / 0	0.0	0.0	0.03 (1)	7.81	
P-O	0 / 0	-38.5	-38.5	0.03 (3)	10.00	
O-N	0 / 22	-38.5	-38.5	0.03 (3)	10.00	
N-M	0 / 17	-38.5	-38.5	0.03 (3)	10.00	
M-L	0 / 17	-38.5	-38.5	0.03 (3)	10.00	
L-K	0 / 22	-38.5	-38.5	0.03 (3)	10.00	
K-J	0 / 0	-38.5	-38.5	0.03 (3)	10.00	

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.14/1.00 (H-1), BC=0.03/1.00 (H-C3), WB=0.08/1.00 (E-M1), SSI=0.09/1.00 (H-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

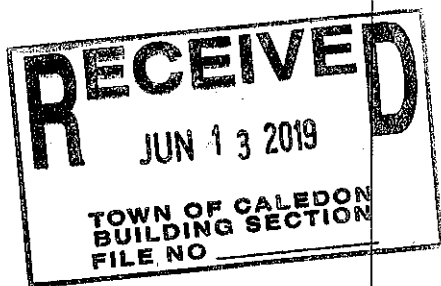
COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches  
 PLATE ROTATION TOL. = 5.0 Deg.

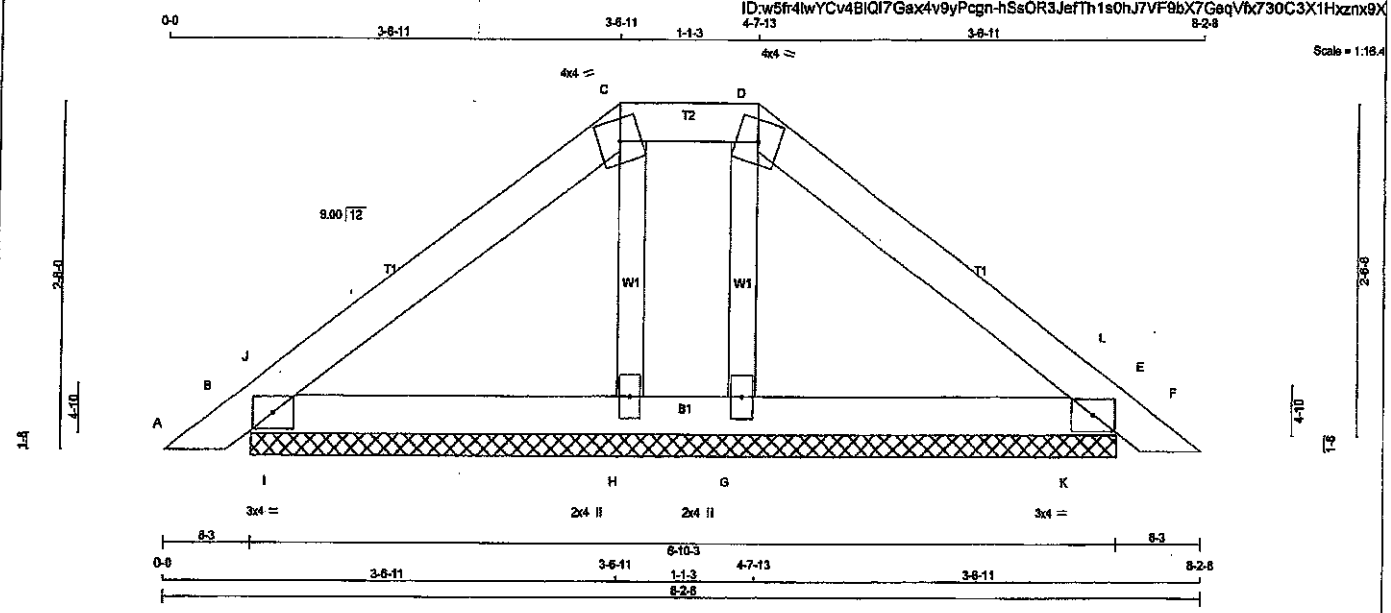
JSI GRIP= 0.20 (H) (INPUT = 0.90)  
 JSI METAL= 0.12 (D) (INPUT = 1.00)



DWG NO. TAM 19a02777  
 STRUCTURAL COMPONENT ONLY

JOB NAME 200170-400368	TRUSS NAME PB1	QUANTITY 2	PLY 1	JOB DESC. Preston 2	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 2 X 22 = 45 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	No.2	SPF
C - D	2x4 DRY	No.2	SPF
D - F	2x4 DRY	No.2	SPF
B - E	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF

DRY, SEASONED LUMBER.

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	
C	TTW-m	MT20	4.0	4.0	
D	TTW-m	MT20	4.0	4.0	
E	TMB1-I	MT20	3.0	4.0	
G	BMW1+w	MT20	2.0	4.0	
H	BMW1+w	MT20	2.0	4.0	

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	312	0	312	0	6-10-3	6-10-3
E	312	0	312	0	6-10-3	6-10-3
H	230	0	230	0	6-10-3	6-10-3
G	230	0	230	0	6-10-3	6-10-3

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	227	145 / 0	31 / 0	0 / 0	0 / 0	51 / 0	0 / 0
E	227	145 / 0	31 / 0	0 / 0	0 / 0	51 / 0	0 / 0
H	174	88 / 0	40 / 0	0 / 0	0 / 0	45 / 0	0 / 0
G	174	88 / 0	40 / 0	0 / 0	0 / 0	45 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**  
TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS FACTORED VERT. LOAD (PL)			MAX. GSI (LC)	MAX. UNBRAC LENGTH	WEBS MAX. FACTORED FORCE (LBS)		
		FROM	TO	FR-TO			MEMB.	FORCE (LBS)	MAX. CSI (LC)
A-B	8 / 17	-102.1	-102.1	0.03 (1)	10.00	H-C	-120 / 0	0.02 (1)	
B-J	-75 / 0	-102.1	-102.1	0.03 (1)	6.25	G-D	-120 / 0	0.02 (1)	
J-C	-107 / 0	-102.1	-102.1	0.11 (1)	6.25	I-J	-209 / 37	0.00 (1)	
C-D	-78 / 0	-102.1	-102.1	0.02 (1)	6.25	K-L	-209 / 37	0.00 (1)	
D-L	-107 / 0	-102.1	-102.1	0.11 (1)	6.25				
L-E	-75 / 0	-102.1	-102.1	0.03 (1)	6.25				
E-F	0 / 17	-102.1	-102.1	0.03 (1)	10.00				
B-I	0 / 82	-38.5	-38.5	0.10 (1)	10.00				
I-H	0 / 82	-38.5	-38.5	0.10 (1)	10.00				
H-G	0 / 76	-38.5	-38.5	0.08 (1)	10.00				
G-K	0 / 82	-38.5	-38.5	0.10 (1)	10.00				
K-E	0 / 82	-38.5	-38.5	0.10 (1)	10.00				

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. LC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.11/1.00 (D-L:1), BC=0.10/1.00 (G-K:1), WB=0.02/1.00 (C-H:1), SS=0.16/1.00 (E-K:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

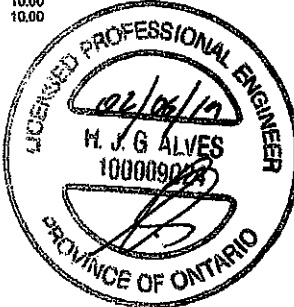
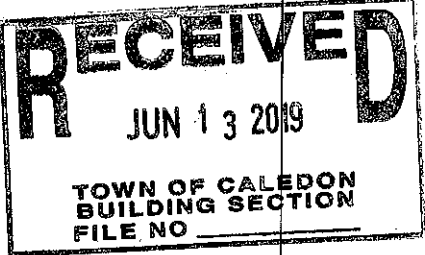
**NAIL VALUES**

PLATE GRIP (ORY)	SHEAR (PS)	SECTION (PL)
MT20	618 354 1687 788 1987 1658	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

