

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

CERTIFIED MODEL
PRE-APPROVED
FOR PERMIT APPLICATION AS PER THE
ONTARIO BUILDING CODE
TOWN OF CALEDON BUILDING DIVISION
REVIEWED BY JS SNELL
DATE JULY 8/19
FILE # PRESTON 12 - ELEV 1

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

HARDWARE:
LUS24 - (O).
LJS26DS - (V)
LUS26-2(WV)
LUS24-2(OO)
HGUS26-2 - (XX)

DENOTES
CONV. 
FRAMING

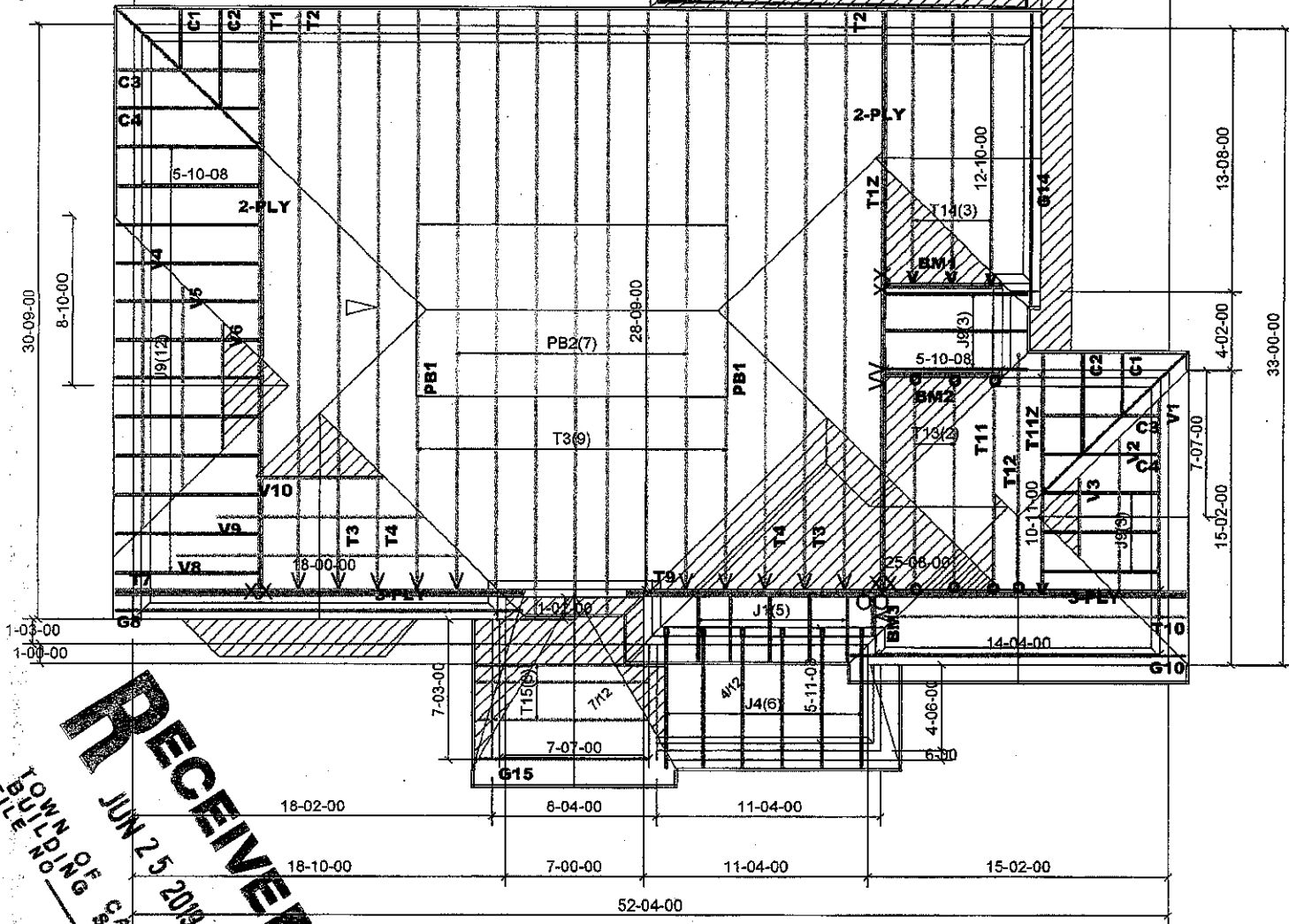
GSL 37.6 PSF

DESIGN CONFORMS
WITH O.B.C. 2018 PART 9
DESIGN LOADS:
TC LIVE 29 PSF
TC DEAD 6 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF

BM1,2 = 2- 2x10

All Pitches are 9/12 unless noted

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'



RECEIVED
TOWN OF CALEDON
BUILDING DEPT.
JUN 25 2019

	Job Track: 050120	Builder / Location: GREEN PARK HOMES / Caledon	Model / Elevation: PRESTON 12 / 1
	Plan Log: 200778	Project: Lamberts Lane Home Corp.PH2.	
	Layout ID: 402113	Date: 4/5/2019	Sales: Mario DiCano
		Designer: chris JIG	THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, 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 5.2.3.229



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: PRESTON 12
 Lot #:
 Elevation: 1

Job Track: 50120
 PlanLog: 200778
 Layout ID: 402113
 Ref #
 Page: 1 of 3
 Date: 04/05/2019
 Designer: Jane Gong
 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	28-09-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	286.19 182.67		
	1 2-ply	T12 Hip Girder	9 /12	28-09-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	286.19 182.67		
	2	T2 Hip	9 /12	28-09-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	258.96 162.33		
	11	T3 Hip	9 /12	28-09-00	8-11-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	1537.78 973.50		
	2	T4 Hip	9 /12	28-09-00	10-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	277.19 170.67		
	1 3-ply	T7 Common Girder	9 /12	18-00-00	8-03-08	2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	367.62 227.00		
	1	G8 GABLE	9 /12	18-00-00	8-03-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	86.77 58.00		
	1 3-ply	T9 Roof Special Girder	9 /12	25-08-00	6-10-12	2 x 4 2 x 8	1-03-08 1-03-08	1-06-04 1-06-04	465.82 284.00		
	1	T10 Common	9 /12	14-04-00	6-10-12	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	64.53 40.83		
	1	G10 GABLE	9 /12	14-04-00	6-10-12	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	66.89 43.83		
	1	T11 Half Hip	9 /12	10-11-00	5-11-02	2 x 4		1-06-04 5-11-02	50.99 34.00		
	1	T112 Half Hip Girder	9 /12	10-11-00	5-11-02	2 x 4	1-03-08	1-06-04 5-11-02	52.83 35.33		
	1	T12 Half Hip	9 /12	10-11-00	6-10-03	2 x 4	1-03-08	1-06-04 6-10-03	56.28 35.83		
	2	T13 Common	9 /12	10-11-00	6-06-04	2 x 4		1-06-04 3-04-00	98.51 62.33		

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TOWN OF CALEDON
 BUILDING SECTION
 FILE NO



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: PRESTON 12
 Lot #:
 Elevation: 1

Job Track: 50120
 PlanLog: 200778
 Layout ID: 402113
 Ref #
 Page: 2 of 3
 Date: 04/05/2019
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Roof Trusses

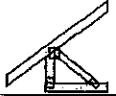
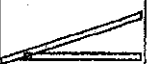
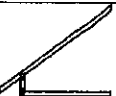
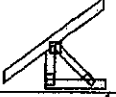
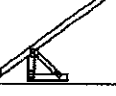
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	3	T14 Common	9/12	12-10-00	6-04-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	176.16 113.00		
	1	G14 GABLE	9/12	12-10-00	6-04-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	59.36 38.67		
	3	T15 Common	7/12	7-07-00	3-03-06	2 x 4	1-03-00 1-03-00	8-03 8-03	87 60.50		
	1	G15 GABLE	7/12	7-07-00	3-03-06	2 x 4	1-03-00 1-03-00	8-03 8-03	26.59 19.50		
	2	PB1 Piggyback	9/12	9-00-00	3-00-00	2 x 4			50.12 31.33		
	7	PB2 Piggyback	9/12	9-00-00	3-04-08	2 x 4			165.56 103.83		
	1	V1 Valley	9/12	11-11-09	4-05-13	2 x 4			32.57 19.33		
	1	V2 Valley	9/12	7-11-09	2-11-13	2 x 4			21.09 13.50		
	1	V3 Valley	9/12	3-11-09	1-05-13	2 x 4			8.93 5.33		
	1	V4 Valley	9/12	14-05-09	5-05-01	2 x 4			42.76 26.50		
	1	V5 Valley	9/12	10-05-09	3-11-01	2 x 4			28.27 18.67		
	1	V6 Valley	9/12	6-05-09	2-05-01	2 x 4			16.78 11.00		
	1	V8 Valley	9/12	14-04-09	5-04-11	2 x 4			42.47 26.50		
	1	V9 Valley	9/12	10-04-09	3-10-11	2 x 4			28.03 17.33		

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TOWN OF CALEDON
 BUILDING SECTION
 FILE NO.

		DELIVERY SHIPLIST	
	Lumber Yard:	TAMARACK LUMBER	Job Track: 50120
	Builder:	GREEN PARK HOMES	PlanLog: 200778
	Project:	Lamberts Lane Home Corp.	Layout ID: 402113
	Location:	Caledon	Ref #
	Model:	PRESTON 12	Page: 3 of 3
	Lot #:		Date: 04/05/2019
Elevation:	1	Designer: Jane Gong	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	V10 Valley	9 /12	6-04-09	2-04-11	2 x 4			16.54 11.00		
	5	J1 Jack-Open	9 /12	2-00-08	3-00-10	2 x 4	1-03-08	1-06-04 3-00-10	50.19 38.33		
	6	J4 Jack-Open	4 /12	5-11-08	2-06-14	2 x 4	10-00	3-15 2-03-12	90.41 56.00		
	18	J9 Jack-Open	9 /12	5-10-08	5-11-02	2 x 4	1-03-08	1-06-04 5-11-02	331.19 216.00		
	2	C1 Jack-Open	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 1-01	1-06-04 2-10-05	18.63 14.00		
	2	C2 Jack-Open	9 /12	1-10-08	4-04-05	2 x 4	1-03-08 1-10-15	1-06-04 2-11-02	24.44 16.67		
	2	C3 Jack-Open Girder	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 4-01-01	1-06-04 2-10-05	27.75 19.33		
	2	C4 Jack-Open	9 /12	3-09-07	4-04-05	2 x 4	1-03-08 2-01-01	1-06-04 4-04-05	33.68 22.00		

TOTAL # TRUSS= 96 TOTAL BFT OF ALL TRUSSES= 3391.31 BFT. TOTAL WEIGHT OF ALL TRSSES 5335.06 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
3	Hardware	HGUS26-2	
14	Hardware	LJS26DS	
7	Hardware	LUS24	
1	Hardware	LUS24-2	
1	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 26

JOB NAME: GREEN PARK HOMES TRUSS NAME: T1 QUANTITY: 1 PLY: 2 JOB DESC: TRUSS DESC. DRWG NO. 402113

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Fri Apr 5 14:43:08 2019 Page 1

Scale = 1/4" = 1'-0"

LUMBER

CHORDS	SIZE	DRY	Lumber	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
Q - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
Q - N	2x6	DRY	No.2	SPF
N - K	2x6	DRY	No.2	SPF
ALL WEBS	2x8	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

CHORDS	SIZE	DRY	Lumber	DESCR.
A - C	1	12		SIDE(61.0)
C - E	1	12		SIDE(61.0)
E - H	1	12		SIDE(61.0)
H - J	1	12		SIDE(61.0)
Q - B	2	12		TOP
K - I	2	12		TOP

BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS

CHORDS	SIZE	DRY	Lumber	DESCR.
Q - N	2	12		SIDE(183.1)
N - K	2	12		SIDE(0.0)

WEBS: (0.122"x3") SPIRAL NAILS

CHORDS	SIZE	DRY	Lumber	DESCR.
P - C	1	6		SIDE(28.7)
L - H	1	6		SIDE(32.9)

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)

TYPE	PLATES	W	LEN	Y	X
TMVW-p	MT20	5.0	6.0	1.25	3.00
TTVW-m	MT20	5.0	6.0	1.75	1.75
TMVW-w	MT20	2.0	4.0		
TS-t	MT20	3.0	6.0		
TMVW-t	MT20	4.0	4.0		
TMVW-w	MT20	2.0	4.0		
TTVW-m	MT20	5.0	6.0	1.75	1.75
TMVW-p	MT20	5.0	6.0	1.25	3.00
BMVW-t	MT20	3.0	6.0		
BMVW-t	MT20	5.0	6.0		
BMVW-w	MT20	5.0	6.0		
BS-t	MT20	5.0	6.0		
BMVW-w	MT20	5.0	6.0		
BMVW-t	MT20	5.0	6.0		
BMVW-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 BRG	REQ'D BRG
JT VERT	3598	0	0
Q VERT	3521	0	0
K VERT	3521	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K. MINIMUM BEARING LENGTH AT JOINT K = 4-0.

UNFACTORED REACTIONS

1ST LCASE	MAX / MIN. COMPONENT REACTIONS
JT COMBINED	2688
Q COMBINED	1442 / 0
K COMBINED	1273 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00	P-C	-127 / 306	0.04 (3)
B-C	-3989 / 0	-102.1	-102.1	0.53 (1)	4.28	C-D	0 / 1892	0.23 (1)
C-R	-4534 / 0	-102.1	-102.1	0.50 (1)	4.01	D-E	-945 / 0	0.25 (1)
R-S	-4534 / 0	-102.1	-102.1	0.50 (1)	4.01	E-F	-958 / 0	0.25 (1)
S-D	-4534 / 0	-102.1	-102.1	0.50 (1)	4.01	F-G	0 / 1874	0.24 (1)
D-T	-4534 / 0	-102.1	-102.1	0.42 (1)	4.01	G-H	-128 / 244	0.03 (1)
T-E	-4534 / 0	-102.1	-102.1	0.42 (1)	4.01	H-I	0 / 3241	0.40 (1)
E-U	-4534 / 0	-102.1	-102.1	0.42 (1)	4.01	I-J	0 / 3149	0.39 (1)
U-F	-4534 / 0	-102.1	-102.1	0.42 (1)	4.01	F-M	-88 / 0	0.03 (4)
F-V	-4511 / 0	-102.1	-102.1	0.44 (1)	3.99			
V-G	-4511 / 0	-102.1	-102.1	0.44 (1)	3.99			
G-W	-4510 / 0	-102.1	-102.1	0.52 (1)	3.99			
W-X	-4510 / 0	-102.1	-102.1	0.52 (1)	3.99			
X-Y	-4510 / 0	-102.1	-102.1	0.52 (1)	3.99			
Y-H	-4510 / 0	-1						

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
402113	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Apr 5 14:43:08 2019 Page 2

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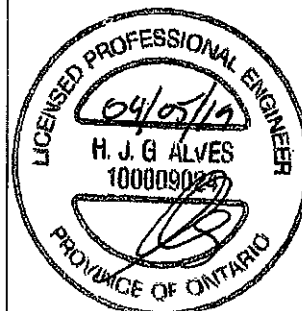
LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (FLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
AJ-AK	0/0	-38.5	-38.5 0.11 (3)	10.00			
AK-K	0/0	-38.5	-38.5 0.11 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-577	-577	-	FRONT	VERT	TOTAL	-	-
H	22-10-8	-384	-430	-	FRONT	VERT	DEAD	-	-
N	15-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
P	5-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
R	7-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
S	9-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
T	11-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
U	13-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
V	15-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
W	17-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
X	19-11-4	-123	-123	-	FRONT	VERT	TOTAL	-	-
Y	21-11-4	-126	-126	-	FRONT	VERT	TOTAL	-	-
Z	1-11-4	-75	-95	-	FRONT	VERT	TOTAL	-	-
AA	3-11-4	-75	-95	-	FRONT	VERT	TOTAL	-	-
AB	7-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AC	9-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AD	11-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AE	13-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AF	17-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AG	19-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AH	21-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AI	23-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AJ	25-11-4	-57	-73	-	FRONT	VERT	TOTAL	-	-
AK	27-11-4	-61	-77	-	FRONT	VERT	TOTAL	-	-



DWG NO. TAM 11907761
STRUCTURAL
COMPONENT ONLY 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
402113	T1Z	1	2	TRUSS DESC.		

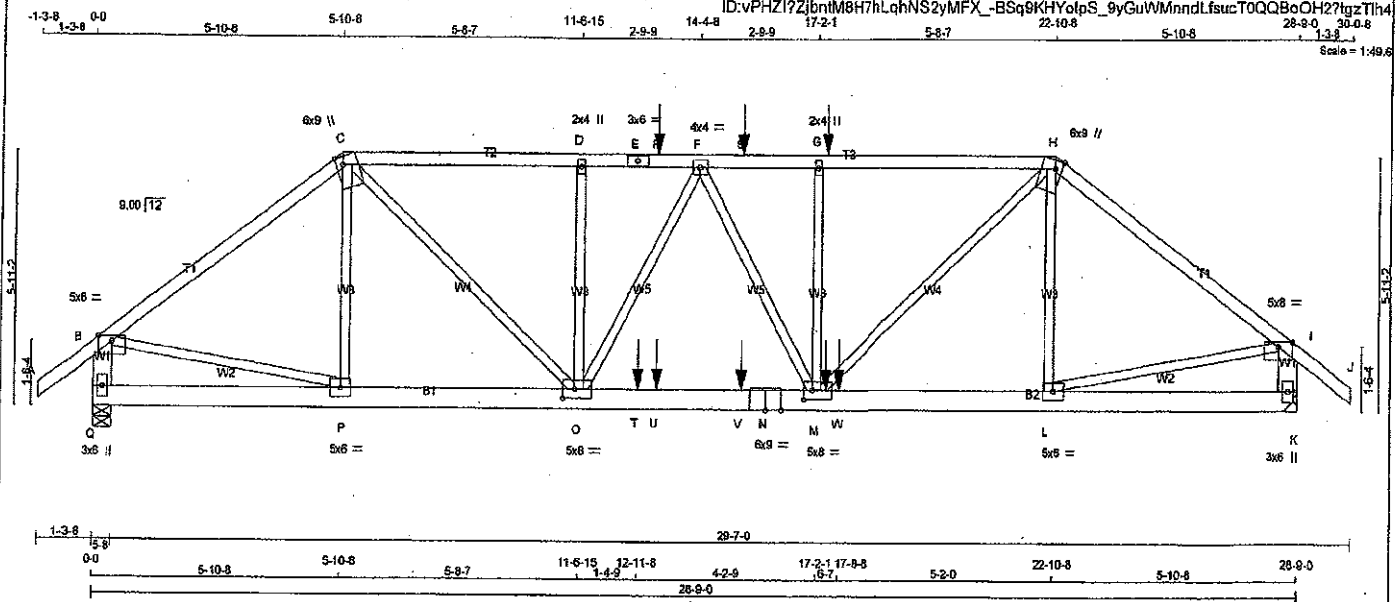
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Version 6.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:28:01 2018 Page 1

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28-9-0 30-0-8 1-3-8

Scale = 1:49.6



TOTAL WEIGHT = 2 X 143 = 286 lb

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 - H	2x4 DRY No.2	SPF			
H - J	2x4 DRY No.2	SPF			
Q - B	2x8 DRY No.2	SPF			
K - I	2x8 DRY No.2	SPF			
Q - N	2x6 DRY No.2	SPF			
N - K	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-E	12	TOP
E-H	12	TOP
H-J	12	TOP
Q-B	12	TOP
K-I	12	TOP
BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS		
Q-N	12	SIDE(0.0)
N-K	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	TMVW-p	MT20	5.0	8.0	Edge
C	TTWV+m	MT20	6.0	9.0	Edge 2.00
D	TMW+w	MT20	2.0	4.0	
E	TS4	MT20	3.0	6.0	
F	TMVW-i	MT20	4.0	4.0	
G	TMW+w	MT20	2.0	4.0	
H	TTWV+m	MT20	6.0	9.0	Edge 2.00
I	TMVW-p	MT20	5.0	8.0	Edge
K	BMV1+p	MT20	3.0	6.0	
L	BMVW-i	MT20	5.0	6.0	
M	BMVWV-i	MT20	5.0	8.0	2.50 2.25
N	BS4	MT20	6.0	9.0	
O	BMVWV-i	MT20	5.0	8.0	2.50 3.25
P	BMVW-i	MT20	5.0	6.0	
Q	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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
Q	3810	0	3810	0
K	3961	0	3961	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K. MINIMUM BEARING LENGTH AT JOINT K = 4-0.

