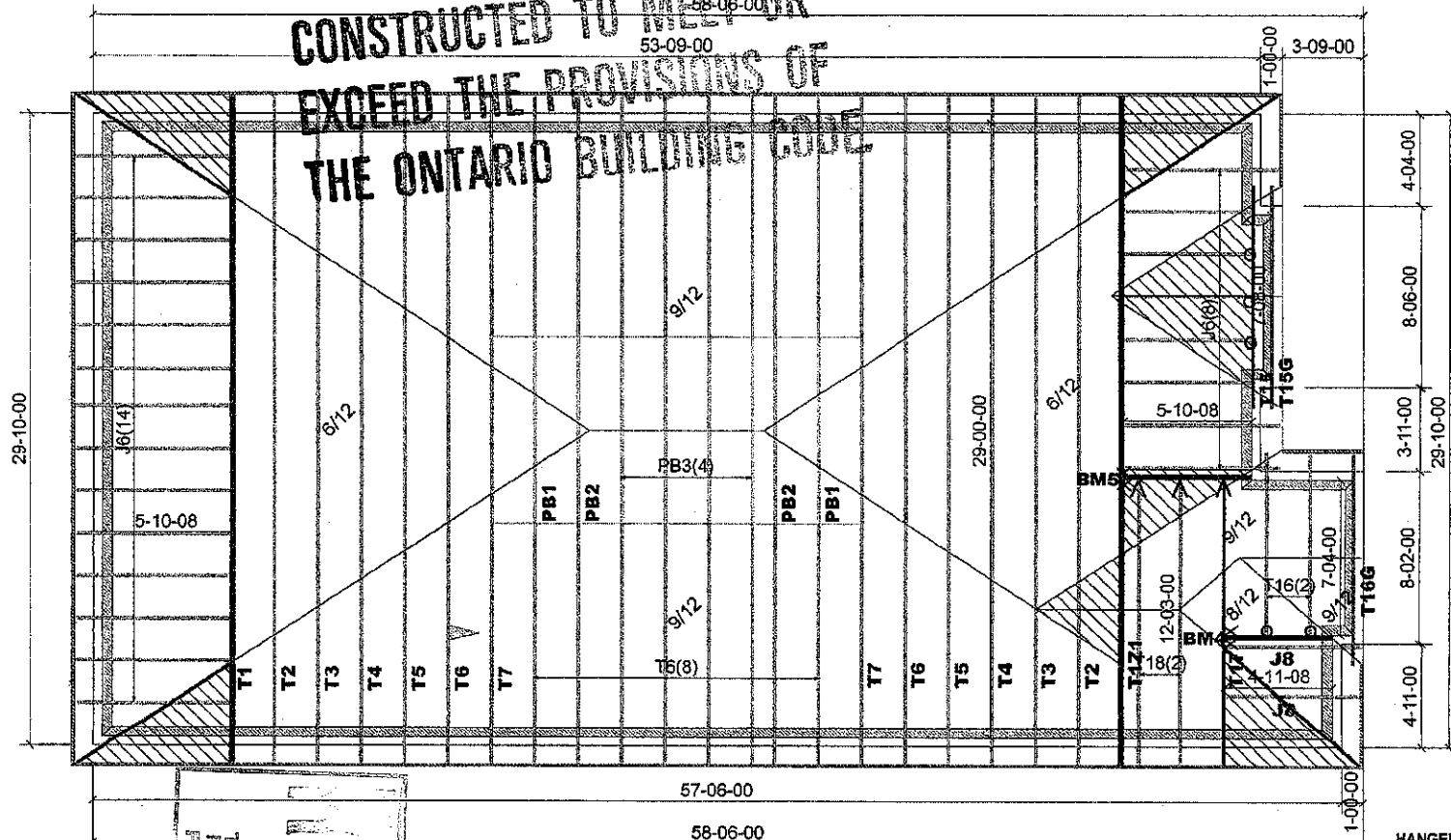


**THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE**



ASPHALT SHINGLES
12" FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD

HARDWARE:
LUS24 (o)
LJS26DS (V)
HGUS26-2 (XX)

DENOTES
CONV.
FRAMING

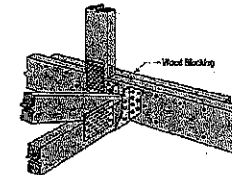
GSL 37.6 PSF

DESIGN CONFORMS
WITH O.B.C. 2012 PART 9
DESIGN LOADS:

TC LIVE 29 PSF
TC DEAD 3 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF

BM4,5 = 2 2X10

HANGERS APPLIED TO A 1-PLY
GIRDERS REQUIRE A BLOCK SCABBED
BEHIND, APPROX. 2" O.C. WITH HANGER



ALL CONV. FRAMINGS TO CONFORM WITH PART 9 OF O.B.C.2012
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4
SPF @ 24" O.C. WITH A 2x4 VERT. POST TO THE TRUSS
UNDERNEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6'
TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN
END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'

APPLICANT COPY



Job Track: 50120

Plan Log: 200444

Layout ID: 401157

Builder / Location:

Greenpark / Caledon

Project: Lamberts Lane Home Corp.

Date: 2019-02-01

Designer: CS/BF

Model / Elevation:

Preston 3 / ELV. 2 Lot 17

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OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY
TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER
PURPOSE.

Mitek ver 8.2.3.228



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 3
 Lot #: 17
 Elevation: 2

Job Track: 50120
 PlanLog: 200444
 Layout ID: 401157
 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	T1 Hip Girder	9/12	29-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	280.72 181.33		
	1 2-ply	T1Z1 Hip Girder	9/12	29-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	280.72 181.33		
	2	T2 Hip	9/12	29-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	233.03 147.33		
	2	T3 Hip	9/12	29-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	264.02 165.33		
	2	T4 Hip	9/12	29-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	256.45 170.33		
	2	T5 Hip	9/12	29-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	269.95 175.33		
	10	T6 Hip	9/12	29-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	1416.85 905.00		
	2	T7 Hip	9/12	29-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	275.24 180.00		
	1	T15 Common Girder	9/12	7-08-00	4-04-12	2 x 4 2 x 6	1-05-00 1-05-00	1-06-04 1-06-04	40 24.67		
	1	T15G GABLE	9/12	7-08-00	4-04-12	2 x 4	1-05-00 1-05-00	1-06-04 1-06-04	38.43 24.33		
	2	T16 Common	9/12	7-04-00	4-03-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	88.05 46.67		
	1	T16G GABLE	9/12	7-04-00	4-03-04	2 x 4	1-05-00 1-03-08	1-06-04 1-06-04	34.88 24.33		
	1	T17 Hip Girder	9/12	12-03-00	4-08-08	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	64.88 42.67		
	2	T18 Hip	9/12	12-03-00	6-01-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	112.92 75.33		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 3
 Lot #: 17
 Elevation: 2

Job Track: 50120
 PlanLog: 200444
 Layout ID: 401157
 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
	2	PB1 Piggyback	9/12	8-09-05	2-00-00	2 x 4			44.18 30.67		
	2	PB2 Piggyback	9/12	8-09-05	3-00-00	2 x 4			45.23 29.67		
	4	PB3 Piggyback	9/12	8-09-05	3-03-08	2 x 4			92.05 59.33		
	22	J6 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	369.48 234.67		
	2	J8 Jack-Open	8/12	4-11-08	4-08-08	2 x 4	1-03-08	1-04-13 4-08-08	34.25 20.67		

TOTAL # TRUSS= 64

TOTAL BFT OF ALL TRUSSES= 2718.99 BFT.

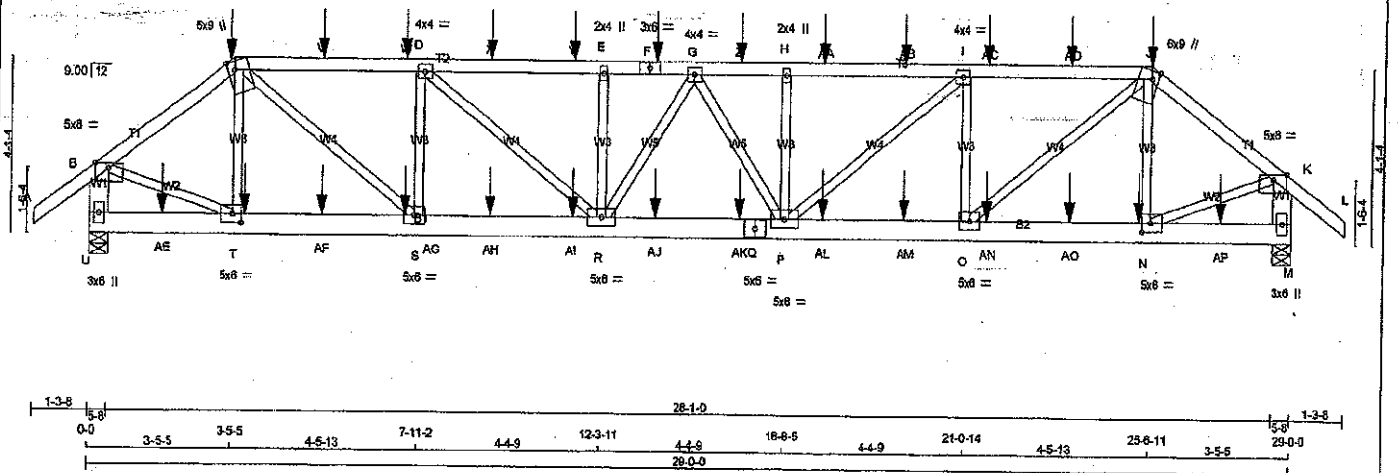
TOTAL WEIGHT OF ALL TRSSES 4209.11 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
3	Hardware	LJS26DS	
2	Hardware	HGUS26-2	
2	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 7

JOB NAME 200444-401156	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. Preston 3	TRUSS DESC.	ORWG NO.
Tamarack Roof Truss, Burlington						
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:06 2019 Page 1						
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Scale = 1:50.0						



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
U - B	2x8	DRY	No.2
M - K	2x6	DRY	No.2
U - Q	2x6	DRY	No.2
Q - M	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

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	12	SIDE(183.1)
Q-M	12	SIDE(183.1)
WEBS : (0.122'X3") SPIRAL NAILS		
2x3	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 PLIES 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 TMWw-p	MT20	5.0	8.0	Edge	
C TTWw-m	MT20	5.0	8.0	Edge 2.00	
D G.I					
E TMWw-l	MT20	4.0	4.0		
F TMWw-w	MT20	2.0	4.0		
G TS-l	MT20	3.0	6.0		
H TMWw-w	MT20	2.0	4.0		
I TTWw-m	MT20	5.0	8.0	Edge 2.00	
J TMWw-p	MT20	5.0	8.0	Edge	
M BMV-l+p	MT20	3.0	6.0		
N BMWw-l	MT20	5.0	6.0	2.50	2.50
O BMWw-l	MT20	5.0	6.0		
P BMWw-w-l	MT20	5.0	8.0		
Q BS-l	MT20	5.0	8.0		
R BMWw-w-l	MT20	5.0	8.0		
S BMWw-l	MT20	5.0	6.0		
T BMWw-l	MT20	5.0	6.0	2.50	2.50
U BMV-l+p	MT20	3.0	6.0		

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

BEARINGS		FACTORED		INPUT		REQD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
U	3968	0	0	3968	0	5-8	5-8
M	3979	0	0	3979	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	2833	1718 / 0	513 / 0	0 / 0	0 / 0	702 / 0	0 / 0
M	2842	1722 / 0	515 / 0	0 / 0	0 / 0	704 / 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 = 3.34 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		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. (PLF)	LC1 MAX. (CSI (LC))	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00	T-C	-734 / 0
B-C	-4201 / 0	-102.1	-102.1	0.19 (1)	4.50	C-S	0 / 3201
C-V	-5798 / 0	-102.1	-102.1	0.41 (1)	3.70	S-D	-1769 / 0
V-W	-5798 / 0	-102.1	-102.1	0.41 (1)	3.70	D-R	0 / 1478
W-D	-5798 / 0	-102.1	-102.1	0.41 (1)	3.70	R-E	-554 / 0
D-X	-6923 / 0	-102.1	-102.1	0.47 (1)	3.35	P-H	-542 / 0
X-Y	-6923 / 0	-102.1	-102.1	0.47 (1)	3.35	P-I	0 / 1485
Y-E	-6923 / 0	-102.1	-102.1	0.47 (1)	3.35	O-I	-1764 / 0
E-F	-6923 / 0	-102.1	-102.1	0.27 (1)	3.53	C-J	0 / 3197
F-G	-6923 / 0	-102.1	-102.1	0.27 (1)	3.53	N-J	-733 / 0
G-Z	-6921 / 0	-102.1	-102.1	0.27 (1)	3.53	B-T	0 / 3513
Z-H	-6921 / 0	-102.1	-102.1	0.27 (1)	3.53	N-K	0 / 3524
H-AA	-6921 / 0	-102.1	-102.1	0.48 (1)	3.34	R-G	-1487 / 0
AA-AB	-6921 / 0	-102.1	-102.1	0.48 (1)	3.34	G-P	-1487 / 0
AB-I	-6921 / 0	-102.1	-102.1	0.48 (1)	3.34		
I-AC	-5808 / 0	-102.1	-102.1	0.42 (1)	3.68		
AC-AD	-5808 / 0	-102.1	-102.1	0.42 (1)	3.68		
AD-J	-5808 / 0	-102.1	-102.1	0.42 (1)	3.68		
J-K	-4215 / 0	-102.1	-102.1	0.19 (1)	4.4		
K-L	0 / 42	-102.1	-102.1	0.08 (1)	10.00		
U-B	-3897 / 0	0.0	0.0	0.14 (1)	7.7		
M-K	-3809 / 0	0.0	0.0	0.14 (1)	7.7		
U-AE	0 / 0	-38.5	-38.5	0.05 (3)	10.00		
AE-T	0 / 0	-38.5	-38.5	0.05 (3)	10.00		
T-AF	0 / 3332	-38.5	-38.5	0.26 (1)	10.00		
AF-AG	0 / 3332	-38.5	-38.5	0.26 (1)	10.00		
AG-S	0 / 3332	-38.5	-38.5	0.26 (1)	10.00		
S-AH	0 / 5798	-38.5	-38.5	0.44 (1)	10.00		
AH-AI	0 / 5798	-38.5	-38.5	0.44 (1)	10.00		
AI-R	0 / 5798	-38.5	-38.5	0.44 (1)	10.00		
R-AJ	0 / 6895	-38.5	-38.5	0.52 (1)	10.00		
AJ-AK	0 / 6895	-38.5	-38.5	0.52 (1)	10.00		
AK-Q	0 / 6895	-38.5	-38.5	0.52 (1)	10.00		
Q-P	0 / 6895	-38.5	-38.5	0.52 (1)	10.00		
P-AL	0 / 5808	-38.5	-38.5	0.44 (1)	10.00		
AL-AM	0 / 5808	-38.5	-38.5	0.44 (1)	10.00		
AM-O	0 / 5808	-38.5	-38.5	0.44 (1)	10.00		
O-AN	0 / 3343	-38.5	-38.5	0.26 (1)	10.00		
AN-AO	0 / 3343	-38.5	-38.5	0.26 (1)	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 = 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, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018
- CSA 086-14
- 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/989 (0.97)
CALCULATED VERT. DEFL.(LL) = L/989 (0.17)
ALLOWABLE DEFL.(TL) = L/989 (0.97)
CALCULATED VERT. DEFL.(TL) = L/989 (0.27)