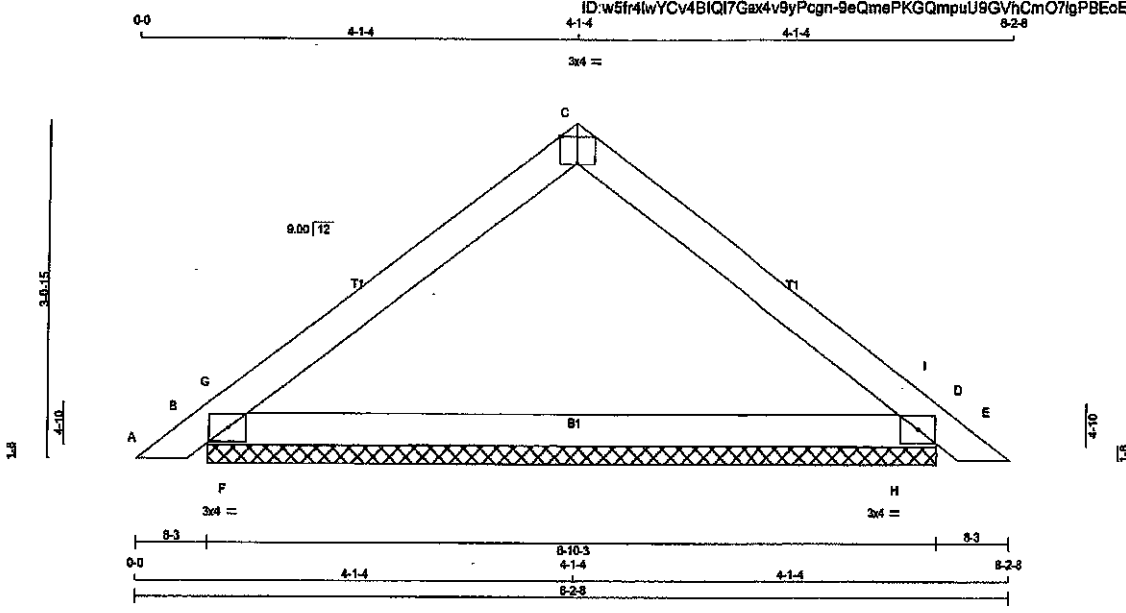
JSI GRIP = 0.23 (B) (INPUT = 0.90)  
JSI METAL = 0.05 (B) (INPUT = 1.00)



DWG NO. TAM 11902778  
STRUCTURAL  
COMPONENT 0641

JOB NAME 200170-400368	TRUSS NAME PB2	QUANTITY 6	PLY 1	JOB DESC. Preston 2	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington ID: w5fr4wYCV4BIQI7Gax4v9yPcgn-9eQmePKGmpuU9GVhCmO7lgPBEoEgac9RjHbpNzmx9VV Version 8.230 S Nov 17 2016 MiTek Industries, Inc. Wed Feb 6 09:01:17 2019 Page 1 Scale = 1:19.5



TOTAL WEIGHT = 6 X 20 = 117 lb

**LUMBER**  
N. L. G. A. RULES  
CHORDS SIZE LUMBER DESCR. SPF

A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TT-p	MT20	3.0	4.0	Edge	2.00
D	TMB1-I	MT20	3.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG	
	VERT	HORZ	DOWN	HORZ		IN-SX	IN-SX
B	542	0	542	0	6-10-3	6-10-3	
D	542	0	542	0	6-10-3	6-10-3	

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
B	401	233 / 0	72 / 0	0 / 0	0 / 0	96 / 0	0 / 0
D	401	233 / 0	72 / 0	0 / 0	0 / 0	96 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**  
TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED				WEBS	
	MAX. FORCE (LBS)	FACTORED (PLF)	VERT. LOAD	LC1	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 17		-102.1	-102.1	0.03 (1)	10.00	F-G	0 / 516
B-G	-809 / 0		-102.1	-102.1	0.19 (3)	6.25	H-I	0 / 516
G-C	-300 / 0		-102.1	-102.1	0.25 (1)	6.25		
C-I	-300 / 0		-102.1	-102.1	0.25 (1)	6.25		
I-D	-809 / 0		-102.1	-102.1	0.19 (3)	6.25		
D-E	0 / 17		-102.1	-102.1	0.03 (1)	10.00		
B-F	0 / 255		-38.5	-38.5	0.15 (3)	10.00		
F-H	0 / 255		-38.5	-38.5	0.27 (2)	10.00		
H-D	0 / 255		-38.5	-38.5	0.15 (3)	10.00		

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. CIC

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012  
- CSA 086-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.25/1.00 (C-I:1), BC=0.27/1.00 (F-H:2), WB=0.00/1.00 (F-G:1), SF=0.30/1.00 (D-H:3)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 789 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.35 (B) (INPUT = 0.90)  
JSI METAL = 0.11 (B) (INPUT = 1.00)

THIS STRUCTURE MUST BE CONSTRUCTED TO MEET OR EXCEED THE PROVISIONS OF THE ONTARIO BUILDING CODE

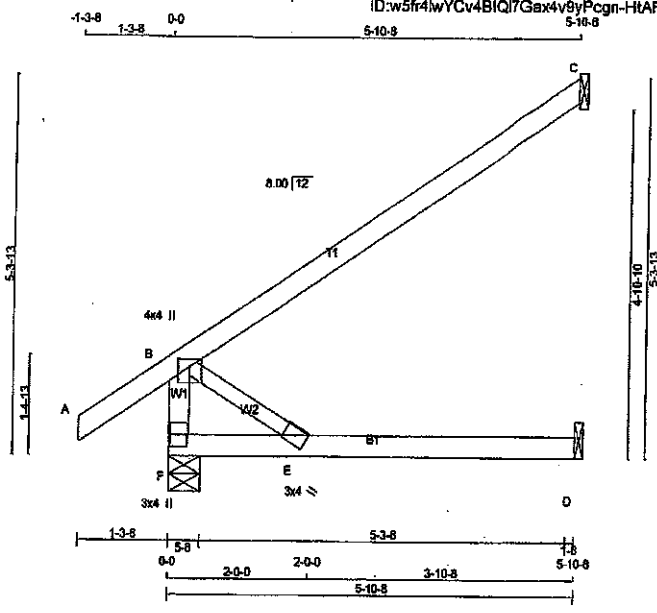
**RECEIVED**  
JUN 13 2019  
TOWN OF CALEDON  
BUILDING SECTION  
FILE NO \_\_\_\_\_



DRWG NO. TAM 17002779  
STRUCTURAL  
COMPONENT ONLY

JOB NAME 200170-400368	TRUSS NAME J1	QUANTITY 19	PLY 1	JOB DESC. Preston 2	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Wed Feb 6 08:01:13 2019 Page 1  
 ID:w5fr4wYCV4BIQ7Gax4y9yPcgn-HtAFo1HmMYJT7YyKSNhSzvVdhdRfkmcZW5JNgcznx9a



TOTAL WEIGHT = 19 X 19 = 369 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	DRY	NO.2	DESCR.
F - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF  
 DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVV+p	MT20	4.0	4.0	1.25	2.00
E	BMW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
F	553	0	553	0	5-8	5-8
C	300	0	300	0	1-8	1-8
D	113	0	144	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	1ST LOASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	405	250/0	62/0	0/0	0/0	93/0	0/0
C	206	171/0	0/0	0/0	0/0	35/0	0/0
D	103	0/0	62/0	0/0	0/0	41/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**  
 TOTAL LOAD CASES: (4)

MEMB.	FR-TO	CHORDS			WEBS			
		MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)	MAX. UNBRACED LENGTH FR-TO	
F-B	-440/0	0.0	0.0	0.05 (1)	7.81	B-E	0/0	0.00 (1)
A-B	0/39	-102.1	-102.1	0.14 (1)	10.00			
B-C	0/0	-102.1	-102.1	0.60 (1)	10.00			
F-E	0/0	-38.5	-38.5	0.26 (3)	10.00			
E-D	0/0	-38.5	-38.5	0.31 (3)	10.00			

**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 29.0 PSF  
 DL = 8.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, OBC 2012  
 - CSA 086-09, CSA 086-14  
 - TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
 CALCULATED VERT. DEFL.(LL) = L/ 926 (0.08")  
 ALLOWABLE DEFL.(TL) = L/360 (0.20")  
 CALCULATED VERT. DEFL.(TL) = L/ 555 (0.13")

CSI: TC=0.60/1.00 (B-C:1) , BC=0.31/1.00 (D-E:3) ,  
 WB=0.00/1.00 (B-E:1) , SSI=0.19/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

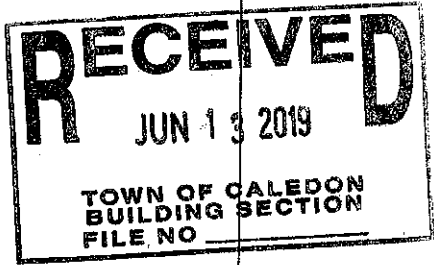
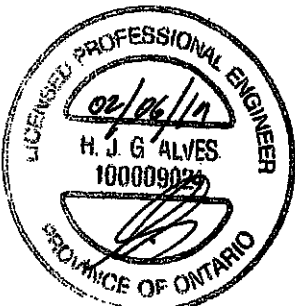
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MT20 MAX MIN MAX MIN MAX MIN  
 618 354 1667 768 1967 1656