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
Q	2821	1635/0	507/0	0/0	0/0	676/0	0/0
K	2834	1701/0	529/0	0/0	0/0	704/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS								WEBS									
MEMB.		MAX. FACTORED		FORCE		FACTORED		VERT. LOAD		LC1		MAX		MEMB.		MAX. FACTORED	
				(LBS)		(PLF)		CSI (LC)		MAX		UNBRAC				FORCE	
FR-TO						FROM TO						LENGTH		FR-TO		MAX	
A-B		0/42				-102.1 -102.1		0.08 (1)				10.00		P-C		-543/0 0.14 (1)	
B-C		-4335/0				-102.1 -102.1		0.56 (1)				4.12		C-O		0/3716 0.48 (1)	
C-D		-6119/0				-102.1 -102.1		0.45 (1)				3.82		O-D		-584/0 0.15 (1)	
D-E		-6119/0				-102.1 -102.1		0.34 (1)				3.54		M-G		-715/0 0.19 (1)	
E-R		-6119/0				-102.1 -102.1		0.34 (1)				3.54		M-H		0/3730 0.46 (1)	
R-F		-6119/0				-102.1 -102.1		0.34 (1)				3.54		L-H		-413/24 0.11 (1)	
F-S		-6318/0				-102.1 -102.1		0.34 (1)				3.58		B-P		0/3522 0.44 (1)	
S-G		-6318/0				-102.1 -102.1		0.34 (1)				3.58		L-I		0/3712 0.46 (1)	
G-H		-6318/0				-102.1 -102.1		0.47 (1)				3.56		O-F		0/3712 0.46 (1)	
H-I		-4589/0				-102.1 -102.1		0.58 (1)				4.02		F-M		0/3712 0.46 (1)	
I-J		0/42				-102.1 -102.1		0.08 (1)				10.00					
Q-B		-3691/0				0.0 0.0		0.13 (1)				7.32					
K-I		-3697/0				0.0 0.0		0.14 (1)				7.20					
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																0.04	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	D/R	TYPE	HEEL	CONN.
G	17-4-12	-123	-123	---	BACK	VERT	---	---
N	17-4-12	-57	-73	---	BACK	VERT	---	---
R	13-4-12	-123	-123	---	BACK	VERT	---	---
S	15-4-12	-123	-123	---	BACK	VERT	---	---
T	12-11-8	-1689	-1689	---	BACK	VERT	---	---
U	13-4-12	-57	-73	---	BACK	VERT	---	---
V	15-4-12	-57	-73	---	BACK	VERT	---	---
W	17-8-8	-1217	-1217	---	BACK	VERT	---	---

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. GC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF EBCB 2016, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.96")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (0.96")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.58/1.00 (H=1), BC=0.89/1.00 (M=0.1)
WB=0.46/1.00 (H=1), SS=0.48/1.00 (M=0.1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
#120 818 354 1667 788 1987 1656

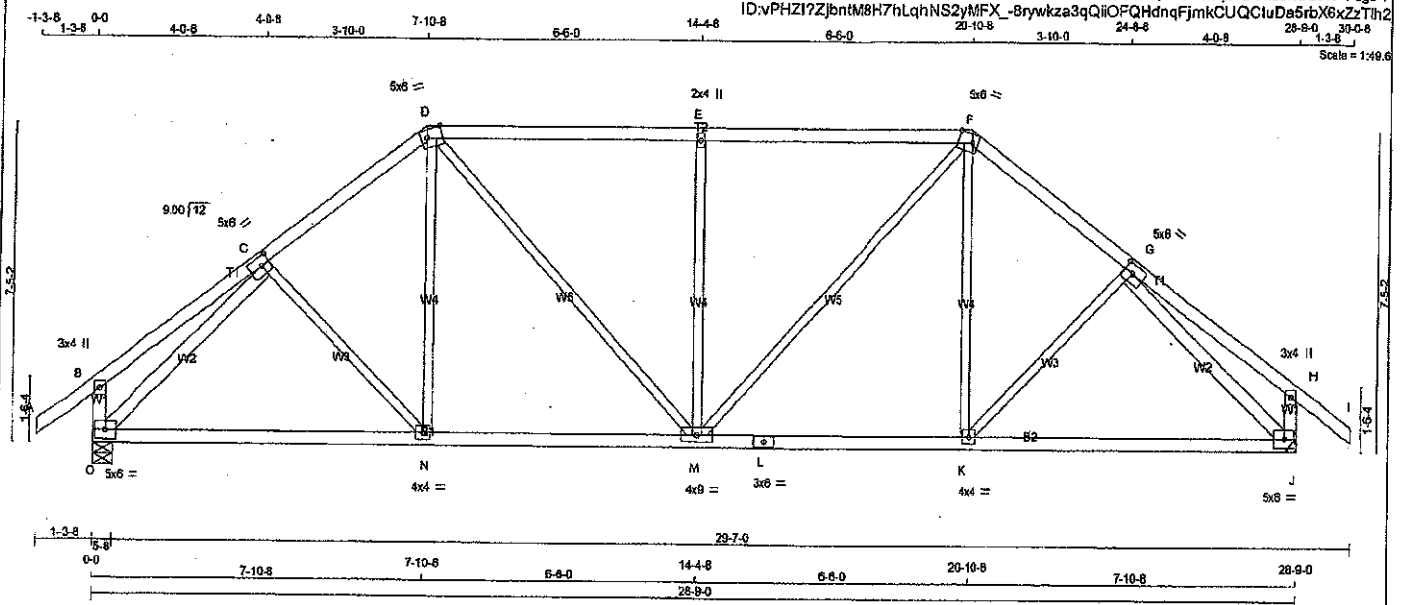
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (M) (INPUT = 0.90)
JSI METAL= 0.82 (N) (INPUT = 1.00)

DWG NO. TAM 17907762
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME T2	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:28:03 2019 Page 1	ID: vPHZ17ZJbntM8H7hLqhNS2yMFX_-8rywka3qQiOPQHdnqFjmkCUQCiuDa5rbX6xZzTh2



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWV-I	MT20	5.0	6.0	2.50	2.50
D	TTWV-m	MT20	5.0	6.0	Edge	4.25
E	TMWV-w	MT20	2.0	4.0		
F	TTWV-m	MT20	5.0	6.0	Edge	4.25
G	TMWV-I	MT20	5.0	6.0	2.50	2.50
H	TMV+p	MT20	3.0	4.0		
J	BMVWV-I	MT20	5.0	6.0		
K	BMWV-I	MT20	4.0	4.0		
L	BS-I	MT20	3.0	6.0		
M	BMVWV-I	MT20	4.0	9.0		
N	BMVWV-I	MT20	4.0	4.0		
O	BMVWV-I	MT20	5.0	6.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
		GROSS REACTION	GROSS REACTION	BRO	BRO
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
O	2162	0	2162	0	5-8
J	2162	0	2162	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
O	1607	915 / 0	302 / 0	0 / 0	0 / 0	0 / 0	300 / 0	0 / 0
J	1607	915 / 0	302 / 0	0 / 0	0 / 0	0 / 0	300 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.91 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	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1	MAX. (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 42	-102.1	-102.1	C-N	0 / 114
B-C	0 / 27	-102.1	-102.1	N-D	0 / 380
C-D	-2098 / 0	-102.1	-102.1	D-M	0 / 682
D-E	-2119 / 0	-102.1	-102.1	M-E	-813 / 0
E-F	-2119 / 0	-102.1	-102.1	M-F	0 / 682
F-G	-2098 / 0	-102.1	-102.1	K-F	0 / 380
G-H	0 / 27	-102.1	-102.1	K-G	0 / 114
H-I	0 / 42	-102.1	-102.1	O-C	-2400 / 0
O-B	-288 / 0	0.0	0.0	G-J	-2400 / 0
J-H	-288 / 0	0.0	0.0		
O-N	0 / 1652	-38.5	-38.5		
N-M	0 / 1659	-38.5	-38.5		
M-L	0 / 1659	-38.5	-38.5		
L-K	0 / 1659	-38.5	-38.5		
K-J	0 / 1652	-38.5	-38.5		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.98")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.16")
ALLOWABLE DEFL. (TL) = $L/360$ (0.98")
CALCULATED VERT. DEFL. (TL) = $L/998$ (0.27")
CSI: TC=0.64/1.00 (D-E-1), BC=0.64/1.00 (M-N-2),
WB=0.92/1.00 (C-O-1), SS=0.32/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

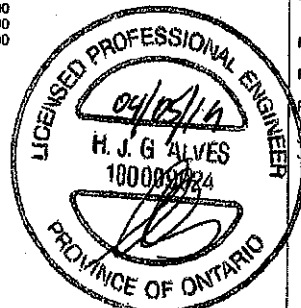
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.86 (O) (INPUT = 0.90)
SI METAL= 0.58 (G) (INPUT = 1.00)

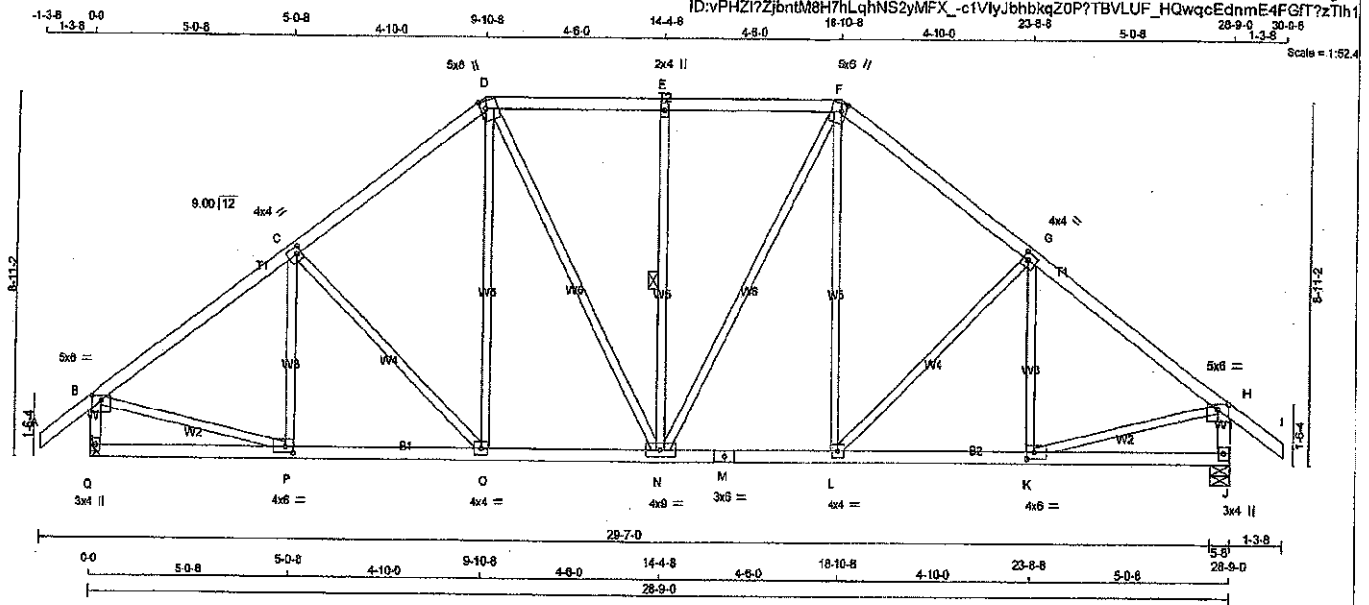
RECEIVED
JUN 25 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DRWG NO. TAM 11907763
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME T3	QUANTITY 11	PLY 1	JOB DESC GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.230 S Nov 17 2018 Mitak Industries, Inc. Fri Apr 5 14:26:04 2019 Page 1			



TOTAL WEIGHT = 11 X 140 = 1538 lb

LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N.L.G.A. RULES	A - D	2x4	DRY	No.2
	D - F	2x4	DRY	No.2
	F - I	2x4	DRY	No.2
	I - H	2x4	DRY	No.2
	H - M	2x4	DRY	No.2
	M - J	2x4	DRY	No.2
	ALL WEBS	2x3	DRY	No.2
	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 TMWW-t	MT20	4.0	4.0	2.00	1.50
D TTWW-m	MT20	5.0	6.0	2.25	1.50
E TMW-w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	6.0	2.25	1.50
G TMWW-t	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 BMWW-t	MT20	4.0	6.0	2.00	2.25
L BMWW-t	MT20	4.0	4.0		
M BS-t	MT20	3.0	6.0		
N BMWWW-t	MT20	4.0	9.0		
O BMWW-t	MT20	4.0	4.0		
P BMWW-t	MT20	4.0	6.0	2.00	2.25
Q BMV1-p	MT20	3.0	4.0		

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
JT 2162	0	0	MECHANICAL
J 2162	0	0	5-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE	PERM LIVE WIND DEAD SOIL
Q 1807	915/0	302/0	0/0 0/0 380/0 0/0
J 1807	915/0	302/0	0/0 0/0 380/0 0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 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.

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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO
A-B	0/42	-102.1	-102.1	0.14	(1)	10.00	P-C	-205/88	0.09	(1)			
B-C	-2172/0	-102.1	-102.1	0.40	(1)	4.25	C-O	-343/0	0.32	(1)			
C-D	-1945/0	-102.1	-102.1	0.38	(1)	4.47	O-D	0/431	0.10	(2)			
D-E	-1716/0	-102.1	-102.1	0.29	(1)	4.79	D-N	0/405	0.09	(1)			
E-F	-1716/0	-102.1	-102.1	0.29	(1)	4.79	N-E	-553/0	0.28	(1)			
F-G	-1945/0	-102.1	-102.1	0.38	(1)	4.47	N-F	0/405	0.09	(1)			
G-H	-2172/0	-102.1	-102.1	0.40	(1)	4.25	L-F	0/431	0.10	(2)			
H-I	0/42	-102.1	-102.1	0.14	(1)	10.00	L-G	-343/0	0.32	(1)			
Q-B	-2082/0	0.0	0.0	0.22	(1)	5.87	K-G	-205/88	0.09	(1)			
J-H	-2082/0	0.0	0.0	0.22	(1)	5.87	B-P	0/1814	0.41	(1)			
Q-P	0/0	-38.5	-38.5	0.18	(3)	10.00	K-H	0/1814	0.41	(1)			
P-O	0/1766	-38.5	-38.5	0.40	(2)	10.00							
O-N	0/1529	-38.5	-38.5	0.33	(1)	10.00							
N-M	0/1529	-38.5	-38.5	0.33	(1)	10.00							
M-L	0/1529	-38.5	-38.5	0.33	(1)	10.00							
L-K	0/1766	-38.5	-38.5	0.40	(2)	10.00							
K-J	0/0	-38.5	-38.5	0.18	(3)	10.00							

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018
- CSA 086-14
- TRC 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/380 (0.88")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/380 (0.88")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.40/1.00 (G+H:1), BC=0.40/1.00 (K:L:2), WB=0.41/1.00 (B-F:1), SSI=0.22/1.00 (D:E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

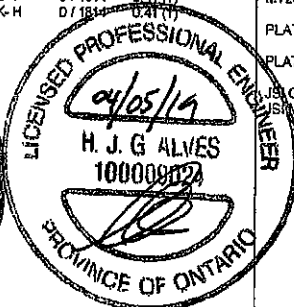
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 768 1887 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JST GRIP= 0.86 (F) (INPUT = 0.90)
JST METAL= 0.50 (M) (INPUT = 1.00)

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TOWN OF CALEDON
BUILDING SECTION
FILE NO.

DRWG NO. TAM 1907764
STRUCTURAL
COMPONENT ONLY

JOB NAME GREEN PARK HOMES **TRUSS NAME** T4 **QUANTITY** 2 **PLY** 1 **TRUSS DESC.**

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Apr 5 14:26:06 2019 Page 1
ID: vPHZI?ZjbnTm8H7hLqNS2yMFX -YQd2N?cx6L4GFjsJvNyKPMjdGJ5hEXXImYuzTh?

Tamarack Roof Truss, Burlington

Scale = 1:52.1

LUMBER
N.L.G.A. RULES
CHORDS SIZE LUMBER DESCR.
A-D 2x4 DRY No.2 SPF
D-E 2x4 DRY No.2 SPF
E-F 2x4 DRY No.2 SPF
F-G 2x4 DRY No.2 SPF
G-J 2x4 DRY No.2 SPF
J-K 2x4 DRY No.2 SPF
K-L 2x4 DRY No.2 SPF
L-M 2x4 DRY No.2 SPF
M-N 2x4 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT E-M 2x4 DRY No.2 SPF
DRY: SEASONED LUMBER.

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, NBC2015
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 (0.96")
CALCULATED VERT. DEFL.(LL) = L/899 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.96")
CALCULATED VERT. DEFL.(TL) = L/899 (0.14")
CSI: TC=0.60/H.00 (B-C:1), BC=0.49/H.00 (O-P:2), WB=0.41/H.00 (B-P:1), SSI=0.24/H.00 (H-I:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 1.00
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873
PLATE PLACEMENT TOL. = 0.250 Inches
PLATE ROTATION TOL. = 5.0 Deg.
STRIP=0.80 (B) (INPUT = 0.80)
METAL=0.40 (N) (INPUT = 1.00)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-M.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	
A-B	0 / 42	-102.1	-102.1 0.14 (1)	10.00	P-C	-50 / 178	0.05 (1)
B-C	-2188 / 0	-102.1	-102.1 0.00 (1)	3.99	O-E	-541 / 0	0.25 (1)
C-D	-1791 / 0	-102.1	-102.1 0.54 (1)	4.39	E-H	0 / 571	0.13 (1)
D-E	-1791 / 0	-102.1	-102.1 0.54 (1)	4.39	H-I	0 / 2	0.00 (1)
E-F	-1402 / 0	-102.1	-102.1 0.35 (1)	5.10	I-M	0 / 573	0.13 (1)
F-G	-1793 / 0	-102.1	-102.1 0.54 (1)	4.39	M-H	-540 / 0	0.25 (1)
G-H	-1793 / 0	-102.1	-102.1 0.54 (1)	4.39	L-H	-82 / 177	0.05 (1)
H-I	-2187 / 0	-102.1	-102.1 0.00 (1)	3.99	B-P	0 / 1820	0.41 (1)
I-J	0 / 42	-102.1	-102.1 0.14 (1)	10.00	L-I	0 / 1878	0.41 (1)
Q-B	-2088 / 0	0.0	0.0 0.22 (1)	5.88			
K-I	-2088 / 0	0.0	0.0 0.22 (1)	5.88			
Q-P	0 / 0	-38.5	-38.5 0.27 (3)	10.00			
P-O	0 / 1785	-38.5	-38.5 0.49 (2)	10.00			
O-N	0 / 1401	-38.5	-38.5 0.35 (2)	10.00			
N-M	0 / 1401	-38.5	-38.5 0.35 (2)	10.00			
M-L	0 / 1785	-38.5	-38.5 0.49 (2)	10.00			
L-K	0 / 0	-38.5	-38.5 0.27 (3)	10.00			

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PROFESSIONAL ENGINEER
H. J. G. ALVES
100009034
PROVINCE OF ONTARIO

DWG NO. TAM #1907165 STRUCTURAL COMPONENT ONLY

[illegible]

JOB NAME 402113	TRUSS NAME T9	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 M Tek Industries, Inc. Fri Apr 5 14:28:09 2019 Page 2 ID: vPHZ17ZibntM8H7hLqhNS2vMFX -y7JB70fPGSr6AIR 2wfy1 AKrF3lxazEX Q8DzTlgy	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
L	BMWWH	MT20	5.0	8.0	2.50	2.25
M	BMWWH	MT20	10.0	12.0		
N	BMWWH	MT20	8.0	8.0	2.50	4.50
O	BMWWH	MT20	7.0	8.0	5.50	3.50
P	BS	MT16	7.0	12.5		
Q	BMWWH	MT20	6.0	12.0	3.00	4.50
R	BMWWH	MT20	8.0	8.0	5.50	3.00
S	BMVH	MT20	10.0	12.0	7.25	

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

LOADING

TOTAL LOAD CASES: (4)

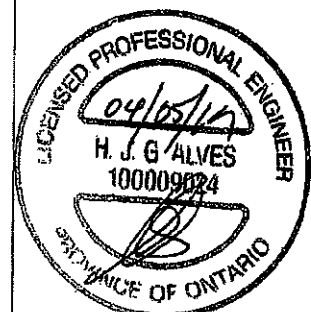
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)
FR-TO		FROM TO	LENGTH	FR-TO		FROM TO	LENGTH
L-K	0/0	-38.5	-38.5 0.05 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	7-11-12	-2	-2		FRONT	VERT	TOTAL		
M	10-8-0	-729	-729		BACK	VERT	TOTAL		
O	11-2-8	-588	-588		FRONT	VERT	TOTAL		
P	9-8-12	-2123	-2123		BACK	VERT	TOTAL		
Q	9-8-12	-1	-1		FRONT	VERT	TOTAL		
R	7-8-12	-2123	-2123		BACK	VERT	TOTAL		
S	7-11-12	-1	-1		FRONT	VERT	TOTAL		
T	1-8-12	-2123	-2123		BACK	VERT	TOTAL		
U	2-4-4	-37	-37		FRONT	VERT	TOTAL		
V	3-11-12	-2	-2		FRONT	VERT	TOTAL		
W	5-11-12	-2	-2		FRONT	VERT	TOTAL		
X	0-10-12	-2	-2		FRONT	VERT	TOTAL		
Y	2-4-4	-1	-1		FRONT	VERT	TOTAL		
Z	3-8-12	-2123	-2123		BACK	VERT	TOTAL		
AA	3-11-12	-1	-1		FRONT	VERT	TOTAL		
AB	5-8-12	-2123	-2123		BACK	VERT	TOTAL		
AC	5-11-12	-1	-1		FRONT	VERT	TOTAL		
AD	11-8-0	-3922	-3922		BACK	VERT	TOTAL		
AE	13-3-4	-729	-729		BACK	VERT	TOTAL		
	15-3-4	-729	-729		BACK	VERT	TOTAL		
	17-3-4	-729	-729		BACK	VERT	TOTAL		
	19-8-12	-1407	-1407		BACK	VERT	TOTAL		