CSI: TC=0.48/1.00 (H+1), EC=0.52/1.00 (P-R:1),
WB=0.44/1.00 (K-N:1), SS=0.20/1.00 (C-D: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

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 650 371 1747 788 1997 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (C) (INPUT = 0.80)
JSI METAL= 0.84 (C) (INPUT = 1.00)

CONTINUED ON PAGE 2

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

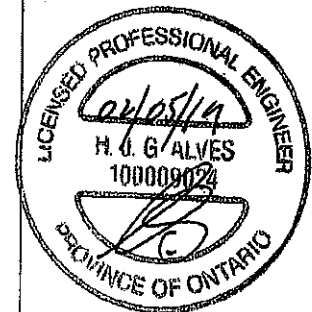
LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1: MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
AO-N	0/3343	-38.5	-38.5 0.28 (1)	10.00			
N-AP	0/0	-38.5	-38.5 0.05 (3)	10.00			
AP-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	3-5-5	-50	-56	---	FRONT	VERT	DEAD	---	---
C	3-5-5	-480	-480	---	BACK	VERT	TOTAL	---	---
C	3-5-5	-285	-285	---	FRONT	VERT	SNOW	---	---
F	13-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
J	25-6-11	-50	-56	---	FRONT	VERT	DEAD	---	---
J	25-6-11	-480	-480	---	BACK	VERT	TOTAL	---	---
J	25-6-11	-285	-285	---	FRONT	VERT	SNOW	---	---
N	25-3-4	-55	-70	---	BACK	VERT	TOTAL	---	---
T	3-8-12	-55	-70	---	BACK	VERT	TOTAL	---	---
V	5-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
W	7-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
X	9-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
Y	11-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
Z	15-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
AA	17-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
AB	19-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
AC	21-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
AD	23-7-4	-123	-123	---	BACK	VERT	TOTAL	---	---
AE	1-8-12	-55	-70	---	BACK	VERT	TOTAL	---	---
AF	5-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AG	7-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AH	9-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AI	11-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AJ	13-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AK	15-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AL	17-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AM	19-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AN	21-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AO	23-7-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AP	27-3-4	-55	-70	---	BACK	VERT	TOTAL	---	---

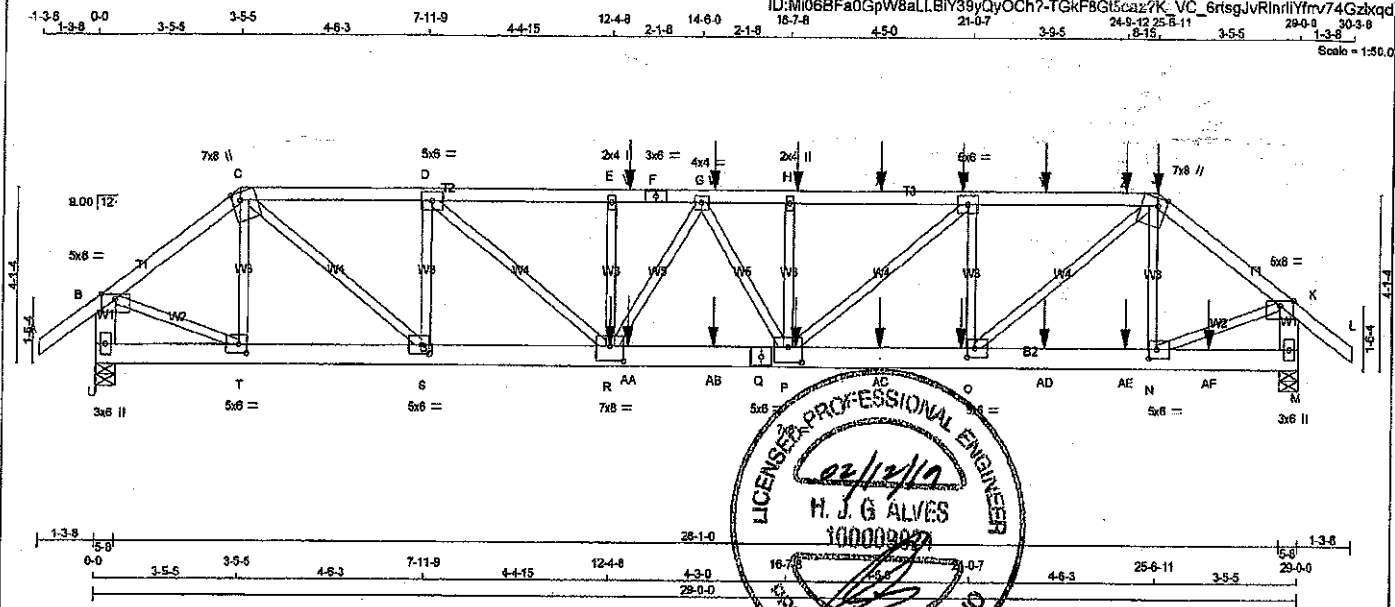


DWG NO. TAM *1902708*
STRUCTURAL
COMPONENT ONLY *2/4*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	Preston 3	DRWG NO.
200444-401157	T1Z1	1	2	TRUSS DESC.		

Temarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 12 08:53:26 2018 Page 1
ID:MI06Bfa0GpW8aLLBIY39yQyOCh7-TGKFBG5caz7K_VC_6rsgJvRinRiYfrv74Gzbxqd
24-6-12 25-6-11 3-5-5 1-3-6 30-3-8



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	
L - B	2x6	DRY	No.2	SPF	
B - K	2x6	DRY	No.2	SPF	
K - Q	2x6	DRY	No.2	SPF	
Q - M	2x6	DRY	No.2	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	12	TOP
C-F	12	SIDE(0.0)
F-J	12	SIDE(61.0)
J-L	12	SIDE(61.0)
L-B	12	TOP
B-K	12	TOP
BOTTOM CHORDS : (0.122'x3") SPIRAL NAILS		
U-Q	12	SIDE(183.1)
Q-M	12	SIDE(183.1)
WEBS : (0.122'x3") SPIRAL NAILS		
N-J	6	SIDE(51.7)
E-R	5	SIDE(364.0)
2x3	1	
O-I	6	
T-C	1	
T-B	1	
N-K	1	
D-S	1	
C-S	1	
D-R	1	
J-O	1	
I-P	1	
R-G	1	
G-P	1	

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 PLIES 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 TRANSFERING. 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 TMVV-p	MT20	5.0	8.0	Edge	
C TTMVW+m	MT20	7.0	8.0	Edge 2.50	
D TMVVW-t	MT20	5.0	6.0		
E TMVW-w	MT20	2.0	4.0		
F TS-t	MT20	3.0	6.0		
G TMVW-1	MT20	4.0	4.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
U	3804	0	3804	0
M	4531	0	4531	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	2889	1894 / 0	514 / 0	0 / 0	0 / 0	691 / 0	0 / 0
M	3342	1994 / 0	568 / 0	0 / 0	0 / 0	790 / 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 = 2.81 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	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	WEBS	MEMB.	FORCE (LBS)	FACTORED MAX. UNBRACED LENGTH
FR-TO	A-B	0 / 42	-102.1 -102.1	0.08 (1)	10.00	T-C	-832 / 0	0.11 (1)
	B-C	-4181 / 0	-102.1 -102.1	0.19 (1)	4.52	R-E	-363 / 0	0.05 (1)
	C-D	-6888 / 0	-102.1 -102.1	0.37 (1)	3.48	N-J	-895 / 0	0.11 (1)
	D-E	-9558 / 0	-102.1 -102.1	0.59 (1)	2.81	B-T	0 / 3479	0.43 (1)
	E-V	-9558 / 0	-102.1 -102.1	0.36 (1)	2.95	N-K	0 / 4079	0.50 (1)
	V-F	-9558 / 0	-102.1 -102.1	0.36 (1)	2.95	P-H	-508 / 0	0.08 (1)
	F-G	-9558 / 0	-102.1 -102.1	0.36 (1)	2.95	S-D	-2765 / 0	0.35 (1)
	G-W	-8915 / 0	-102.1 -102.1	0.34 (1)	3.08	O-I	-2376 / 0	0.30 (1)
	W-H	-8915 / 0	-102.1 -102.1	0.34 (1)	3.08	C-S	0 / 4847	0.56 (1)
	H-X	-8915 / 0	-102.1 -102.1	0.61 (1)	2.83	D-R	0 / 3482	0.43 (1)
	X-I	-8915 / 0	-102.1 -102.1	0.61 (1)	2.83	O-J	0 / 4163	0.52 (1)
	I-Y	-7085 / 0	-102.1 -102.1	0.48 (1)	3.31	P-I	0 / 2398	0.30 (1)
	Y-Z	-7085 / 0	-102.1 -102.1	0.48 (1)	3.31	R-G	0 / 462	0.08 (1)
	Z-J	-7085 / 0	-102.1 -102.1	0.46 (1)	3.31	G-P	-832 / 0	0.13 (1)
	J-K	-4879 / 0	-102.1 -102.1	0.21 (1)	4.20			
	K-L	0 / 42	-102.1 -102.1	0.08 (1)	10.00			
	U-B	-3863 / 0	0.0 0.0	0.14 (1)	7.20			
	M-K	-4474 / 0	0.0 0.0	0.16 (1)	6.80			
	U-T	0 / 0	-38.5 -38.5	0.04 (2)	10.00			
	T-S	0 / 3287	-38.5 -38.5	0.25 (1)	10.00			
	S-R	0 / 6888	-38.5 -38.5	0.53 (1)	10.00			
	R-AA	0 / 9327	-38.5 -38.5	0.71 (1)	10.00			
	AA-AB	0 / 9327	-38.5 -38.5	0.71 (1)	10.00			
	AB-Q	0 / 9327	-38.5 -38.5	0.71 (1)	10.00			
	Q-P	0 / 9327	-38.5 -38.5	0.71 (1)	10.00			
	P-AC	0 / 7085	-38.5 -38.5	0.53 (1)	10.00			
	AC-O	0 / 7085	-38.5 -38.5	0.53 (1)	10.00			
	O-AD	0 / 3868	-38.5 -38.5	0.30 (1)	10.00			
	AD-AE	0 / 3868	-38.5 -38.5	0.30 (1)	10.00			
	AE-N	0 / 3868	-38.5 -38.5	0.30 (1)	10.00			
	N-AF	0 / 0	-38.5 -38.5	0.05 (3)	10.00			
	AF-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.
	H	16-9-12	-123	-123	---	FRONT	VERT	TOTAL	---	---
	I	20-9-12	-123	-123	---	FRONT	VERT	TOTAL	---	---
	J	25-6-11	-50	-56	---	FRONT	VERT	DEAD	---	---
	J	25-6-11	-331	-331	---	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	=	28.0	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 ***
ADDTL. USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018
- CSA 088-14
- TPIC 2014

(5% 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 (0.22")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/961 (0.36")

CSI: TC=0.81/1.00 (H-I), BC=0.71/1.00 (P-R), WB=0.59/1.00 (C-S), SS=0.17/1.00 (J-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	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

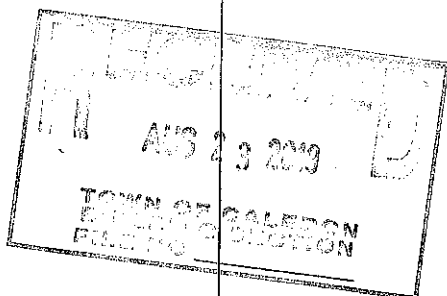
JSI GRIP=0.86 (S) (INPUT = 0.90)
JSI METAL=0.91 (C) (INPUT = 1.00)

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200444-401157	T1Z1	1	2	Preston 3	
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 12 08:33:26 2019 Page 2 ID: M106BFa0GpW8aLLBtY38yQvOCh?-TGKF8Gt5caz?K VC 8rtsgJvRlnrfYfrv74Gzlxad	

PLATES (table is in inches)						FACTORED CONCENTRATED LOADS (LBS)									
JT	TYPE	PLATES	W	LEN	Y X	JT	LOC	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	TMVW+w	MT20	2.0	4.0		J	25-6-11	-285	-285		FRONT	VERT	SNOW		
I	TMVW-t	MT20	5.0	6.0		O	20-9-12	-55	-70		FRONT	VERT	TOTAL		
J	TTVW+m	MT20	7.0	6.0	Edge 2.50	P	18-9-12	-55	-70		FRONT	VERT	TOTAL		
K	TMVW-p	MT20	5.0	6.0	Edge	R	12-4-8	-2097	-2097		FRONT	VERT	TOTAL		
M	BMV1+p	MT20	3.0	6.0		V	12-9-12	-123	-123		FRONT	VERT	TOTAL		
N	O, S, T					W	14-9-12	-123	-123		FRONT	VERT	TOTAL		
N	BMVW-t	MT20	5.0	6.0	2.50 2.25	X	18-9-12	-123	-123		FRONT	VERT	TOTAL		
P	BMVW-t	MT20	7.0	6.0	4.25 4.00	Y	22-9-12	-123	-123		FRONT	VERT	TOTAL		
Q	BS-t	MT20	5.0	6.0		Z	24-9-12	-136	-136		FRONT	VERT	TOTAL		
R	BMVW-t	MT20	7.0	6.0	4.25 4.00	AA	12-8-12	-55	-70		FRONT	VERT	TOTAL		
U	BMV1+p	MT20	3.0	6.0		AB	14-8-12	-55	-70		FRONT	VERT	TOTAL		
						AC	18-9-12	-55	-70		FRONT	VERT	TOTAL		
						AD	22-9-12	-55	-70		FRONT	VERT	TOTAL		
						AE	24-9-12	-55	-70		FRONT	VERT	TOTAL		
						AF	28-9-12	-55	-70		FRONT	VERT	TOTAL		