PLATE PLACEMENT TOL. = 0.250 inches

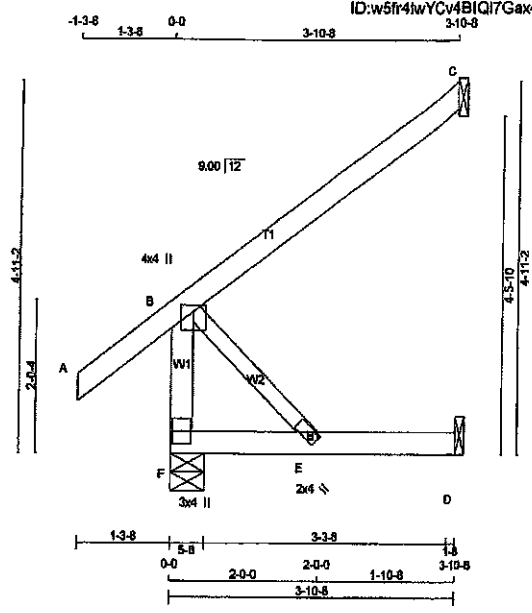
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.31 (B) (INPUT = 0.90)  
 JSI METAL= 0.09 (B) (INPUT = 1.00)



DRWG NO. TAM 17902780  
 STRUCTURAL COMPONENT ONLY

JOB NAME 200170-400368	TRUSS NAME J2	QUANTITY 4	PLY 1	JOB DESC. Preston 2	DRWG NO.
TRUSS DESC. Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 MITek Industries, Inc. Wed Feb 6 08:01:14 2019 Page 1 ID:w5fr4wYcv4BIQI7Gax4v9yPcgn-I4ke0NIO7rJdJXw?4ChW62jf1cbTDajk2x2znx9Z 3-10-8	



TOTAL WEIGHT = 4 X 16 = 63 lb (M)

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
F - B	2x4 DRY	No.2	SPF
A - C	2x4 DRY	No.2	SPF
F - D	2x4 DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF  
 DRY: SEASONED LUMBER.

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
F	413	0	413	0	5-8	5-8	5-8	5-8
C	198	0	198	0	1-8	1-8	1-8	1-8
D	75	0	95	0	1-8	1-8	1-8	1-8

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMVW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD
F	300	193/0	41/0	0/0	0/0	67/0	0/0
C	138	113/0	0/0	0/0	0/0	23/0	0/0
D	68	0/0	41/0	0/0	0/0	27/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
F-B	-339/0	0.0	0.0 0.04 (1)	7.81
A-B	0/42	-102.1 -102.1	0.14 (1)	10.00
B-C	0/0	-102.1 -102.1	0.26 (1)	10.00
F-E	0/0	-38.5 -38.5	0.14 (3)	10.00
E-D	0/0	-38.5 -38.5	0.14 (3)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. G/C**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, CBC 2012  
 - CSA 088-09, CSA 088-14  
 - TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.19")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
 ALLOWABLE DEFL.(TL) = L/380 (0.19")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.26/1.00 (B-C:1), BC=0.14/1.00 (D-E:3),  
 WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**

PLATE GRIP (DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20 618 354	1667 758	1967 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

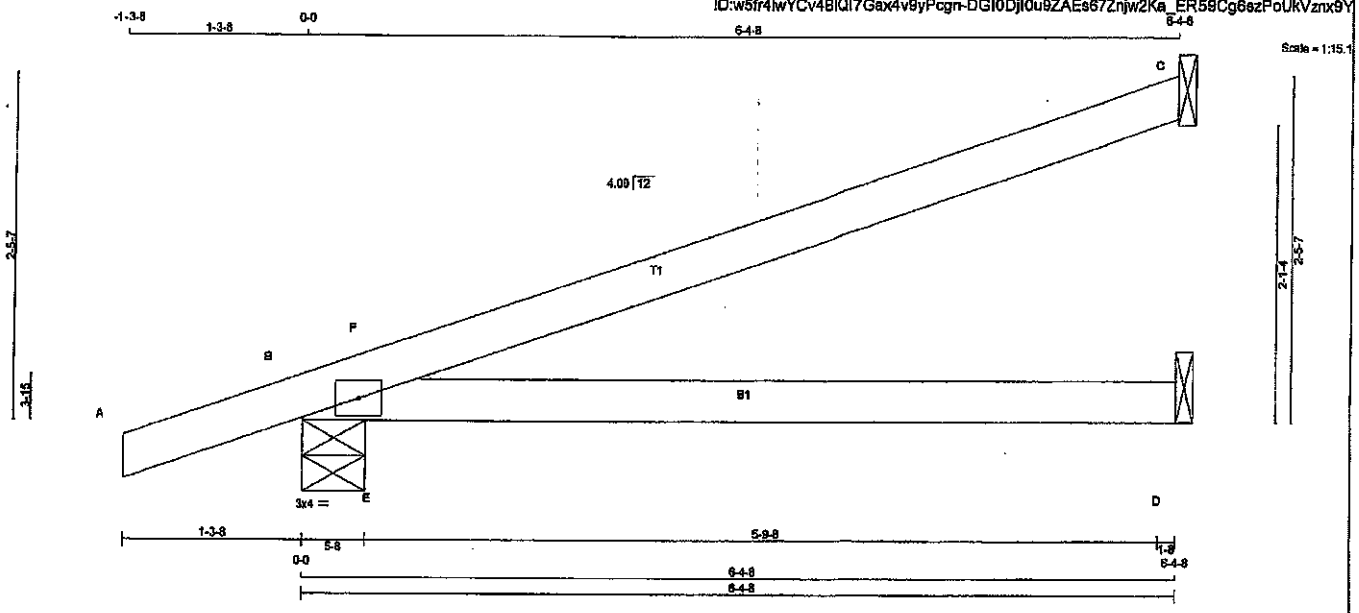
JSI GRIP= 0.27 (B) (INPUT = 0.90)  
 JSI METAL= 0.07 (B) (INPUT = 1.00)



DWG NO. TAM 17902781  
 STRUCTURAL COMPONENT ONLY

JOB NAME 200170-400368	TRUSS NAME J3	QUANTITY 6	PLY 1	JOB DESC. Preston 2	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2016 Mitek Industries, Inc. Wed Feb 6 08:01:15 2019 Page 1  
 ID:w5fr4hwYcV4BIQ17Gax4v9yPagn-DGI0DJ0u9ZAEs67Znjw2Ka\_ER59Cg6ezPoUKVzrx9Y



TOTAL WEIGHT = 8 X 17 = 100 lb

**LUMBER**  
 N. L. G. A. RULES  
 CHORDS SIZE LUMBER  
 A - C 2x4 DRY No.2  
 B - D 2x4 DRY No.2  
 DRY: SEASONED LUMBER.

**PLATES (table is in inches)**  
 JT TYPE PLATES W LEN Y X  
 B TMB1-1 MT20 3.0 4.0

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
C	284	0	284	0	1-8	1-8
B	518	0	518	0	5-8	5-8
D	98	0	98	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					DEAD	SCIL
		SNOW	LIVE	PERM.LIVE	WIND			
C	185	157/0	0/0	0/0	0/0	39/0	0/0	
B	362	263/0	0/0	0/0	0/0	59/0	0/0	
D	72	28/0	0/0	0/0	0/0	44/0	0/0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**  
 TOTAL LOAD CASES: (4)

MEMB.	FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	CHORDS		WEBS	
				LC1 MAX. (LC)	UNBRAC LENGTH (LC)	MEMB. FORCE (LBS)	MAX. FACTORED (LC)
A-B	0/20		-102.1	-102.1	0.13 (1)	10.00	E-F -439/9
B-F	-20/36		-102.1	-102.1	0.08 (1)	6.25	
F-C	-3/2		-102.1	-102.1	0.53 (1)	10.00	
B-E	0/0		-17.5	-17.5	0.37 (1)	10.00	
E-D	0/0		-17.5	-17.5	0.37 (1)	10.00	

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 42.0 PSF

**SPACING = 24.0 IN./C/G**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, OBC 2012  
 - CSA 086-08, CSA 086-14  
 - TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.21")  
 CALCULATED VERT. DEFL.(LL) = L/700 (0.11")  
 ALLOWABLE DEFL.(TL) = L/360 (0.21")  
 CALCULATED VERT. DEFL.(TL) = L/360 (0.21")

CSI: TC=0.53/1.00 (C-F:1), BC=0.37/1.00 (D-E:1),  
 WB=0.00/1.00 (E-F:1), SS=0.35/1.00 (B-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.35 (B) (INPUT = 0.90)  
 JSI METAL=0.10 (B) (INPUT = 1.00)