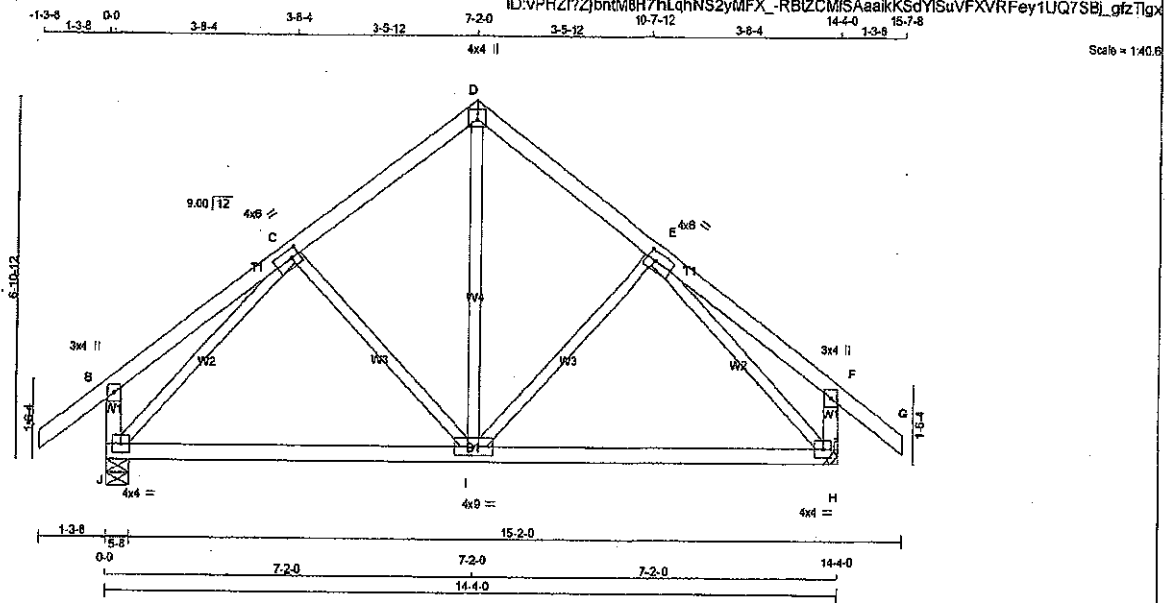
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TOWN OF CALEDON
BUILDING SECTION
FILE NO



DWG NO. TAM 1207768
STRUCTURAL
COMPONENT ONLY 3/2

JOB NAME 402113	TRUSS NAME T10	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



TOTAL WEIGHT = 65 lb
(MIP)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMVWV-t	MT20	4.0	6.0	2.00 2.00
D	TMVWV-t	MT20	4.0	4.0	2.25 2.00
E	TMVWV-t	MT20	4.0	6.0	2.00 2.00
F	TMV+p	MT20	3.0	4.0	
H	BMVWV-t	MT20	4.0	4.0	
I	BMVWVW-t	MT20	4.0	8.0	
J	BMVWV-t	MT20	4.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORIZ	DOWN	HORIZ	UP/LIFT
J	1148	0	1148	0	0
H	1148	0	1148	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	880	498 / 0	151 / 0	0 / 0	0 / 0	203 / 0	0 / 0	0 / 0
H	880	498 / 0	151 / 0	0 / 0	0 / 0	203 / 0	0 / 0	0 / 0

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

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		FACTORED		WEBS	
MEMB.	MAX. FACTORED	VERT. LOAD LC1	MAX. FACTORED	MEMB.	MAX. FACTORED
	FORCE (LBS)	FROM TO	CS1 (LC)		FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 42	-102.1 -102.1	0.14 (1)	I-D	0 / 588
B-C	0 / 25	-102.1 -102.1	0.21 (1)	I-E	-173 / 24
C-D	-757 / 0	-102.1 -102.1	0.16 (1)	C-I	-173 / 24
D-E	-757 / 0	-102.1 -102.1	0.16 (1)	J-C	-1036 / 0
E-F	0 / 25	-102.1 -102.1	0.21 (1)	E-H	-1036 / 0
F-G	0 / 42	-102.1 -102.1	0.14 (1)		
G-H	-283 / 0	0.0 0.0	0.03 (1)		
H-F	-283 / 0	0.0 0.0	0.03 (1)		
J-I	0 / 703	-39.5 -39.5	0.51 (2)		
I-H	0 / 703	-39.5 -39.5	0.51 (2)		

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 NBCC 2010, 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

ALLOWABLE DEFL.(LL) = L/360 (0.48")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.48")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.21/1.00 (B-C:1), BC=0.51/1.00 (I-J:2), WB=0.46/1.00 (C-J:1), SSI=0.18/1.00 (J-I:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (D) (INPUT = 0.90)
JSI METAL = 0.26 (J) (INPUT = 1.00)

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

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TOWN OF CALEDON
BUILDING SECTION
FILE NO.

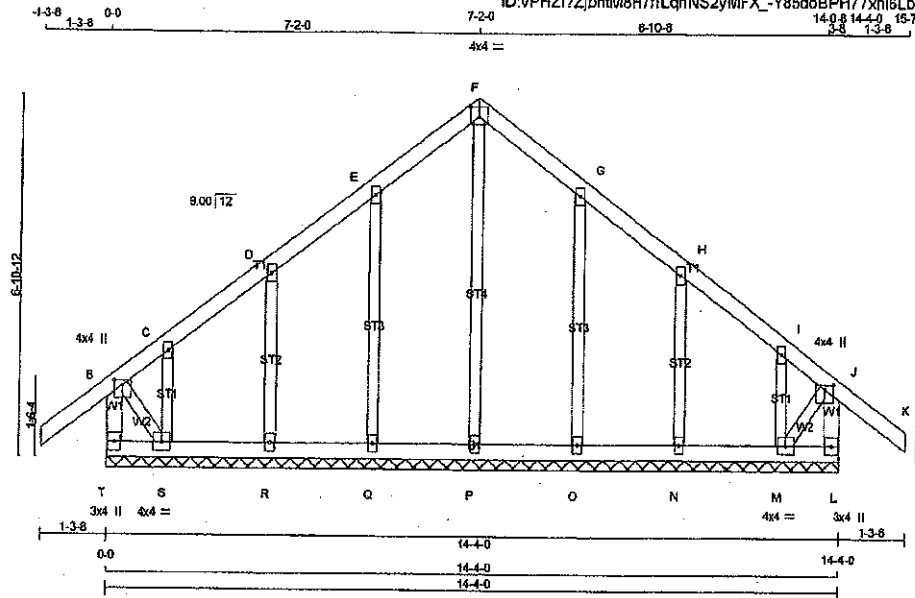


DRWG NO. TAM 17907769
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
402113	G10	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington.				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:25:49 2019 Page 1

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Scale = 1:40.6

TOTAL WEIGHT = 67 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
T - B	2x4	DRY	No.2	SPF
A - F	2x4	DRY	No.2	SPF
F - K	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
T - L	2x4	DRY	No.2	SPF

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table in inches)

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

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)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. CSI (LC)
FR-TO			FR-TO		
T-B	-310 / 0	0.0 0.0 0.03 (1)	P-F	-160 / 0	0.13 (1)
A-B	0 / 42	-102.1 -102.1 0.14 (1)	Q-E	-229 / 0	0.10 (1)
B-C	-72 / 0	-102.1 -102.1 0.13 (1)	R-D	-209 / 0	0.05 (1)
C-D	-14 / 0	-102.1 -102.1 0.05 (1)	S-C	-85 / 0	0.01 (1)
D-E	-13 / 0	-102.1 -102.1 0.08 (1)	O-G	-229 / 0	0.10 (1)
E-F	-22 / 0	-102.1 -102.1 0.08 (1)	N-H	-209 / 0	0.05 (1)
F-G	-22 / 0	-102.1 -102.1 0.08 (1)	M-I	-85 / 0	0.01 (1)
G-H	-13 / 0	-102.1 -102.1 0.08 (1)	B-S	0 / 29	0.01 (1)
H-I	-14 / 0	-102.1 -102.1 0.05 (1)	M-J	0 / 29	0.01 (1)
I-J	-72 / 0	-102.1 -102.1 0.13 (1)			
J-K	0 / 42	-102.1 -102.1 0.14 (1)			
L-J	-310 / 0	0.0 0.0 0.03 (1)			
T-S	0 / 0	-38.5 -38.5 0.02 (3)			
S-R	0 / 17	-38.5 -38.5 0.03 (2)			
R-Q	0 / 12	-38.5 -38.5 0.03 (3)			
Q-P	0 / 8	-38.5 -38.5 0.02 (3)			
P-O	0 / 8	-38.5 -38.5 0.02 (3)			
O-N	0 / 12	-38.5 -38.5 0.03 (3)			
N-M	0 / 17	-38.5 -38.5 0.03 (2)			
M-L	0 / 0	-38.5 -38.5 0.02 (3)			

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. OC

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.14/1.00 (J-K:1), BC=0.03/1.00 (R-S:2), WS=0.13/1.00 (F-P:1), SSI=0.09/1.00 (J-K:1)

DOL LUMBER=1.00 NAIL=1.00 LS 8END=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
MT20	650	371	1747 768 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0° Deg.

JSI GRIP= 0.22 (J) (INPUT = 0.90)
JSI METAL= 0.12 (E) (INPUT = 1.00)



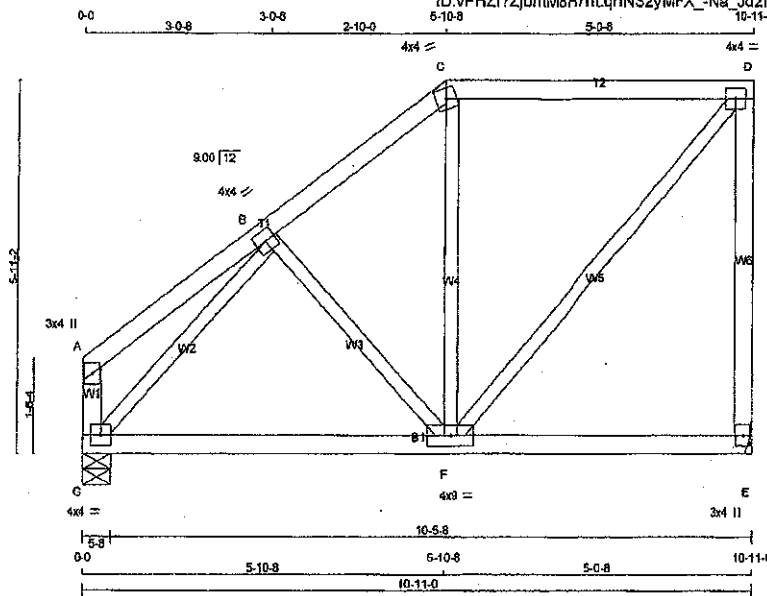
DRWG NO. TAM 17907172
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
402113	T11	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 5 Nov 17 2016 M/Tek Industries, Inc. Fri Apr 5 14:26:12 2018 Page 1

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Scale = 1:33.8

TOTAL WEIGHT = 51 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - D	2x4	DRY No.2
E - A	2x4	DRY No.2
G - A	2x4	DRY No.2
G - E	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMVW-t	MT20	4.0	4.0		
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMV1+p	MT20	3.0	4.0		
F	BMVW-t	MT20	4.0	9.0		
G	BMVW-t	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	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	767	0	767	0
G	767	0	767	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
E	573	317/0	115/0	0/0
G	573	317/0	115/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/21	-102.1	-102.1	0.14 (1)	10.00	B-F	-138/18
B-C	-510/0	-102.1	-102.1	0.11 (1)	6.25	F-C	-80/93
C-D	-389/0	-102.1	-102.1	0.33 (1)	6.25	F-D	0/591
E-D	-700/0	0.0	0.0	0.46 (1)	7.81	G-B	-741/0
G-A	-115/0	0.0	0.0	0.01 (1)	7.81		
G-F	0/484	-38.5	-38.5	0.31 (2)	10.00		
F-E	0/0	-38.5	-38.5	0.28 (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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.46/1.00 (D-E-1), BC=0.31/1.00 (F-G-2), WB=0.24/1.00 (B-G-1), SSI=0.20/1.00 (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.

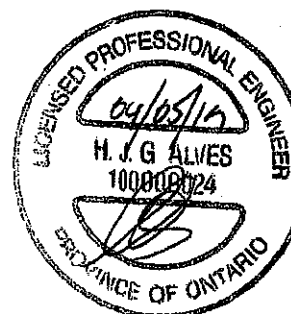
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLU)
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

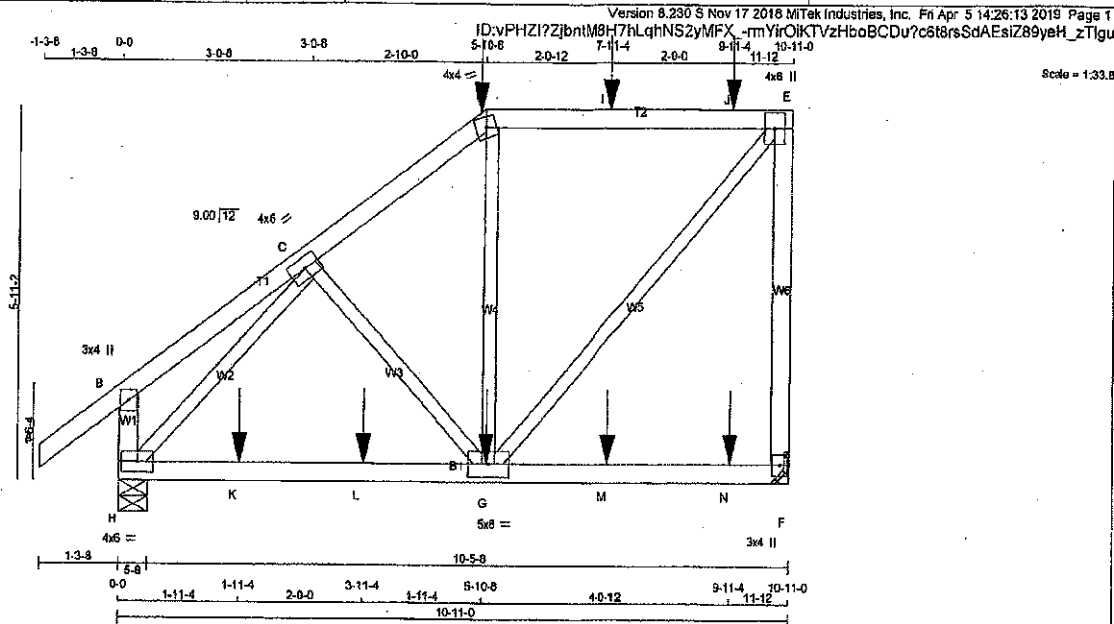
PLATE ROTATION TOL. = 5.0 Deg.

CSI GRIP= 0.76 (B) (INPUT = 0.90)
CSI METAL= 0.27 (B) (INPUT = 1.00)



DRWG NO. TAM T1907771
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME T11Z	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMVW-1	MT20	4.0	6.0	
D	TTW-m	MT20	4.0	4.0	
E	TMVW+p	MT20	4.0	6.0	
F	BMV1+p	MT20	3.0	4.0	
G	BMVW-1	MT20	5.0	6.0	
H	BMVW-1	MT20	4.0	6.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	1446	0	1446	0	0
H	1375	0	1375	0	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX / MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	1076	607 / 0	205 / 0	0 / 0	0 / 0	265 / 0	0 / 0
H	1026	572 / 0	189 / 0	0 / 0	0 / 0	254 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.67 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 / 42	-102.1 -102.1	0.15 (1)	C-G	-23 / 68	0.02 (3)	
B-C	0 / 20	-102.1 -102.1	0.15 (1)	G-D	-132 / 125	0.04 (1)	
C-D	-1049 / 0	-102.1 -102.1	0.16 (1)	G-E	0 / 1285	0.31 (1)	
D-E	-813 / 0	-102.1 -102.1	0.81 (1)	H-F	0 / 1285	0.31 (1)	
E-F	-813 / 0	-102.1 -102.1	0.81 (1)				
F-E	-1332 / 0	0.0 0.0	0.90 (1)				
H-B	-257 / 0	0.0 0.0	0.03 (1)				
H-K	0 / 836	-38.5 -38.5	0.61 (2)				
K-L	0 / 836	-38.5 -38.5	0.61 (2)				
L-G	0 / 836	-38.5 -38.5	0.61 (2)				
G-M	0 / 0	-38.5 -38.5	0.51 (3)				
M-N	0 / 0	-38.5 -38.5	0.51 (3)				
N-F	0 / 0	-38.5 -38.5	0.51 (3)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	FEEL
D	5-10.8	-577	-577		BACK	VERT	TOTAL	
G	5-11.4	-57	-73		BACK	VERT	TOTAL	
I	7-11.4	-123	-123		BACK	VERT	TOTAL	
J	9-11.4	-57	-73		BACK	VERT	TOTAL	
K	5-11.4	-57	-73		BACK	VERT	TOTAL	
N	9-11.4	-57	-73		BACK	VERT	TOTAL	

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, 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

ALLOWABLE DEFL. (LL) = L/360 (0.36")
CALCULATED VERT. DEFL. (LL) = 1 / 899 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (0.36")
CALCULATED VERT. DEFL. (TL) = 1 / 679 (0.15")

CSI: TC=0.90/1.00 (E-F:1), BC=0.61/1.00 (G-H:2), WB=0.43/1.00 (C-H:1), SS=0.35/1.00 (D-E: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	618	354	1667
	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (C) (INPUT = 0.90)

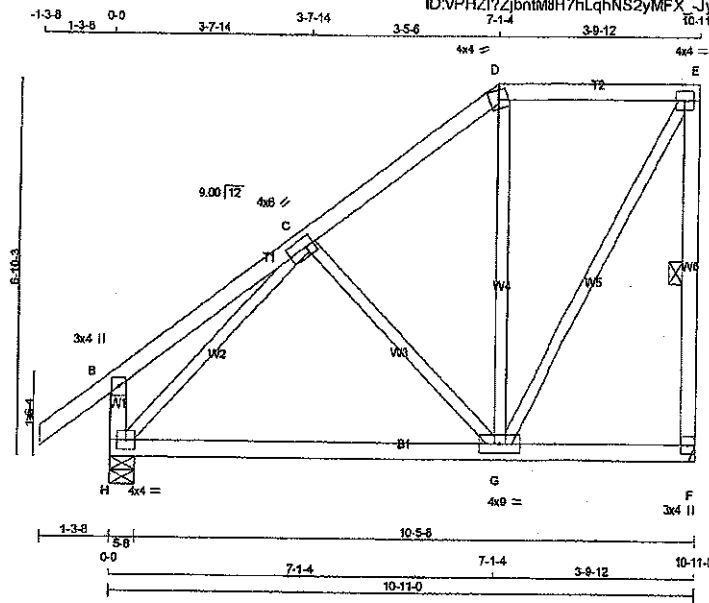
JSI METAL= 0.37 (E) (INPUT = 1.00)

DWG NO. TAM 1907772
STRUCTURAL
COMPONENT ONLY

RECEIVED
JUN 25 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
402113	T12	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

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

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0			
C	TMWW-I	MT20	4.0	6.0	2.00	2.00	
D	TTW-m	MT20	4.0	4.0			
E	TMVV-I	MT20	4.0	4.0			
F	BMV1+p	MT20	3.0	4.0			
G	BMWW-I	MT20	4.0	9.0			
H	BMVV1-I	MT20	4.0	4.0			

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

	FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	767	0	767	0	0
H	908	0	908	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1-8.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
F	573	317/0	115/0	PERM LIVE WIND DEAD SOIL
H	670	397/0	115/0	0/0 0/0 142/0 0/0

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

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.

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

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	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. (PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	FORCE (LBS)
FR-TO							
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00	C-G	-234/0
B-C	0/28	-102.1	-102.1	0.21 (1)	10.00	G-D	-88/74
C-D	-418/0	-102.1	-102.1	0.18 (1)	6.25	G-E	0/633
D-E	-311/0	-102.1	-102.1	0.19 (1)	6.25	H-C	-700/0
E-F	-744/0	0.0	0.0	0.16 (1)	6.25		
H-B	-279/0	0.0	0.0	0.03 (1)	7.81		
H-G	0/474	-38.5	-38.5	0.38 (2)	10.00		
G-F	0/0	-38.5	-38.5	0.34 (3)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

ALLOWABLE DEFL. (LL) = 1/360 (0.36")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.10")
ALLOWABLE DEFL. (TL) = 1/360 (0.36")
CALCULATED VERT. DEFL. (TL) = 1/766 (0.17")

CSI: TC=0.21/1.00 (B-C:1), BC=0.38/1.00 (G-H:2), WB=0.31/1.00 (C-H:1), SS=0.17/1.00 (G-H:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

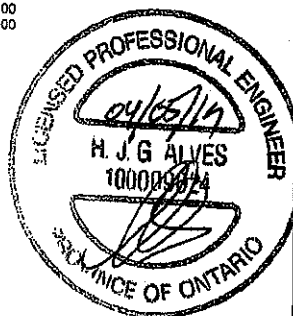
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (E) (INPUT = 0.90)
JSI METAL= 0.19 (E) (INPUT = 1.00)

DWG NO. TAM 1907773
STRUCTURAL
COMPONENT ONLY

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JUN 25 2019

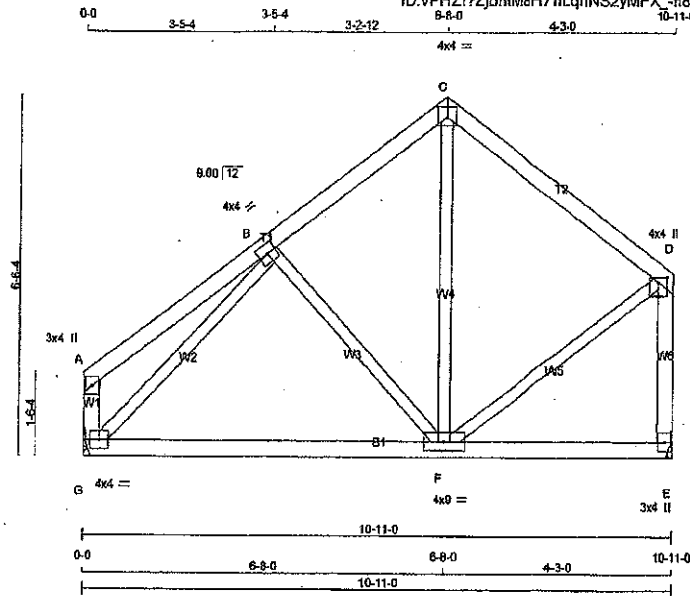
TOWN OF CALEDON
BUILDING SECTION
FILE NO.