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

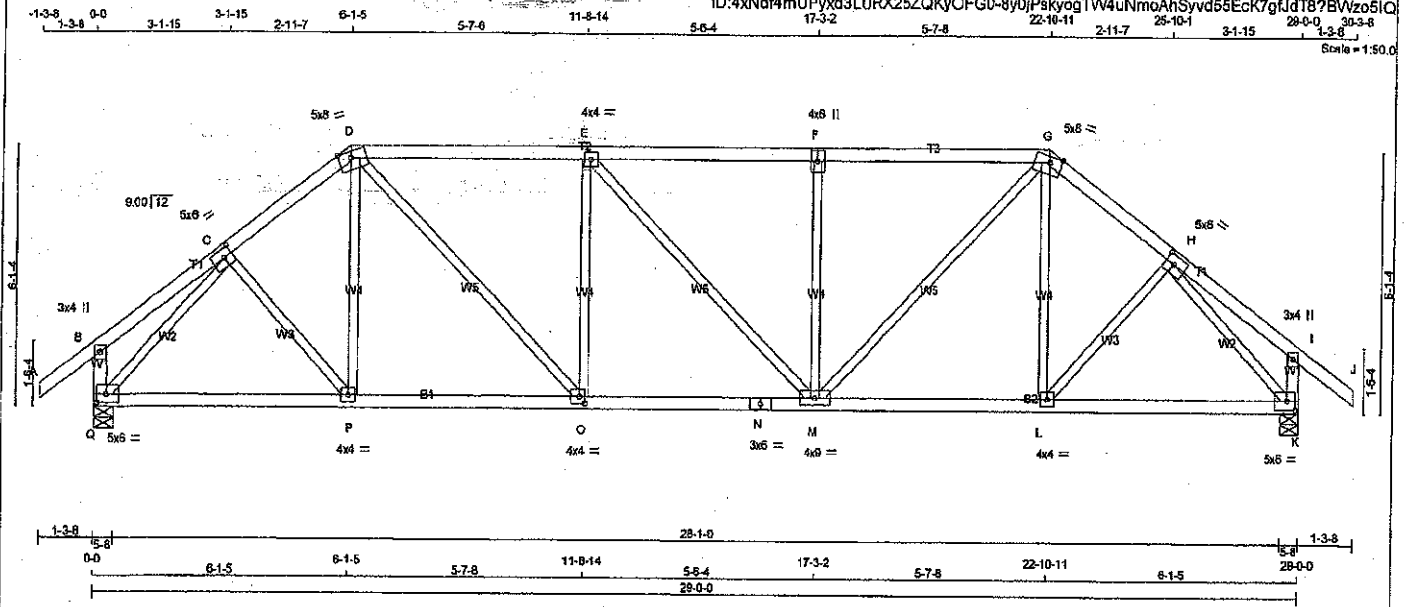


DWG NO. TAM T1703211
STRUCTURAL
COMPONENT ONLY 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200444-401156	T3	1	1	Preston 3	T3

Tamarack Roof Truss, Burlington

Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:28:07 2019 Page 1
ID:4xNdf4mUPyxd3LURX25ZQKyCFG0-8y0jPskygTW4uNoAhSyvd55Eck7gIdT87BWzo5IQ



TOTAL WEIGHT = 127 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 - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
O - 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
DRY, SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-i	MT20	5.0	8.0	2.50	2.50
D	TTWW-m	MT20	5.0	8.0	Edge	3.50
E	TMWW-i	MT20	4.0	4.0		
F	TSW-i	MT20	4.0	6.0		
G	TTWW-m	MT20	5.0	8.0	Edge	3.50
H	TMWW-i	MT20	5.0	6.0	2.50	2.50
I	TMV+p	MT20	3.0	4.0		
K	BMVW-i	MT20	5.0	6.0	2.50	2.50
L	BMWW-i	MT20	4.0	4.0		
M	BMWWW-i	MT20	4.0	9.0		
N	BS-i	MT20	3.0	6.0		
O	BMWW-i	MT20	4.0	4.0	2.00	1.50
P	BMWW-i	MT20	4.0	4.0		
Q	BMVW-i	MT20	5.0	6.0	2.50	2.50

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

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

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

UNFACTORED REACTIONS

JT	1ST LCASE	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 = 3.50 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 LC1 (LC)	MEMB.	MAX FACTORED FORCE (LBS)	MAX LC1 (LC)	MAX UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 42	-102.1	-102.1 0.14 (1)	10.00	C-P	0 / 212	0.05 (2)
B-C	0 / 18	-102.1	-102.1 0.12 (1)	10.00	P-D	0 / 202	0.05 (3)
C-D	-2175 / 0	-102.1	-102.1 0.18 (1)	4.48	D-O	0 / 1157	0.28 (1)
D-E	-2530 / 0	-102.1	-102.1 0.71 (1)	3.50	O-E	-828 / 0	0.37 (1)
E-F	-2464 / 0	-102.1	-102.1 0.70 (1)	3.58	E-M	-95 / 0	0.13 (1)
F-G	-2464 / 0	-102.1	-102.1 0.74 (1)	3.50	M-F	-482 / 0	0.29 (1)
G-H	-2175 / 0	-102.1	-102.1 0.18 (1)	4.48	M-G	0 / 1063	0.24 (1)
H-I	0 / 18	-102.1	-102.1 0.12 (1)	10.00	L-G	0 / 202	0.05 (3)
I-J	0 / 42	-102.1	-102.1 0.14 (1)	10.00	L-H	0 / 212	0.05 (2)
Q-B	-266 / 0	0.0	0.0 0.03 (1)	7.81	Q-C	-2413 / 0	0.82 (1)
K-I	-266 / 0	0.0	0.0 0.03 (1)	7.81	H-K	-2413 / 0	0.82 (1)
Q-P	0 / 1589	-38.5	-38.5 0.46 (2)	10.00			
P-O	0 / 1723	-38.5	-38.5 0.49 (2)	10.00			
O-N	0 / 2530	-38.5	-38.5 0.81 (1)	10.00			
N-M	0 / 2530	-38.5	-38.5 0.51 (1)	10.00			
M-L	0 / 1723	-38.5	-38.5 0.49 (2)	10.00			
L-K	0 / 1589	-38.5	-38.5 0.46 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 28.0	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 8.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018
- CSA 086-14
- TPC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 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=0.74/1.00 (F-G:1), BC=0.51/1.00 (M-Q:1)
WB=0.82/1.00 (H-K:1), SS=0.28/1.00 (D-E:1)

DCL 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.

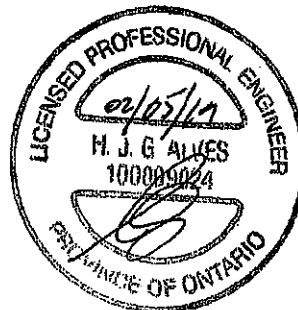
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	850	371	1747
	768	1997	1873

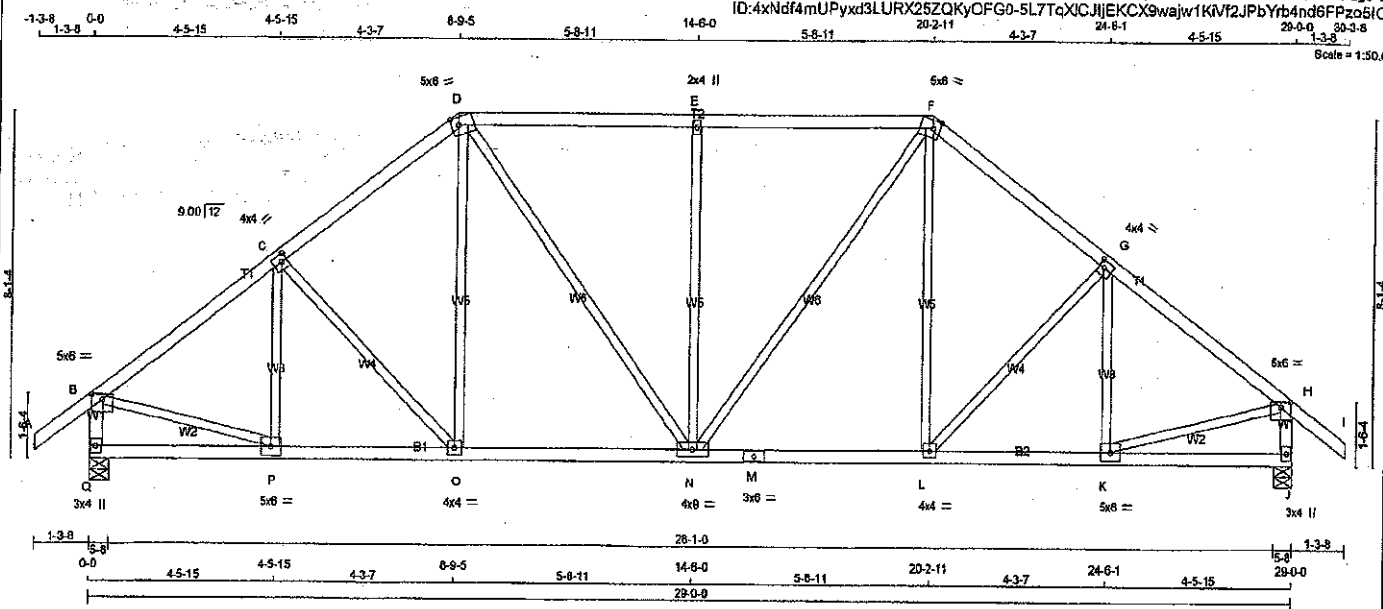
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL= 0.78 (N) (INPUT = 1.00)



DWG NO. TAM 17720 2710
STRUCTURAL
COMPONENT ONLY



TOTAL WEIGHT = 135 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
I - 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.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMVW-1	MT20	4.0	4.0	2.00	1.50
D	TTVW-m	MT20	5.0	6.0	Edge 2.00	
E	TMVW-w	MT20	2.0	4.0		
F	TTVW-m	MT20	5.0	6.0	Edge 2.00	
G	TMVW-1	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	1.50	3.00
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-1	MT20	5.0	6.0		
L	BMVW-1	MT20	4.0	4.0		
M	BS-1	MT20	3.0	6.0		
N	BMVW-1	MT20	4.0	4.0		
O	BMVW-1	MT20	4.0	4.0		
P	BMVW-1	MT20	5.0	6.0		
Q	BMV1+p	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	REQD 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 CASE		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 = 4.20 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CS1 (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	FACTORED MAX. CS1 (LC)	MAX.	
FR-TO		FROM-TO		LENGTH	FR-TO				
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	P-C	-289 / 23	0.10 (1)	
B-C	-2168 / 0	-102.1	-102.1	0.31 (1)	4.35	C-O	-218 / 0	0.18 (1)	
C-D	-2046 / 0	-102.1	-102.1	0.30 (1)	4.46	O-D	0 / 375	0.09 (2)	
D-E	-1856 / 0	-102.1	-102.1	0.48 (1)	4.29	D-N	0 / 581	0.13 (1)	
E-F	-1856 / 0	-102.1	-102.1	0.48 (1)	4.29	N-E	-712 / 0	0.90 (1)	
F-G	-2046 / 0	-102.1	-102.1	0.30 (1)	4.46	N-F	0 / 581	0.13 (1)	
G-H	-2168 / 0	-102.1	-102.1	0.31 (1)	4.35	L-F	0 / 375	0.08 (2)	
H-I	0 / 42	-102.1	-102.1	0.14 (1)	10.00	L-G	-218 / 0	0.18 (1)	
Q-B	-2105 / 0	0.0	0.0	0.22 (1)	5.84	K-G	-289 / 23	0.10 (1)	
J-H	-2105 / 0	0.0	0.0	0.22 (1)	5.84	B-P	0 / 1820	0.41 (1)	
						K-H	0 / 1820	0.41 (1)	
Q-P	0 / 0	-38.5	-38.5	0.13 (3)	10.00				
P-O	0 / 1759	-38.5	-38.5	0.39 (1)	10.00				
O-N	0 / 1813	-38.5	-38.5	0.41 (2)	10.00				
N-M	0 / 1813	-38.5	-38.5	0.41 (2)	10.00				
M-L	0 / 1813	-38.5	-38.5	0.41 (2)	10.00				
L-K	0 / 1759	-38.5	-38.5	0.39 (1)	10.00				
K-J	0 / 0	-38.5	-38.5	0.13 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 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 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018
- CSA 086-14
- TPC 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=0.48/1.00 (D-E:1), BC=0.41/1.00 (L-N:2), WB=0.90/1.00 (E-N:1), SSI=0.26/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

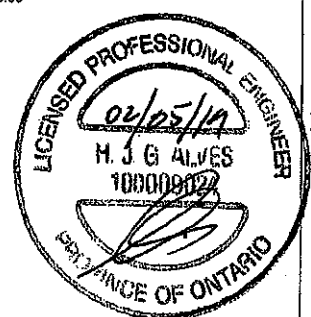
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

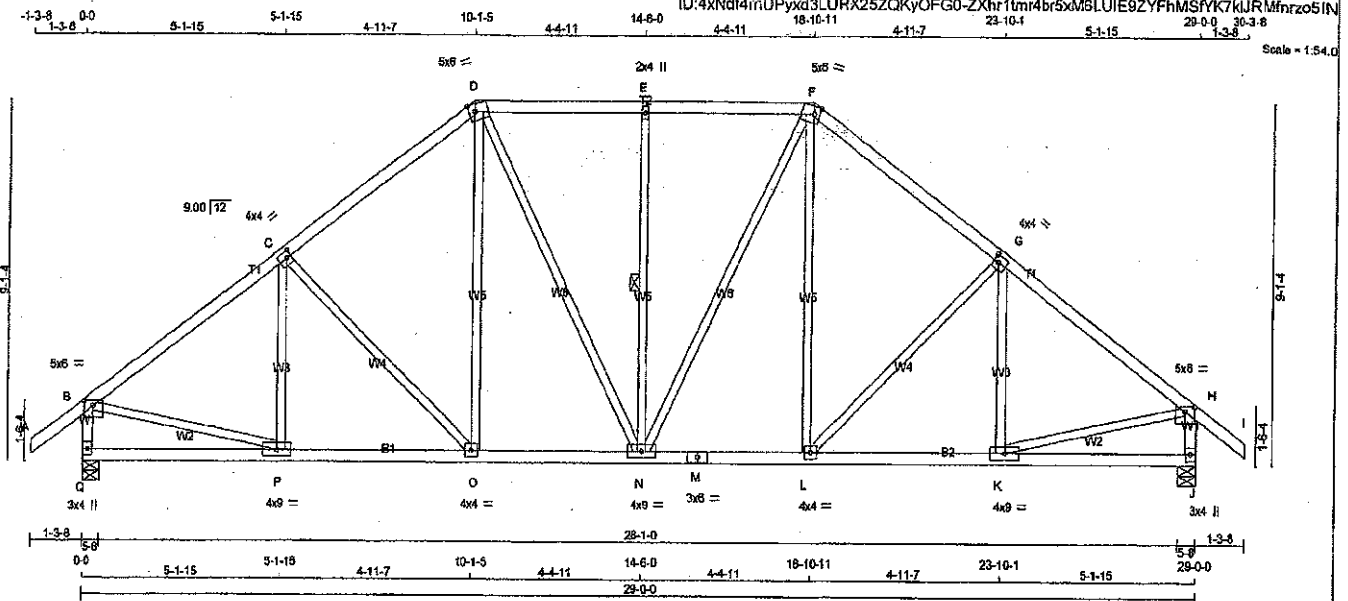
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (Q) (INPUT = 0.90)
JSI METAL= 0.51 (M) (INPUT = 1.00)