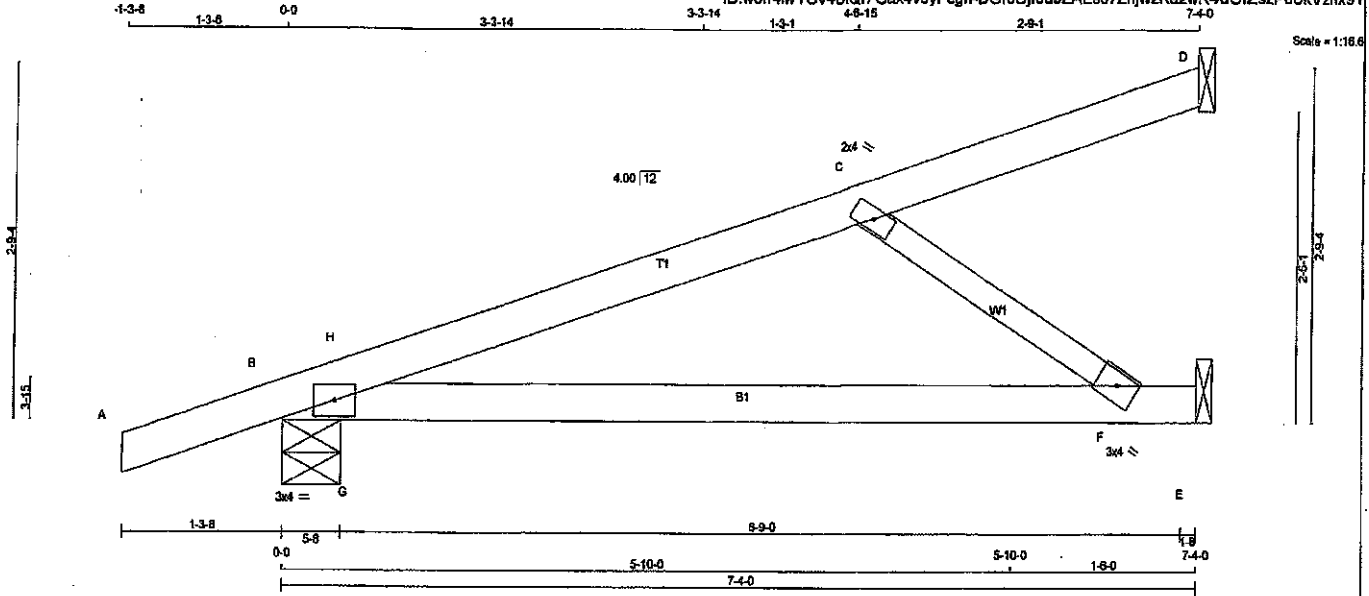
**RECEIVED**  
 JUN 13 2019  
 TOWN OF CALEDON  
 BUILDING SECTION  
 FILE NO \_\_\_\_\_



DWG NO. IAM 17902782  
 STRUCTURAL COMPONENT ONLY

JOB NAME 200170-400368	TRUSS NAME J4	QUANTITY 4	PLY 1	JOB DESC. Preston 2	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 6.230 S Nov 17 2018 MiTek Industries, Inc. Wed Feb 6 08:01:15 2019 Page 1  
 ID:w5fr4lwYcV4B(QI7Gax4v9yPcgn-DGI0DjI0u8ZAEs67Znjw2Ka2wR4uClZszPcUkVzxn9Y



TOTAL WEIGHT = 4 X 21 = 84 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
B - E	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-i	MT20	3.0	4.0	
C	TMW+w	MT20	2.0	4.0	
F	BMW+w	MT20	3.0	4.0	

**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER**

**BEARINGS**

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
D	83	83	1-8	1-8
B	575	575	5-8	5-8
E	356	356	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) D, E

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	56	48 / 0	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0	0 / 0
B	402	291 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0	0 / 0
E	252	165 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 9.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)
FR-TO		FROM	TO		FR-TO		FR-TO	
A-B	0 / 20	-102.1	-102.1	0.13 (1)	10.00	C-F	-532 / 0	0.10 (1)
B-H	-530 / 0	-102.1	-102.1	0.15 (4)	6.25	G-H	0 / 147	0.00 (1)
H-C	-420 / 0	-102.1	-102.1	0.30 (1)	6.25			
C-D	-17 / 0	-102.1	-102.1	0.15 (1)	6.25			
B-G	0 / 420	-17.5	-17.5	0.10 (4)	10.00			
G-F	0 / 420	-17.5	-17.5	0.39 (1)	10.00			
F-E	0 / 0	-17.5	-17.5	0.31 (1)	10.00			

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 42.0 PSF

**SPACING = 24.0 IN. C/C**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF BCBC 2018, CBC 2012  
 - CSA 086-08, CSA 086-14  
 - TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.24")  
 CALCULATED VERT. DEFL.(LL) = L/820 (0.11")  
 ALLOWABLE DEFL.(TL) = L/360 (0.24")  
 CALCULATED VERT. DEFL.(TL) = L/363 (0.24")

CSI: TC=0.30/1.00 (C-H:1), BC=0.39/1.00 (F-G:1),  
 WB=0.10/1.00 (C-F:1), SSI=0.28/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10  
 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

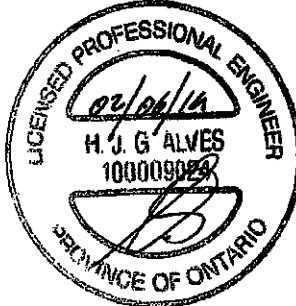
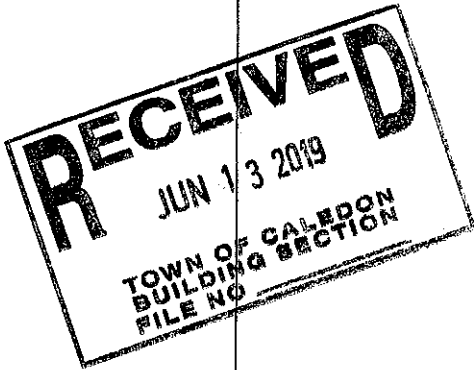
**NAIL VALUES**

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618 354 1667 788 1987 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.39 (C) (INPUT = 0.90)  
 JSI METAL= 0.26 (C) (INPUT = 1.00)



DWG NO. TAM 1902183  
 STRUCTURAL COMPONENT ONLY



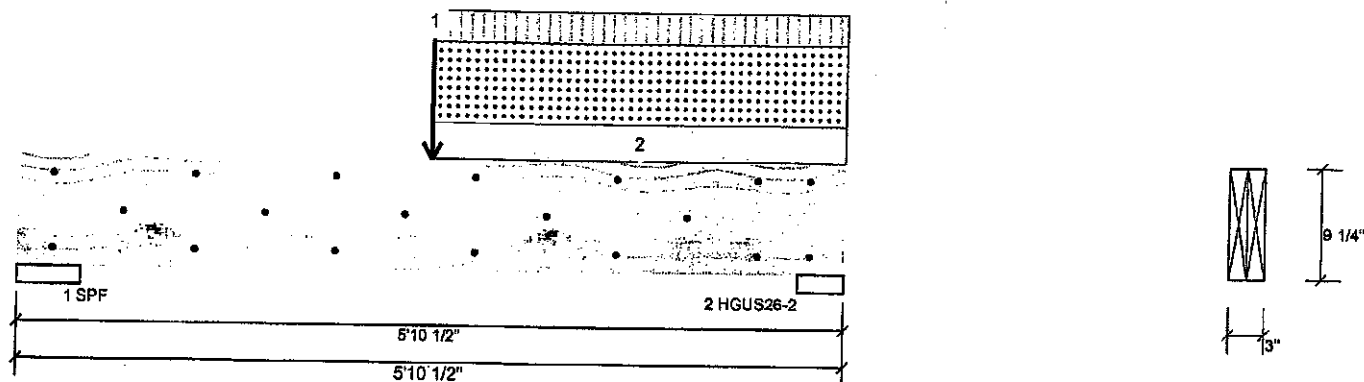
isDesign™

Client: Greenpark Homes  
Project: Preston 2  
Address: Caledon

Date: 2019-02-06  
Designer: Brian  
Job Name: Lamberts Lane Homes Corp.  
Project #: 200170

**BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor (Residential)
Piles:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

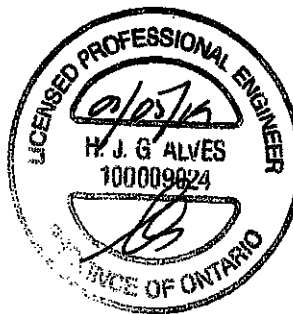
Brg	Live	Dead	Snow	Wind
1	183	234	550	0
2	192	244	571	0