THIS STRUCTURE MUST BE
DESIGNED TO EXCEED
THE PROVISIONS OF
THE ONTARIO BUILDING CODE

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
402113	T13	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Fri Apr 5 14:26:15 2019 Page 1
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TOTAL WEIGHT = 2 X 49 = 99 LB

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
G - A	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
G - E	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
A	TMV+p	MT20	3.0	4.0		
B	TMVW+i	MT20	4.0	4.0		
C	TTW+p	MT20	4.0	4.0	2.25	2.00
D	TMVW+i	MT20	4.0	4.0	1.00	2.00
E	BMV+i	MT20	3.0	4.0		
F	BMVW+i	MT20	4.0	9.0		
G	BMVW+i	MT20	4.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
E	787	0	787	0
G	767	0	767	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E, G. MINIMUM BEARING LENGTH AT JOINT E = 1-8, JOINT G = 1-8.

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	573	317/0	115/0	0/0	0/0	142/0	0/0
G	573	317/0	115/0	0/0	0/0	142/0	0/0

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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
(LBS)	(PLF)	CSI (LC)	(LBS)	CSI (LC)
FR-TO	FROM TO	LENGTH FR-TO		
A-B	0/24	-102.1 -102.1 0.18 (1)	B-F	-198/3 0.08 (1)
B-C	-457/0	-102.1 -102.1 0.14 (1)	F-C	0/218 0.05 (3)
C-D	-434/0	-102.1 -102.1 0.24 (1)	G-B	-718/0 0.28 (1)
G-A	-130/0	0.0 0.0 0.01 (1)	F-D	0/425 0.10 (1)
E-D	-723/0	0.0 0.0 0.14 (1)		
G-F	0/480	-38.5 -38.5 0.34 (2)		
F-E	0/0	-38.5 -38.5 0.29 (3)		

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. OC

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 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/380$ (0.36")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.07")
ALLOWABLE DEFL. (TL) = $L/380$ (0.36")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.12")

CSI: TC=0.24/1.00 (C-D:1), BC=0.34/1.00 (F-G:2), WB=0.28/1.00 (B-G:1), GS=0.16/1.00 (F-G:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

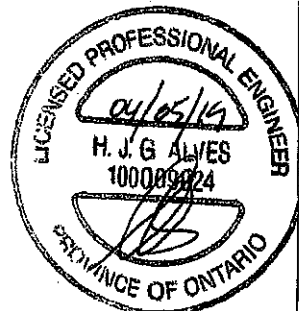
MAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.71 (B) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 1.00)



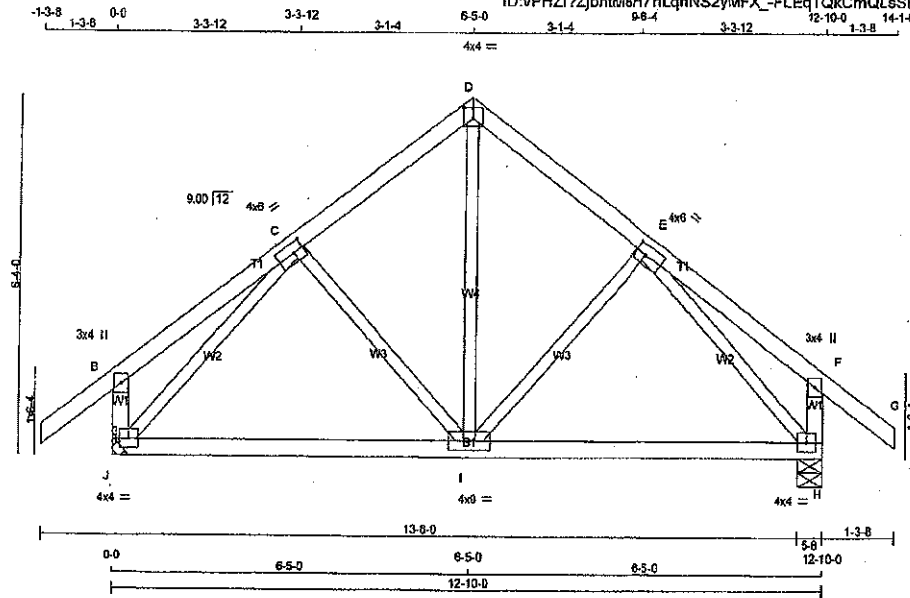
DRWG NO. TAM 17907714
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME T14	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:26:16 2019 Page 1

ID: vPHZ1?ZjbntM8H7hLqhNS2yMFX_-FLEqTQkCmQLsSFvnu0YJkWmYcfuREv?r7AlJzTlgr



Scale = 1:37.5

TOTAL WEIGHT = 3 X 59 = 176 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY No.2

D - G 2x4 DRY No.2

J - B 2x4 DRY No.2

H - F 2x4 DRY No.2

J - H 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

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

BUILDING DESIGNER

BEARINGS

FACTORED MAXIMUM FACTORED INPUT REQD

JT GROSS REACTION GROSS REACTION BRG BRG

J 1043 0 1043 0 0 MECHANICAL

H 1043 0 1043 0 5-8 5-8

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

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
J 771	453 / 0 135 / 0 0 / 0 0 / 0 183 / 0 0 / 0
H 771	453 / 0 135 / 0 0 / 0 0 / 0 183 / 0 0 / 0

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

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.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH FR. TO
FR-TO							
A-B	0 / 42	-102.1	-102.1 0.14 (1)	1-D	0 / 516	0.12 (1)	10.00
B-C	0 / 22	-102.1	-102.1 0.16 (1)	1-E	-140 / 27	0.05 (1)	10.00
C-D	-663 / 0	-102.1	-102.1 0.13 (1)	2-C	-140 / 27	0.05 (1)	8.25
D-E	-663 / 0	-102.1	-102.1 0.13 (1)	3-C	-911 / 0	0.33 (1)	8.25
E-F	0 / 22	-102.1	-102.1 0.16 (1)	4-E	-911 / 0	0.33 (1)	10.00
F-G	0 / 42	-102.1	-102.1 0.14 (1)				10.00
J-B	-269 / 0	0.0	0.0 0.03 (1)				7.81
H-F	-269 / 0	0.0	0.0 0.03 (1)				7.81
J-I	0 / 607	-38.5	-38.5 0.41 (2)				10.00
I-H	0 / 607	-38.5	-38.5 0.41 (2)				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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015

- CSA 088-14

- TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.43")

CALCULATED VERT. DEFL. (LL) = L/999 (0.05")

ALLOWABLE DEFL. (TL) = L/360 (0.43")

CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.16/1.00 (E-F:1), BC=0.41/1.00 (H:2),

WB=0.33/1.00 (E-H:1), SSI=0.16/1.00 (H:3)

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 SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

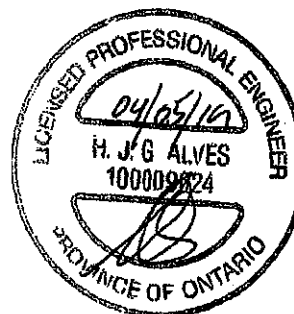
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

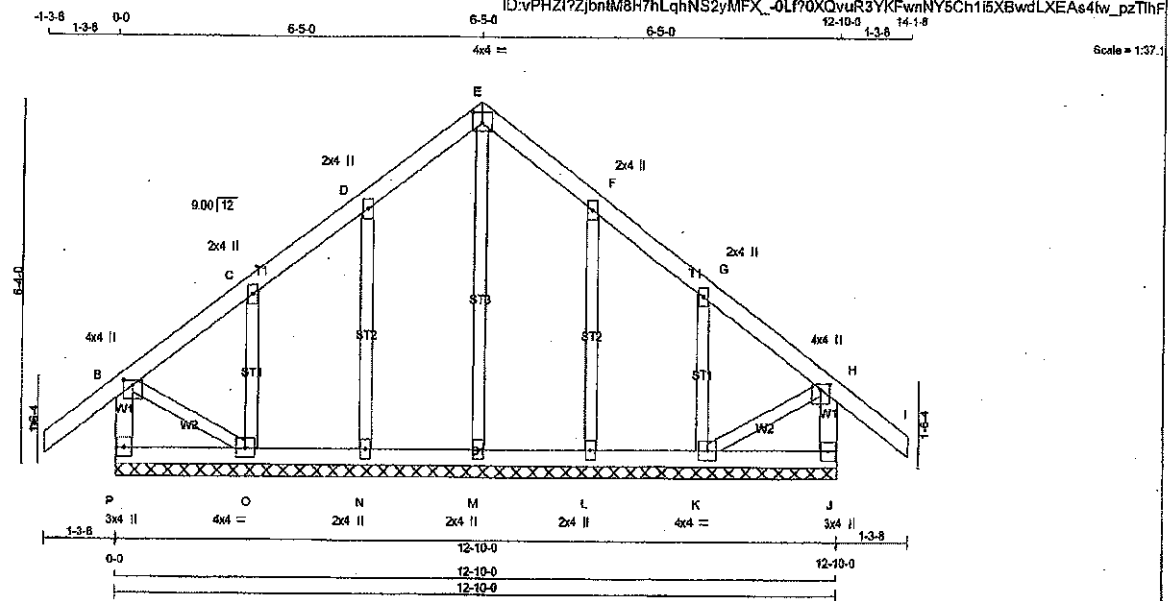
JSI GRIP= 0.88 (D) (INPUT = 0.80)

JSI METAL= 0.21 (H) (INPUT = 1.00)



DWG NO. TAM 1407715
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC	DRWG NO.
402113	G14	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Apr 5 14:25:50 2019 Page 1	



TOTAL WEIGHT = 59 lb

LUMBER

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

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

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

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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX. (LC)	UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO			
P-B	-275 / 0	0.0	0.0	0.03 (1)	7.81	M-E	-147 / 0
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	N-D	-219 / 0
B-C	-24 / 0	-102.1	-102.1	0.07 (1)	6.25	O-C	-243 / 0
C-D	-32 / 0	-102.1	-102.1	0.07 (1)	8.25	L-F	-219 / 0
D-E	-34 / 0	-102.1	-102.1	0.05 (1)	6.25	K-G	-243 / 0
E-F	-34 / 0	-102.1	-102.1	0.05 (1)	6.25	B-D	0 / 33
F-G	-32 / 0	-102.1	-102.1	0.07 (1)	6.25	K-H	0 / 33
G-H	-24 / 0	-102.1	-102.1	0.07 (1)	6.25		
H-I	0 / 42	-102.1	-102.1	0.14 (1)	10.00		
J-H	-275 / 0	0.0	0.0	0.03 (1)	7.81		
P-O	0 / 0	-38.5	-38.5	0.04 (3)	10.00		
O-N	0 / 23	-38.5	-38.5	0.04 (3)	10.00		
N-M	0 / 18	-38.5	-38.5	0.03 (3)	10.00		
M-L	0 / 18	-38.5	-38.5	0.03 (3)	10.00		
L-K	0 / 23	-38.5	-38.5	0.04 (3)	10.00		
K-J	0 / 0	-38.5	-38.5	0.04 (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. OC

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 088-14
- 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

CSI: TC=0.14/1.00 (A-B-1), BC=0.04/1.00 (K-L-3), WB=0.09/1.00 (E-M-1), SSI=0.09/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	850 371	1747 786	1897 1873

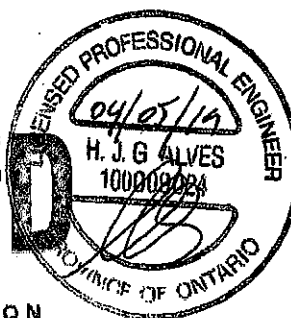
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.21 (H) (INPUT = 0.90)
JSI METAL= 0.13 (C) (INPUT = 1.00)

RECEIVED
JUN 25 2019

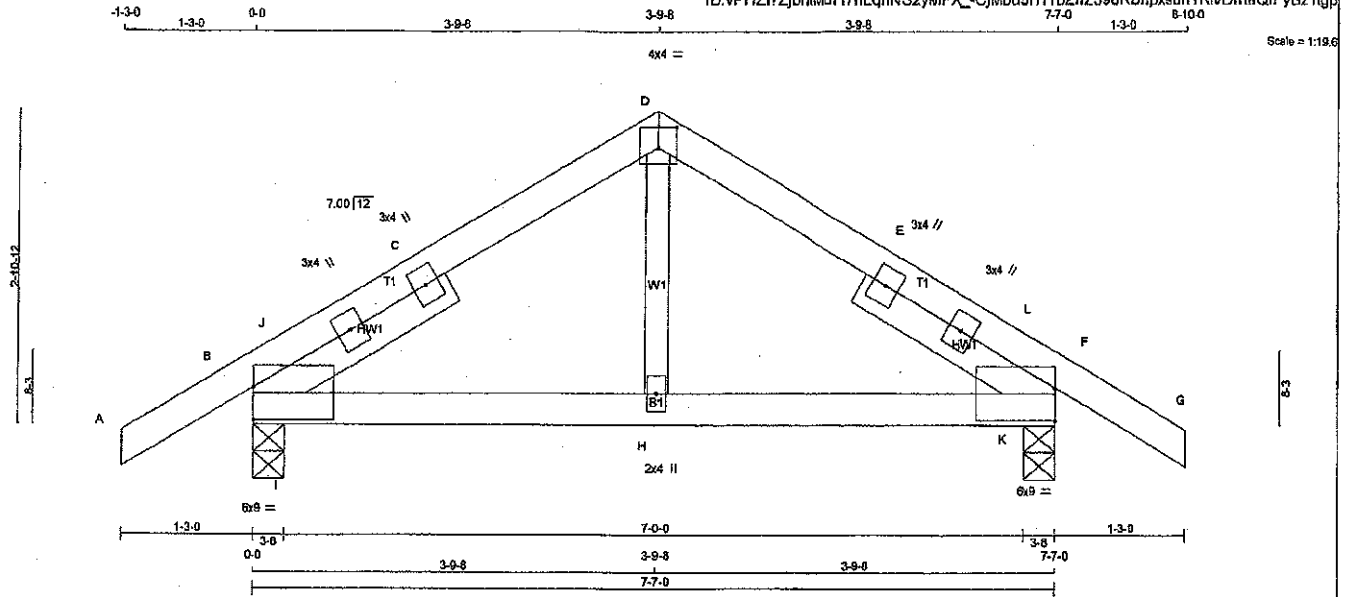
TOWN OF CALEDON
BUILDING SECTION
FILE NO



DRWG NO. TAM T/207776
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME T15	QUANTITY 3	PLY 1	JOB DESC GREEN PARK HOMES	DRWG NO
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:26:16 2019 Page 1
ID:vPHZi7ZjbnIMBH7hLqhNS2yMFX_CjMbu5IT1bZhZ390RbnpxsuhTRlvDmIIQIPyBzTlpp



TOTAL WEIGHT = 3 X 29 = 87 lb
[M/F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
B - F	2x4	DRY	No.2
REINFORCING MEMBERS			
HW1	2x4	DRY	No.2
HW2	2x4	DRY	No.2
ALL WEBS 2x3 DRY: SEASONED LUMBER.			
	2x3	DRY	No.2

PLATES (tablets in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMBMR1-1	MT20	6.0	9.0	3.75
B, B, F, F				
B RT-H	MT20	3.0	4.0	
D TTW-p	MT20	4.0	4.0	2.25 2.00
F TMBMR1-1	MT20	6.0	9.0	3.75
H BMWV-w	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS	REACT	DOWN	HORIZ	BRG	IN-SX	BRG	IN-SX
B	668	0	668	0	0	3-8	3-8	3-8	3-8
F	668	0	668	0	0	3-8	3-8	3-8	3-8

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE
B	491	297 / 0	80 / 0	0 / 0	0 / 0	0 / 0	0 / 0	114 / 0	0 / 0	114 / 0	0 / 0	0 / 0	0 / 0
F	491	297 / 0	80 / 0	0 / 0	0 / 0	0 / 0	0 / 0	114 / 0	0 / 0	114 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, 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		FACTORED		MAX. FACTORED		WEBS		FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	CS1 (L.C)	MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	CS1 (L.C)
FR-TO		FROM	TO			FR-TO		FROM	TO		
A-B	0 / 20	-102.1	-102.1	0.12 (1)	10.00	H-D	0 / 238	-102.1	-102.1	0.05 (2)	10.00
B-J	-439 / 0	-102.1	-102.1	0.03 (1)	6.25	I-J	0 / 160	-102.1	-102.1	0.00 (1)	10.00
J-C	-398 / 0	-102.1	-102.1	0.12 (1)	6.25	K-L	-242 / 0	-102.1	-102.1	0.03 (1)	10.00
C-D	-398 / 0	-102.1	-102.1	0.12 (1)	6.25	K-E	0 / 160	-102.1	-102.1	0.00 (1)	10.00
D-E	-398 / 0	-102.1	-102.1	0.12 (1)	6.25						
E-L	-398 / 0	-102.1	-102.1	0.12 (1)	6.25						
L-F	-439 / 0	-102.1	-102.1	0.03 (1)	6.25						
F-G	0 / 20	-102.1	-102.1	0.12 (1)	10.00						
B-I	0 / 282	-38.5	-38.5	0.13 (1)	10.00						
I-H	0 / 428	-38.5	-38.5	0.20 (1)	10.00						
H-K	0 / 428	-38.5	-38.5	0.20 (1)	10.00						
K-F	0 / 262	-38.5	-38.5	0.13 (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 NBC 2015, OBC 2012
- CSA C88-09, CSA C88-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.25")
CALCULATED VERT. DEFL. (LL) = L/889 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.25")
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CS: TC=0.12/1.00 (A-B:1), BC=0.20/1.00 (H-I:1), WB=0.05/1.00 (D-H:2), SS=0.14/1.00 (F-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

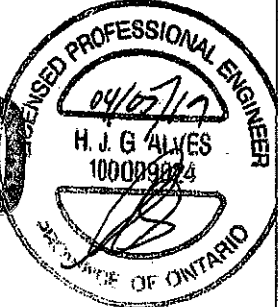
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1967 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.38 (D) (INPUT = 0.90)
JSI METAL= 0.19 (B) (INPUT = 1.00)

RECEIVED
JUN 25 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DWG NO. TAM 1707777
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME G15	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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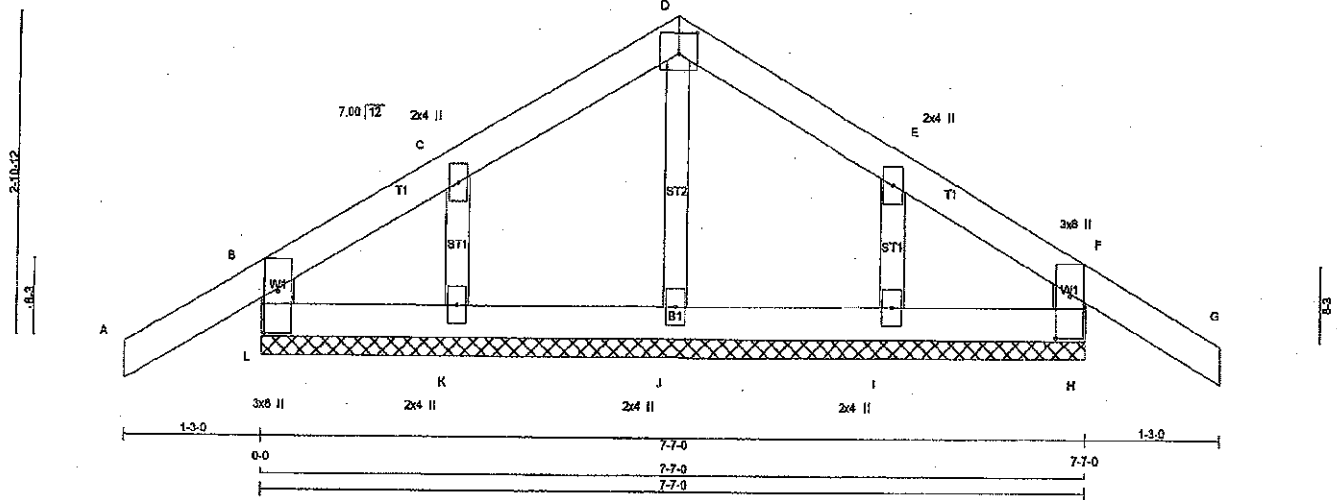
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:25:51 2019 Page 1

ID: vPHZ1?ZjbnIM8H7hLghNS2yMFX_LUXDNDsRXkBPYPVzwGcRDEEHsGy47EK5kcTWFzTthE

1-3-0 1-3-0 0-0 3-9-8 3-9-8 7-7-0 7-7-0 1-3-0 8-10-0

Scale = 1:19.2



TOTAL WEIGHT = 27 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

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.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	F, H, L					
C	TWV+w	MT20	2.0	4.0		
D	TTVV+p	MT20	4.0	4.0	2.25	2.00
E	TWV+w	MT20	2.0	4.0		
F	TMBMV1+p	MT20	3.0	8.0	4.50	1.50
I, J, K						
L	BMV1+w	MT20	2.0	4.0		
L	TMBMV1+p	MT20	3.0	8.0	4.50	1.50

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 = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 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)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
L-B	-231 / 0	0.0	0.0	0.05 (1)	J-D	-259 / 0	0.04 (1)
A-B	0 / 34	-102.1	-102.1	0.13 (1)	K-C	-182 / 0	0.02 (1)
B-C	-7 / 12	-102.1	-102.1	0.08 (1)	I-E	-182 / 0	0.02 (1)
C-D	-5 / 36	-102.1	-102.1	0.06 (1)			
D-E	-5 / 36	-102.1	-102.1	0.05 (1)			
E-F	-7 / 12	-102.1	-102.1	0.08 (1)			
F-G	0 / 34	-102.1	-102.1	0.13 (1)			
H-F	-231 / 0	0.0	0.0	0.05 (1)			
L-K	-19 / 6	-38.5	-38.5	0.04 (1)			
K-J	-27 / 4	-38.5	-38.5	0.03 (3)			
J-I	-27 / 4	-38.5	-38.5	0.03 (3)			
I-H	-19 / 6	-38.5	-38.5	0.04 (1)			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. 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 2010, 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (A-B:1), BC=0.04/1.00 (H-I:1), WB=0.04/1.00 (D-J:1), SS=0.09/1.00 (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 (PSI)	SECTION (PLI)
MT20	618	354	1857