DWG NO. TAM 17902712
STRUCTURAL
COMPONENT ONLY



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	
I - H	2x4	DRY	No.2	SPF	
H - 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 TMVW-p	MT20	5.0	6.0	1.50	3.00
C TMVW-l	MT20	4.0	4.0	2.00	1.50
D TTWW-m	MT20	5.0	6.0	Edge	2.00
E TMVW-w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	6.0	Edge	2.00
G TMVW-l	MT20	4.0	4.0	2.00	1.50
H TMVW-p	MT20	5.0	6.0	1.50	3.00
J BMV1+p	MT20	3.0	4.0		
K BMVW-l	MT20	4.0	9.0		
L BMVW-l	MT20	4.0	4.0		
M BS-t	MT20	3.0	6.0		
N BMVW-l	MT20	4.0	9.0		
O BMVW-l	MT20	4.0	4.0		
P BMVW-l	MT20	4.0	9.0		
Q BMV1+p	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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
Q	2180	0	2180	0	0	5-8	5-8	5-8	5-8
J	2180	0	2180	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS	WIND	DEAD	SOIL
Q	1620	922 / 0	305 / 0	0 / 0	0 / 0	384 / 0	0 / 0
J	1620	922 / 0	305 / 0	0 / 0	0 / 0	384 / 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 = 4.21 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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO		FROM TO	CSI (LC)	MAX. UNBRAC LENGTH FR-TO			
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	P-C	-194 / 98	0.08 (1)
B-C	-2198 / 0	-102.1 -102.1	0.42 (1)	4.21	C-O	-364 / 0	0.36 (1)
C-D	-1954 / 0	-102.1 -102.1	0.39 (1)	4.44	D-N	0 / 444	0.10 (2)
D-E	-1708 / 0	-102.1 -102.1	0.28 (1)	4.82	N-F	0 / 389	0.09 (1)
E-F	-1708 / 0	-102.1 -102.1	0.28 (1)	4.82	F-G	-538 / 0	0.29 (1)
F-G	-1954 / 0	-102.1 -102.1	0.39 (1)	4.44	G-H	0 / 389	0.09 (1)
G-H	-2198 / 0	-102.1 -102.1	0.42 (1)	4.21	H-I	0 / 444	0.10 (2)
H-I	0 / 42	-102.1 -102.1	0.14 (1)	10.00	I-J	-364 / 0	0.36 (1)
I-J	-2098 / 0	0.0 0.0	0.22 (1)	5.84	J-K	-194 / 98	0.08 (1)
J-K	-2098 / 0	0.0 0.0	0.22 (1)	5.84	K-P	0 / 1834	0.41 (1)
					P-H	0 / 1834	0.41 (1)
Q-P	0 / 0	-38.5 -38.5	0.19 (3)	10.00			
P-O	0 / 1787	-38.5 -38.5	0.42 (2)	10.00			
O-N	0 / 1535	-38.5 -38.5	0.34 (1)	10.00			
N-M	0 / 1535	-38.5 -38.5	0.34 (1)	10.00			
M-L	0 / 1535	-38.5 -38.5	0.34 (1)	10.00			
L-K	0 / 1787	-38.5 -38.5	0.42 (2)	10.00			
K-J	0 / 0	-38.5 -38.5	0.19 (3)	10.00			

A circular seal with the word "PROFESSIONAL" in a large, bold, serif font across the middle. The seal is partially cut off on the right side.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
EOT 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 089-09, CSA 089-14
- 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) = $L/599$ (0.07")
ALLOWABLE DEFL. (TL) = $L/360$ (0.97")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.12")

CSI: TC=0.42/1.00 (G-H-I), BC=0.42/1.00 (K-L-2), WB=0.41/1.00 (H-K-I), SSI=0.22/1.00 (D-E-I)

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

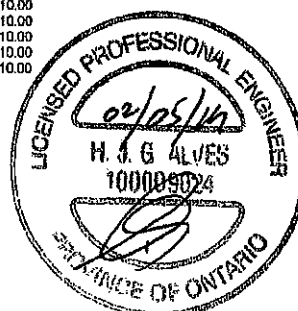
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1867 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

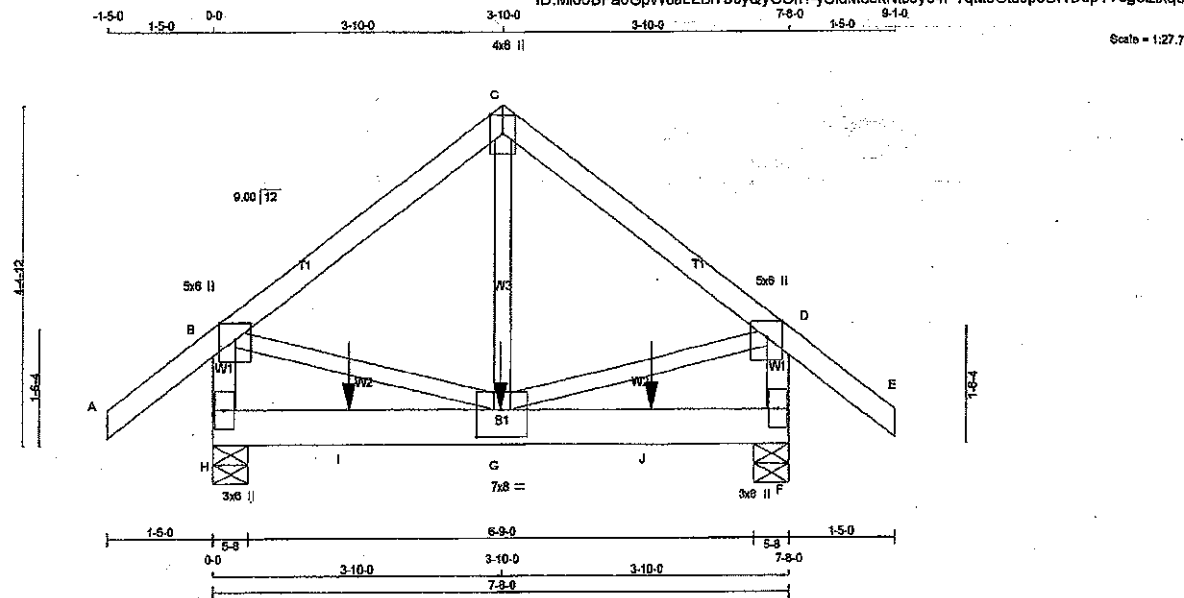
JSI GRIP= 0.89 (P) (INPUT = 0.90)
JSI METAL= 0.50 (M) (INPUT = 1.00)



DWG NO. TAM 17902713
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200444-401157	T15	1	1	Preston 3	T15
TAMARACK ROOF TRUSS, BURLINGTON		TRUSS DESC.			

Version 8.230 S Nov 17 2016 MITek Industries, Inc. Tue Feb 12 08:53:27 2019 Page 1
ID: M008BFA0GpW6aLLBiY39yQyOCn7ySldMcukNt5sy84PYqM80Is9p9Dr1Dup4Vegcizbxq



TOTAL WEIGHT = 40 lb

LUMBER	N. L. G. A. RULES	LUMBER	DESCR.
CHORDS	SIZE		
A - C	2x4 DRY	No.2	SPF
C - E	2x4 DRY	No.2	SPF
H - B	2x4 DRY	No.2	SPF
F - D	2x4 DRY	No.2	SPF
H - F	2x6 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			

DRY, SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
C	ITW+p	MT20	4.0	6.0	Edge	
D	TMVW+p	MT20	5.0	6.0	Edge	
F	BMV1+p	MT20	3.0	6.0		
G	BMVWW-t	MT20	7.0	8.0	4.25	4.00
H	BMV1+p	MT20	3.0	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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
JT	1607	0	1607	0
H	1607	0	1607	0
F	1601	0	1601	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN	COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
JT	1187	749 / 0	168 / 0	0 / 0	0 / 0	280 / 0	0 / 0		
H	1187	749 / 0	168 / 0	0 / 0	0 / 0	280 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.47 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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 46	-102.1 -102.1	0.18 (1)	G-C	0 / 1008	0.25 (1)	
B-C	-1165 / 0	-102.1 -102.1	0.32 (1)	B-G	0 / 970	0.24 (1)	
C-D	-1165 / 0	-102.1 -102.1	0.32 (1)	G-D	0 / 970	0.24 (1)	
D-E	0 / 46	-102.1 -102.1	0.18 (1)				
H-B	-1318 / 0	0.0 0.0	0.15 (1)				
F-D	-1318 / 0	0.0 0.0	0.15 (1)				
H-I	0 / 0	-38.5 -38.5	0.34 (1)				
I-G	0 / 0	-38.5 -38.5	0.34 (1)				
G-J	0 / 0	-38.5 -38.5	0.34 (1)				
J-F	0 / 0	-38.5 -38.5	0.34 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR	TYPE	HEEL	CONN.
G	3-0-12	-608	-608	—	BACK	VERT	TOTAL	—	—
I	1-8-12	-608	-608	—	BACK	VERT	TOTAL	—	—
J	5-8-12	-608	-608	—	BACK	VERT	TOTAL	—	—

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.0 PSF
	DL = -6.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 52.5 PSF

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018
- CSA 086-14
- TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.32/1.00 (B-C:1), BC=0.34/1.00 (G-H:1), WB=0.25/1.00 (C-G:1), SS=0.31/1.00 (F-G: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

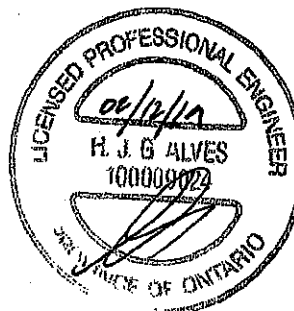
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES	PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	850 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.259 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.65 (B) (INPUT = 0.60)
JSI METAL= 0.49 (D) (INPUT = 1.00)



DWG NO. TAM 179032/12
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200444-401157	T15G	1	1	Truss Desc.	T15G

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Tue Feb 12 08:53:28 2019 Page 1
ID:M106BFa0GpWbaLLBfY39yQyOCh?-Cie7ZyvM7BDjalfb5Xltx5PMxYeymFyl9ODB8zlxqb

Scale = 1:27.1

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
L - B	2x4 DRY No.2	SPF			
A - D	2x4 DRY No.2	SPF			
D - G	2x4 DRY No.2	SPF			
H - F	2x4 DRY No.2	SPF			
L - H	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" O.C.				

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER																																																																																																																									
BEARINGS																																																																																																																									
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CHORDS				WEBS																																																																																																																					
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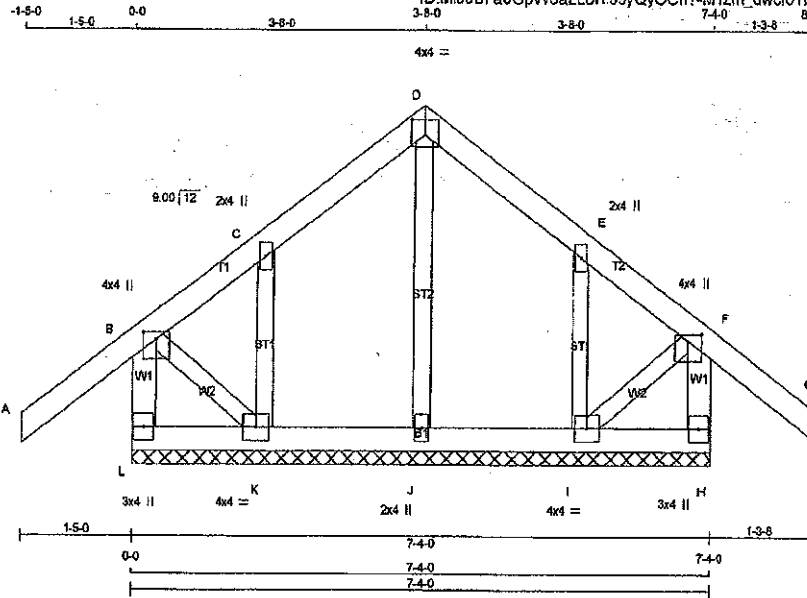
DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH. LL = 29.0 PSF									
DL = 8.0 PSF									
BOT CH. LL = 10.5 PSF									
DL = 7.0 PSF									
TOTAL LOAD = 52.5 PSF									
SPACING = 24.0 IN. C/C									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF BCBC 2016									
- CSA 086-14									
- TPIC 2014									
DESIGN ASSUMPTIONS									
- OVERHANG NOT TO BE ALTERED OR CUT OFF.									
(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=0.16/1.00 (A-B-1), BC=0.03/1.00 (J-K-3), WB=0.05/1.00 (D-J-1), SS=0.10/1.00 (A-B-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 650 371 1747 788 1987 1873									
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.24 (F) (INPUT = 0.90)									
JSI METAL= 0.05 (C) (INPUT = 1.00)									

DWG NO. TAM **T12032/3**
STRUCTURAL COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC	DRWG NO.
200444-401157	T16G	1	1	Preston 3	T16G

Tamarack Roof Truss, Burlington

Version 8.210 S Nov 17 2018 M/Tek Industries, Inc. Tue Feb 12 08:53:30 2019 Page 1
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Scale = 1:26.4

TOTAL WEIGHT = 35 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
L - B	2x4	DRY	No.2
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
H - F	2x4	DRY	No.2
L - H	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

ALL GABLE WEBS 2x3 DRY No.2

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)

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)

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

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. 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 NBCC 2018, OBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(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=0.16/1.00 (A-B:1), BC=0.02/1.00 (K-L:3).

