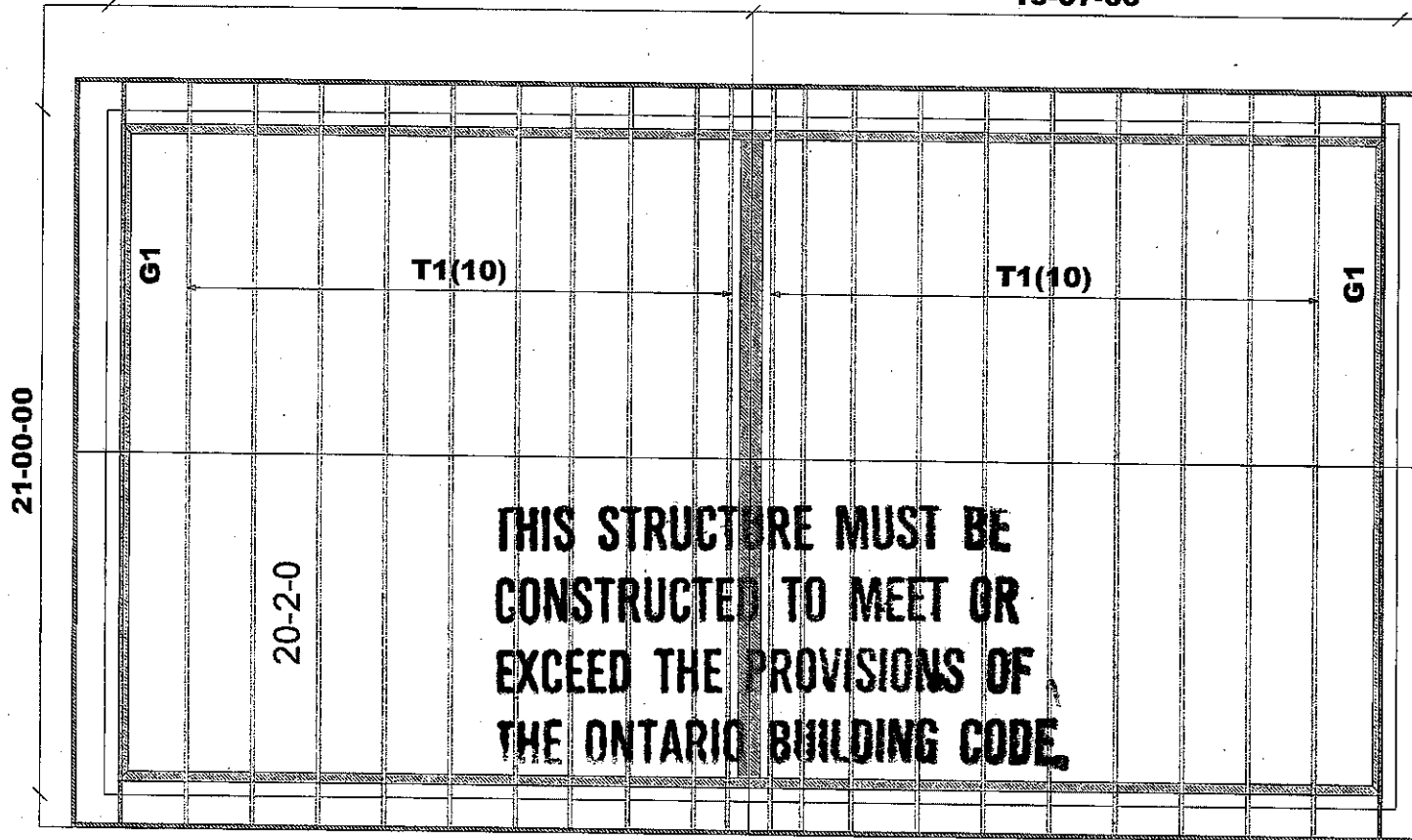


GALE 1B
TH 95-2 / 1
TH 96-3 / 1
401786
19-07-00

GALE 1B
TH 95-1 / 1
TH 96-2 / 1
401787
19-07-00

ASPHALT SHINGLES
12" FINISHED OH.
STD HEEL
2X4 EXTERIOR WALLS
2X6 FASCIA BOARD

DESIGN CONFORMS
WITH O.B.C. 2012 PART 9
DESIGN LOADS:
SNOW LOAD 29.02 PSF
TC DEAD 6 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF



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

8/12

ALL CONV. FRAMING 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
 UNDER NEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6"
 TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN
 ROWS OF BRACING DOES NOT EXCEED 6"

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TOWN OF CALEDON
BUILDING DEPT.

	Job Track: 50033	Builder / Location:		Model / Elevation:
	Plan Log: 200645	GREEN PARK HOMES / CALEDON		GALE 1B / 1
	Layout ID: 401785	Project: LAMBERT LANE PH.2		Block 96-5
Date: 3/8/2019		Sales: Mario DiCano	Designer: AC	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 8.2.3.229