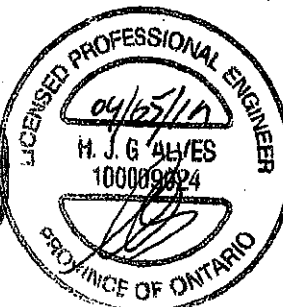
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (D) (INPUT = 0.90)
JSI METAL= 0.08 (D) (INPUT = 1.00)

RECEIVED
JUN 25 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DWG NO. TAM 71907718
STRUCTURAL
CONSOLIDATION ONLY

JOB NAME 402113 **TRUSS NAME** V1 **QUANTITY** 1 **PLY** 1 **TRUSS DESC.** GREEN PARK HOMES **DRWG NO.**

Tamarack Roof Truss, Burlington Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Apr 5 14:46:46 2019 Page 1
ID:vPHZl7ZjbnTm8H7hLqhNS2yMFX_-EzYqd7dISLK0HxAYKdlbuji7UaOdaa2gU7N3ozTIND Scale = 1:27.0

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	No.2	2x4	DRY	No.2	SPF	
C - E	No.2	2x4	DRY	No.2	SPF	
A - E	No.2	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
A	TBM1-h	MT20	3.0	4.0
B	TBW1-w	MT20	2.0	4.0
C	TTW-p	MT20	4.0	4.0
D	TBW1-w	MT20	2.0	4.0
E	TBM1-h	MT20	3.0	4.0
F	BMW1+w	MT20	2.0	4.0

UNFACTORED REACTIONS

JT	1ST LOSE	MAX/MIN COMPONENT REACTIONS	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
A	63	38 / 0	10 / 0	0 / 0	0 / 0	15 / 0	0 / 0	
E	63	38 / 0	10 / 0	0 / 0	0 / 0	15 / 0	0 / 0	
G	310	135 / 0	98 / 0	0 / 0	0 / 0	87 / 0	0 / 0	
H	407	240 / 0	71 / 0	0 / 0	0 / 0	87 / 0	0 / 0	
F	407	240 / 0	71 / 0	0 / 0	0 / 0	87 / 0	0 / 0	

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO							
A-J	-128 / 0	-102.1	-102.1	0.02 (1)	6.25	G-C	-232 / 0
J-B	-34 / 0	-102.1	-102.1	0.23 (1)	6.25	H-B	-444 / 0
B-C	-111 / 0	-102.1	-102.1	0.23 (1)	6.25	F-D	-444 / 0
C-D	-111 / 0	-102.1	-102.1	0.23 (1)	6.25	I-J	0 / 85
D-L	-34 / 0	-102.1	-102.1	0.23 (1)	6.25	K-L	0 / 85
L-E	-128 / 0	-102.1	-102.1	0.02 (1)	6.25		
A-I	0 / 111	-38.5	-38.5	0.04 (1)	10.00		
I-H	0 / 104	-38.5	-38.5	0.07 (2)	10.00		
H-G	0 / 69	-38.5	-38.5	0.11 (2)	10.00		
G-F	0 / 69	-38.5	-38.5	0.11 (2)	10.00		
F-K	0 / 104	-38.5	-38.5	0.07 (2)	10.00		
K-E	0 / 111	-38.5	-38.5	0.04 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
BOT CH. LL = 10.5 PSF
DL = 6.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 62.5 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 CBC 2010, OBC 2012
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

CSJ: TC=0.23(1.00 (B-C:1), BC=0.11(1.00 (F-G:2), WB=0.07(1.00 (C-G:1), SS=0.16(1.00 (B-C:1))

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSD) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1697 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.32 (D) (INPUT = 0.90)
JSI METAL= 0.24 (D) (INPUT = 1.00)

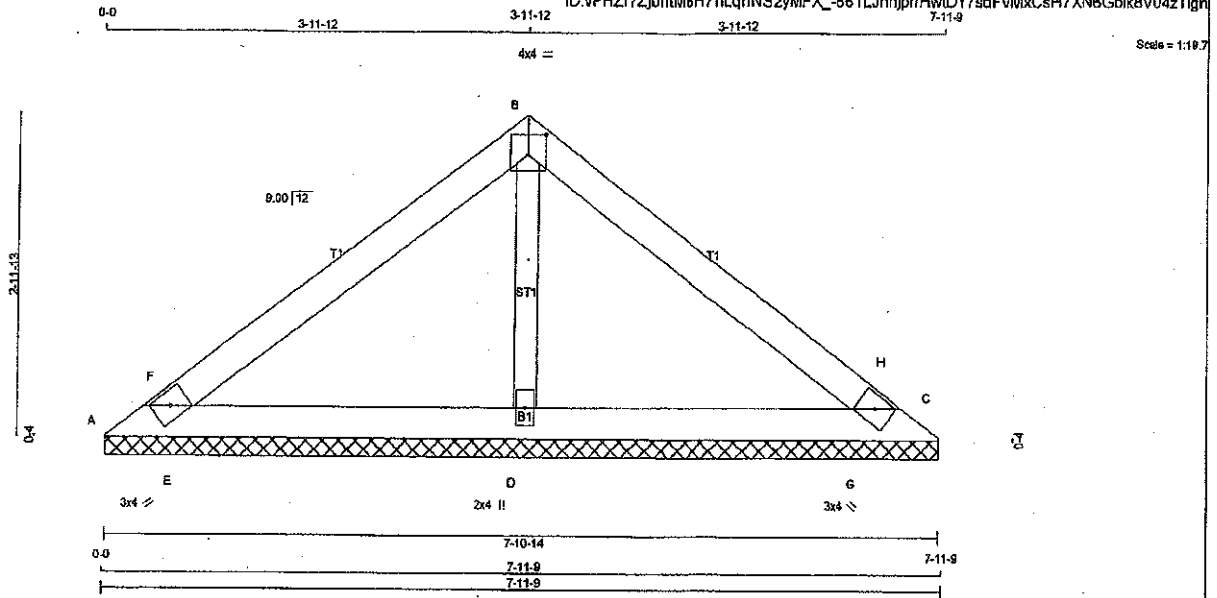
RECEIVED JUN 25 2019 TOWN OF CALEDON BUILDING SECTION FILE NO.

PROFESSIONAL ENGINEER H. J. G. ALVES 100009924

DWG NO. TAM 1907779 STRUCTURAL COMPONENT ONLY

JOB NAME 402113	TRUSS NAME V2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:26:20 2019 Page 1
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TOTAL WEIGHT = 21 lb

LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - B 2x4 DRY No.2

B - C 2x4 DRY No.2

A - C 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER

LUMBER

DESCR.

SPF

SPF

SPF

SPF

SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TBM1-h	MT20	3.0	4.0		
B	TTW-p	MT20	4.0	4.0	2.25	2.00
C	TBM1-h	MT20	3.0	4.0		
D	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
JT	VERT	HORZ	DOWN	HORZ
A	79	0	79	0
C	79	0	79	0
D	954	0	954	0

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	59	33/0	11/0	0/0	0/0	14/0	0/0
C	59	33/0	11/0	0/0	0/0	14/0	0/0
D	713	393/0	144/0	0/0	0/0	177/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 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)	FACTORED LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO						FR-TO			
A-F	0/301	-102.1	-102.1	0.09 (1)	10.00	D-B	-881/0	0.12 (1)	
F-B	0/304	-102.1	-102.1	0.21 (1)	10.00	E-F	-202/17	0.00 (1)	
B-H	0/304	-102.1	-102.1	0.21 (1)	10.00	G-H	-202/17	0.00 (1)	
H-C	0/301	-102.1	-102.1	0.09 (1)	10.00				
A-E	-283/0	-38.5	-38.5	0.15 (1)	6.25				
E-D	-248/0	-38.5	-38.5	0.15 (1)	6.25				
D-G	-248/0	-38.5	-38.5	0.15 (1)	6.25				
G-C	-283/0	-38.5	-38.5	0.15 (1)	6.25				

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 088-09, 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 (B-H:1), BC=0.18/1.00 (D-E:1), WB=0.12/1.00 (B-D:1), SSI=0.13/1.00 (C-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.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1667 788	1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP = 0.81 (B) (INPUT = 0.80)
JSI METAL = 0.19 (B) (INPUT = 1.00)



DRWG NO. TAM 17907780
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
402113	V4	1	1	TRUSS DESC.		

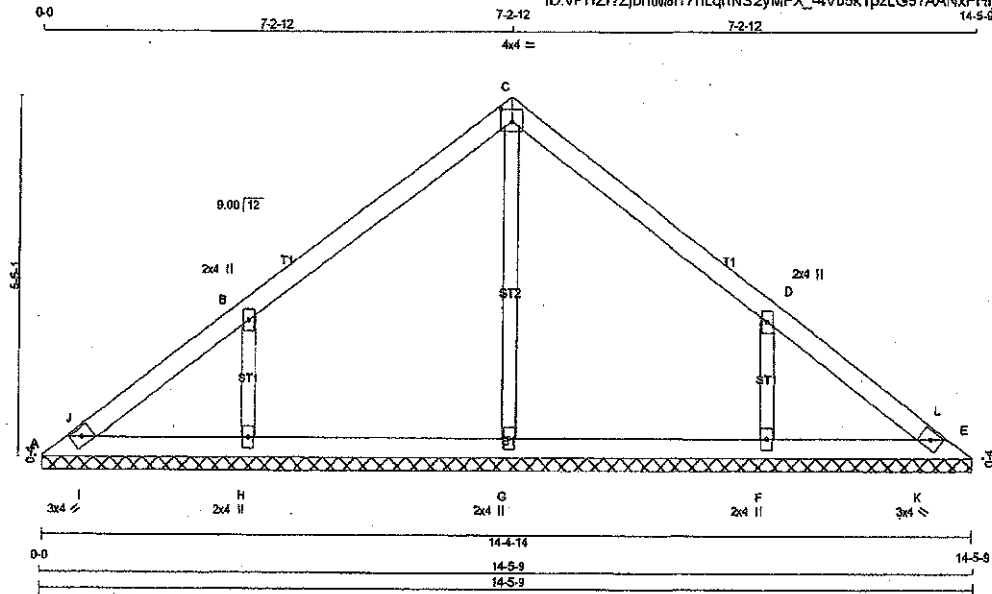
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:28:22 2019 Page 1

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14-5-9

Scale: 3/8"=1'



TOTAL WEIGHT = 43 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY
C - E 2x4 DRY
A - E 2x4 DRY

LUMBER

No.2

DESCR.

SPF

SPF

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

No.2

SPF

PLATES (Table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TBM1-h	MT20	3.0	4.0		
B	TMW+w	MT20	2.0	4.0		
C	TTW+p	MT20	4.0	4.0	2.25	2.00
D	TMW+w	MT20	2.0	4.0		
E	TBM1-h	MT20	3.0	4.0		
F, G, H						
F	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
A	166	0	188	0
E	166	0	166	0
G	474	0	474	0
H	610	0	610	0
F	610	0	610	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
A	122	74/0	19/0	0/0	28/0	0/0
E	122	74/0	19/0	0/0	28/0	0/0
G	366	166/0	99/0	0/0	101/0	0/0
H	452	261/0	82/0	0/0	109/0	0/0
F	452	261/0	82/0	0/0	109/0	0/0

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

BRACING

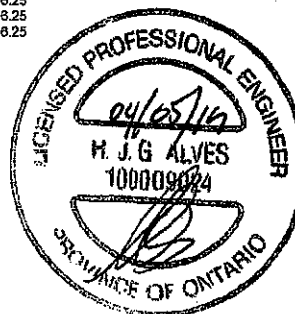
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A-J	-55/4	-102.1	-102.1	0.05 (1)	6.25	G-C	-323/0	0.14 (1)	
J-B	0/30	-102.1	-102.1	0.24 (1)	10.00	H-B	-447/0	0.07 (1)	
B-C	-34/18	-102.1	-102.1	0.23 (1)	6.25	F-D	-447/0	0.07 (1)	
C-D	-34/18	-102.1	-102.1	0.23 (1)	6.25	I-J	-23/28	0.00 (1)	
D-L	0/30	-102.1	-102.1	0.24 (1)	10.00	K-L	-23/28	0.00 (1)	
L-E	-55/4	-102.1	-102.1	0.05 (1)	6.25				
A-I	-18/17	-38.5	-38.5	0.05 (1)	6.25				
I-H	-14/26	-38.5	-38.5	0.09 (2)	8.25				
H-G	-18/17	-38.5	-38.5	0.10 (3)	8.25				
G-F	-18/17	-38.5	-38.5	0.10 (3)	8.25				
F-K	-14/26	-38.5	-38.5	0.09 (2)	8.25				
K-E	-18/17	-38.5	-38.5	0.05 (1)	8.25				



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 = 24.9 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, CBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 0.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.24/1.00 (D-L:1), BC=0.10/1.00 (G-H:3), WB=0.14/1.00 (C-G:1), SS=0.16/1.00 (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) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1067 788 1987 1556

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.32 (B) (INPUT = 0.90)
JSI METAL= 0.24 (B) (INPUT = 1.00)

RECEIVED
JUN 25 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

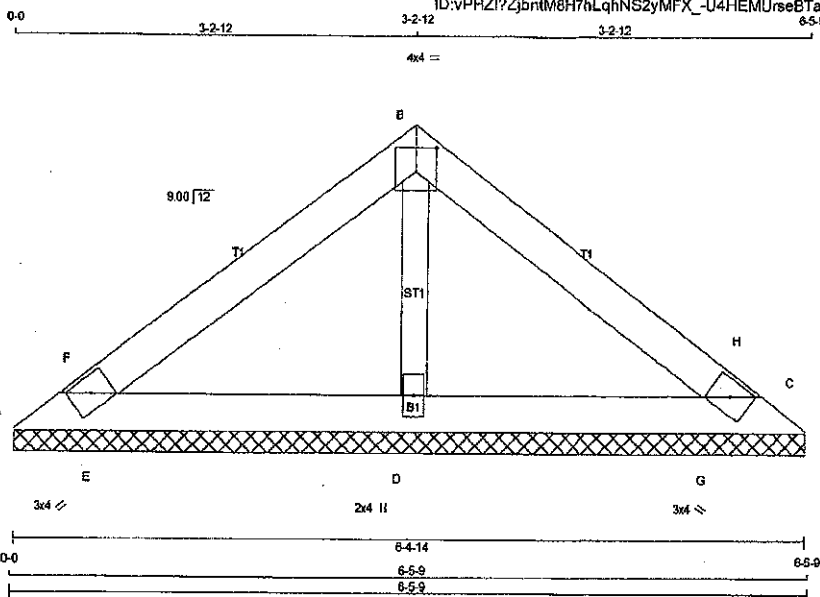
DRWG NO. TAM 11407182
STRUCTURAL
CONSENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
402113	V6	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:26:25 2019 Page 1

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Scale = 1/16"

TOTAL WEIGHT = 17 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
A - C	2x4	DRY	No.2

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - TBM1-h	MT20	3.0	4.0		
B - TTW-p	MT20	4.0	4.0	2.25	2.00
C - TBM1-h	MT20	3.0	4.0		
D - 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	DOWN	IN-SX	IN-SX
A	96	0	0	6-4-14
C	96	0	0	6-4-14
D	708	0	0	6-4-14

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
A	71	41/0	13/0	0/0	17/0	0/0
C	71	41/0	13/0	0/0	17/0	0/0
D	530	290/0	108/0	0/0	132/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO		FROM TO			FR-TO		
A-F	0/181	-102.1 -102.1	0.04 (1)	10.00	D-B	-477/0	0.07 (1)
F-B	0/191	-102.1 -102.1	0.13 (1)	10.00	E-F	-147/11	0.00 (1)
B-H	0/191	-102.1 -102.1	0.13 (1)	10.00	G-H	-147/11	0.00 (1)
H-C	0/181	-102.1 -102.1	0.04 (1)	10.00			
A-E	-179/0	-38.5 -38.5	0.11 (1)	6.25			
E-D	-155/0	-38.5 -38.5	0.12 (1)	6.25			
D-G	-155/0	-38.5 -38.5	0.12 (1)	6.25			
G-C	-179/0	-38.5 -38.5	0.11 (1)	6.25			

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. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012
- CSA 086-09, CSA 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=0.13/1.00 (B-F:1), BC=0.12/1.00 (D-E:1), WB=0.07/1.00 (B-D:1), SSI=0.09/1.00 (A-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

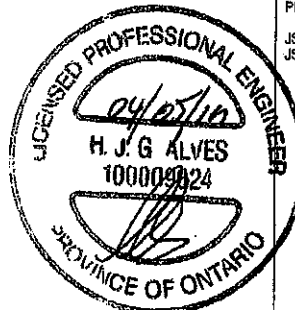
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

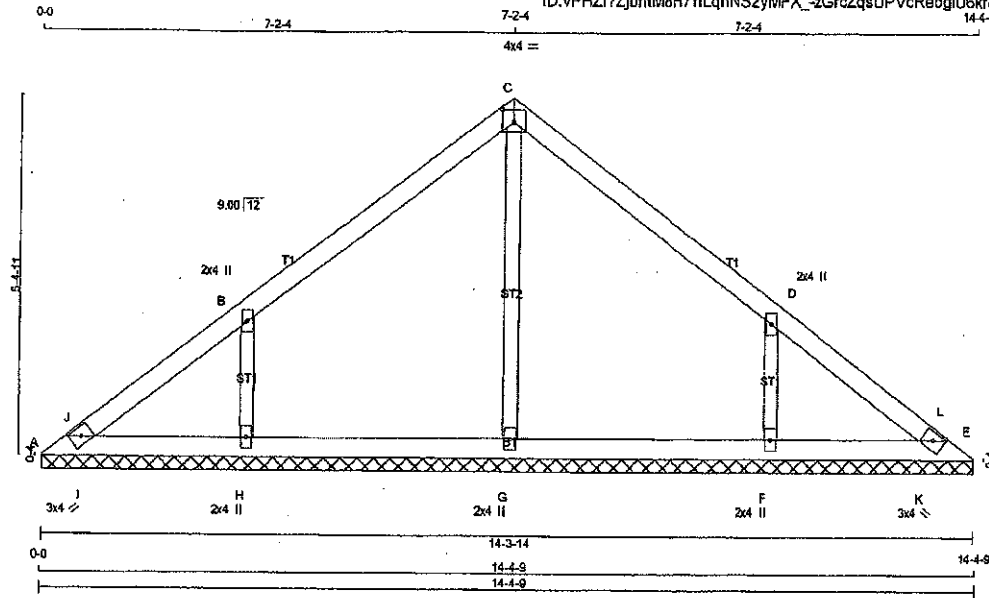
JSI GRIP= 0.43 (B) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)



DRWG NO. TAM 77907784
STRUCTURAL
CALCULATIONS ONLY

JOB NAME 402113	TRUSS NAME V8	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MitTek Industries, Inc. Fri Apr 5 14:26:26 2019 Page 1
ID: vPHZI7ZJbntM8H7hLqhNS2yMFX_zGrCZqsUPVcReogiU6kf8BExhB9noUU8gbqEkzTlgh



Scale: 3/8"=1'

TOTAL WEIGHT = 42 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
A - 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
A - TBM1-h	MT20	3.0	4.0		
B - TBMW+w	MT20	2.0	4.0		
C - TTW-p	MT20	4.0	4.0	2.25	2.00
D - TBMW+w	MT20	2.0	4.0		
E - TBM1-h	MT20	3.0	4.0		
F, G, H					
F - BMW1+w	MT20	2.0	4.0		

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

FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	BRG	IN-SX	IN-SX
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
A	164	0	164	0	0	14-3-14	14-3-14
E	164	0	164	0	0	14-3-14	14-3-14
G	470	0	470	0	0	14-3-14	14-3-14
H	607	0	607	0	0	14-3-14	14-3-14
F	607	0	607	0	0	14-3-14	14-3-14

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	121	73 / 0	19 / 0	0 / 0	0 / 0	28 / 0	0 / 0
E	121	73 / 0	19 / 0	0 / 0	0 / 0	28 / 0	0 / 0
G	363	165 / 0	89 / 0	0 / 0	0 / 0	100 / 0	0 / 0
H	450	260 / 0	82 / 0	0 / 0	0 / 0	108 / 0	0 / 0
F	450	260 / 0	82 / 0	0 / 0	0 / 0	108 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 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		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LC1 MAX	MEMB.	FORCE (LBS)	MAX	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-J	-59 / 2	-102.1	-102.1	0.05 (1)	8.25	G-C	-319 / 0
J-B	0 / 29	-102.1	-102.1	0.24 (1)	10.00	H-B	-448 / 0
B-C	-38 / 16	-102.1	-102.1	0.23 (1)	8.25	F-D	-448 / 0
C-D	-38 / 16	-102.1	-102.1	0.23 (1)	8.25	I-J	-20 / 27
D-L	0 / 29	-102.1	-102.1	0.24 (1)	10.00	K-L	-20 / 27
L-E	-59 / 2	-102.1	-102.1	0.05 (1)	8.25		
A-I	-17 / 20	-38.5	-38.5	0.05 (1)	8.25		
I-H	-13 / 30	-38.5	-38.5	0.09 (2)	8.25		
H-G	-16 / 10	-38.5	-38.5	0.10 (3)	8.25		
G-F	-16 / 10	-38.5	-38.5	0.10 (3)	8.25		
F-K	-13 / 30	-38.5	-38.5	0.09 (2)	8.25		
K-E	-17 / 20	-38.5	-38.5	0.05 (1)	8.25		

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

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=0.24/1.00 (D-L:1), BC=0.10/1.00 (G-H:3), WB=0.13/1.00 (C-G:1), SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