WB=0.05/1.00 (D-J:1), SSI=0.10/1.00 (A-B: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 1698

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

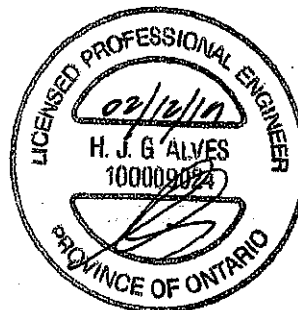
JSI GRIP= 0.24 (F) (INPUT = 0.90)

JSI METAL= 0.08 (C) (INPUT = 1.00)

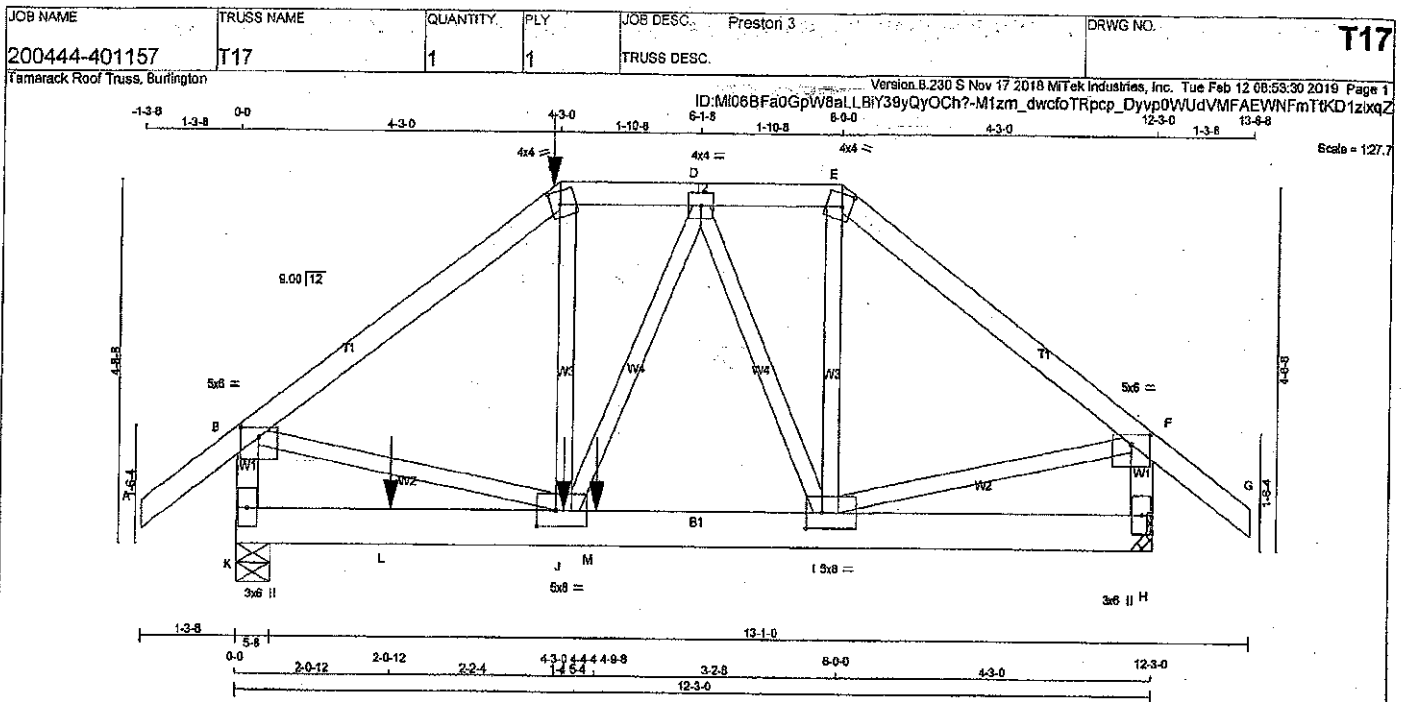
PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	4.0	4.0	1.00	2.00
C	TMW+w	MT20	2.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMW+w	MT20	2.0	4.0		
F	TMW+p	MT20	4.0	4.0	1.00	2.00
H	BMV1+p	MT20	3.0	4.0		
I	BMWV1-l	MT20	4.0	4.0		
J	BMW1+w	MT20	2.0	4.0		
K	BMWV1-l	MT20	4.0	4.0		
L	BMV1+p	MT20	3.0	4.0		

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM TO		FR-TO			
L-B	-311 / 0	0.0	0.0 0.03 (1)	J-D	-181 / 0	0.05 (1)	
A-B	0 / 46	-102.1	-102.1 0.16 (1)	K-C	-134 / 0	0.02 (1)	
B-C	-50 / 0	-102.1	-102.1 0.16 (1)	I-E	-150 / 0	0.03 (1)	
C-D	-14 / 0	-102.1	-102.1 0.08 (1)	B-K	0 / 14	0.00 (1)	
D-E	-18 / 0	-102.1	-102.1 0.08 (1)	I-F	0 / 15	0.00 (1)	
E-F	-43 / 0	-102.1	-102.1 0.13 (1)				
F-G	0 / 42	-102.1	-102.1 0.14 (1)				
H-F	-285 / 0	0.0	0.0 0.03 (1)				
L-K	0 / 0	-38.5	-38.5 0.02 (3)				
K-J	0 / 7	-38.5	-38.5 0.02 (3)				
J-I	0 / 7	-38.5	-38.5 0.02 (3)				
I-H	0 / 0	-38.5	-38.5 0.02 (3)				



DWG NO. TAM T16032.15
STRUCTURAL
COMPONENT ONLY



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	No.2	SPF		
C - E	2x4 DRY	No.2	SPF		
E - G	2x4 DRY	No.2	SPF		
K - B	2x4 DRY	No.2	SPF		
H - F	2x4 DRY	No.2	SPF		
K - H	2x6 DRY	No.2	SPF		
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF		

ORY: SEASONED LUMBER

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.50	3.00
C	TTW-m	MT20	4.0	4.0	2.00	1.50
D	TMVW-1	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0	2.00	1.50
F	TMVW-p	MT20	5.0	8.0	1.50	3.00
H	BMV1-p	MT20	3.0	6.0		
I	BMVWW-1	MT20	5.0	8.0	2.50	2.50
J	BMVWW-1	MT20	5.0	8.0	2.50	3.00
K	BMV1-p	MT20	3.0	6.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ
K	2257	0	2257	0
H	1710	0	1710	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	1649	1025 / 0	245 / 0	0 / 0	0 / 0	379 / 0	0 / 0
H	1251	775 / 0	188 / 0	0 / 0	0 / 0	288 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 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)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO		FROM TO	FR-TO	FROM TO
A-B	0 / 42	-102.1 -102.1	0.15 (1)	10.00
B-C	-2246 / 0	-102.1 -102.1	0.48 (1)	4.03
C-D	-1794 / 0	-102.1 -102.1	0.09 (1)	4.90
D-E	-1304 / 0	-102.1 -102.1	0.07 (1)	5.57
E-F	-1603 / 0	-102.1 -102.1	0.42 (1)	4.69
F-G	0 / 42	-102.1 -102.1	0.15 (1)	10.00
K-B	-2161 / 0	0.0 0.0	0.24 (1)	5.72
H-F	-1645 / 0	0.0 0.0	0.19 (1)	6.42
K-L	0 / 0	-38.5 -38.5	0.12 (3)	10.00
L-J	0 / 0	-38.5 -38.5	0.12 (3)	10.00
J-M	0 / 1586	-38.5 -38.5	0.36 (1)	10.00
M-I	0 / 1586	-38.5 -38.5	0.36 (1)	10.00
I-H	0 / 0	-38.5 -38.5	0.07 (2)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
C	4-3-0	-50	-56	FRONT	VERT	DEAD	---	---
C	4-3-0	-580	-690	FRONT	VERT	TOTAL	---	---
C	4-3-0	-285	-285	FRONT	VERT	SNOW	---	---
J	4-4-4	-57	-72	FRONT	VERT	TOTAL	---	---
L	2-9-12	-57	-72	FRONT	VERT	TOTAL	---	---
M	4-9-8	-524	-824	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	=	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 ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018
- CSA 086-14
- TPIC 2014

(56 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.41")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.41")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.05")

CSI: TC=0.48/1.00 (B-C:1), BC=0.36/1.00 (I-J:1), WB=0.48/1.00 (B-J:1), SSI=0.53/1.00 (I-J: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

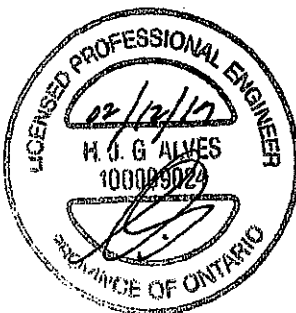
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MT20	650	371	1747
	788	1967	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.86 (I) (INPUT = 0.90)
JSI METAL=0.43 (F) (INPUT = 1.00)



DWG NO. 1A W T1703216
STRUCTURAL
COMMON ONLY

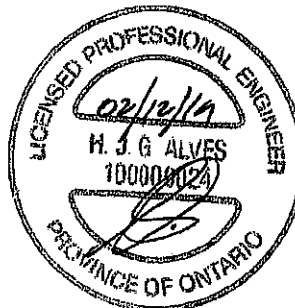
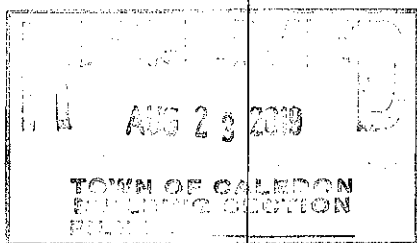
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Version 8.230 S Nov 17 2018 MITek Industries, Inc. Tue Feb 12 08:53:31 2019 Page 1
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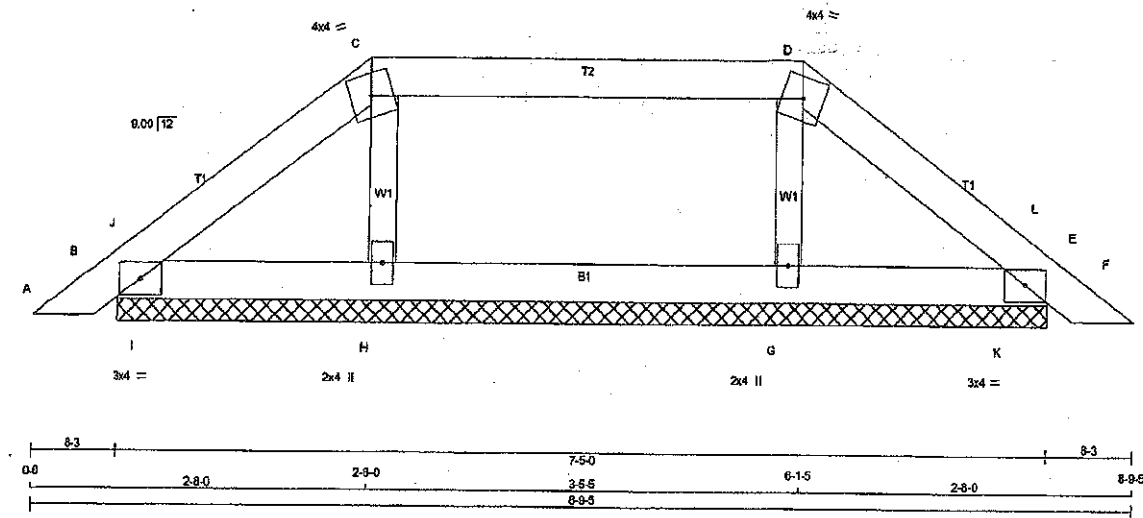
Scale = 138.3

TOTAL WEIGHT = $2 \times 56 = 113$ lb

DWG NO. 141 **71403217**
STRUCTURAL
COMPONENT ONLY



Tamarack Roof Truss, Burlington Scale = 1:16.8



TOTAL WEIGHT = 22 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	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	232	0	232	0	7-5-0	7-5-0
E	232	0	232	0	7-5-0	7-5-0
H	349	0	349	0	7-5-0	7-5-0
G	349	0	349	0	7-5-0	7-5-0

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	166	117 / 0	15 / 0	0 / 0	0 / 0	34 / 0	0 / 0
E	166	117 / 0	15 / 0	0 / 0	0 / 0	34 / 0	0 / 0
H	266	133 / 0	63 / 0	0 / 0	0 / 0	89 / 0	0 / 0
G	266	133 / 0	63 / 0	0 / 0	0 / 0	89 / 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)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO				
A-B	0 / 17	-102.1	-102.1	0.03 (1)	10.00	H-C	-215 / 0	0.03 (1)	
B-J	-64 / 0	-102.1	-102.1	0.01 (1)	6.25	G-D	-215 / 0	0.03 (1)	
J-C	-76 / 0	-102.1	-102.1	0.05 (1)	6.25	I-J	-119 / 0	0.00 (1)	
C-D	-44 / 0	-102.1	-102.1	0.21 (1)	6.25	K-L	-119 / 0	0.00 (1)	
D-L	-76 / 0	-102.1	-102.1	0.05 (1)	6.25				
L-E	-64 / 0	-102.1	-102.1	0.01 (1)	6.25				
E-F	0 / 17	-102.1	-102.1	0.03 (1)	10.00				
B-I	0 / 58	-38.5	-38.5	0.05 (1)	10.00				
I-H	0 / 58	-38.5	-38.5	0.06 (2)	10.00				
H-G	0 / 44	-38.5	-38.5	0.06 (2)	10.00				
G-K	0 / 58	-38.5	-38.5	0.06 (2)	10.00				
K-E	0 / 58	-38.5	-38.5	0.05 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 20.0 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/H2

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=0.21/1.00 (C-D:1), BC=0.08/1.00 (H-I:2), WB=0.03/1.00 (C-H:1), SSI=0.14/1.00 (C-D: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) (FL)

MAX MIN MAX MIN MAX MIN

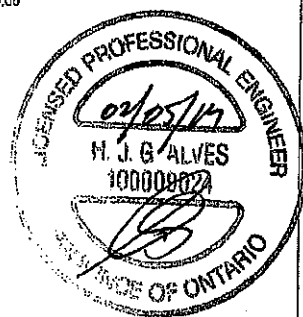
MT20 618 354 1667 768 1807 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.80)