GALE 1B
TH 95-4 / 4
TH 96-5 / 3
401789

GALE 1B
TH 95-3 / 5
TH 96-4 / 2
401790

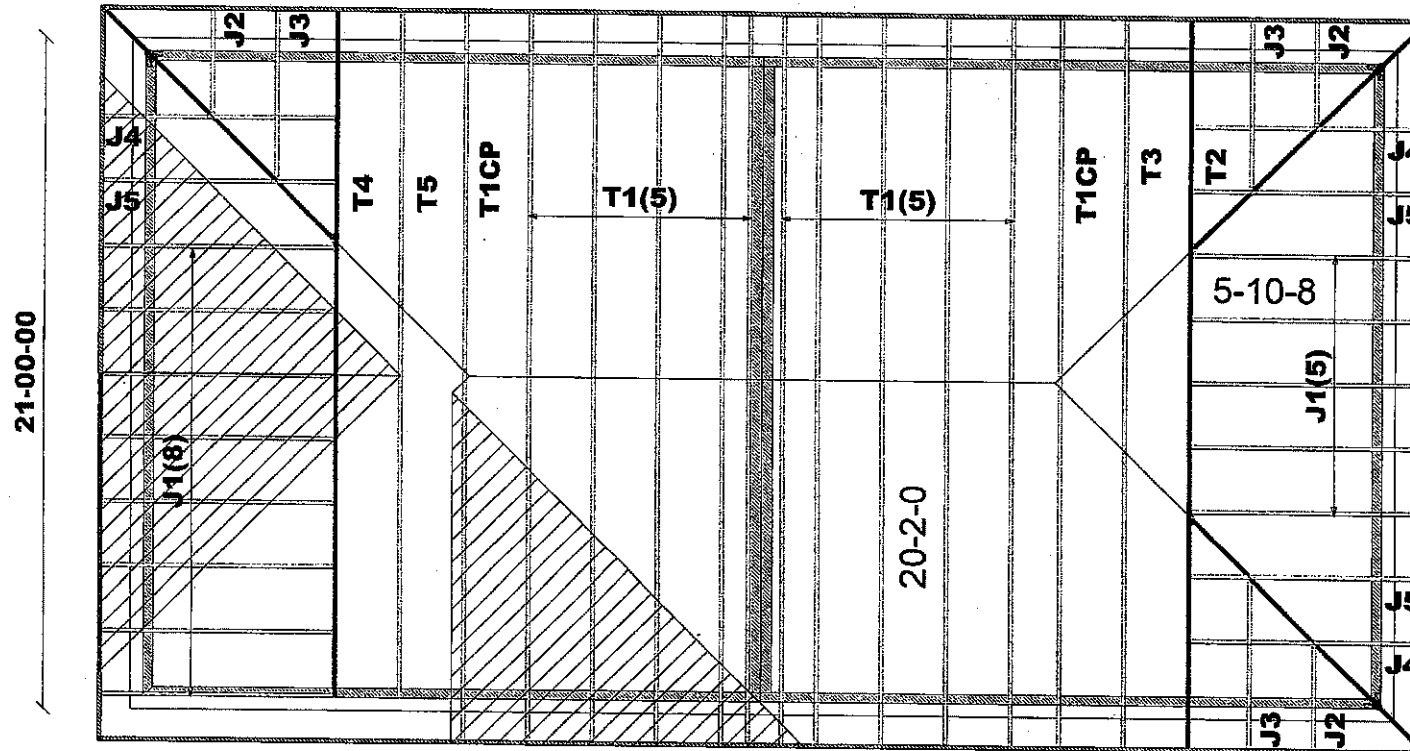
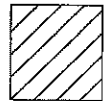
ASPHALT SHINGLES
12" FINISHED OH.
STD HEEL
2X4 EXTERIOR WALLS
2X6 FASCIA BOARD

19-07-00

19-07-00

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
DESIGN LOADS:
SNOW LOAD 29.02 PSF
TC DEAD 6 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF

DENOTES
CONV.
FRAMING



8/12

ALL CONV. FRAMING 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
UNDER NEATH 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"



Job Track: **50033**

Plan Log: **200646**

Layout ID: **401788**

Builder / Location:

GREEN PARK HOMES / CALEDON

Project: **LAMBERT LANE PH.2**

Date: **3/8/2019**

Sales: **Mario DiCano**

Designer: **AC**

Model / Elevation:

GALE 1B / 2, 3, 4, 5

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 8.2.3.229



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation: TH95-1 / 1

Job Track: 50033
 PlanLog: 200645
 Layout ID: 401786
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 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
	10	T1 Common	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	722.64 446.67		
	1	G1 GABLE	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	80.64 51.17		

TOTAL # TRUSS= 11

TOTAL BFT OF ALL TRUSSES= 497.84

BFT. TOTAL WEIGHT OF ALL TRSSES 803.28 LBS

RECEIVED
 AUG 15 2019

TOWN OF CALEDON
 BUILDING SECTION
 FILE NO

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation: TH95-2 / 1

Job Track: 50033
 PlanLog: 200645
 Layout ID: 401787
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 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
	10	T1 Common	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	722.64 446.67		
	1	G1 GABLE	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	80.64 51.17		

TOTAL # TRUSS= 11

TOTAL BFT OF ALL TRUSSES= 497.84

BFT. TOTAL WEIGHT OF ALL TRSSES 803.28 LBS



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation:

Job Track: 50033
 PlanLog: 200646
 Layout ID: 401789
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 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
	5	T1 Common	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	361.32 223.33		
	1	T1CP Hip	8 / 12	20-02-00	7-09-09	2 x 4	1-03-08 1-03-08	4-07 4-07	72.09 44.67		
	1	T4 Half Hip Girder	8 / 12	20-02-00	5-01-09	2 x 4	1-03-08	4-07 4-03-07	79.99 50.33		
	1	T5 Half Hip	8 / 12	20-02-00	6-05-09	2 x 4	1-03-08	4-07 5-07-07	79.94 51.17		
	8	J1 Jack-Open	8 / 12	5-10-08	5-01-09	2 x 4	1-03-08	4-07 4-03-07	133.94 80.00		
	1	J2 Jack-Open	8 / 12	1-10-15	2-05-13	2 x 4	1-03-08 1-01	4-07 1-07-12	6.89 4.67		
	1	J3 Jack-Open	8 / 12	2-00-00	3-09-13	2 x 4	1-03-08 1-10-15	4-07 1-08-07	9.63 6.00		
	1	J4 Jack-Open	8 / 12	1-10-15	2-05-13	2 x 4	1-03-08 3-11-09	4-07 1-07-12	11.31 7.33		
	1	J5 Jack-Open	8 / 12	3-10-15	3-09-13	2 x 4	1-03-08 1-11-09	4-07 2-11-12	14.05 8.67		

TOTAL # TRUSS= 20

TOTAL BFT OF ALL TRUSSES= 476.17

BFT. TOTAL WEIGHT OF ALL TRSSES 769.17 LBS

RECEIVED
 AUG 15 2019

TOWN OF CALEDON
 BUILDING SECTION
 FILE NO



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation:

Job Track: 50033
 PlanLog: 200646
 Layout ID: 401790
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 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
	5	T1 Common	8/12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	381.32 223.33		
	1	T1CP Hip	8/12	20-02-00	7-09-09	2 x 4	1-03-08 1-03-08	4-07 4-07	72.09 44.67		
	1	T2 Hip Girder	8/12	20-02-00	5-01-09	2 x 4	1-03-08 1-03-08	4-07 4-07	76.91 49.33		
	1	T3 Hip	8/12	20-02-00	6-05-09	2 x 4	1-03-08 1-03-08	4-07 4-07	74.43 47.83		
	5	J1 Jack-Open	8/12	5-10-08	5-01-09	2 x 4	1-03-08	4-07 4-03-07	83.71 50.00		
	2	J2 Jack-Open	8/12	1-10-15	2-05-13	2 x 4	1-03-08 1-01	4-07 1-07-12	13.78 9.33		
	2	J3 Jack-Open	8/12	2-00-00	3-09-13	2 x 4	1-03-08 1-10-15	4-07 1-08-07	19.27 12.00		
	2	J4 Jack-Open	8/12	1-10-15	2-05-13	2 x 4	1-03-08 3-11-09	4-07 1-07-12	22.62 14.67		
	2	J5 Jack-Open	8/12	3-10-15	3-09-13	2 x 4	1-03-08 1-11-09	4-07 2-11-12	28.1 17.33		