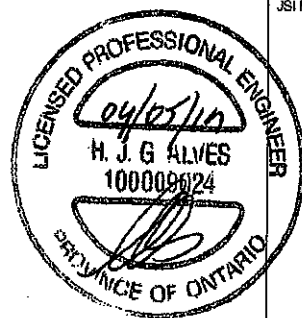
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

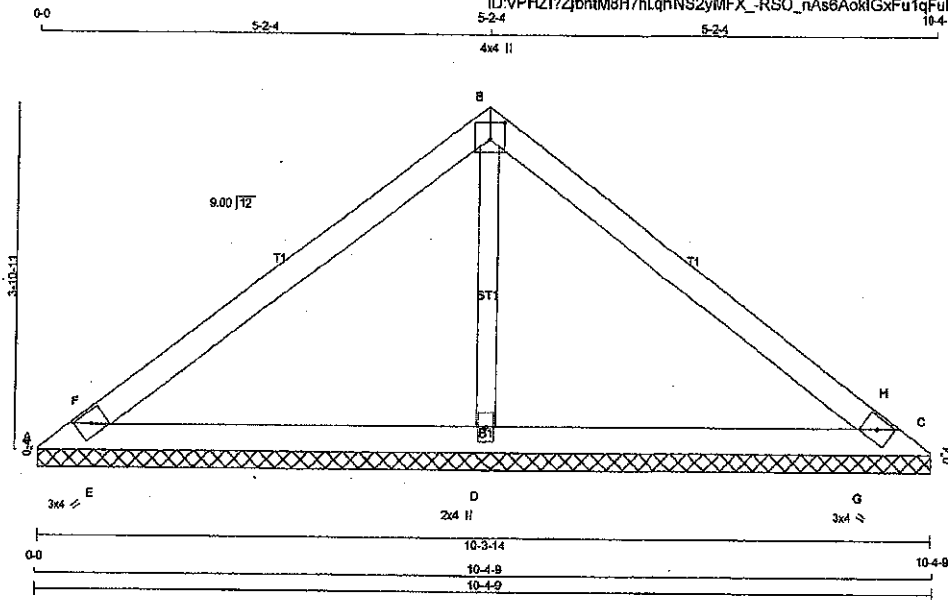
JSI GRIP= 0.32 (D) (INPUT = 0.90)
JSI METAL = 0.24 (D) (INPUT = 1.00)



DRWG NO. TAM 1207785
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME V9	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:26:27 2018 Page 1
ID: VPHZ17ZjbnIM8H7hLqhNS2yMFX_RSO_nAs6AokIGxFu1qFuhqkNa5UQWE7dNKLNmAzTlgg



Scale: 1/2"=1'

TOTAL WEIGHT = 28 lb

LUMBER	SIZE	DRY	No.2	DESCR.
N.L.G.A. RULES				
CHORDS	2x4	DRY	No.2	SPF
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
A TBM1-h	MT20	3.0	4.0	
B TTW+p	MT20	4.0	4.0	2.25
C TBM1-h	MT20	3.0	4.0	
D BMW1+w	MT20	2.0	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	REQD BRG
JT	VERT	DOWN	UP	IN-SX
A	19	0	0	10-3-14
C	19	0	0	10-3-14
D	1413	0	0	10-3-14

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
A	15	6/0	5/0	0/0	0/0	0/0	4/0	0/0
C	15	6/0	5/0	0/0	0/0	0/0	4/0	0/0
D	1054	588/0	207/0	0/0	0/0	0/0	260/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 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	VERT. LOAD	LCI	MAX	MAX. UNBRACED	MEMB.	WEBS	MAX. FACTORED	FORCE	MAX
		(LBS)	(PL)	(LC)	(LC)	LENGTH			(LBS)	(LC)	(LC)
FR-TO							FR-TO				
A-F	0/555	-102.1	-102.1	0.21	(1)	10.00	D-B	-1072/0	0.25	(1)	
F-B	0/537	-102.1	-102.1	0.37	(1)	10.00	E-F	-310/29	0.00	(1)	
B-H	0/537	-102.1	-102.1	0.37	(1)	10.00	G-H	-310/29	0.00	(1)	
H-C	0/555	-102.1	-102.1	0.21	(1)	10.00					
A-E	-495/0	-38.5	-38.5	0.24	(1)	6.25					
E-D	-440/0	-38.5	-38.5	0.29	(1)	6.25					
D-G	-440/0	-38.5	-38.5	0.29	(1)	6.25					
G-C	-495/0	-38.5	-38.5	0.24	(1)	6.25					

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. O.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 2010, NBCC 2015
- 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=0.37/1.00 (B-H:1), BC=0.28/1.00 (D-G:1), WB=0.25/1.00 (B-D:1), SSI=0.19/1.00 (C-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.

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1957 788 1957 1656

PLATE PLACEMENT TOL = 0.250 inches

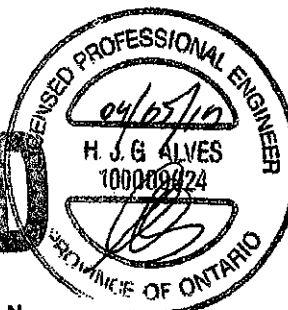
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.90)
JSI METAL= 0.25 (B) (INPUT = 1.00)

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

RECEIVED
JUN 25 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



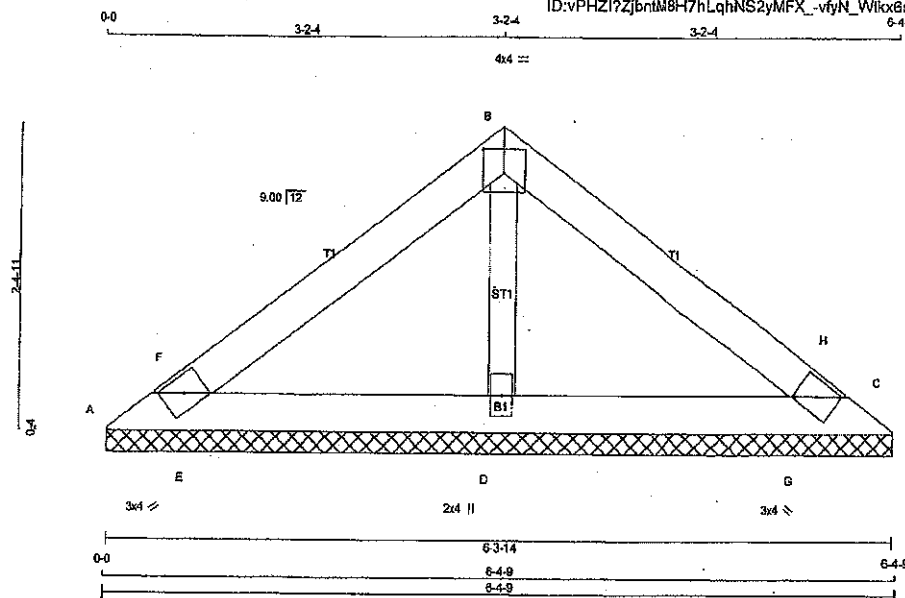
DRWG NO. TAM 17907786
STRUCTURAL
COMPLEMENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
402113	V10	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:28:28 2019 Page 1

ID:vPHZI?ZjbtM8H7hLqhNS2yMFX_vfyN_WlKxGs8u5q4bXm7D2Gc7VtFjzmb_4wJczTlg

Scale = 1:16.7



TOTAL WEIGHT = 17 lb

LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - B 2x4 DRY

B - C 2x4 DRY

A - C 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

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		
A	97	0	97	0	6-3-14	6-3-14
C	97	0	97	0	6-3-14	6-3-14
D	696	0	696	0	6-3-14	6-3-14

UNFACTORED REACTIONS

JT	1ST CASE		MAX / MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM LIVE			
A	72	41 / 0	13 / 0	0 / 0	0 / 0	17 / 0	0 / 0
C	72	41 / 0	13 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	521	264 / 0	107 / 0	0 / 0	0 / 0	130 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX.	MEMB.	WEBS		MAX.
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX			MAX. FACTORED	FORCE	
FR-TO	(LBS)	(PLF)	FROM	TO	CSI (LC)	UNBRAC LENGTH	FR-TO	(LBS)	CSI (LC)
A-F	0 / 175	-102.1	-102.1	0.04 (1)	10.00	D-B	-466 / 0	0.07 (1)	
F-B	0 / 185	-102.1	-102.1	0.13 (1)	10.00	E-F	-144 / 11	0.00 (1)	
B-H	0 / 185	-102.1	-102.1	0.13 (1)	10.00	G-H	-144 / 11	0.00 (1)	
H-C	0 / 175	-102.1	-102.1	0.04 (1)	10.00				
A-E	-174 / 0	-38.5	-38.5	0.11 (1)	6.25				
E-D	-150 / 0	-38.5	-38.5	0.12 (1)	6.25				
D-G	-150 / 0	-38.5	-38.5	0.12 (1)	6.25				
G-C	-174 / 0	-38.5	-38.5	0.11 (1)	6.25				

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 NBCC 2018, CBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

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

CSI: TC=0.13/1.00 (B-F:1), BC=0.12/1.00 (D-E:1),

WB=0.07/1.00 (B-D:1), SS=0.09/1.00 (A-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 788 1897 1656

PLATE PLACEMENT TOL = 0.250 inches

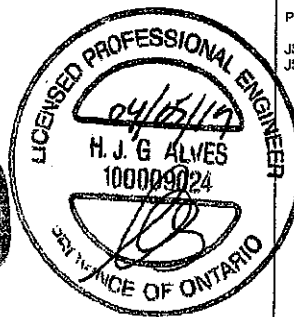
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.90)

JSI METAL= 0.13 (B) (INPUT = 1.00)

RECEIVED JUN 25 2019

TOWN OF CALEDON BUILDING SECTION FILE NO.



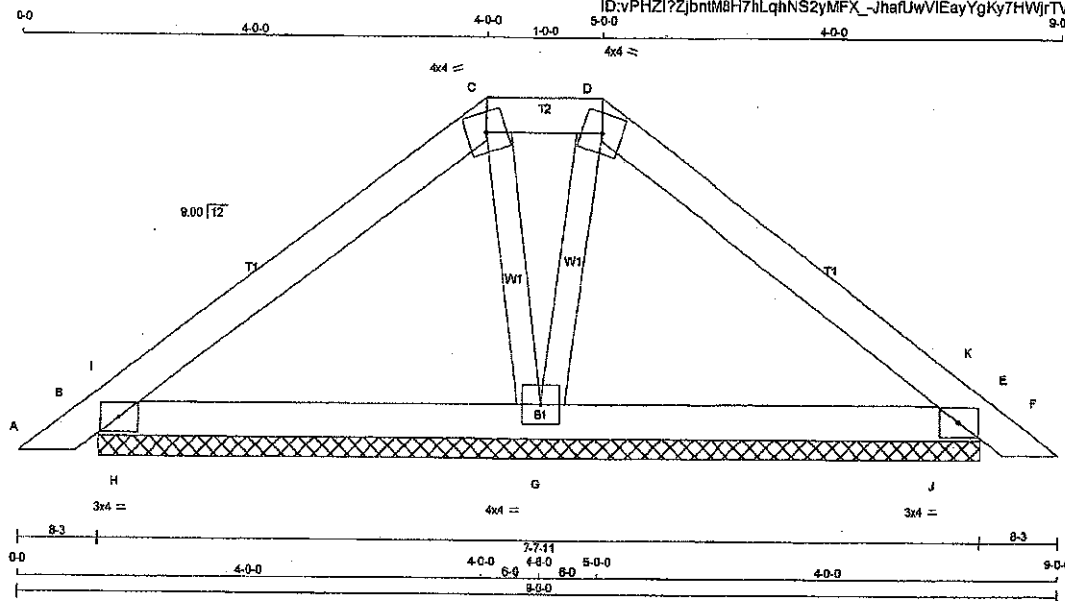
DRWG NO. TAM 7907787 STRUCTURAL COMPONENT ONLY

JOB NAME 402113	TRUSS NAME PB1	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Apr 5 14:25:57 2019 Page 1

ID: vPHZ1?ZjbntM8H7hLqhNSzyMFX_JhafUwVIEayYgKy7HWjrTVUlg?HOUJ4CTf3ojvzTh8

Scale = 1:18.0



TOTAL WEIGHT = 2 X 25 = 50 lb

LUMBER

N.L.G.A. RULES
CHORDS SIZE

A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
B - E	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

LUMBER

DESCR.

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	UPLIFT
B	365	0	365	0
E	354	0	354	0
G	476	0	476	0

UNFACTORED REACTIONS

	1ST CASE	MAX/MIN COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
B	266	167 / 0	39 / 0	0 / 0	0 / 0	60 / 0
E	258	163 / 0	37 / 0	0 / 0	0 / 0	58 / 0
G	361	183 / 0	65 / 0	0 / 0	0 / 0	94 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE 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. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 17	-102.1 -102.1	0.03 (1)	10.00	C-G	-119 / 0	0.02 (1)
B-I	-102 / 0	-102.1 -102.1	0.04 (1)	6.25	G-D	-121 / 0	0.02 (1)
I-C	-141 / 0	-102.1 -102.1	0.14 (1)	6.25	H-I	-254 / 84	0.00 (1)
C-D	-82 / 0	-102.1 -102.1	0.02 (1)	6.25	J-K	-276 / 145	0.00 (1)
D-K	-133 / 0	-102.1 -102.1	0.14 (1)	6.25			
K-E	-86 / 0	-102.1 -102.1	0.04 (1)	6.25			
E-F	0 / 17	-102.1 -102.1	0.03 (1)	10.00			
B-H	0 / 108	-38.5 -38.5	0.12 (1)	10.00			
H-G	0 / 108	-38.5 -38.5	0.16 (2)	10.00			
G-J	0 / 101	-38.5 -38.5	0.16 (2)	10.00			
J-E	0 / 101	-38.5 -38.5	0.12 (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

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

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

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

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

CSI: TC=0.14/1.00 (C-I), BC=0.16/1.00 (G-H), WB=0.02/1.00 (D-G), SS=0.23/1.00 (E-J)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

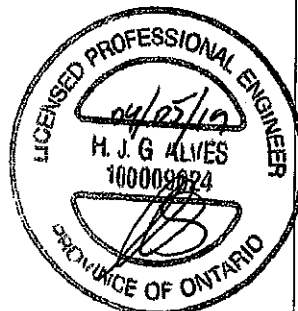
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	818	354	1657
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

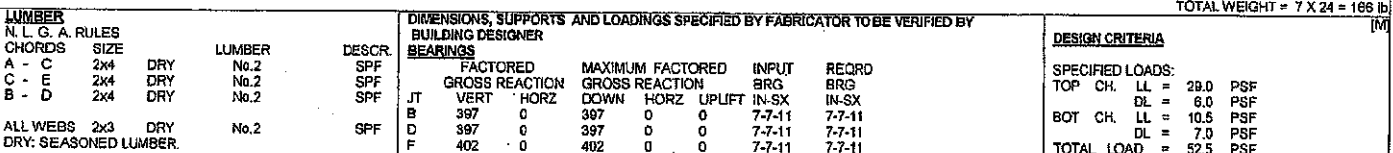


DRWG NO. TAM 17907788
STRUCTURAL
COMPONENT ONLY

4-0-0 4-0-0 4-0-0 4-0-0

4x4 = 16

Scale = 1/210



UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS					
JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	288	188 / 0	38 / 0	0 / 0	0 / 0	64 / 0	0 / 0
D	288	188 / 0	38 / 0	0 / 0	0 / 0	64 / 0	0 / 0
F	310	141 / 0	85 / 0	0 / 0	0 / 0	85 / 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 $\approx$ 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. FACTORED CSI (L/C)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (L/C)	
FR-TO		FROM TO			FR-TO			
A-B	0/17	-102.1	-102.1	0.03 (1)	10.00	F-C	-133/0	0.02 (1)
B-H	-81/0	-102.1	-102.1	0.08 (1)	6.25	G-H	-404/25	0.00 (1)
H-C	-174/0	-102.1	-102.1	0.19 (1)	6.25	I-J	-404/25	0.00 (1)
C-J	-174/0	-102.1	-102.1	0.19 (1)	6.25			
J-D	-81/0	-102.1	-102.1	0.08 (1)	6.25			
D-E	0/17	-102.1	-102.1	0.03 (1)	10.00			
B-G	0/131	-38.5	-38.5	0.17 (1)	10.00			
G-F	0/131	-38.5	-38.5	0.19 (1)	10.00			
F-I	0/131	-38.5	-38.5	0.19 (1)	10.00			
I-D	0/131	-38.5	-38.5	0.17 (1)	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

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=0.18/1.00 (C-J:1), BC=0.19/1.00 (F-G:1),
WB=0.02/1.00 (C-F:1), SSI=0.32/1.00 (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.

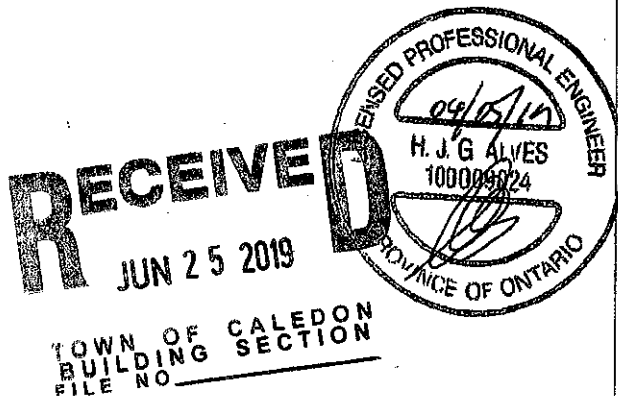
NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)		(PLI)		(PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg

JSI GRIP= 0.32 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

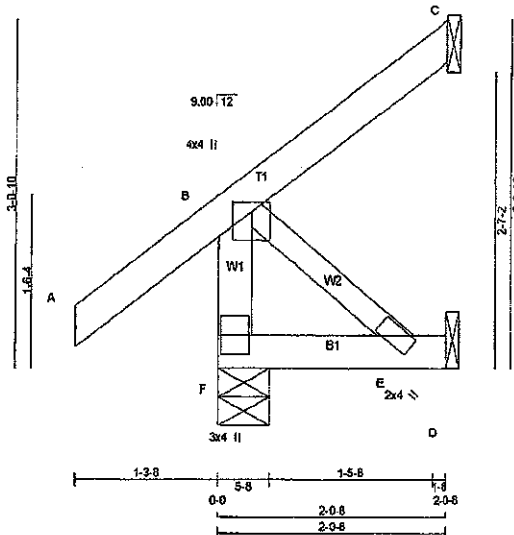
DWG NO. TAM 72907789
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
402113	J1	5	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:25:53 2019 Page 1			
		ID: VPHZ17ZjbntM8H7hLqhNS2yMFX-QwL6eYSnAMR6BjIM2hevJfJcmOxMYvPdY25aa8zTlnC			

1-3-8 1-3-8 0-0 2-0-8 2-0-8

Scale = 1:18.7



TOTAL WEIGHT = 5 X 10 = 50 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR
F - B	2x4	DRY	No.2	SPF	
A - C	2x4	DRY	No.2	SPF	
F - D	2x4	DRY	No.2	SPF	
ALL WEBS 2x3 DRY: SEASONED LUMBER					

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

BEARINGS							
	FACTORED		MAXIMUM FACTORED		INPUT	REQRD	
	GROSS REACTION		GROSS REACTION		BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	284	0	284	0	0	5-8	5-8
C	104	0	104	0	0	1-8	1-8
D	39	0	50	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	294	139 / 0	21 / 0	0 / 0	0 / 0	43 / 0	0 / 0
C	72	50 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
D	36	0 / 0	21 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO					FR-TO		
F-B	-245 / 0	0.0	0.0	0.03 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00		
B-C	0 / 0	-102.1	-102.1	0.07 (1)	10.00		
F-E	0 / 0	-38.5	-38.5	0.04 (3)	10.00		
E-D	0 / 0	-38.5	-38.5	0.03 (3)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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 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 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.14/1.00 (A-B:1), BC=0.04/1.00 (E-F:3),
WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

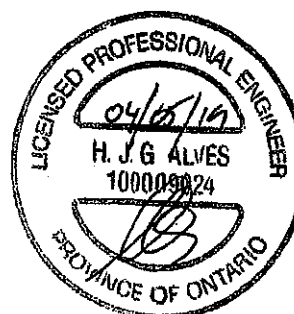
PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)

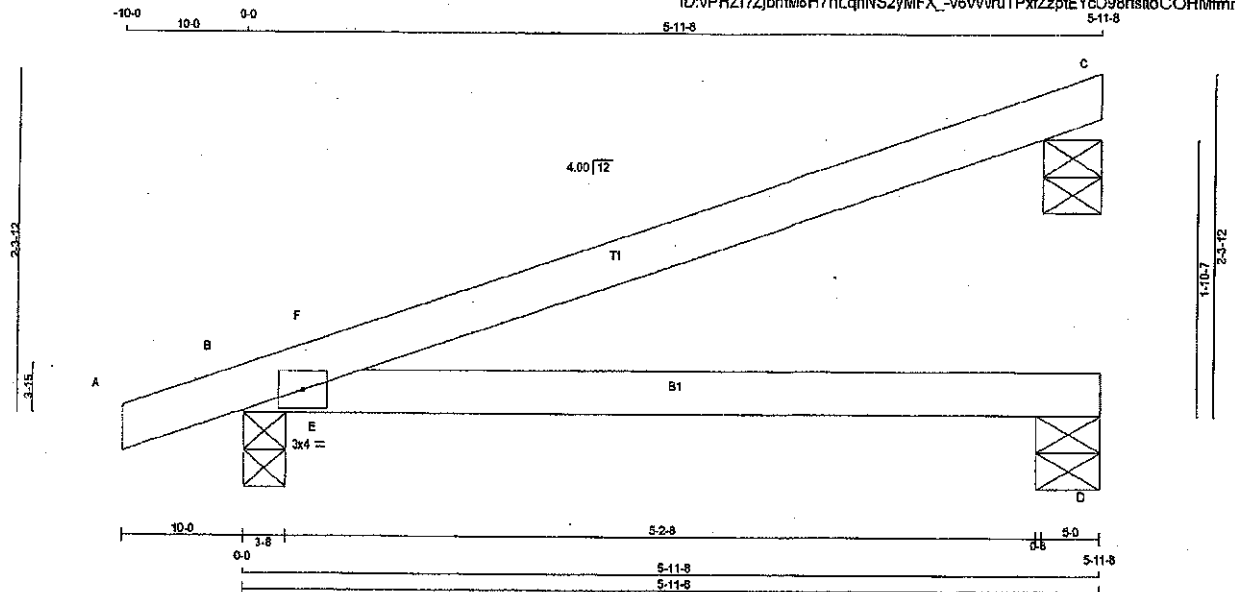
JSI METAL= 0.05 (B) (INPUT = 1.00)



DWG NO. TAM 17907790
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME J4	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 6.230 5 Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:25:54 2019 Page 1
ID:vPHZ17ZjbnrM8H7hLqhNS2yMFX_v6vWruTPxTZptEYc098rtisioCOHmfmnr77azTihB



Scale = 1:14.4

TOTAL WEIGHT = 6 X 15 = 90 lbs

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

DRY: SEASONED LUMBER.