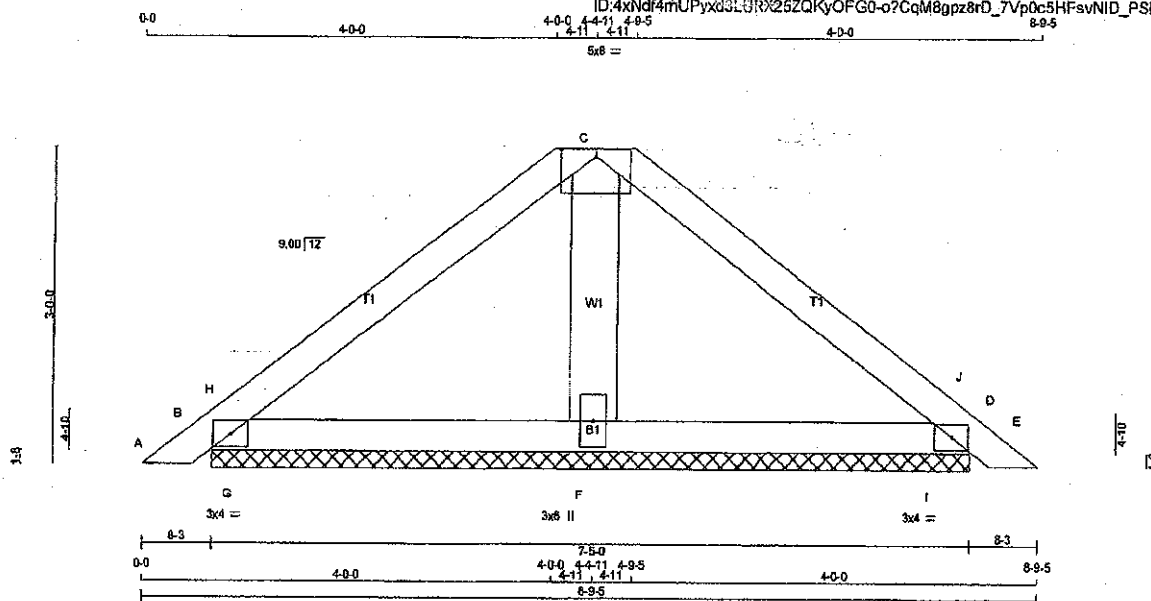
JSI METAL= 0.05 (H) (INPUT = 1.00)



DWG NO. TAM 17902724

STRUCTURAL

COMPONENT ONLY



TOTAL WEIGHT = 25 lb

LUMBER

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

ALL WEBS 2x6 DRY No.2
DRY: SEASONED LUMBER

DESCR
SPF
SPF
SPF

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		
B	373	0	373	0	7-5-0	7-5-0
D	373	0	373	0	7-5-0	7-5-0
F	418	0	418	0	7-5-0	7-5-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	271	173 / 0	37 / 0	0 / 0	0 / 0	81 / 0	0 / 0
D	271	173 / 0	37 / 0	0 / 0	0 / 0	81 / 0	0 / 0
F	320	153 / 0	81 / 0	0 / 0	0 / 0	86 / 0	0 / 0

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

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 MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH (LC)		WEBS MAX. FACTORED FORCE (LBS)	
	FR-TO	FROM-TO	FR-TO	FROM-TO	FR-TO	FROM-TO	FR-TO	FROM-TO
A-B	0 / 17	-102.1 -102.1	0.03 (1)	10.00	F-C	-158 / 0	0.01 (1)	
B-H	-78 / 0	-102.1 -102.1	0.07 (1)	6.25	G-H	-384 / 24	0.00 (1)	
C-E	-148 / 0	-102.1 -102.1	0.17 (1)	6.25	I-J	-384 / 24	0.00 (1)	
D-E	0 / 17	-102.1 -102.1	0.07 (1)	6.25				
B-G	0 / 109	-38.5 -38.5	0.16 (1)	10.00				
G-F	0 / 109	-38.5 -38.5	0.18 (1)	10.00				
F-I	0 / 108	-38.5 -38.5	0.18 (1)	10.00				
I-D	0 / 108	-38.5 -38.5	0.16 (1)	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

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=0.17/1.00 (C-H:1), BC=0.18/1.00 (F-I:1), WB=0.01/1.00 (C-F:1), SB=0.31/1.00 (B-G: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.

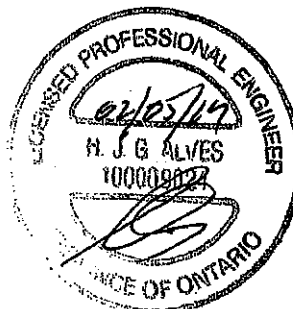
MAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION (PL) (FL) (FL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1937 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

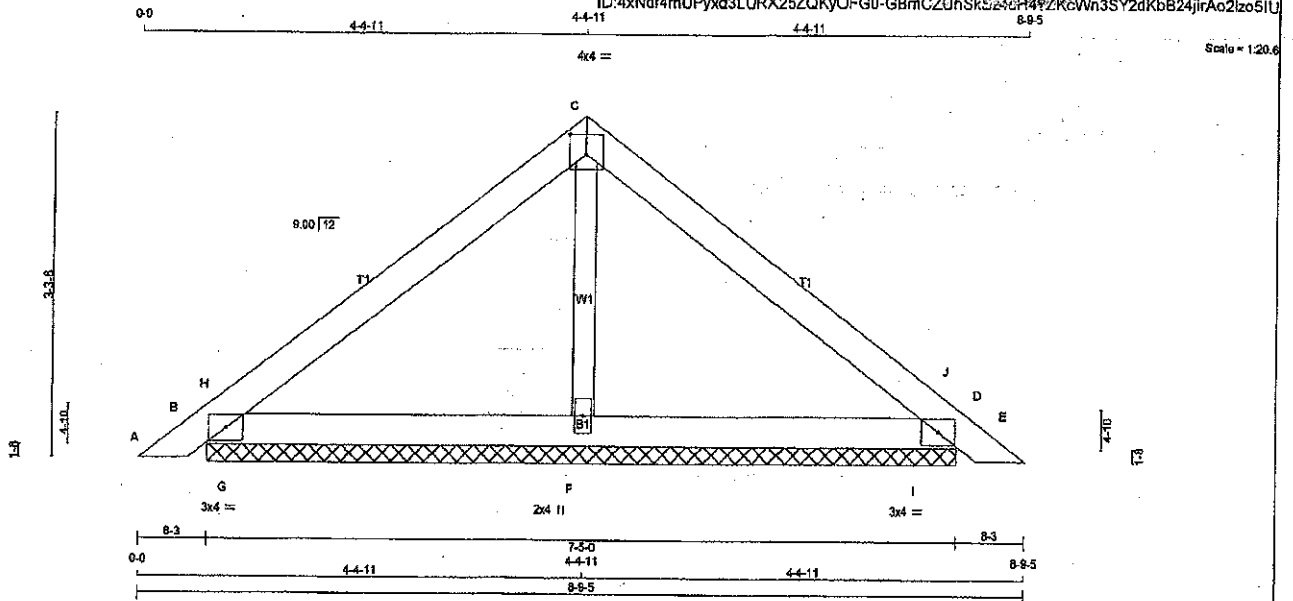
JSI GRIP=0.30 (D) (INPUT = 0.50)
JSI METAL=0.07 (D) (INPUT = 1.00)



DWG NO. TAM 17902725
STRUCTURAL
COMPONENT ONLY

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Tue Feb 5 20:29:03 2019 Page 1
ID: 4xNd4mUPyxd3LURX25ZQKyOFG0-G8mCZUuSkS2s4H4PZKcWn3SY2dKbB24jrAo2Izo5IU



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
B - 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	TMB14	MT20	3.0	4.0		
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMB14	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	385	0	385	0	7-5-0	7-5-0
D	385	0	385	0	7-5-0	7-5-0
F	384	0	384	0	7-5-0	7-5-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
B	279	181 / 0	37 / 0	0 / 0	0 / 0	62 / 0	0 / 0
D	279	181 / 0	37 / 0	0 / 0	0 / 0	62 / 0	0 / 0
F	304	138 / 0	62 / 0	0 / 0	0 / 0	63 / 0	0 / 0

BEARING MATERIAL TO BE 6PF NO.2 OR BETTER AT JOINT(S) B, D, F

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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO				FR-TO			
A-B	0 / 17	-102.1	-102.1 0.03 (1)	F-C	-131 / 0	0.02 (1)	
B-H	-77 / 0	-102.1	-102.1 0.07 (1)	G-H	-382 / 25	0.00 (1)	
H-C	-168 / 0	-102.1	-102.1 0.17 (1)	I-J	-382 / 25	0.00 (1)	
C-J	-168 / 0	-102.1	-102.1 0.17 (1)				
J-D	-77 / 0	-102.1	-102.1 0.07 (1)				
D-E	0 / 17	-102.1	-102.1 0.03 (1)				
B-G	0 / 125	-38.5	-38.5 0.18 (1)				
G-F	0 / 125	-38.5	-38.5 0.18 (1)				
F-I	0 / 125	-38.5	-38.5 0.18 (1)				
I-D	0 / 125	-38.5	-38.5 0.18 (1)				

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

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 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.5 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=0.17/1.00 (C-J-1), BC=0.18/1.00 (F-I-1), WB=0.02/1.00 (C-F-1), SS=0.31/1.00 (D-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.

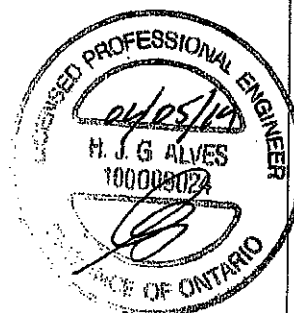
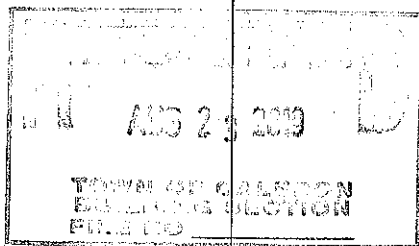
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.31 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



DWG NO. TAM 17902726
STRUCTURAL COMPONENT ONLY

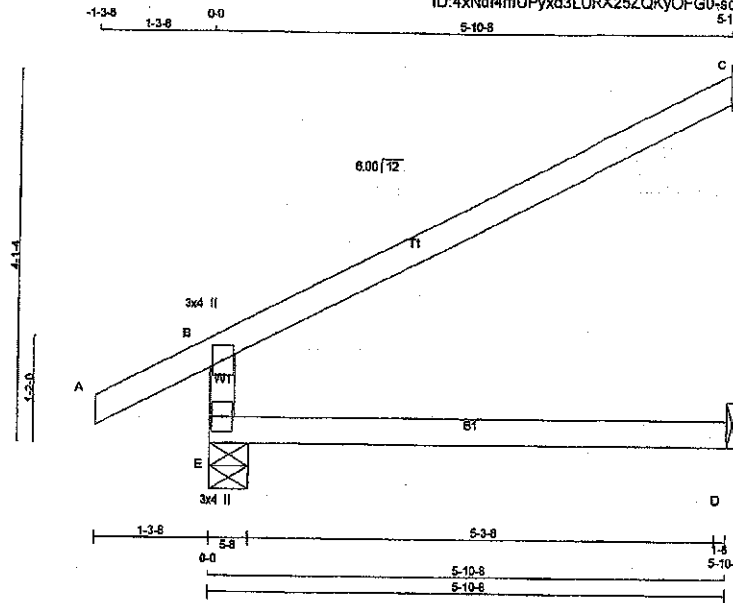
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200444-401156	J6	14	1	Preston 3	J6

Tamarack Roof Truss, Burlington

TRUSS DESC.

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:00 2019 Page 1
ID:4xNd4mUPyxd3LURX25ZQKyOFG0-sc53xSeZRX4WptQuC3pARqx5QIL-hhH0ux8RQzo5IX

Scale = 1:23.6



TOTAL WEIGHT = 14 X 17 = 235 lb

LUMBER

N.L.G.A. RULES
CHORDS SIZE
E - B 2x4 DRY
A - C 2x4 DRY
E - D 2x4 DRY

LUMBER
No.2
No.2
No.2

DESCR.
SPF
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
E	BMV1+p	MT20	3.0	4.0	

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ
JT	646	0	0	5-8
E	225	0	0	5-8
C	93	0	119	1-8
D				1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	473	292 / 0	72 / 0	0 / 0	0 / 0	109 / 0	0 / 0	0 / 0
C	154	128 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0	0 / 0
D	85	0 / 0	51 / 0	0 / 0	0 / 0	34 / 0	0 / 0	0 / 0

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

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 MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						
E-B	-513 / 0	0.0	0.0	0.22 (3)	7.81	
A-B	0 / 31	-102.1	-102.1	0.13 (1)	10.00	
B-C	-34 / 0	-102.1	-102.1	0.60 (1)	6.25	
E-D	0 / 0	-38.5	-38.5	0.22 (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, CBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(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) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.04")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/942$ (0.07")

CSI: TC=0.60/1.00 (B-C:1), BC=0.22/1.00 (D-E:3),
WB=0.00/1.00 (n/a:0), SS=0.28/1.00 (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

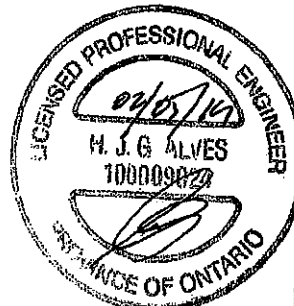
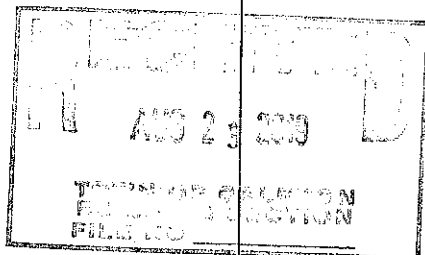
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1657 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (E) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)

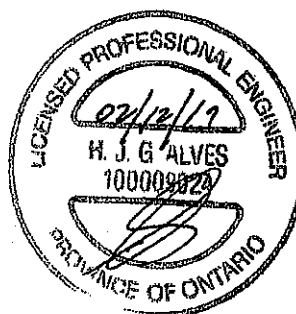
DWG NO. TAM 1702130
STRUCTURAL
COMPONENT ONLY



Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Tue Feb 12 08:55:17 2019 Page 1
LLBiY39vQyOCh?-icxCRDDkTqvF92UY wKys4QwKlloBp00?McIIITK-zyo