TOTAL # TRUSS= 21

TOTAL BFT OF ALL TRUSSES= 468.49

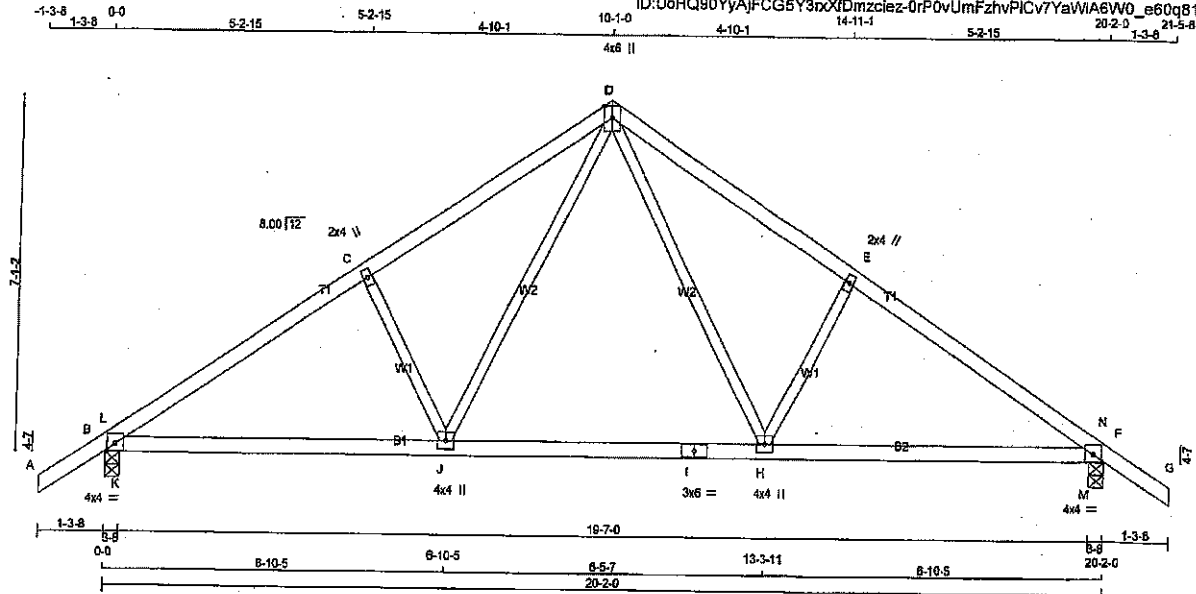
BFT. TOTAL WEIGHT OF ALL TRSSES 752.24 LBS

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T1	10	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:29:32 2019 Page 1

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Scale = 1/4\"/>

TOTAL WEIGHT = 10 X 72 = 720 lb

LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - D 2x4 DRY No.2

D - G 2x4 DRY No.2

B - I 2x4 DRY No.2

I - F 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

PLATES (Table in inches)

JT TYPE PLATES W LEN Y X

B TMB1-I MT20 4.0 4.0 1.75 2.00

C TMB1-w MT20 2.0 4.0

D TMB1-w MT20 4.0 6.0 Edge

E TMB1-w MT20 2.0 4.0

F TMB1-w MT20 4.0 4.0 1.75 2.00

H TMB1-w MT20 4.0 4.0

I TMB1-w MT20 3.0 6.0

J TMB1-w MT20 4.0 4.0

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT VERT	1356	1356	0	0
B	1356	1356	0	0
F	1356	1356	0	0

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED	952	685 / 0	0 / 0	0 / 0	287 / 0	0 / 0
B	952	685 / 0	0 / 0	0 / 0	287 / 0	0 / 0
F	952	685 / 0	0 / 0	0 / 0	287 / 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 = 4.80 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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	0 / 37	-102.1 -102.1	0.14 (1)	D-H	0 / 681
B-L	-1747 / 0	-102.1 -102.1	0.07 (1)	H-E	-508 / 0
L-C	-1686 / 0	-102.1 -102.1	0.34 (1)	J-D	0 / 681
C-D	-1458 / 0	-102.1 -102.1	0.33 (1)	C-J	-508 / 0
D-E	-1458 / 0	-102.1 -102.1	0.33 (1)	K-L	-117 / 132
E-N	-1686 / 0	-102.1 -102.1	0.34 (1)	M-N	-117 / 132
N-F	-1747 / 0	-102.1 -102.1	0.07 (1)		
F-G	0 / 37	-102.1 -102.1	0.14 (1)		
B-K	0 / 1409	-18.5 -18.5	0.29 (1)		
K-J	0 / 1409	-18.5 -18.5	0.35 (1)		
J-I	0 / 803	-18.5 -18.5	0.25 (1)		
I-H	0 / 803	-18.5 -18.5	0.25 (1)		
H-M	0 / 1409	-18.5 -18.5	0.35 (1)		
M-F	0 / 1409	-18.5 -18.5	0.29 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012
- CSA 086-08, CSA 086-14
- TFC 2011, 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) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.05")
ALLOWABLE DEFL. (TL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.12")

CSI: TC=0.34/1.00 (C-L-1), BC=0.35/1.00 (J-K-1), WB=0.15/1.00 (D-J-1), SS=0.20/1.00 (C-D-1)

DOL LUMBER=1.00 NAIL=1.00 LB 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

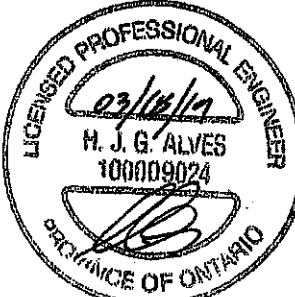
PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

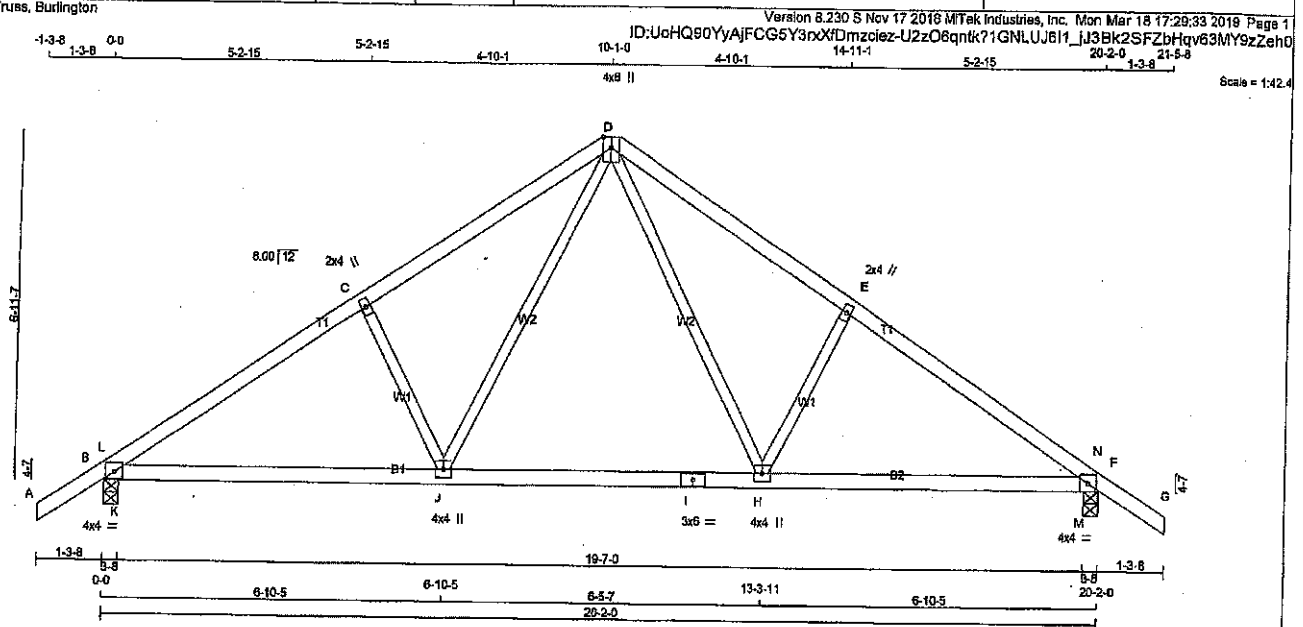
JSI GRIP= 0.80 (F) (INPUT = 0.90)