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

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

FACTORED		GROSS REACTION		INPUT		REQ'D	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX
C	274	0	274	0	0	5-0	5-0
B	509	0	509	0	0	3-8	3-8
D	145	0	158	0	0	5-8	5-8

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	SNOW	LIVE	PERM.LIVE	WIND
C	192	148/0	9/0	0/0	0/0	38/0	0/0	0/0	0/0	0/0	0/0
B	375	224/0	63/0	0/0	0/0	88/0	0/0	0/0	0/0	0/0	0/0
D	121	27/0	53/0	0/0	0/0	41/0	0/0	0/0	0/0	0/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD LC1	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD LC1	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0/13	-102.1 -102.1	0.06 (1)	10.00	E-F	-298/143	0.00 (1)
B-F	-60/0	-102.1 -102.1	0.11 (3)	8.25			
F-C	0/8	-102.1 -102.1	0.50 (1)	10.00			
B-E	0/0	-38.5 -38.5	0.31 (1)	10.00			
E-D	0/0	-38.5 -38.5	0.37 (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. OC

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 2010, NBCC 2015
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/853 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/379 (0.19")

CSI: TC=0.50/1.00 (C-F:1), BC=0.37/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.30/1.00 (B-E:1)

DOL LUMBER=1.00 NAL=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.

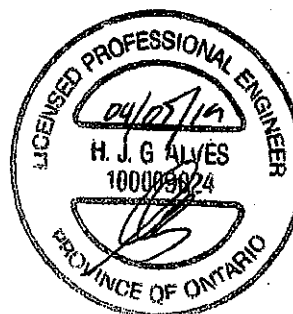
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1957 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.29 (B) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)

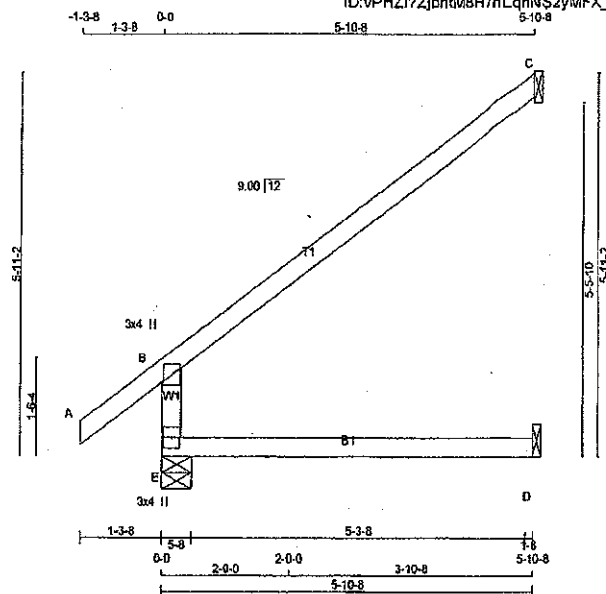
RECEIVED
JUN 25 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DWG NO. TAM 1790779/1
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY.	JOB DESC.	DRWG NO.
402113	J9	18	1	GREEN PARK HOMES	J9
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:25:56 2019 Page 1
ID:vPHZI?ZjbntM8H7hLqHNS2yMFX_rV1GGaUgTHqh2AOxjpCowlx0nbwEIG93E?KEBTzTIh9



Scale = 1/32"

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE	PLATES			
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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
E	645	0	846	0
C	225	0	225	0
D	98	0	122	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM.LIVE	
E	473	293/0	71/0	0/0	108/0
C	154	128/0	0/0	0/0	28/0
D	87	0/0	52/0	0/0	35/0

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)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MAX	MEMB.	FORCE
	(LBS)	(FLF)	CSI (LC)		(LBS)
FR-TO		FROM	TO	FR-TO	
E-B	-516/0	0.0	0.0	0.18 (3)	7.91
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00
B-C	-45/0	-102.1	-102.1	0.80 (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	= 5.0 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 NBC 2015
- 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/959 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/878 (0.08")

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=0.23/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

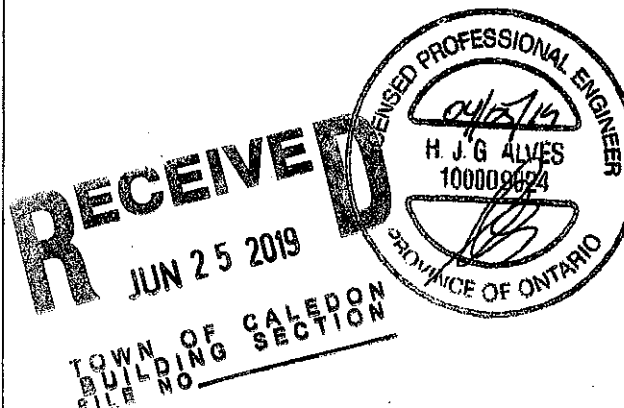
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)

DWG NO. TAM 7907792
STRUCTURAL
COMPONENT ONLY



Tamarack Roof Truss, Burlington



PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMW+w	MT20	2.0	4.0		
F	BMW1+p	MT20	3.0	4.0		

BEARINGS

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

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

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: (5)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN



SPACING = 24.0 IN. C/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

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) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.14/1.00 (A-B:1), BC=0.03/1.00 (E-F:3),
WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1073

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

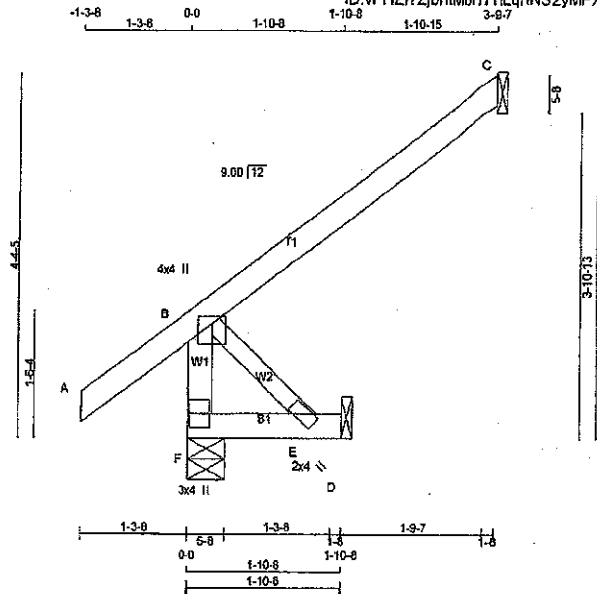
JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

DWG NO. TAM 17907793
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME C2	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO. C2
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2016 Mitek Industries, Inc. Fri Apr 5 14:25:44 2019 Page 1
ID: vPHZI2ZjbnIM6H7hLqHNS2yMFx_-BBIkTL8IbJOCkTd0I_oRmS3KmlJxrBIU8Qbm9zTihL



Scale = 1/25.6

TOTAL WEIGHT = 2 X 12 = 24 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
F - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
E BMVW+p	MT20	2.0	4.0		
F BMV1+p	MT20	3.0	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	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
F	370	0	370	0	5-8	5-8
C	193	0	193	0	1-8	1-8
D	36	0	46	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	262	190 / 0	20 / 0	0 / 0	0 / 0	52 / 0	0 / 0
C	133	110 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	33	0 / 0	20 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				
F-B	-334 / 0	0.0	0.0 0.03 (1)	7.81
A-B	0 / 42	-102.1	-102.1 0.14 (1)	10.00
B-C	0 / 0	-102.1	-102.1 0.25 (1)	10.00
F-E	0 / 0	-38.5	-38.5 0.04 (3)	10.00
E-D	0 / 0	-38.5	-38.5 0.03 (3)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2015
- 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) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/998$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/898$ (0.00")

CSI: TC=0.25/1.00 (B-C:1), BC=0.04/1.00 (E-F:3), WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY.

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

NAIL VALUES

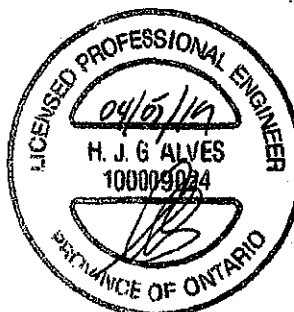
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PL)	(PL)
MT20	850	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

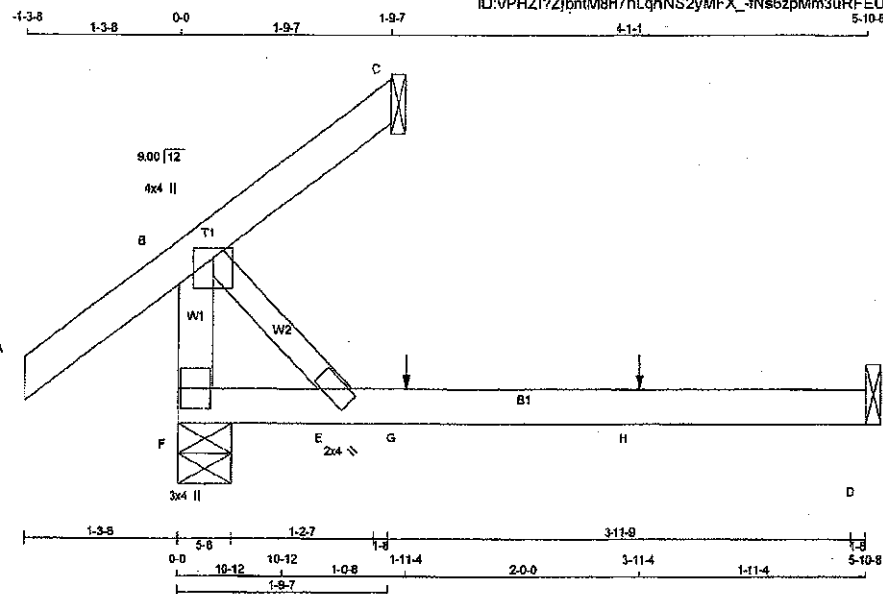
RECEIVED
JUN 25 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DWG NO. TAM 1790 7794
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
402113	C3	2	1	GREEN PARK HOMES	C3
Tamarack Roof Truss, Burlington					

Version 8.230 S Nov 17 2018 MTek Industries, Inc. File Apr 5 14:26:45 2019 Page 1
ID: vPHZi7ZjbnTMBH7hLqHNS2yMFX_fNs6zpMm3uRFEU2pa7V1_2_EaA99gIRRIo99IczTihK



TOTAL WEIGHT = 2 X 14 = 28 lb

LUMBER	N. L. G. A. RULES	CHOROS	SIZE	LUMBER	DESCR
F - B	2x4	DRY	No.2	SPF	
A - C	2x4	DRY	No.2	SPF	
F - D	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMVW+p	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
F	399	0	399	0
C	37	0	37	0
D	113	0	144	0

SEE MITEK STANDARD DETAIL B37621H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE	MAX MIN	COMPONENT REACTIONS	PERM LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD
F	299	163 / 0	62 / 0	0 / 0	0 / 0	75 / 0
C	25	21 / 0	0 / 0	0 / 0	0 / 0	4 / 0
D	103	0 / 0	62 / 0	0 / 0	0 / 0	41 / 0

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

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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	CS1 (LC)	MAX. UNBRACED LENGTH
FR-TO		FROM	TO	
F-B	-288 / 0	0.0	0.0	0.03 (1)
A-B	0 / 42	-102.1	-102.1	0.15 (1)
B-C	-33 / 0	-102.1	-102.1	0.15 (1)
F-E	0 / 0	-38.5	-38.5	0.22 (2)
E-G	0 / 0	-38.5	-38.5	0.32 (2)
G-H	0 / 0	-38.5	-38.5	0.32 (2)
H-D	0 / 0	-38.5	-38.5	0.32 (2)

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	1	1		BACK	VERT	TOTAL		
H	3-11-4	1	1		BACK	VERT	TOTAL		

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 = 62.5 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 CBC 2018
- CSA 088-14
- 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

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $1/925$ (0.08")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $1/555$ (0.13")

CSI: TC=0.15/1.00 (A-B:1), BC=0.32/1.00 (D-E:2),

WB=0.00/1.00 (B-E:1), SS=0.12/1.00 (E-F:2)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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= 0.22 (B) (INPUT = 0.90)

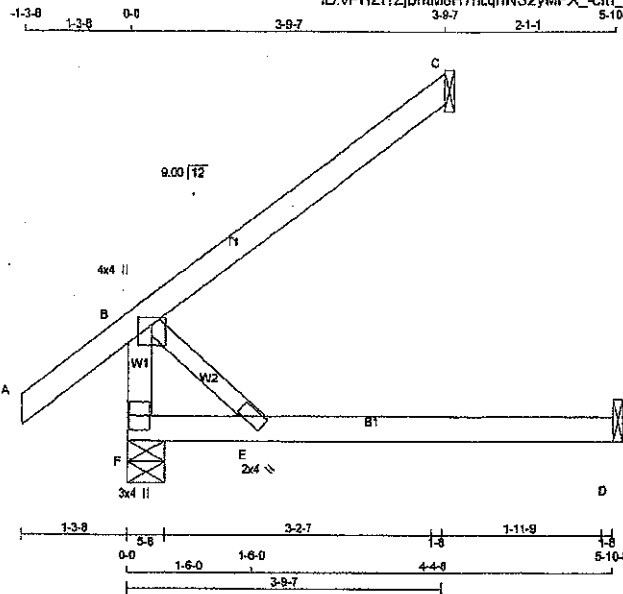
JSI METAL= 0.06 (B) (INPUT = 1.00)



DWG NO. TAM 17407795
STRUCTURAL
COMPONENT ONLY

JOB NAME 402113	TRUSS NAME C4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO. C4
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Tamarack Roof Truss, Burlington Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 14:25:47 2019 Page 1
ID:VPHZI?ZjbntM8H7hLqhNS2yMFx_-cm_tNVN0bVhzToCCChQXV3O4Zzqx8BwkA6eGNUzTHl



TOTAL WEIGHT = 2 X 17 = 34 lb

LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
F - B	2x4 DRY	No.2	SPF		
A - C	2x4 DRY	No.2	SPF		
F - D	2x4 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
DRY: SEASONED LUMBER.					

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMVW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	BRG	IN-SX	IN-SX
F	447	0	447	0	0	5-8	5-8		
C	193	0	193	0	0	1-8	1-8		
D	113	0	144	0	0	1-8	1-8		

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

UNFACTORED REACTIONS		1ST LCASE		MAX MIN. COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	VERT. LOAD	LC1	MAX	LC1	MAX	UNBRAC	LENGTH	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO
F	332	190/0	62/0	0/0	0/0	0/0	0/0	80/0	0/0						
C	133	110/0	0/0	0/0	0/0	0/0	0/0	23/0	0/0						
D	103	0/0	82/0	0/0	0/0	0/0	0/0	41/0	0/0						

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	MEMB.	FORCE (LBS)	MAX
FR-TO		FROM	TO	LENGTH	FR-TO		
F-B	-334/0	0.0	0.0	0.03 (1)	7.81	0/0	0.00 (1)
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00		
B-C	0/0	-102.1	-102.1	0.25 (1)	10.00		
F-E	0/0	-38.5	-38.5	0.23 (3)	10.00		
E-D	0/0	-38.5	-38.5	0.30 (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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 0.4 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/925 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/555 (0.13")

CSI: TC=0.25/1.00 (B-C:1), BC=0.30/1.00 (D-E:3), WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

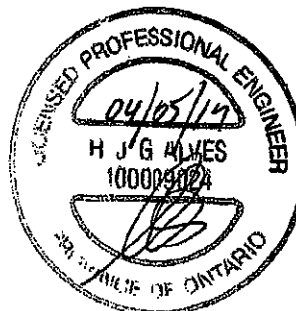
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.80)
JSI METAL= 0.07 (B) (INPUT = 1.00)



DRWG NO. TAM 19407796
STRUCTURAL
COMPONENT ONLY

THIS STRUCTURE MUST BE
CONSTRUCTED IN ACCORDANCE
WITH THE PROVISIONS OF
THE ONTARIO BUILDING CODE



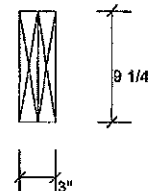
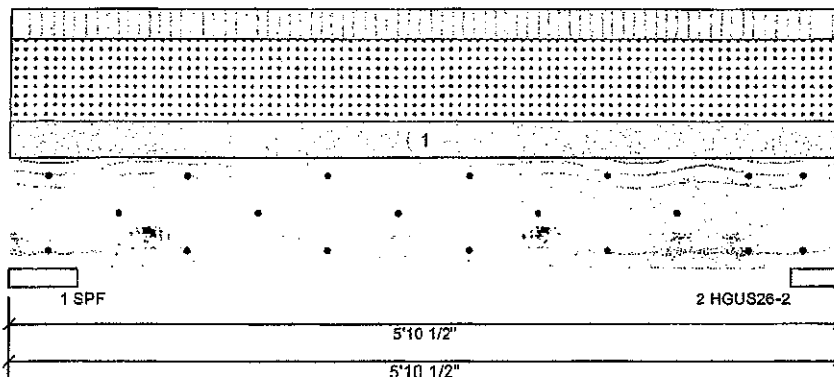
isDesign™

Client:
Project:
Address:Date: 4/5/2019
Designer:
Job Name: 200778
Project #:

Page 1 of 14

BM1 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: Roof (Residential)
Slope: 0/12
Design Method: LSD
Building Code: NBCC 2015
Load Sharing: No
Deck: Not Checked
Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	265	328	733	0
2	254	315	703	0

Bearings and Factored Reactions

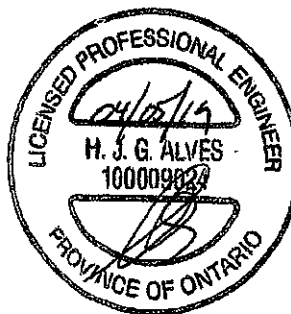
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	18% 410 / 1365	1775 L	1.25D+1.5S +L
2 - HGUS...	4.000"	23% 393 / 1308	1701 L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2007 ft-lb	3'	6039 ft-lb	0.332 (33%)	1.25D+1.5S +L	L
Unbraced	2007 ft-lb	3'	5236 ft-lb	0.383 (38%)	1.25D+1.5S +L	L
Shear	1541 lb	12"	3984 lb	0.387 (39%)	1.25D+1.5S +L	L
LL Defl inch	0.018 (L/3565)	3'	0.174 (L/360)	0.100 (10%)	S+0.5L	L
TL Defl inch	0.024 (L/2585)	3'	0.174 (L/360)	0.140 (14%)	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 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.