DWG NO. TAM 7703218
STRUCTURAL
COMPONENTS





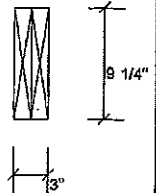
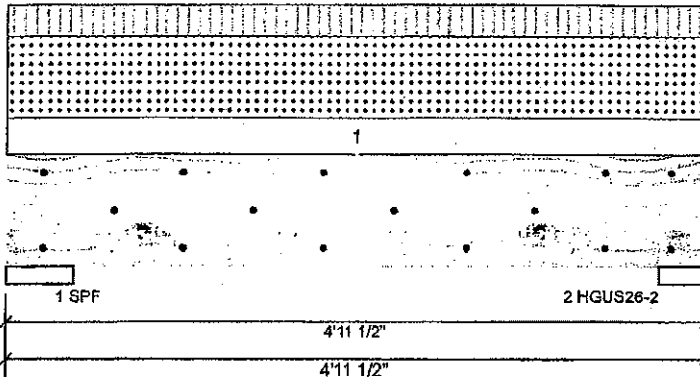
isDesign™

Client: Greenpark Homes
 Project: Preston 3
 Address: Caledon

Date: 2019-02-05
 Designer: Brian
 Job Name: Lamberts Lane Homes Corp.
 Project #: 200444

BM4 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**

Type: Girder
 Plies: 2
 Moisture Condition: Dry
 Deflection LL: 360
 Deflection TL: 360
 Importance: Normal

Application: Floor (Residential)
 Design Method: LSD
 Building Code: NBCC 2015 / OBC 2012
 Load Sharing: No
 Deck: Not Checked
 Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	112	132	295	0
2	106	126	280	0

Bearings and Factored Reactions

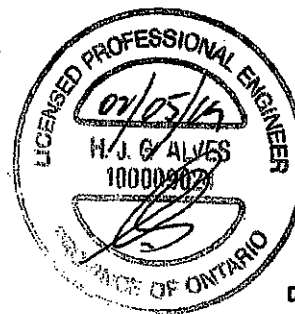
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	7%	165 / 554	719 L
2 - HGUS...	4.000"	9%	157 / 527	684 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	652 ft-lb	2'6 1/2"	6039 ft-lb	0.108 (11%)	1.25D+1.5S	L
Unbraced	652 ft-lb	2'6 1/2"	5493 ft-lb	0.119 (12%)	1.25D+1.5S	L
Shear	607 lb	1'2"	3984 lb	0.152 (15%)	1.25D+1.5S	L
Perm Def in.	0.001 (L/35365)	2'6 1/2"	0.143 (L/360)	0.010 (1%)	D	Uniform
LL Defl inch	0.004 (L/13326)	2'6 1/2"	0.143 (L/360)	0.030 (3%)	S+0.5L	L
TL Defl inch	0.005 (L/8679)	2'6 1/2"	0.143 (L/360)	0.040 (4%)	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 17902733
 STRUCTURAL
 COMPONENT ONLY
 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		4-0-0	Near Face	13 PSF	11 PSF	29 PSF	0 PSF	

Manufacturer Info

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



This design is valid until 2021-12-11





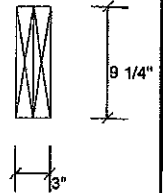
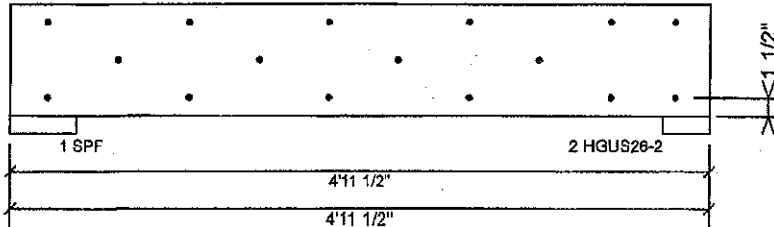
isDesign™

Client: Greenpark Homes
Project: Preston 3
Address: Caledon

Date: 2019-02-05
Designer: Brian
Job Name: Lamberts Lane Homes Corp.
Project #: 200444

BM4 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

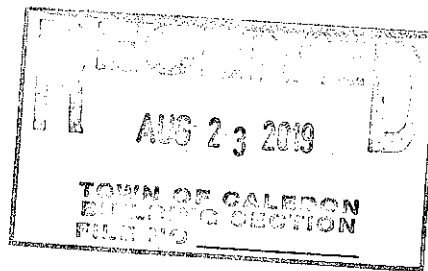
Level: Level



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	36.9 %
Load	141.5 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 11902733
STRUCTURAL
COMPONENT ONLY 2/2

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

This design is valid until 2021-12-11





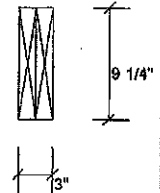
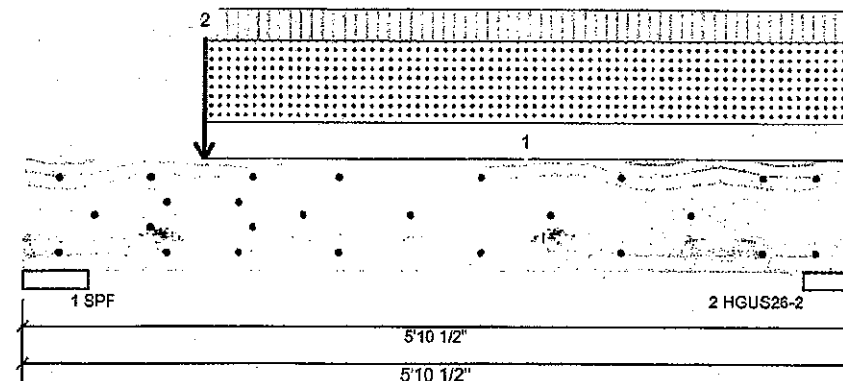
isDesign™

Client: Greenpark Homes
 Project: Preston 3
 Address: Caledon

Date: 2019-02-05
 Designer: Brian
 Job Name: Lamberts Lane Homes Corp.
 Project #: 200444

BM5 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**

Type: Girder
 Plies: 2
 Moisture Condition: Dry
 Deflection LL: 360
 Deflection TL: 360
 Importance: Normal

Application: Floor (Residential)
 Design Method: LSD
 Building Code: NBCC 2015 / OBC 2012
 Load Sharing: No
 Deck: Not Checked
 Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	176	251	642	0
2	82	82	200	0

Bearings and Factored Reactions

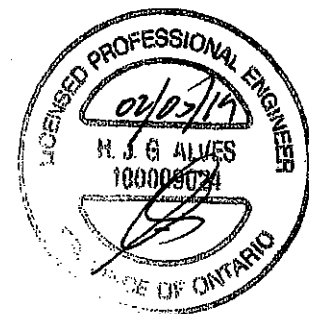
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	14%	314 / 1139	1454 L
2 - HGUS...	4.000"	6%	103 / 363	466 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1272 ft-lb	1'3 1/4"	6039 ft-lb	0.211 (21%)	1.25D+1.5S +L	L
Unbraced	1272 ft-lb	1'3 1/4"	5236 ft-lb	0.243 (24%)	1.25D+1.5S +L	L
Shear	1508 lb	1'2"	3984 lb	0.379 (38%)	1.25D+1.5S +L	L
Perm Defl in. (L/19193)	0.003	2'8 3/4"	0.174 (L/360)	0.020 (2%)	D	Uniform
LL Defl inch	0.009 (L/6690)	2'8 11/16"	0.174 (L/360)	0.050 (5%)	S+0.5L	L
TL Defl inch	0.013 (L/4961)	2'8 11/16"	0.174 (L/360)	0.070 (7%)	D+S+0.5L	L

Design Notes

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") 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 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 77902734
 STRUCTURAL
 COMPONENT ONLY 1/3

Manufacturer Info

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



This design is valid until 2021-12-11





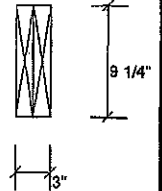
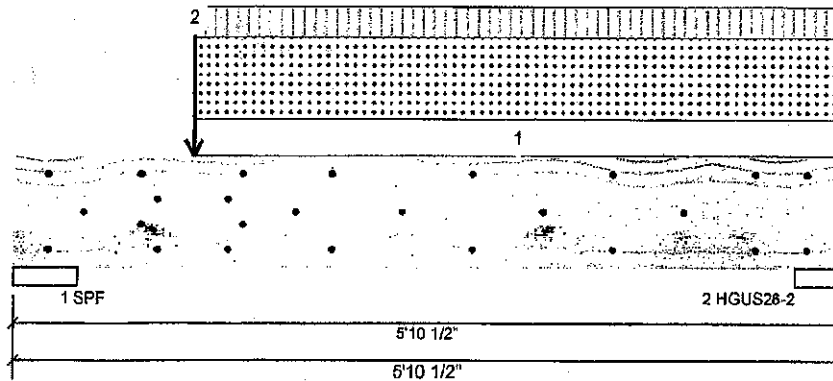
isDesign™

Client: Greenpark Homes
Project: Preston 3
Address: Caledon

Date: 2019-02-05
Designer: Brian
Job Name: Lamberts Lane Homes Corp.
Project #: 200444

BM5 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	Part Uniform	1-3-4 to 5-10-8		Near Face	13 PLF	11 PLF	29 PLF	0 PLF	
2	Point	1-3-4		Near Face	274 lb	188 lb	709 lb	0 lb	



DWG NO. TAM 1902734
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





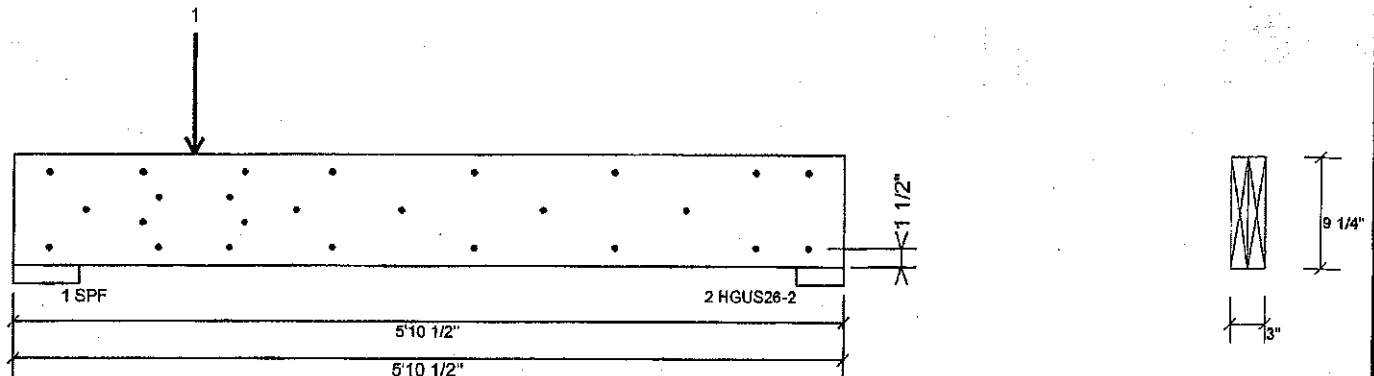
isDesign™

Client: Greenpark Homes
Project: Preston 3
Address: Caledon

Date: 2019-02-05
Designer: Brian
Job Name: Lamberts Lane Homes Corp.
Project #: 200444

BM5 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6"

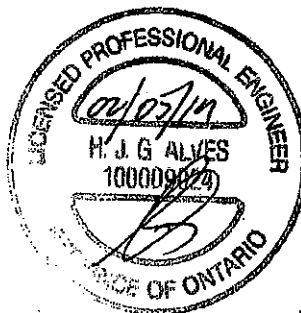
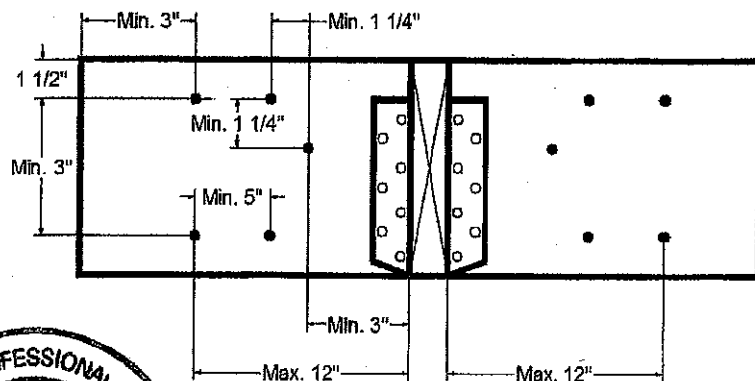
Capacity	10.4 %
Load	35.4 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 1-3-4 with a minimum of (8) – Pneumatic Gun Nail (.120x3.25") in the pattern shown.

Capacity	87.9 %
Load	797.0 lb.
Total Yield Limit	906.8 lb.
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



DWG NO. TAM 11902734
STRUCTURAL
COMPONENT ONLY 3/3

This design is valid until 2021-12-11

Manufacturer Info

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



LUL/LUS/LJS/HUS/HHUS/HGUS

SIMPSON
Strong-Tie

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.

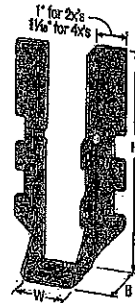
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp.20–24.

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 LUU).
- 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.



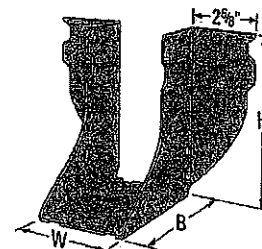
✓ LUS28



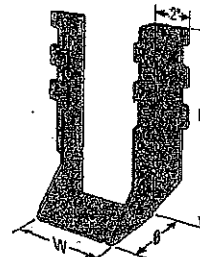
LU26L



✓ HUS210
(HUS26, HUS28,
and HHUS similar)



✓ HGUS28-2



✓ HHUS210-2



Double-Shear
Nailing
Top View

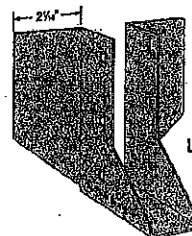
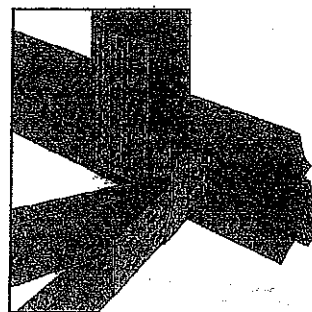


Double-Shear
Nailing
Side View;
Do not
bend tab



Dome Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,580

**Typical HUS26
Installation
with Reduced
Heel Height**
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



LJS26DS

Plated Truss Connectors

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options information on pp. 125–127.

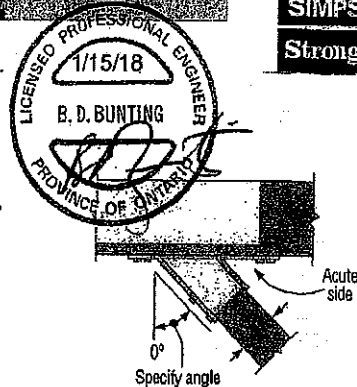
HHUS — Sloped and/or Skewed Seat

- 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.