**Bearings and factored Reactions**

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	13%	292 / 1008	1301 L 1.25D+1.5S +L
2 - HGUS...	4.000"	18%	304 / 1049	1353 L 1.25D+1.5S +L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3305 ft-lb	2'11 1/4"	6039 ft-lb	0.547 (55%)	1.25D+1.5S	L
Unbraced	3305 ft-lb	2'11 1/4"	5236 ft-lb	0.631 (63%)	1.25D+1.5S	L
Shear	1355 lb	1'2"	3984 lb	0.340 (34%)	1.25D+1.5S	L
Perm Defl in.	0.009 (L/7271)	2'11 7/8"	0.174 (L/360)	0.050 (5%)	D	Uniform
LL Defl inch	0.024 (L/2648)	2'11 7/8"	0.174 (L/360)	0.140 (14%)	S+0.5L	L
TL Defl inch	0.032 (L/1941)	2'11 7/8"	0.174 (L/360)	0.190 (19%)	D+S+0.5L	L

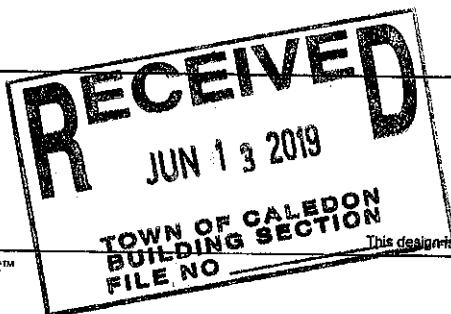


DWG NO. TAM 1702706  
STRUCTURAL  
COMPONENT ONLY 1/2

**Design Notes**

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	2-11-4		Top	439 lb	343 lb	1036 lb	0 lb	
2	Part. Uniform	2-11-4 to 5-10-8		Near Face	13 PLF	11 PLF	29 PLF	0 PLF	



Manufacturer Info	TAMARACK LUMBER 3255 NORTH SERVICE RD., ON CANADA (905) 335-1115
	<b>TAMARACK LUMBER INC</b> ALUM LUMBER GROUP







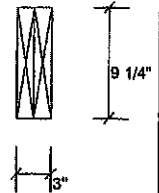
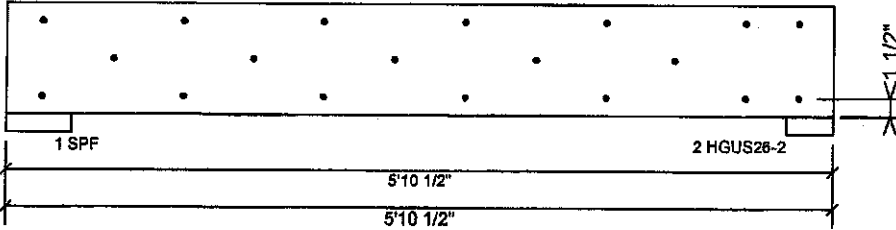
isDesign™

Client: Greenpark Homes  
Project: Preston 2  
Address: Caledon

Date: 2019-02-05  
Designer: Brian  
Job Name: Lamberts Lane Homes Corp.  
Project #: 200170

**BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

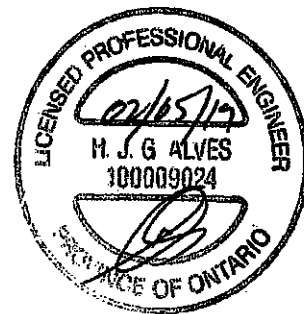
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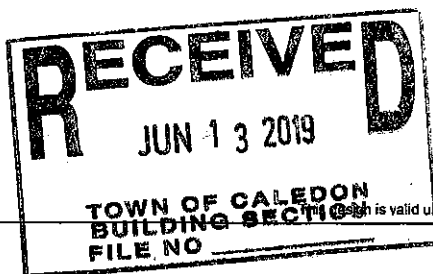
**Multi-Ply Analysis**

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6"

Capacity	9.2 %
Load	35.4 PLF
Yield Limit per Foot	383.4 PLF
Yield Limit per Fastener	127.8 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



DWG NO. TAM 17002706  
STRUCTURAL  
COMPONENT ONLY 2/2



Manufacturer Info	TAMARACK LUMBER 3255 NORTH SERVICE RD., ON CANADA (905) 335-1115





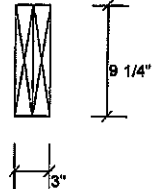
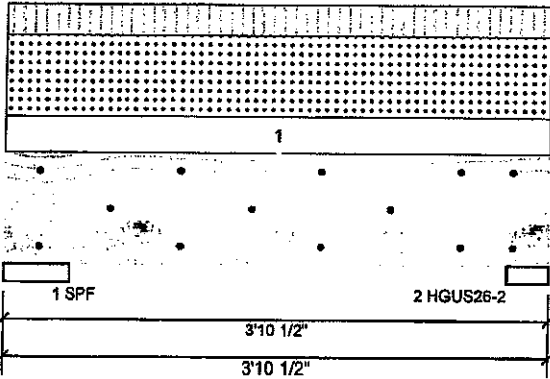
isDesign™

Client: Greenpark Homes  
Project: Preston 2  
Address: Caledon

Date: 2019-02-05  
Designer: Brian  
Job Name: Lamberts Lane Homes Corp.  
Project #: 200170

**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level



**Member Information**

Type: Girder	Application: Floor (Residential)
Plies: 2	Design Method: LSD
Moisture Condition: Dry	Building Code: NBCC 2015 / OBC 2012
Deflection LL: 360	Load Sharing: No
Deflection TL: 360	Deck: Not Checked
Importance: Normal	Vibration: Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind
1	133	158	352	0
2	122	145	323	0

**Bearings and Factored Reactions**

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	8%	197 / 661	958 L 1.25D+1.5S +L
2 - HGUS...	3.500"	12%	181 / 606	767 L 1.25D+1.5S +L

**Analysis Results**

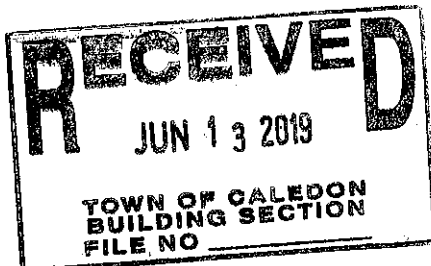
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	580 ft-lb	2' 1/4"	6039 ft-lb	0.093 (9%)	1.25D+1.5S	L
Unbraced	580 ft-lb	2' 1/4"	5726 ft-lb	0.098 (10%)	1.25D+1.5S	L
Shear	690 lb	12"	3984 lb	0.173 (17%)	1.25D+1.5S	L
Perm Defl in. (L/54289)	0.001	2' 1/4"	0.108 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch (L/20457)	0.002	2' 1/4"	0.108 (L/360)	0.020 (2%)	S+0.5L	L
TL Defl inch (L/14858)	0.003	2' 1/4"	0.108 (L/360)	0.020 (2%)	D+S+0.5L	L

**Design Notes**

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 1902707  
STRUCTURAL  
COMPONENT ONLY 1/3



Manufacturer Info	TAMARACK LUMBER 3255 NORTH SERVICE RD., ON CANADA (805) 335-1115
	<b>TAMARACK LUMBER INC</b> ALPHA LUMBER GROUP

This design is valid until 2021-12-11





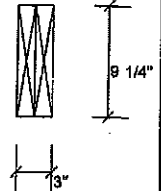
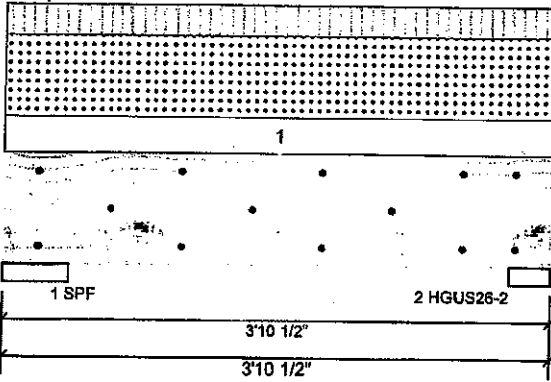
isDesign™

Client: Greenpark Homes  
Project: Preston 2  
Address: Caledon

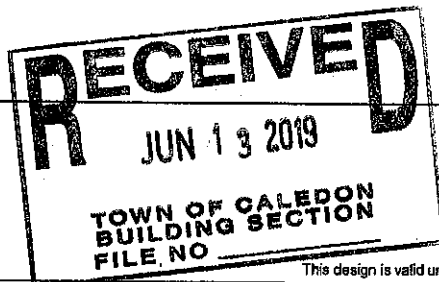
Date: 2019-02-06  
Designer: Brian  
Job Name: Lamberts Lane Homes Corp.  
Project #: 200170