JSI METAL= 0.66 (B) (INPUT = 1.00)



DRWG NO. TAM 71905975
STRUCTURAL
COMPONENT ONLY

JOB NAME 401788	TRUSS NAME T1CP	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 2 X 72 = 144 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY No.2

D - G 2x4 DRY No.2

B - I 2x4 DRY No.2

I - F 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

LUMBER

DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

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	1356	1356	0	3-8
B	1356	1356	0	3-8
F	1356	1356	0	3-8

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT COMBINED	952	685 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
B	952	685 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
F	952	685 / 0	0 / 0	0 / 0	0 / 0	287 / 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 = 4.80 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. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
A-B	0 / 37	-102.1 -102.1	0.14 (1)	D-H	0 / 661
B-L	-1747 / 0	-102.1 -102.1	0.07 (1)	H-E	-508 / 0
L-C	-1688 / 0	-102.1 -102.1	0.34 (1)	J-D	0 / 661
C-D	-1458 / 0	-102.1 -102.1	0.33 (1)	C-J	-508 / 0
D-E	-1458 / 0	-102.1 -102.1	0.33 (1)	K-L	-117 / 132
E-N	-1688 / 0	-102.1 -102.1	0.34 (1)	M-N	-117 / 132
N-F	-1747 / 0	-102.1 -102.1	0.07 (1)		
F-G	0 / 37	-102.1 -102.1	0.14 (1)		
B-K	0 / 1409	-18.5 -18.5	0.29 (1)		
K-J	0 / 1409	-18.5 -18.5	0.35 (1)		
J-I	0 / 903	-18.5 -18.5	0.25 (1)		
I-H	0 / 903	-18.5 -18.5	0.25 (1)		
H-M	0 / 1409	-18.5 -18.5	0.35 (1)		
M-F	0 / 1409	-18.5 -18.5	0.29 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	29.0	PSF
LL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
LL	=	7.4	PSF
TOTAL LOAD	=	42.4	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2015, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65 % 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) = $L/360$ (0.87")
CALCULATED VERT. DEFL. (LL) = $L/899$ (0.05")
ALLOWABLE DEFL. (TL) = $L/360$ (0.87")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.12")

CSI: TC=0.34/1.00 (C-L-1), BC=0.35/1.00 (L-K-1), WB=0.15/1.00 (D-J-1), SS=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 (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1687 788

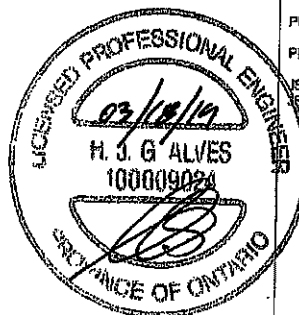
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP=0.80 (F) (INPUT = 0.90)
ISI METAL=0.68 (B) (INPUT = 1.00)

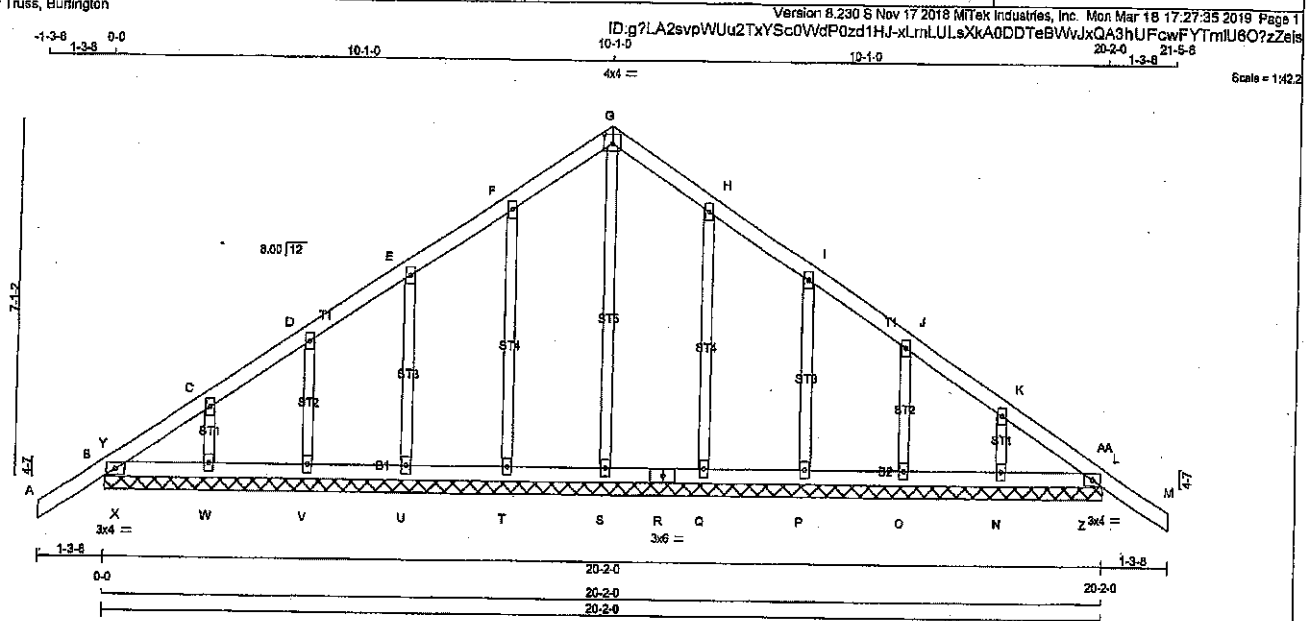
RECEIVED
AUG 15 2019

TOWN OF CALEDON
BUILDING SECTION



DRWG NO. TAM 17905476
STRUCTURAL
COMPONENT ONLY

JOB NAME 401785	TRUSS NAME G1	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						