Model No.	Gd.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	I _h ³	Header	Joist	Down		Uplift	
								lb.	lb.	lb.	lb.
								lb.	lb.	lb.	lb.
Single 2x Sizes											
LUS24	18	1 1/8	3 1/4	1%	2 1/4	(4) 10d	(2) 10d	710	1825	645	1155
LU24L	22	1 1/8	3	1%	2 1/8	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
LU26L	22	1 1/8	5	1%	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1805	645	1140
LUS26	18	1 1/8	4 1/4	1%	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630
HUS26	16	1%	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2085	3875
LJS26DS	18	1 1/8	5	3 1/4	4 1/4	(18) 16d	(6) 16d	2055	4265	1490	4115
HGUS26	12	1%	5 1/8	5	4 1/4	(20) 16d	(8) 16d	2685	6825	2685	5700
LU28L	20	1 1/8	6 1/4	1%	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
LUS28	18	1 1/8	6 1/4	1%	3 1/4	(6) 10d	(4) 10d	1420	2520	1290	1780
HUS28	16	1%	7 1/8	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
HGUS28	12	1%	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
LU210L	20	1 1/8	8	1%	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
LUS210	18	1 1/8	7 1/4	1%	3 1/4	(8) 10d	(4) 10d	1420	2785	1290	2210

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_h 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 1/2" long. See pp. 27–28 for other nail sizes and information.

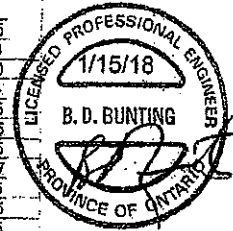
Face-Mount Hangers

SIMPSON
Strong-Tie

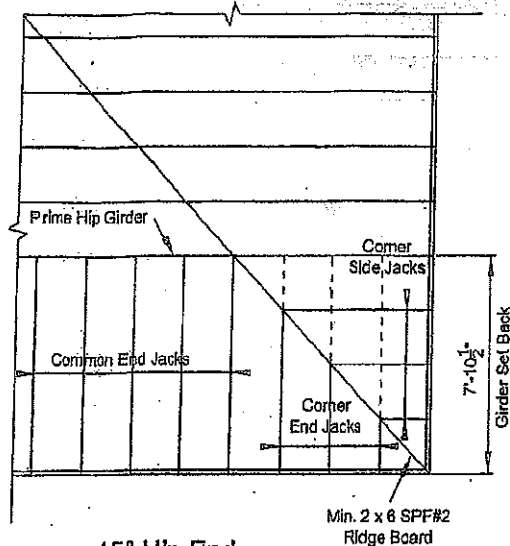
These products are available with additional corrosion protection. For more information, see p. 24.

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 _p	Header	Joist	D.F.		S-P-F	
								Uplift (K ₁ = 1.3)	Normal (K ₂ = 1.0)	Uplift (K ₁ = 1.16)	Normal (K ₂ = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
SS LUS24-2	18	3 1/4	6 1/2	2	1 1/4	(4) 16d	(2) 16d	835	2020	590	1435
								37.2	899	262	638
SS LUS26-2	18	3 1/4	4 1/2	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
								767	1154	687	854
HHUS26-2	14	3 1/2	6 1/2	3	3 1/2	(14) 16d	(6) 16d	2850	7335	2065	5205
								1268	3273	920	2315
HGUS26-2	12	3 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
								1952	3981	1383	2827
SS LUS28-2	18	3 1/4	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
								767	1478	687	1145
HHUS28-2	14	3 1/2	7 1/2	3	6 1/2	(22) 16d	(8) 16d	3765	8940	2675	6345
								1675	3977	1190	2822
HGUS28-2	12	3 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	5774	1917	4099
SS LUS210-2	18	3 1/4	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
								1145	2002	1032	1421
HHUS210-2	14	3 1/2	9 1/2	3	8	(30) 16d	(10) 16d	4670	9560	4235	7000
								2085	4277	1884	3174
HGUS210-2	12	3 1/2	9 1/2	4	8 1/2	(46) 16d	(16) 16d	6840	14015	4855	10270
								3043	6234	2160	4569
Triple 2x Sizes											
HGUS26-3	12	4 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
								1952	3981	1383	2827
HGUS28-3	12	4 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	5774	1917	4099
HHUS210-3	14	4 1/2	9	3	7 1/2	(30) 16d	(10) 16d	4670	9570	4235	6865
								2085	4287	1884	3054
HGUS210-3	12	4 1/2	9 1/2	4	8 1/2	(46) 16d	(16) 16d	6840	14645	4855	10400
								3043	6571	2160	4626
Quadruple 2x Sizes											
HGUS26-4	12	6 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
								1952	3981	1383	2827
HGUS28-4	12	6 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	5774	1917	4099
HHUS210-4	14	6 1/2	8 1/2	3	7 1/2	(30) 16d	(10) 16d	4670	10155	4235	7210
								2085	4577	1884	3207
HGUS210-4	12	6 1/2	9 1/2	4	8 1/2	(46) 16d	(16) 16d	6840	14645	4855	10400
								3043	6571	2160	4626
HGUS212-4	12	6 1/2	10 1/2	4	10 1/2	(56) 16d	(20) 16d	7640	14995	5425	10845
								3386	6670	2413	4735
HGUS214-4	12	6 1/2	12 1/2	4	11 1/2	(66) 16d	(22) 16d	10130	16400	7195	11845
								4505	7299	3200	5180
4x Sizes											
LUS46	18	3 1/4	4 1/2	2	3 1/2	(4) 16d	(4) 16d	1720	2595	1545	1920
								767	1154	687	854
HHUS46	14	3 1/2	6 1/2	3	8 1/2	(14) 16d	(6) 16d	2540	7335	2065	5205
								1120	3249	920	2315
HGUS46	12	3 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
								1952	3981	1383	2827
LUS48	18	3 1/2	6 1/2	2	3 1/2	(6) 16d	(4) 16d	1720	3325	1545	2575
								767	1478	687	1145
HHUS48	14	3 1/2	7 1/2	3	6 1/2	(22) 16d	(8) 16d	3765	8940	2675	6345
								1675	3977	1190	2822
HGUS48	12	3 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	5774	1917	4099
LUS410	18	3 1/2	8 1/2	2	5 1/2	(8) 16d	(6) 16d	2580	4500	2320	3195
								1145	2002	1032	1421
HGUS410	12	3 1/2	9	4	8 1/2	(46) 16d	(16) 16d	6840	14015	4855	10270
								3043	6234	2160	4569
HGUS412	12	3 1/2	10 1/2	4	10 1/2	(56) 16d	(20) 16d	7640	14995	5425	10845
								3386	6670	2413	4735
HGUS414	12	3 1/2	12 1/2	4	11 1/2	(66) 16d	(22) 16d	10130	16400	7195	11845
								4505	7299	3200	5180



Plated Truss Connectors



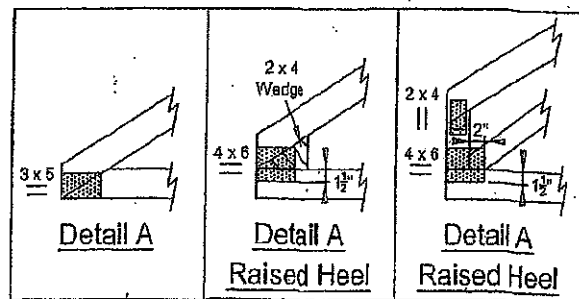
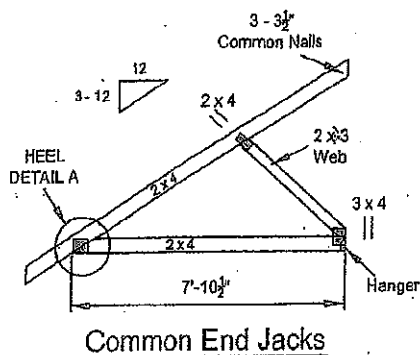
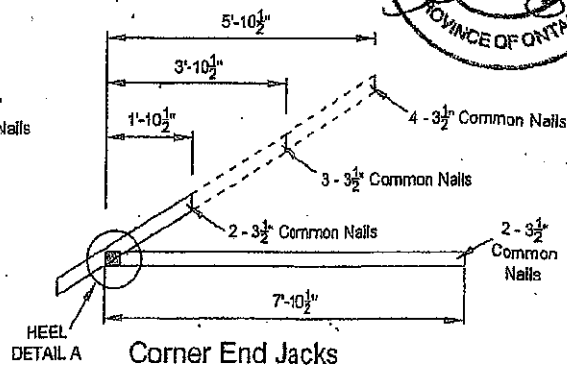
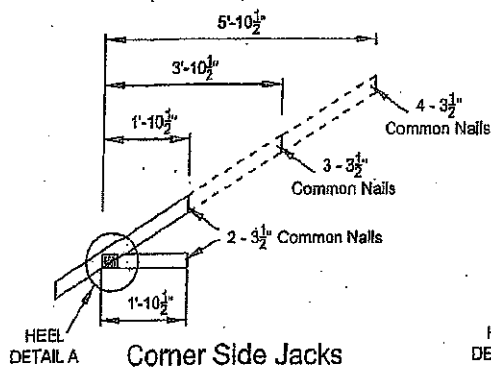
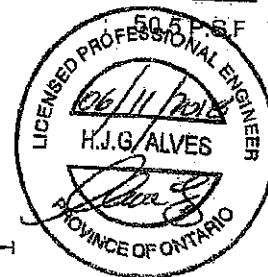
LUMBER SPECIFICATION

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

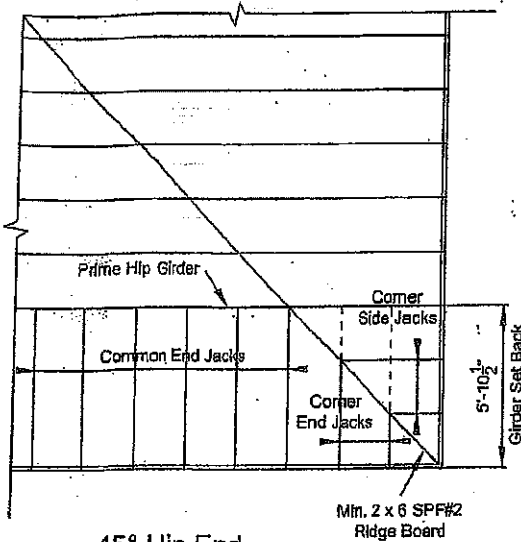
TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD



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

T-1800217



45° Hip End

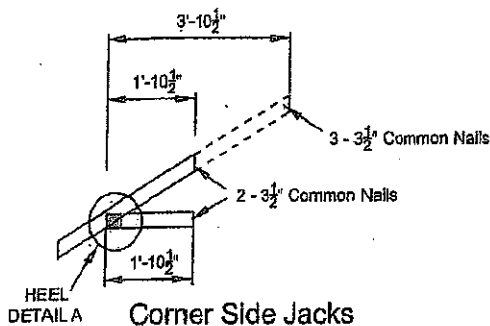
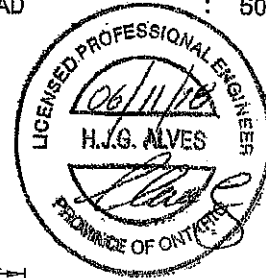
LUMBER SPECIFICATION

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

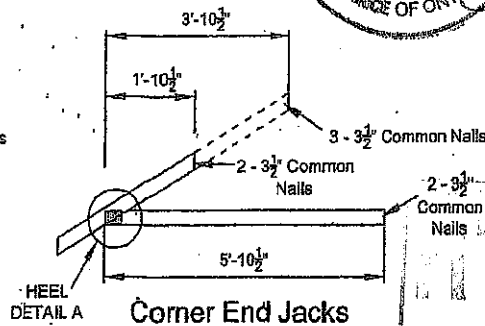
DESIGN LOAD

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.

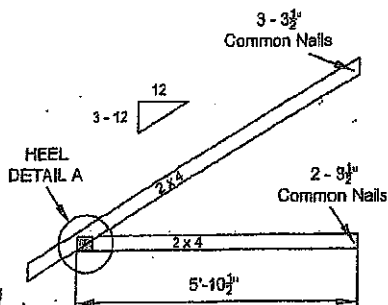
TOTAL LOAD : 50.5 P.S.F



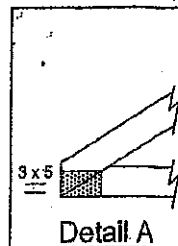
Corner Side Jacks



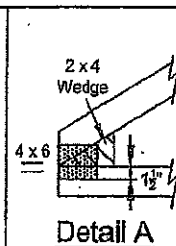
Corner End Jacks



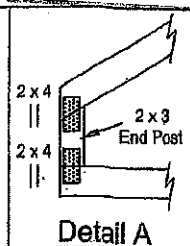
Common End Jacks



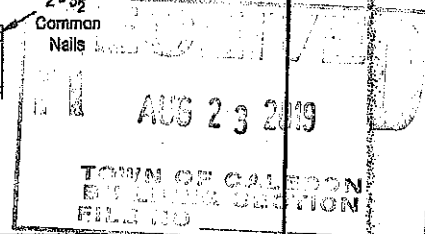
Detail A



Detail A
Raised Heel



Detail A
Raised Heel



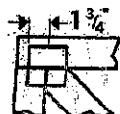
NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800216

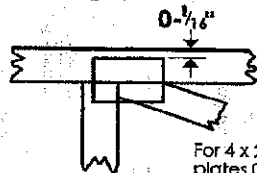
OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in 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 ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/2" 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

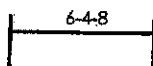


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

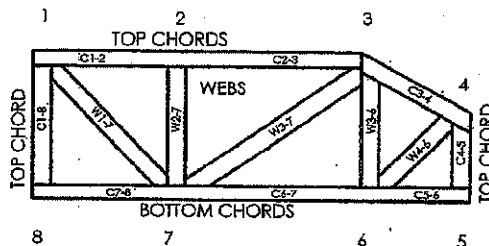
Industry Standards:

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



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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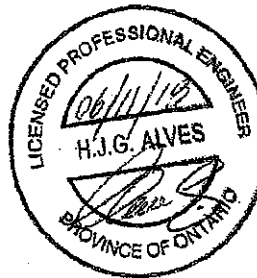
MiTek
POWER TO PERFORM.™

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



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 MH7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900218

Feb 09, 2018