**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		6-0-0	Near Face	13 PSF	11 PSF	29 PSF	0 PSF	



DWG NO. TAM 1790 2707  
STRUCTURAL  
COMPONENT ONLY 2/3

Manufacturer Info

TAMARACK LUMBER  
3255 NORTH SERVICE RD., ON  
CANADA  
(905) 335-1115



This design is valid until 2021-12-11





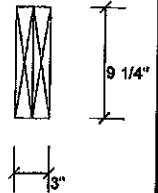
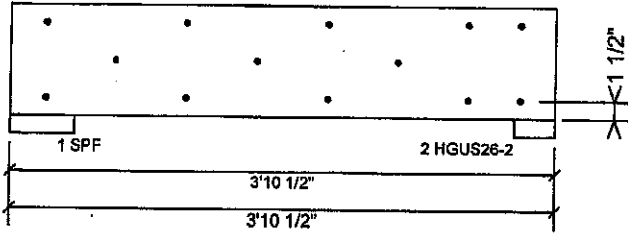
isDesign™

Client: Greenpark Homes  
Project: Preston 2  
Address: Caledon

Date: 2019-02-05  
Designer: Brian  
Job Name: Lamberts Lane Homes Corp.  
Project #: 200170

**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

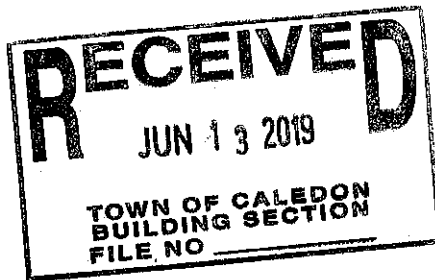
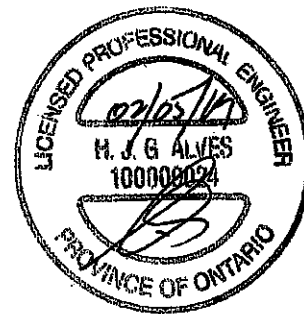
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	55.4 %
Load	212.3 PLF
Yield Limit per Foot	383.4 PLF
Yield Limit per Fastener	127.8 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



DWG NO. TAM T1902707  
STRUCTURAL  
COMPONENT ONLY 7/3

Manufacturer Info	TAMARACK LUMBER 3255 NORTH SERVICE RD, ON CANADA (905) 335-1115
	<b>TAMARACK LUMBER INC</b> ALFA LUMBER GROUP

This design is valid until 2021-12-11



**THIS STRUCTURE MUST BE  
CONSTRUCTED TO MEET OR  
EXCEED THE PROVISIONS OF  
THE ONTARIO BUILDING CODE**

Simpson Strong-Tie Wood Connection Connectors — Canadian / U.S. Design

**LUL/LUS/LJS/HUS/HHUS/HGUS**



**Standard and Double-Shear Joist Hangers**



*This product is preferable to similar connectors because of a) easier installation, b) higher capacities, c) lower installed cost, or a combination of these features.*

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

**Material:** See table on pp. 258–259.

**Finish:** Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

**Installation:**

- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

**Options:**

- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options Information on p. 126.



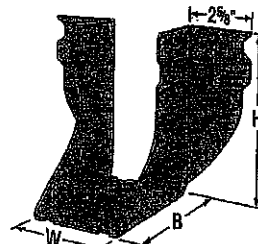
**LUS28**



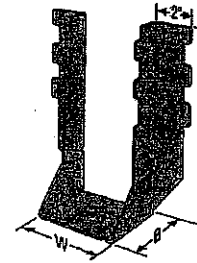
**LU26L**



**HUS210**  
(HUS26, HUS28, and HHUS similar)



**HGUS28-2**



**HHUS210-2**



Double-Shear Nailing Top View



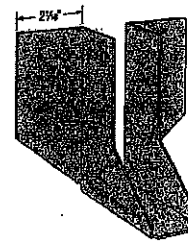
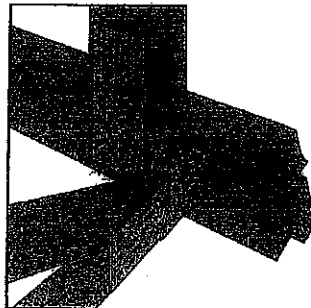
Double-Shear Nailing Side View; Do not bend tab



Dome Double-Shear Nailing Side View (available on some models) U.S. Patent 5,803,580

Plated Truss Connectors

Typical HUS26 Installation with Reduced Heel Height (Truss Designer to provide fastener quantity and spacing; multiple hangers together)

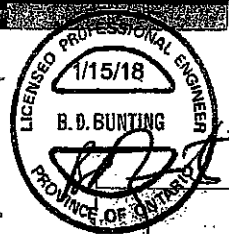
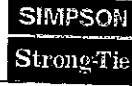


**LJS26DS**

**RECEIVED**  
JUN 13 2019  
TOWN OF CALEDON  
BUILDING SECTION  
FILE NO

C-C-CAN2018 © 2017 SIMPSON STRONG-TIE COMPANY INC.

# LUL/LUS/LJS/HUS/HHUS/HGUS



## HHUS/HGUS

See Hanger Options Information on pp. 125-127.

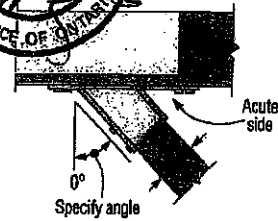
### HHUS - Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

### HGUS - Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.62 of table value	0.46 of table value
2" < W < 6"	Bevel cut	0.67 of table value	0.41 of table value
2" < W < 6"	Square cut	0.46 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger Skewed Right (joist must be bevel cut) All joist nails installed on the outside angle (non-acute side).

## Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

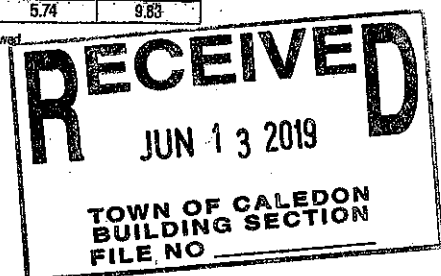
These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Plated Truss Connectors

Model No.	Gal.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d <sub>o</sub> <sup>3</sup>	Header	Joist	Down		Uplift	
								lb.	lb.	lb.	lb.
Single 2x Sizes											
LUS24	18	1 3/8	3 1/2	1 3/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
LU24L	22	1 3/8	3	1 1/2	2 1/8	(4) 10d	(2) 10d x 1 1/2"	560	1020	320	725
LU24L	22	1 3/8	5	1 1/2	4 1/2	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140
LUS26	18	1 3/8	4 1/4	1 3/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26	16	1 3/8	5 3/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2085	3875
LUS26DS	18	1 3/8	5	3 1/4	4 1/4	(18) 16d	(6) 16d	2055	4265	1480	4115
HGUS26	12	3 1/8	5 3/8	5	4 1/4	(20) 16d	(8) 16d	2685	6625	2685	5700
LU28L	20	1 3/8	6 3/4	1 1/2	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1650
LUS28	18	1 3/8	6 1/2	1 1/2	3 3/4	(6) 10d	(4) 10d	1420	2520	1290	1790
HUS28	16	1 3/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
HGUS28	12	1 3/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
LU210L	20	1 3/8	8	1 1/2	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
LUS210	18	1 3/8	7 1/4	1 1/2	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210

1. Factored uplift resistances have been increased 15% for wind or earthquakes loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d<sub>o</sub> is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/4" long. See pp. 27-28 for other nail sizes and information.

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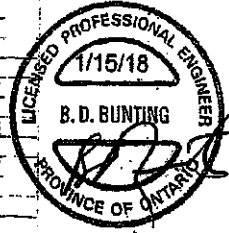
# Face-Mount Hangers



These products are available with additional corrosion protection. For more information, see p.24.