TOTAL WEIGHT = 2 X 51 = 101 lb (M)

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	No.2
A - G	2x4	DRY	No.2
G - M	2x4	DRY	No.2
B - R	2x4	DRY	No.2
R - L	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 in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		
C, D, E, F, H, I, J, K					
C TMB1-w	MT20	2.0	4.0		
G TTB1-p	MT20	4.0	4.0	2.25	2.00
L TMB1-I	MT20	3.0	4.0		
N, O, P, Q, S, T, U, V, W					
N BMW1-w	MT20	2.0	4.0		
R BS-I	MT20	3.0	6.0		

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		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
A-B	0/37	-102.1	-102.1 0.14 (1)	S-G	-138/0
B-Y	-87/0	-102.1	-102.1 0.01 (4)	T-F	-232/0
Y-C	-48/0	-102.1	-102.1 0.05 (1)	U-E	-185/0
C-D	-47/0	-102.1	-102.1 0.05 (1)	V-D	-189/0
D-E	-39/0	-102.1	-102.1 0.05 (1)	W-C	-205/0
E-F	-31/0	-102.1	-102.1 0.06 (1)	Q-H	-232/0
F-G	-41/0	-102.1	-102.1 0.06 (1)	P-I	-196/0
G-H	-41/0	-102.1	-102.1 0.06 (1)	Q-J	-199/0
H-I	-31/0	-102.1	-102.1 0.05 (1)	N-K	-205/0
I-J	-39/0	-102.1	-102.1 0.05 (1)	X-Y	-88/2
J-K	-47/0	-102.1	-102.1 0.05 (1)	Z-AA	-88/2
K-AA	-48/0	-102.1	-102.1 0.05 (1)		
AA-L	-87/0	-102.1	-102.1 0.01 (4)		
L-M	0/37	-102.1	-102.1 0.14 (1)		
B-X	0/50	-18.5	-18.5 0.04 (1)		
X-W	0/50	-18.5	-18.5 0.04 (1)		
W-V	0/38	-18.5	-18.5 0.02 (1)		
V-U	0/32	-18.5	-18.5 0.02 (4)		
U-T	0/28	-18.5	-18.5 0.02 (4)		
T-S	0/25	-18.5	-18.5 0.02 (4)		
S-R	0/25	-18.5	-18.5 0.02 (4)		
R-Q	0/25	-18.5	-18.5 0.02 (4)		
Q-P	0/28	-18.5	-18.5 0.02 (4)		
P-O	0/32	-18.5	-18.5 0.02 (4)		
O-N	0/38	-18.5	-18.5 0.02 (1)		
N-Z	0/50	-18.5	-18.5 0.04 (1)		
Z-L	0/50	-18.5	-18.5 0.04 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	28.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	42.4	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012
- CSA 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

CSI: TC=0.14/1.00 (L-M:1), BC=0.04/1.00 (B-X:1), WB=0.12/1.00 (H-Q:1), SSI=0.09/1.00 (L-M: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

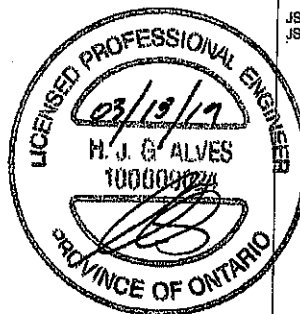
PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1657	788	1887	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.47 (3) (INPUT = 0.80)

JSI METAL= 0.12 (H) (INPUT = 1.00)



DRWG NO. TAM 1405473
STRUCTURAL
(COMPONENT ONLY)

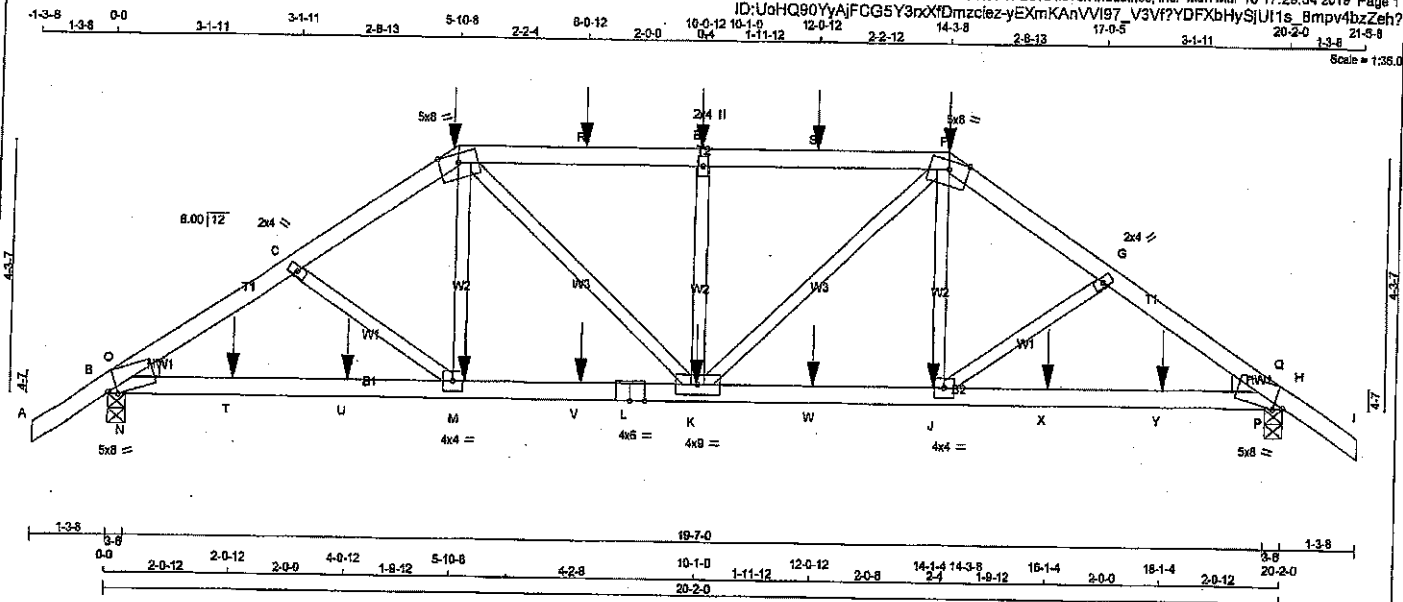
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T2	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:UoHQ90YyAIFCG5Y3nXfDmzciez-yEXmKANvV197_V3Vf?YDFXbHySjU1s_Bmpv4bzZeh?