ENG NO. TAM 1907829
STRUCTURAL
GIRDER DESIGN 1/12

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		8-5-0	Near Face	13 PSF	10.5 PSF	28 PSF	0 PSF	

RECEIVED
JUN 25 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N8G2
(905) 335-1115



This design is valid until 12/11/2021





isDesign™

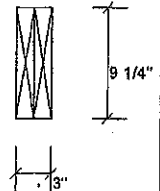
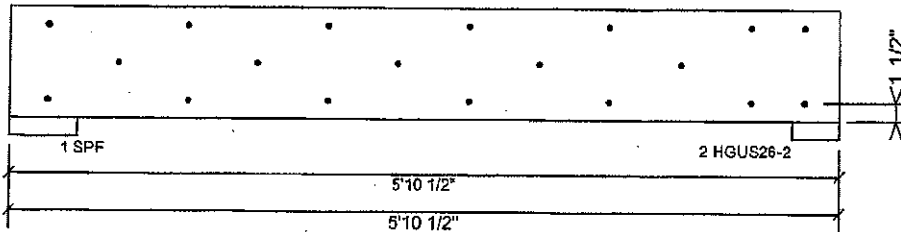
Client:
Project:
Address:

Date: 4/5/2019
Designer:
Job Name: 200778
Project #:

Page 2 of 14

BM1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

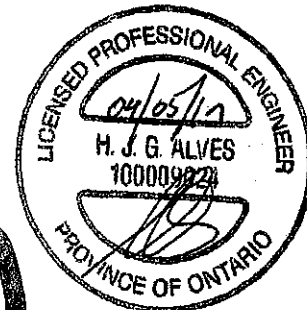


Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	87.0 %
Load	295.9 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

RECEIVED
JUN 25 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DWG NO. TAM 17107829
STRUCTURAL
GOVERNMENT ONLY
2/2

Manufacturer Info

Tamarack Roof Trusses
3289 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115



This design is valid until 12/11/2021





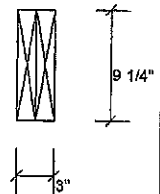
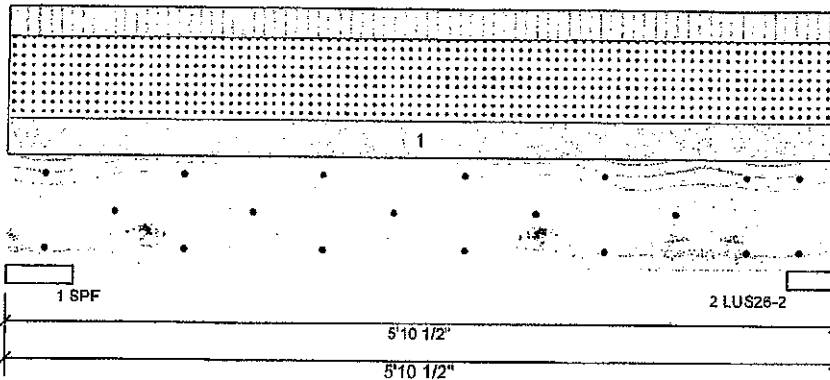
isDesign™

Client:
Project:
Address:Date: 4/5/2019
Designer:
Job Name: 200778
Project #:

Page 3 of 14

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

Level: Level

**Member Information**

Type:	Girder	Application:	Roof (Residential)
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015
Deflection TL:	360	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	203	252	563	0
2	195	241	539	0

Bearings and Factored Reactions

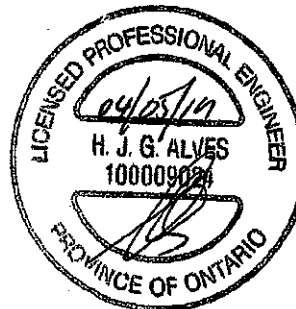
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	13%	315 / 1047	1362 L
2 - LUS26-2	4.000"	18%	302 / 1004	1305 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1540 ft-lb	3'	8039 ft-lb	0.255 (25%)	1.25D+1.5S	L
Unbraced	1540 ft-lb	3'	5236 ft-lb	0.294 (29%)	1.25D+1.5S	L
Shear	1183 lb	1'2"	3984 lb	0.297 (30%)	1.25D+1.5S	L
LL Defl inch	0.013 (L/4646)	3'	0.174 (L/360)	0.080 (8%)	S+0.5L	L
TL Defl inch	0.019 (L/3369)	3'	0.174 (L/360)	0.110 (11%)	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 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.



THIS NO. TAM 11201830
STRUCTURAL
QUALITY ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		6-5-8	Near Face	13 PSF	10.5 PSF	29 PSF	0 PSF	

Manufacturer Info

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115



This design is valid until 12/11/2021





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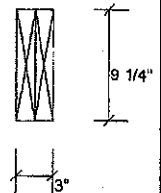
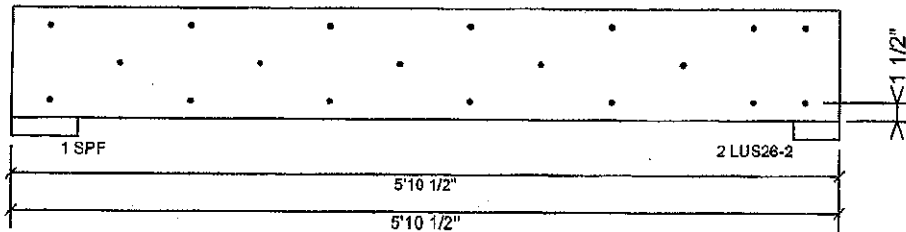
Client:
Project:
Address:

Date: 4/5/2019
Designer:
Job Name: 200778
Project #:

Page 4 of 14

BM2 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. Maximum end distance not to exceed 6"

Capacity	66.8 %
Load	227.0 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



ENG NO. TAM 11407830
STRUCTURAL
CONSULTANT ONLY 2/2

Manufacturer Info

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(605) 335-1115



This design is valid until 12/11/2021





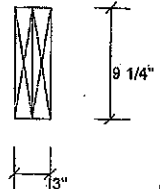
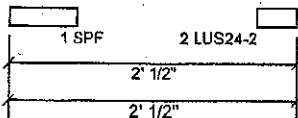
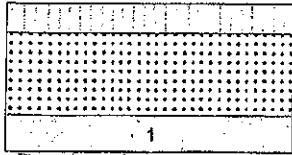
isDesign™

Client:
Project:
Address:Date: 4/5/2019
Designer:
Job Name: 200778
Project #:

Page 5 of 14

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

Level: Level

**Member Information**Type: Girder
Piles: 2
Moisture Condition: Dry
Deflection LL: 380
Deflection TL: 380
Importance: NormalApplication: Roof (Residential)
Slope: 0/12
Design Method: LSD
Building Code: NBCC 2015
Load Sharing: No
Deck: Not Checked
Vibration: Not Checked**Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind
1	97	120	267	0
2	82	102	227	0

Bearings and Factored Reactions

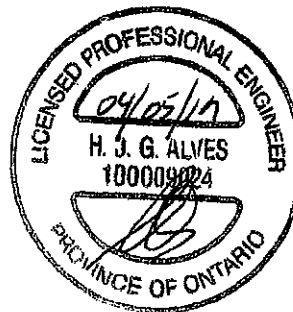
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	6%	150 / 497	647 L
2 - LUS24-2	3.500"	9%	127 / 422	549 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	147 ft-lb	1'1 1/4"	8039 ft-lb	0.024 (2%)	1.25D+1.5S	L
Unbraced	147 ft-lb	1'1 1/4"	5979 ft-lb	0.025 (2%)	1.25D+1.5S	L
Shear	415 lb	1'2"	3984 lb	0.104 (10%)	1.25D+1.5S	L
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		

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 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 11207831
STRUCTURAL
CHECK ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		8-4-0	Near Face	13 PSF	10.5 PSF	29 PSF	0 PSF	

Manufacturer InfoTamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(805) 335-1115

This design is valid until 12/11/2021





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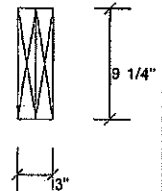
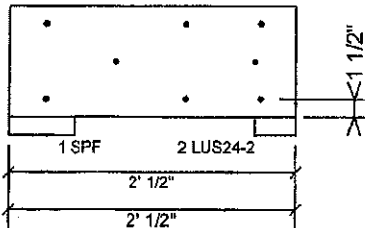
Client:
Project:
Address:

Date: 4/5/2019
Designer:
Job Name: 200778
Project #:

Page 6 of 14

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

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	86.2 %
Load	293.0 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

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



ENGINEER TARI 11901831
STRUCTURAL
COMMITTEE 2/2

Manufacturer Info

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(905) 335-1116



This design is valid until 12/11/2021



LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options information on pp. 125–127.

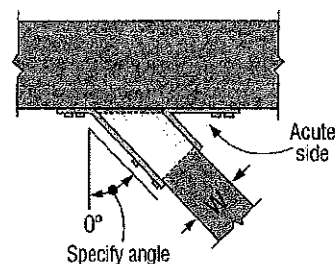
HHUS — Sloped and/or Skewed Seat

- 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.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _e ³	Header	Joist	D.Fr-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Single 2x Sizes											
LUS24	18	1 9/16	3 3/4	1 3/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
								9.16	223	2.87	5.14
LU24L	22	1 9/16	3	1 3/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
								1.60	4.54	1.42	3.22
LU26L	22	1 9/16	5	1 3/4	4 3/4	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140
								3.20	7.14	2.87	5.07
LUS26	18	1 9/16	4 3/4	1 3/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
								6.32	9.65	5.74	7.25
HUS26	16	1 3/8	5 3/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2065	3875
								11.30	21.97	9.20	17.24
LJS26DS	18	1 9/16	5	3 1/2	4 3/4	(16) 16d	(6) 16d	2055	4265	1460	4115
								9.14	18.97	6.49	18.31
HGUS26	12	1 3/8	5 3/4	5	4 1/4	(20) 16d	(8) 16d	2685	6625	2685	5700
								11.96	29.51	11.96	25.35
LU28L	20	1 9/16	6 3/4	1 3/4	5 3/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
								6.07	9.72	4.54	6.89
LUS28	18	1 9/16	6 3/4	1 3/4	3 3/4	(6) 10d	(4) 10d	1420	2520	1290	1790
								6.32	11.21	5.74	7.96
HUS28	16	1 3/8	7 3/4	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
								16.04	23.86	11.90	19.33
HGUS28	12	1 3/8	7 3/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
								14.74	34.10	14.74	30.73
LU210L	20	1 9/16	8	1 3/4	7 3/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
								5.07	11.10	4.54	7.87
LUS210	18	1 9/16	7 1/4	1 3/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210
								6.32	12.39	5.74	9.83

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_e 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.

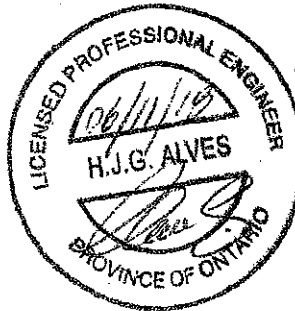
Face-Mount Hangers

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 _g ³	Header	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435
SS LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	371	899	262	638
								1720	2595	1545	1920
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	765	1154	687	854
								2850	7335	2065	5205
HGUS26-2	12	3 1/8	5 7/8	4	4 1/8	(20) 16d	(8) 16d	1268	3263	920	2315
								4385	8950	3110	6355
SS LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	1951	3981	1383	2827
								1720	3325	1545	2575
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	765	1479	687	1145
								3765	8940	2675	6345
HGUS28-2	12	3 1/8	7 7/8	4	6 1/8	(36) 16d	(12) 16d	1675	3977	1190	2822
								6070	12980	4310	9215
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2700	6774	1917	4099
								2580	4500	2320	3195
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	1148	2002	1032	1421
								4670	9660	4235	7000
HGUS210-2	12	3 1/8	9 3/8	4	8 1/8	(46) 16d	(16) 16d	2077	4297	1884	3114
								6840	14015	4855	10270
								3043	6234	2160	4569
Triple 2x Sizes											
HGUS26-3	12	4 1/8	5 1/2	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								1951	3981	1383	2827
HGUS28-3	12	4 1/8	7 1/4	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	6774	1917	4099
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	4670	9670	4235	6865
								2077	4302	1884	3054
HGUS210-3	12	4 1/8	9 1/4	4	8 3/8	(46) 16d	(16) 16d	6840	14645	4855	10400
								3043	6514	2160	4626
Quadruple 2x Sizes											
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								1951	3981	1383	2827
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	6774	1917	4099
HHUS210-4	14	6 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	4670	10155	4235	7210
								2077	4517	1884	3207
HGUS210-4	12	6 1/8	9 1/8	4	8 3/8	(46) 16d	(16) 16d	6840	14645	4855	10400
								3043	6614	2160	4626
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								3398	6670	2413	4735
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								4506	7295	3200	5180
4x Sizes											
LUS46	18	3 1/8	4 1/8	2	3 1/8	(4) 16d	(4) 16d	1720	2595	1545	1920
								765	1154	687	854
HHUS46	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	2540	7335	2065	5205
								1130	3263	920	2315
HGUS46	12	3 1/8	5 1/4	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								1951	3981	1383	2827
LUS48	18	3 1/8	6 1/8	2	3 1/8	(6) 16d	(4) 16d	1720	3325	1545	2575
								765	1479	687	1145
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								1675	3977	1190	2822
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								2700	6774	1917	4099
LUS410	18	3 1/8	8 1/8	2	5 1/8	(8) 16d	(6) 16d	2580	4500	2320	3195
								1148	2002	1032	1421
HGUS410	12	3 1/8	9	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
								3043	6234	2160	4569
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								3398	6670	2413	4735
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								4506	7295	3200	5180

See footnotes on p. 258.



Alves Engineering Services Inc.

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

RESPONSABILITIES

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

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

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

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

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

SPECIFICATIONS

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

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

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

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

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

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

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

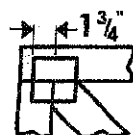
8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1300-19
RECEIVED
Feb 09, 2018
JUN 25 2019

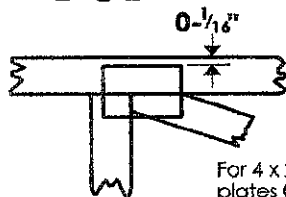
TOWN OF CALEDON
BUILDING SECTION
FILE NO. _____

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 0-1/16\"



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

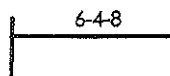


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

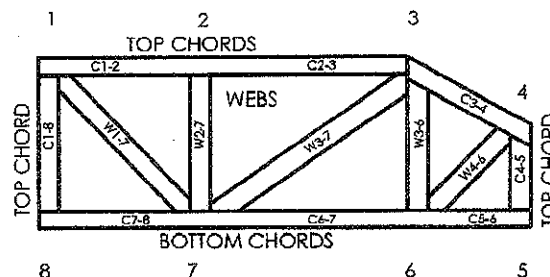
Industry Standards:

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

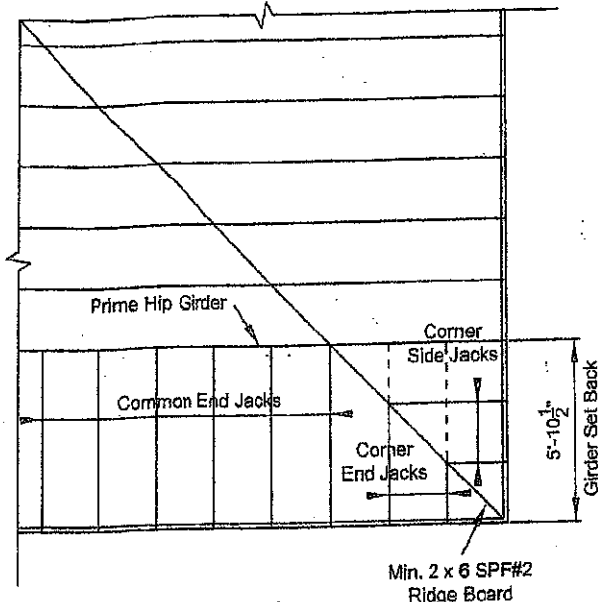
General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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FILE NO.



45° Hip End

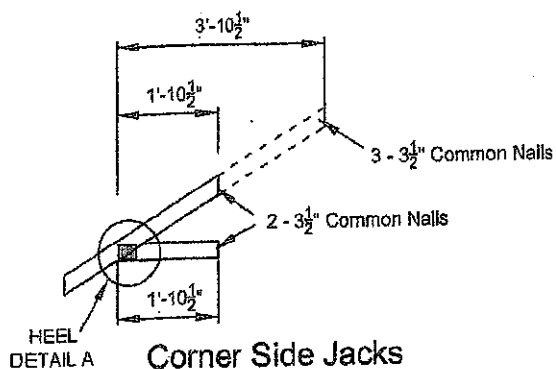
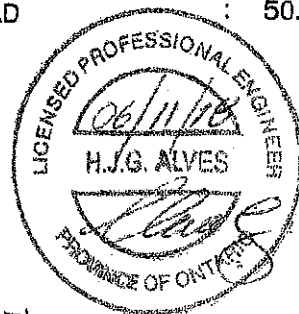
LUMBER SPECIFICATION

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

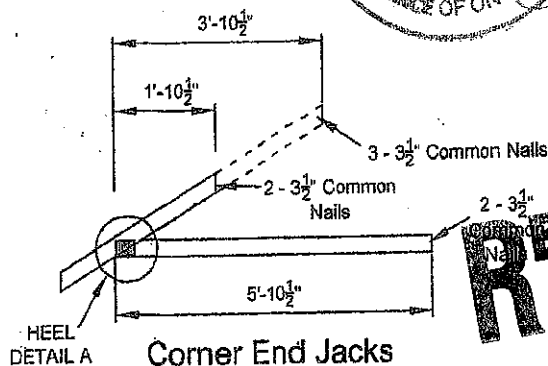
DESIGN LOAD

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

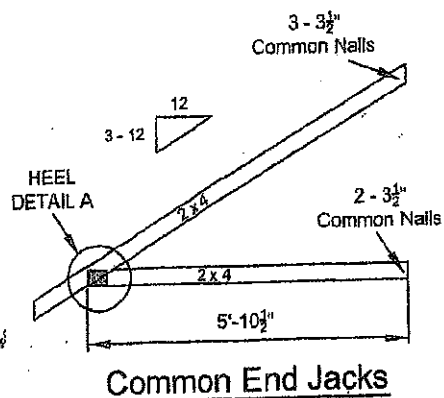
TOTAL LOAD : 50.5 P.S.F



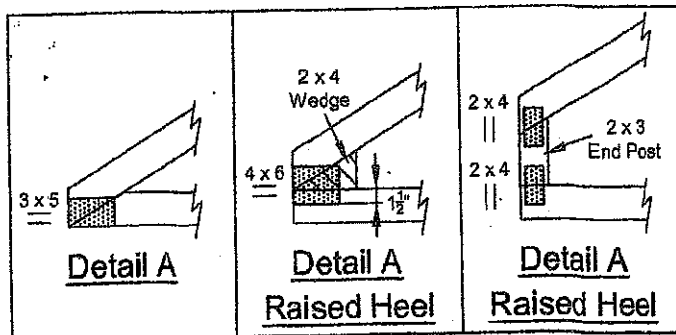
Corner Side Jacks



Corner End Jacks



Common End Jacks

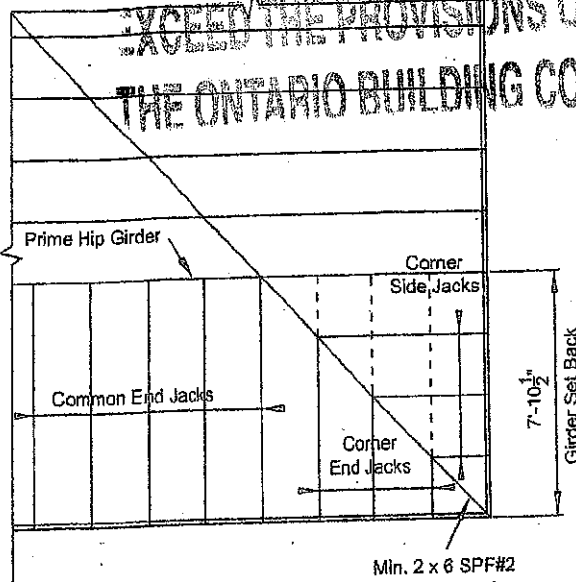


NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

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T-1800216

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



45° Hip End

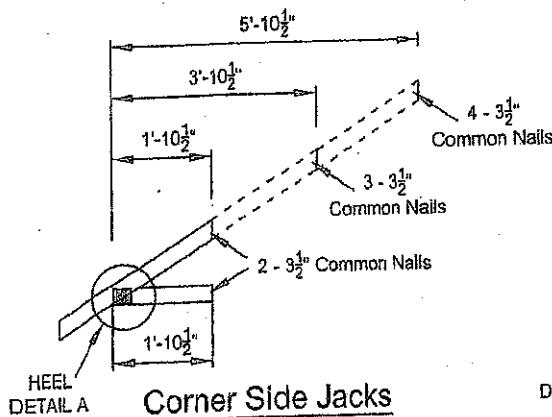
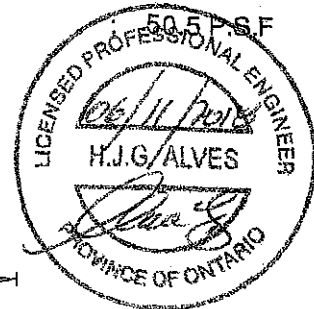
LUMBER SPECIFICATION

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

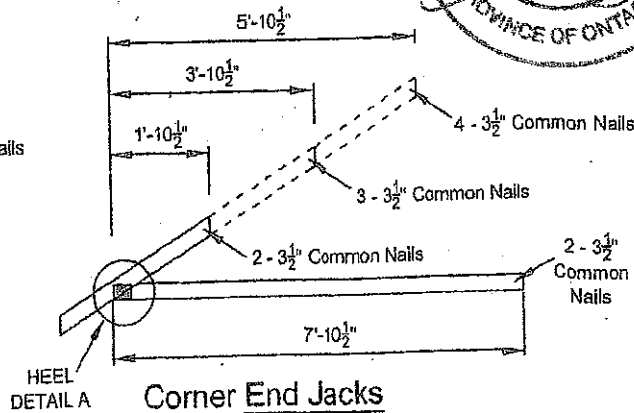
DESIGN LOAD

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

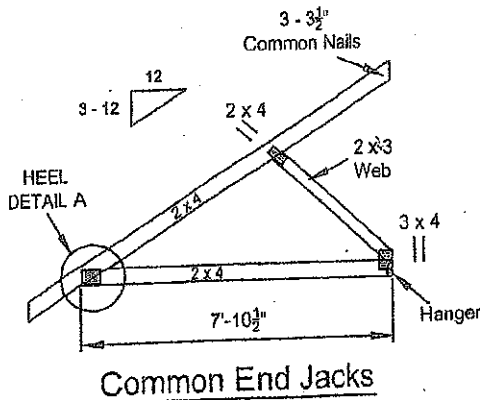
TOTAL LOAD



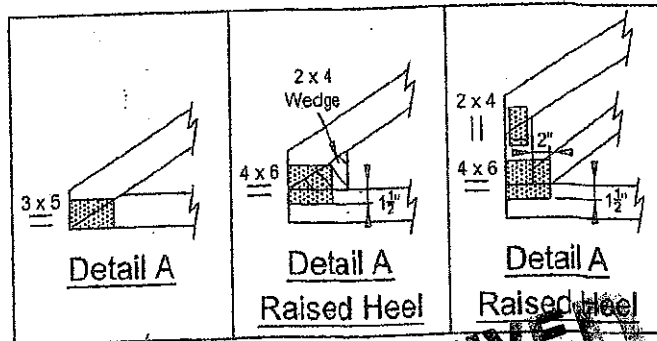
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

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