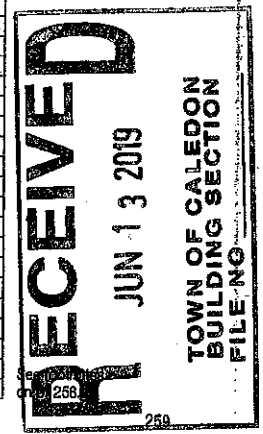
These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

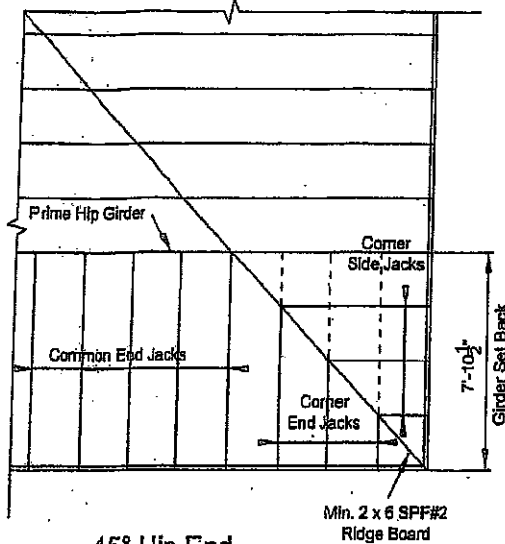
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d <sub>p</sub>	Header	Joist	S-P-F			
								Uplift (K <sub>1</sub> = 1.16)	Normal (K <sub>2</sub> = 1.00)	lb.	kN
<b>Double 2x Sizes</b>											
LUS24-2	18	3 1/4	3 1/4	2	1 1/4	(4) 16d	(2) 16d	835	2020	590	1495
SS LUS28-2	18	3 1/4	4 1/4	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS26-2	14	3 3/4	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2850	7335	2065	5205
HGUS26-2	12	3 3/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
SS LUS28-2	18	3 1/4	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS28-2	14	3 3/4	7 1/4	3	6 1/4	(22) 16d	(6) 16d	3765	8940	2675	6345
HGUS28-2	12	3 3/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
SS LUS210-2	18	3 1/4	9	2	6	(8) 16d	(8) 16d	2580	4500	2320	3195
HHUS210-2	14	3 3/4	9 1/4	3	8	(30) 16d	(10) 16d	4670	8660	4235	7000
HGUS210-2	12	3 3/4	9 1/4	4	8 1/4	(48) 16d	(16) 16d	8840	14015	4855	10270
<b>Triple 2x Sizes</b>											
HGUS26-3	12	4 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-3	14	4 1/4	9	3	7 1/4	(30) 16d	(10) 16d	4670	9670	4235	6865
HGUS210-3	12	4 1/4	9 1/4	4	8 1/4	(48) 16d	(16) 16d	8840	14645	4855	10400
<b>Quadruple 2x Sizes</b>											
HGUS26-4	12	6 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-4	14	6 1/4	9 1/4	3	7 1/4	(30) 16d	(10) 16d	4670	10155	4235	7210
HGUS210-4	12	6 1/4	9 1/4	4	8 1/4	(48) 16d	(16) 16d	8840	14645	4855	10400
HGUS212-4	12	6 1/4	10 1/4	4	10 1/4	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 1/4	12 1/4	4	11 1/4	(68) 16d	(22) 16d	10130	16400	7195	11645
<b>4x Sizes</b>											
LUS48	18	3 3/4	4 1/4	2	3 3/4	(4) 16d	(4) 16d	1720	2595	1545	1920
SS HHUS48	14	3 3/4	5 1/4	3	3 3/4	(14) 16d	(6) 16d	2540	7335	2065	5205
HGUS48	12	3 3/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS48	18	3 3/4	6 1/4	2	3 3/4	(6) 16d	(4) 16d	1720	3325	1545	2575
SS HHUS48	14	3 3/4	7 1/4	3	6 1/4	(22) 16d	(6) 16d	3765	8940	2675	6345
HGUS48	12	3 3/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS410	18	3 3/4	8 1/4	2	5 3/4	(8) 16d	(6) 16d	2580	4500	2320	3195
SS HHUS410	12	3 3/4	9	4	8 3/4	(48) 16d	(16) 16d	8840	14015	4855	10270
HGUS412	12	3 3/4	10 1/4	4	10 1/4	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS414	12	3 3/4	12 1/4	4	11 1/4	(68) 16d	(22) 16d	10130	16400	7195	11645



Plated Truss Connectors

C-C-CAV2018 © 2017 SIMPSON STRONG-TIE COMPANY INC.





**45° Hip End**

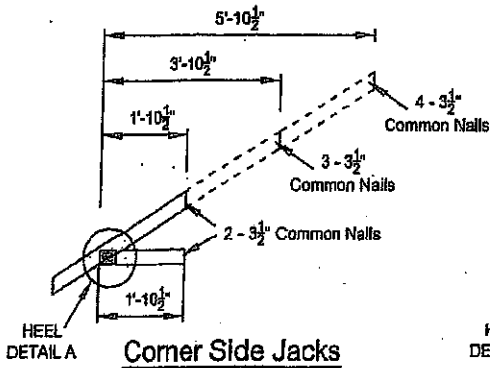
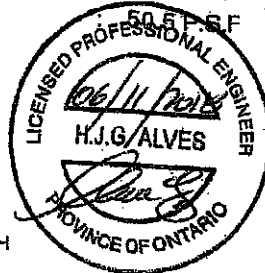
**LUMBER SPECIFICATION**

TOP CHORD : 2 x 4 SPF#2  
 BOTTOM CHORD : 2 x 4 SPF#2  
 WEBS : 2 x 3 SPF#2  
 UNLESS OTHERWISE SHOWN

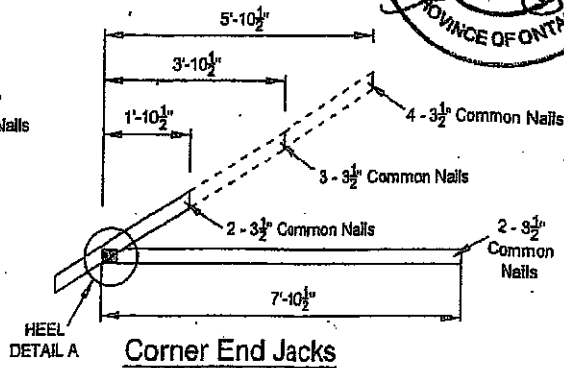
**DESIGN LOAD**

TOP CHORD SNOW LOAD : 40.5 P.S.F.  
 TOP CHORD DEAD LOAD : 3.0 P.S.F.  
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

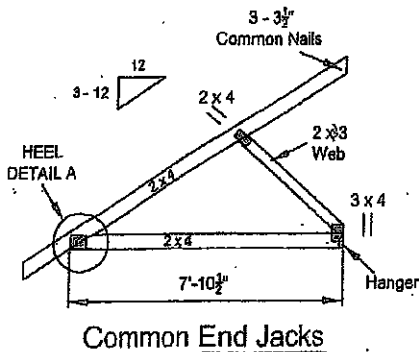
**TOTAL LOAD**



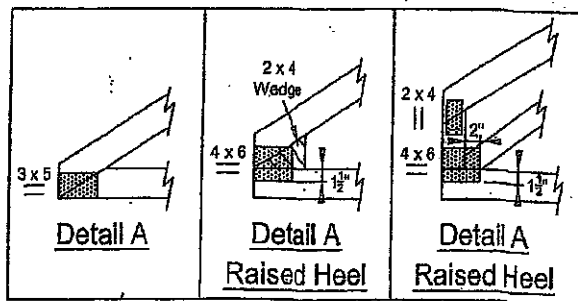
**Corner Side Jacks**



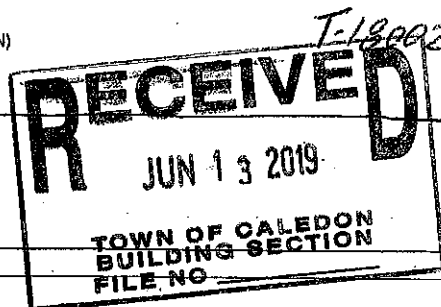
**Corner End Jacks**



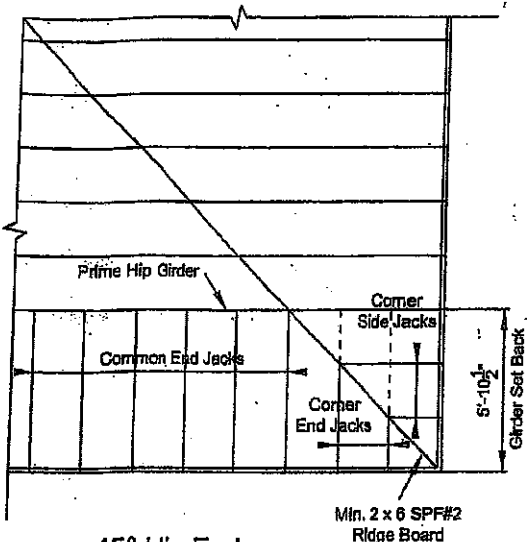
**Common End Jacks**



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)







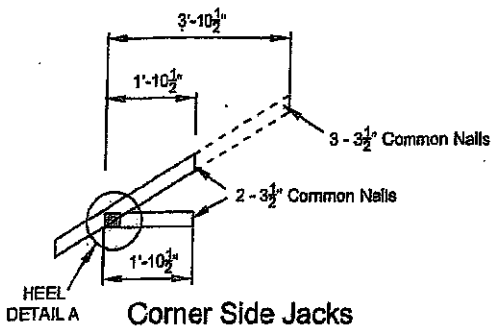
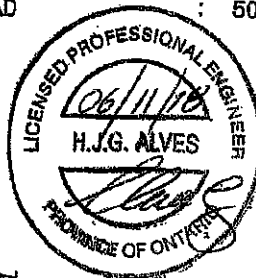
**45° Hip End**