Scale = 1:35.0



TOTAL WEIGHT = 77 lb

LUMBER

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-m	MT20	5.0	8.0	Edge	1.75
C E-G					
C TMMW-w	MT20	2.0	4.0		
D TTWW-m	MT20	5.0	8.0	Edge	
F TTWW-m	MT20	5.0	8.0	Edge	
H TMB1-m	MT20	5.0	8.0	Edge	1.75
J BMWW-w	MT20	4.0	4.0		
K BMWW-w	MT20	4.0	4.0		
L BS-1	MT20	4.0	4.0		
M BMWW-w	MT20	4.0	4.0		

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

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

FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UP/LIFT	HEEL
B 2375	0	3-8	3-8
H 2374	0	3-8	3-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT	REACTIONS
JT COMBINED	SNOW	LIVE	PERM. LIVE
B 1670	1151 / 0	0 / 0	0 / 0
H 1669	1151 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.02 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				
MAX. FACTORED		FACTORED			MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MEMB.	FORCE	MAX	MEMB.	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)		CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 37	-102.1	-102.1	0.15 (1)	10.00	C-M	-291 / 0	0.67 (1)	
B-C	-3807 / 0	-102.1	-102.1	0.19 (1)	3.45	M-D	0 / 443	0.11 (1)	
C-D	-3530 / 0	-102.1	-102.1	0.28 (1)	3.49	D-K	0 / 783	0.19 (1)	
D-E	-3270 / 0	-102.1	-102.1	0.27 (1)	3.62	K-E	-988 / 0	0.26 (1)	
E-F	-3287 / 0	-102.1	-102.1	0.69 (1)	3.02	K-F	0 / 785	0.19 (1)	
F-G	-3287 / 0	-102.1	-102.1	0.69 (1)	3.02	J-F	0 / 442	0.11 (1)	
G-H	-3287 / 0	-102.1	-102.1	0.89 (1)	3.02	J-G	-291 / 0	0.07 (1)	
H-I	-3287 / 0	-102.1	-102.1	0.69 (1)	3.02	N-G	0 / 308	0.00 (1)	
I-J	-3287 / 0	-102.1	-102.1	0.27 (1)	3.62	P-Q	0 / 308	0.00 (1)	
J-K	-3529 / 0	-102.1	-102.1	0.28 (1)	3.49				
K-L	-3529 / 0	-102.1	-102.1	0.15 (1)	3.45				
L-M	0 / 37	-102.1	-102.1	0.15 (1)	10.00				
M-N	0 / 2943	-18.5	-18.5	0.61 (1)	10.00				
N-T	0 / 2943	-18.5	-18.5	0.67 (1)	10.00				
T-U	0 / 2943	-18.5	-18.5	0.67 (1)	10.00				
U-M	0 / 2943	-18.5	-18.5	0.67 (1)	10.00				
M-V	0 / 2718	-18.5	-18.5	0.62 (1)	10.00				
V-L	0 / 2718	-18.5	-18.5	0.62 (1)	10.00				
L-K	0 / 2717	-18.5	-18.5	0.62 (1)	10.00				
K-W	0 / 2717	-18.5	-18.5	0.62 (1)	10.00				
W-J	0 / 2717	-18.5	-18.5	0.62 (1)	10.00				
J-X	0 / 2942	-18.5	-18.5	0.67 (1)	10.00				
X-Y	0 / 2942	-18.5	-18.5	0.67 (1)	10.00				
Y-P	0 / 2942	-18.5	-18.5	0.67 (1)	10.00				
P-H	0 / 2942	-18.5	-18.5	0.61 (1)	10.00				

02/15/14

H. J. G. ALVES

100009824

LICENSED PROFESSIONAL

PRINCE OF ORANGE

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
B	5-10-8	-483	-483	---	BACK	VERT	---	---
D	10-0-12	-160	-160	---	BACK	VERT	---	---
F	14-3-8	-483	-483	---	BACK	VERT	---	---
J	14-1-4	-74	-74	---	BACK	VERT	---	---
K	10-0-12	-74	-74	---	BACK	VERT	---	---
M	6-0-12	-74	-74	---	BACK	VERT	---	---
R	8-0-12	-160	-160	---	BACK	VERT	---	---
S	12-0-12	-160	-160	---	BACK	VERT	---	---
T	2-0-12	-67	-67	---	BACK	VERT	---	---
U	4-0-12	-44	-44	---	BACK	VERT	---	---
V	8-0-12	-74	-74	---	BACK	VERT	---	---

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. G/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.10")
ALLOWABLE DEFL. (TL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.19")

CS1: TC=0.69/1.00 (D-E-1), BC=0.67/1.00 (M-N-1), WB=0.28/1.00 (E-K-1), SG=0.32/1.00 (E-F-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 818 354 1697 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.76 (D) (INPUT = 0.90)
JSI METAL=0.63 (L) (INPUT = 1.00)

DWG NO. TAM 1905477
STRUCTURAL
TAM 1905477

CONTINUED ON PAGE 2

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AUG 15 2019

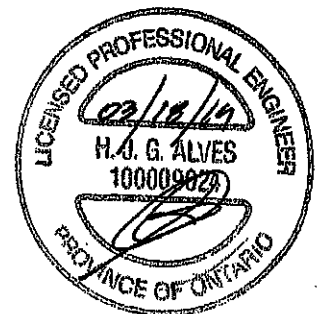
TOWN OF CALEDON
BUILDING SECTION
FILE NO

JOB NAME	TRUSS NAME	QUANTITY	FLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T2	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 M/Tek Industries, Inc. Mon Mar 18 17:29:35 2019 Page 2
ID:UoHQ90YyAIFCG5Y3rx4Dmzciez-QQ58XW07GcH_cfeID3Sok8Ris2i1U67MQYTc2zZeh

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	12-0-12	-74	-74	—	BACK	VERT	TOTAL	—	—
X	18-1-4	-44	-44	—	BACK	VERT	TOTAL	—	—
Y	18-1-4	-67	-67	—	BACK	VERT	TOTAL	—	—



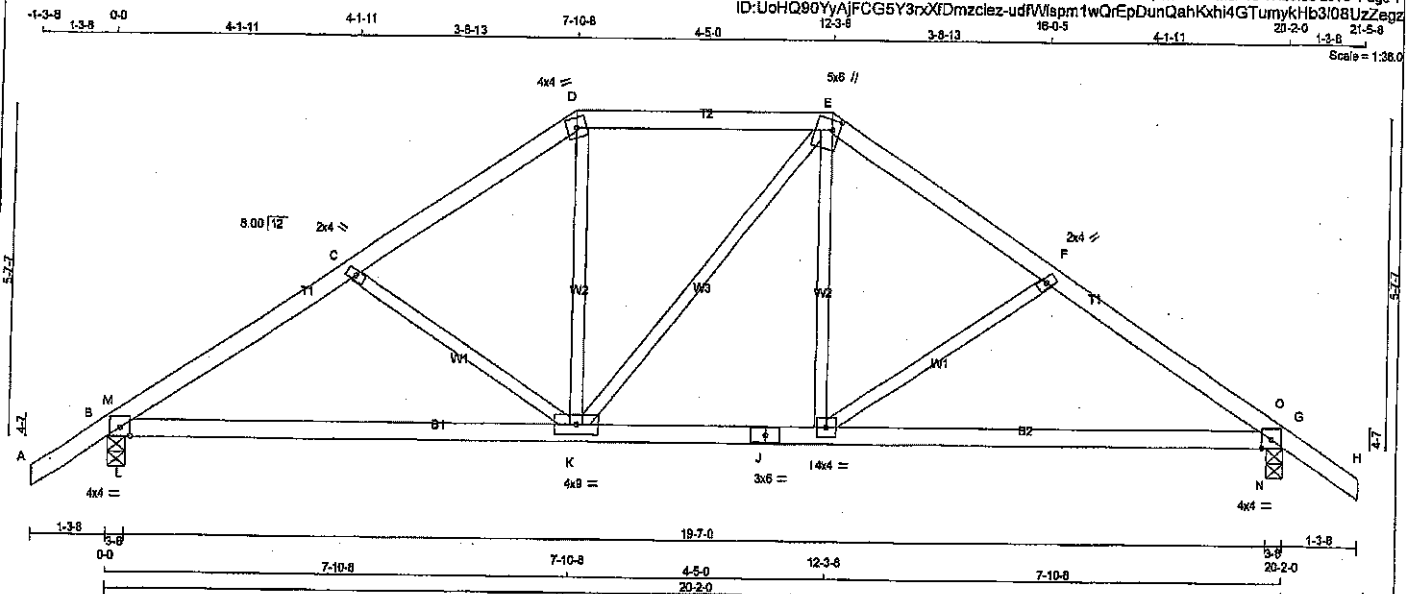
DWG NO. TAM 77905477
STRUCTURAL
COMPONENT ONLY 3/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T3	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:UoHQ90YyAJFCG5Y3nXfDmzclez-udfWlspn1wQrEpDunQahKxh4GTumykHb3i08UzZagz



Scale = 1:38.0

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	4.0	4.0	1.75	2.00
C	TMW+w	MT20	2.0	4.0		
D	TTW-m	MT20	4.0	4.0		
E	TTWW+m	MT20	5.0	6.0	2.00	1.50
F	TMW+w	MT20	2.0	4.0		
G	TMB1-I	MT20	4.0	4.0	1.75	2.00
I	BMWW-I	MT20	4.0	4.0		
J	BS-I	MT20	3.0	6.0		
K	BMWW-I	MT20	4.0	8.0		

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	DOWN	IN-SX	IN-SX
B	1356	0	0	3-8
G	1356	0	0	3-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
B	952	665 / 0	0 / 0	0 / 0	0 / 0	287 / 0
G	952	665 / 0	0 / 0	0 / 0	0 / 0	287 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.82 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 (PL)	FACTORED HORZ. LOAD (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (LC)
FR-TO						FR-TO				
A-B	0 / 37	-102.1	-102.1	0.14 (1)	10.00	C-K	-432 / 0	0.17 (1)		
B-M	-1931 / 0	-102.1	-102.1	0.12 (4)	4.83	K-D	0 / 366	0.08 (1)		
M-C	-1727 / 0	-102.1	-102.1	0.22 (1)	4.87	K-E	0 / 0	0.00 (1)		
C-D	-1356 / 0	-102.1	-102.1	0.20 (1)	5.37	I-E	0 / 365	0.08 (1)		
D-E	-1113 / 0	-102.1	-102.1	0.27 (1)	5.69	I-F	-433 / 0	0.17 (1)		
E-F	-1356 / 0	-102.1	-102.1	0.20 (1)	5.37	L-M	0 / 280	0.00 (1)		
F-O	-1726 / 0	-102.1	-102.1	0.22 (1)	4.87	N-O	0 / 282	0.00 (1)		
O-G	-1833 / 0	-102.1	-102.1	0.12 (4)	4.82					
G-H	0 / 37	-102.1	-102.1	0.14 (1)	10.00					
B-L	0 / 1459	-18.5	-18.5	0.28 (1)	10.00					
L-K	0 / 1459	-18.5	-18.5	0.38 (1)	10.00					
K-J	0 / 1112	-18.5	-18.5	0.28 (1)	10.00					
J-I	0 / 1112	-18.5	-18.5	0.28 (1)	10.00					
I-N	0 / 1459	-18.5	-18.5	0.38 (1)	10.00					
N-G	0 / 1459	-18.5	-18.5	0.28 (1)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(85 % 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 (0.67")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.27/1.00 (D-E-1), BC=0.36/1.00 (I-N-1), WB=0.17/1.00 (F-I-1), CSI=0.25/1.00 (G-N-4)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

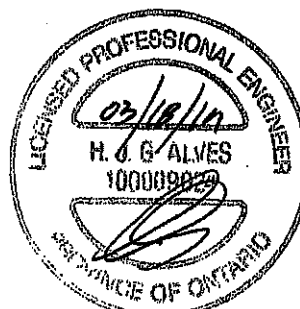
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.80 (B) (INPUT = 0.90)
JSI METAL=0.69 (B) (INPUT = 1.00)