**LUMBER SPECIFICATION**

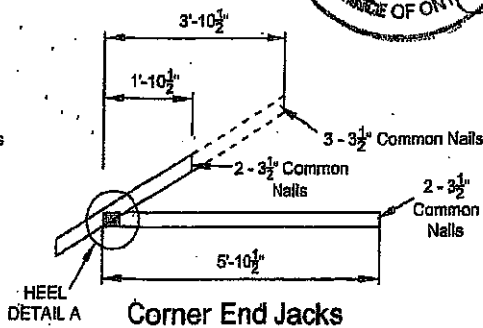
TOP CHORD : 2 x 4 SPF#2  
 BOTTOM CHORD : 2 x 4 SPF#2  
 WEBS : 2 x 3 SPF#2  
 UNLESS OTHERWISE SHOWN

**DESIGN LOAD**

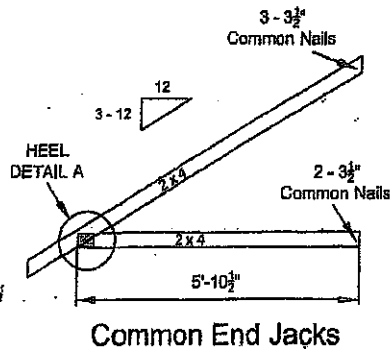
TOP CHORD SNOW LOAD : 40.5 P.S.F.  
 TOP CHORD DEAD LOAD : 3.0 P.S.F.  
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.  
 TOTAL LOAD : 50.5 P.S.F



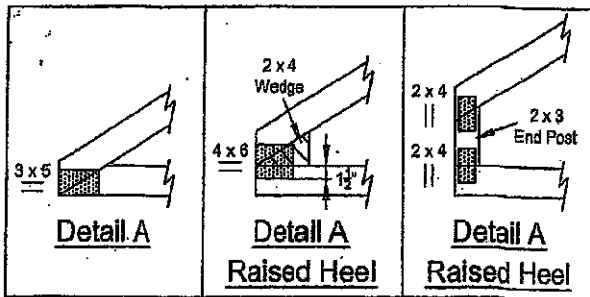
**Corner Side Jacks**



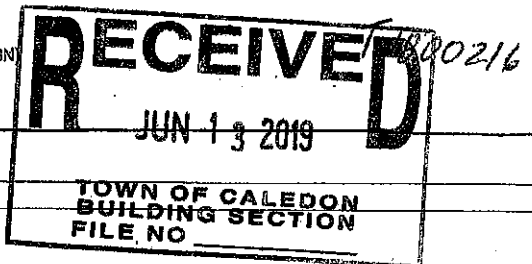
**Corner End Jacks**



**Common End Jacks**



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)





**ONTARIO WOOD TRUSS  
FABRICATORS ASSOCIATION**

# TECH-NOTES

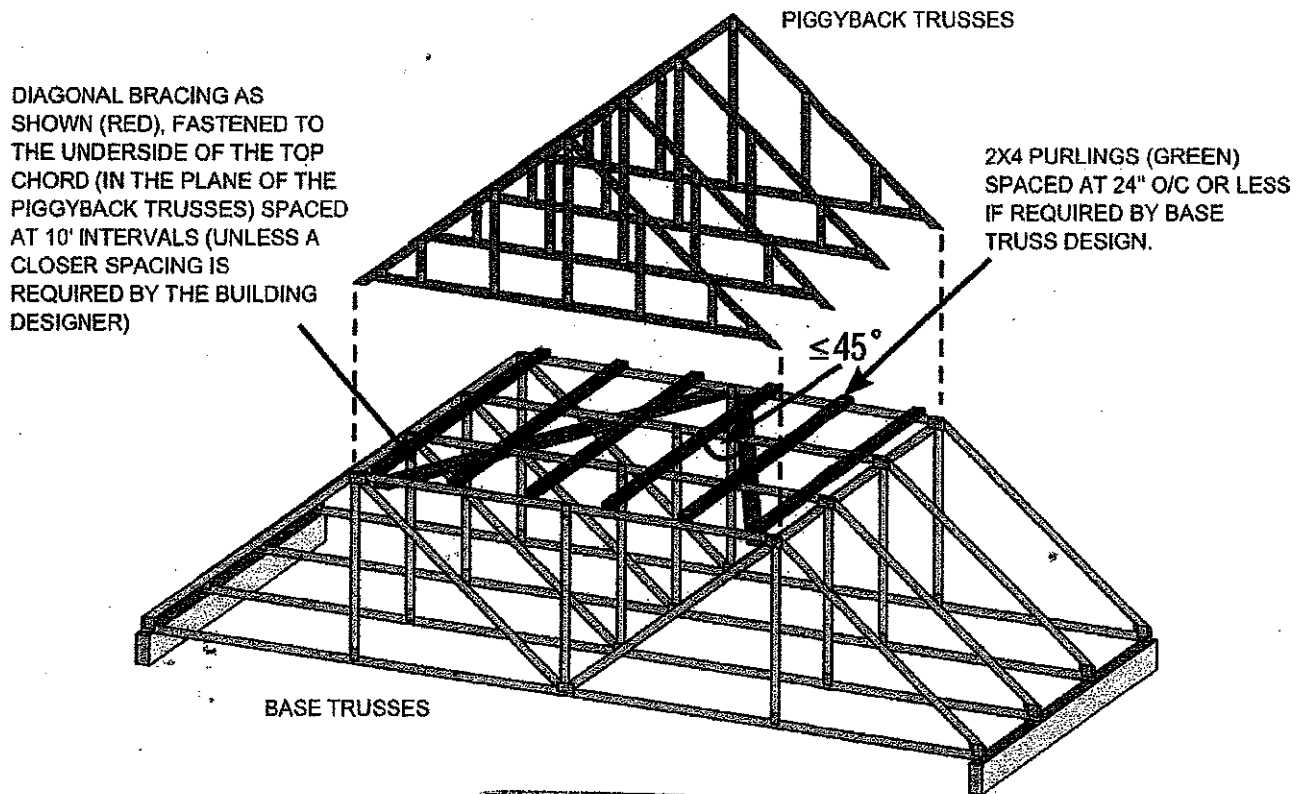
## TN 15-001 Piggyback Bracing

### Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

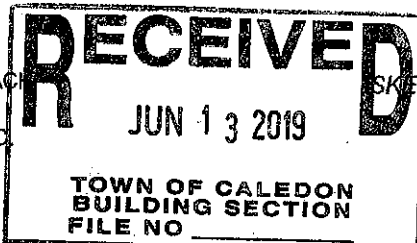
Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

### Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013



### Disclaimer:

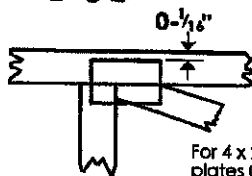
OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

## Symbols

### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in 1/16ths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

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

### PLATE SIZE

4 x 4

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

### LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

### BEARING



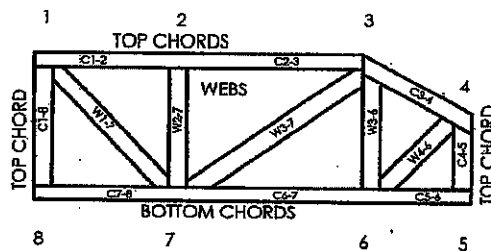
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

- TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses  
 DSB-89: Design Standard for Bracing  
 BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System

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



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

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

### PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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**MiTek**  
 POWER TO PERFORM.™

MiTek Engineering Reference Sheet: Mil-7473C rev. 10-'08

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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 BUILDING SECTION  
 FILE NO



## Alves Engineering Services Inc.

5208 Easton road  
Burlington, Ontario L7L 6N6  
(289) 259 5455

### RESPONSABILITIES

1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components

2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.

3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.

4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.

5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

### SPECIFICATIONS

1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard Identified on the current Building Code and TPIC.

2- Lumber is to be the sizes and grade specified on the truss drawing.

3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.

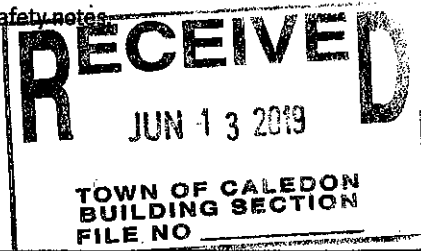
4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings

5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.

6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)

7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.

8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes



T-1900218

Feb 09, 2018