DRWG NO. TAM 71905478
STRUCTURAL
COMPONENT (1) OF 1

RECEIVED
AUG 15 2019

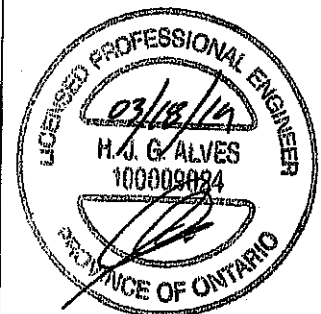
TOWN OF CALLEDON
BUILDING SECTION



JOB NAME 401788	TRUSS NAME T4	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. Mon Mar 18 17:28:38 2019 Page 2
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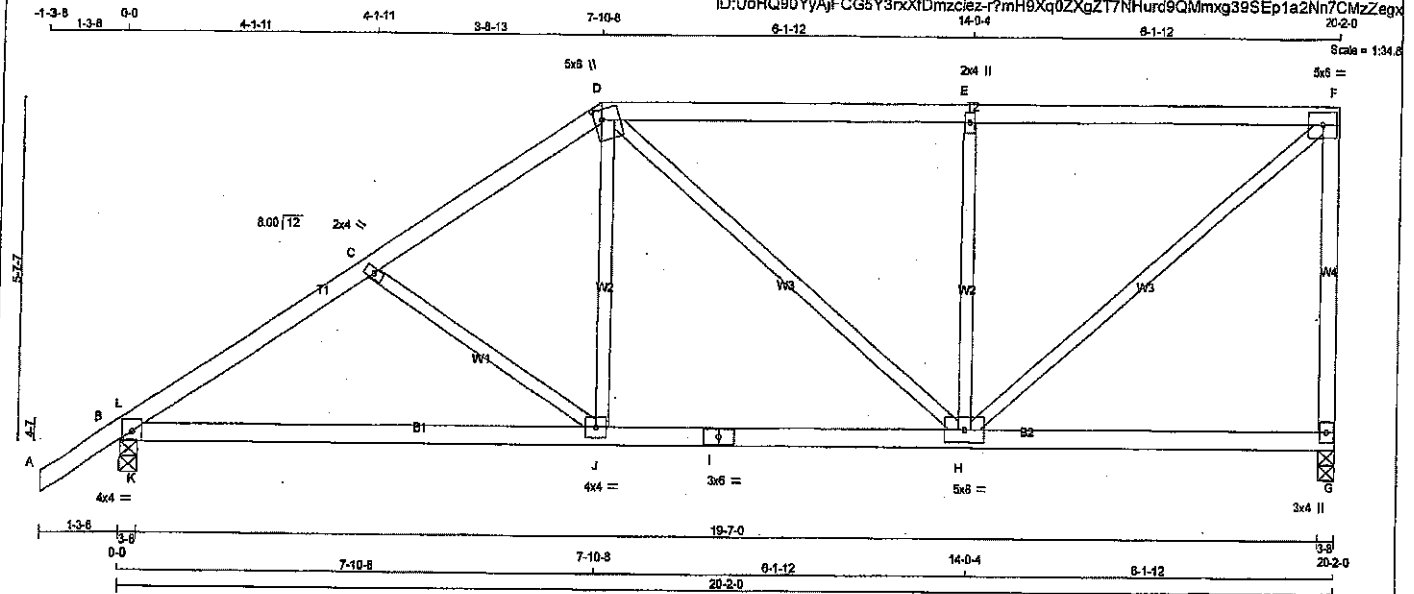
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
U	2-0-12	-67	-67	—	FRONT	VERT	TOTAL	—	—
V	4-0-12	-44	-44	—	FRONT	VERT	TOTAL	—	—
W	8-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
X	12-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
Y	14-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
Z	16-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
AA	18-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—



DWG NO. TAM 7705479
STRUCTURAL
COMPONENT 3/2

JOB NAME 401788	TRUSS NAME T5	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:UoHQ90YyAjFCG5Y3nxXfDmzcIez-r?mh9Xq0ZxGT7NHurd9QMmxg39SEp1a2Nn7CMzZegx



TOTAL WEIGHT = 80 lb

LUMBER

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	4.0	4.0	1.75	2.00
C	TMWw	MT20	2.0	4.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMWw	MT20	2.0	4.0		
F	TMWw	MT20	5.0	6.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMWVW	MT20	5.0	8.0		
I	BS-I	MT20	3.0	6.0		
J	BMWVW	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	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
G	1216	0	1216	0
B	1356	0	1356	0

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
G	856	586 / 0	0 / 0	0 / 0	270 / 0
B	952	685 / 0	0 / 0	0 / 0	287 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 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
FR-TO	(LBS)	FROM TO	FR-TO	(LBS)
A-B	0 / 37	-102.1 -102.1	C-J	-431 / 0
B-L	-1924 / 0	-102.1 -102.1	J-D	0 / 389
L-C	-1729 / 0	-102.1 -102.1	D-H	-52 / 0
C-D	-1359 / 0	-102.1 -102.1	H-E	-777 / 0
D-E	-1078 / 0	-102.1 -102.1	E-F	0 / 1421
E-F	-1078 / 0	-102.1 -102.1	F-G	0 / 265
G-F	-1187 / 0	0.0 0.0		
B-K	0 / 1460	-18.5 -18.5		
K-J	0 / 1460	-18.5 -18.5		
J-I	0 / 1116	-18.5 -18.5		
I-H	0 / 1116	-18.5 -18.5		
H-G	0 / 0	-18.5 -18.5		

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL =	28.0	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	42.4	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = L/899 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/899 (0.13")

CSI: TC=0.71/1.00 (E-F:1), BC=0.35/1.00 (J-K:1),
WB=0.37/1.00 (E-H:1), SSI=0.31/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

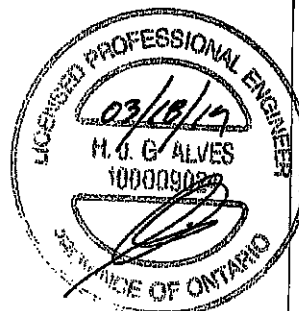
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1687

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.80 (B) (INPUT = 0.90)
SI METAL= 0.89 (B) (INPUT = 1.00)



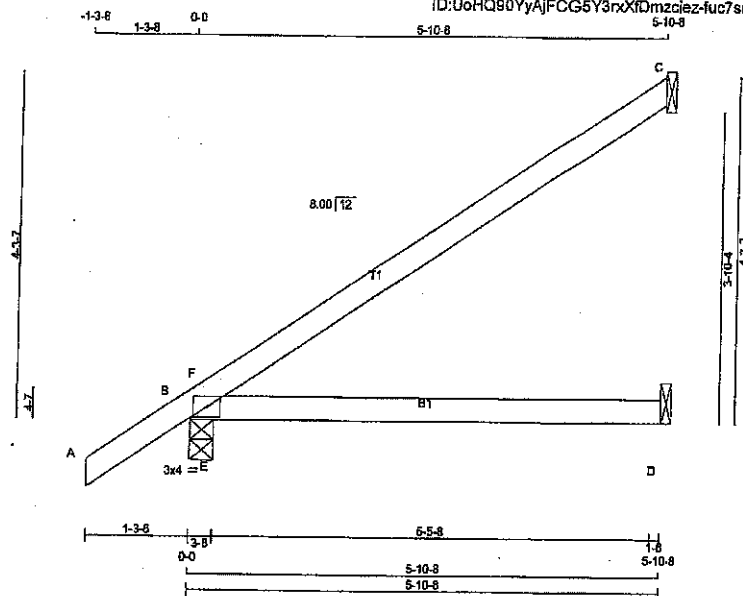
DRWG NO. TAM 1705480
STRUCTURAL
COMPONENT CHIT 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	J1	13	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:25.3



TOTAL WEIGHT = 13 X 17 = 218 lb

LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
C	262	0	262	0
B	494	0	494	0
D	92	0	92	0

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	180	145 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
B	345	250 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0
D	69	26 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC)	MAX. VERT. LOAD (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 37	-102.1	-102.1	0.14 (1)	10.00	E-F	-738 / 3
B-F	-32 / 284	-102.1	-102.1	0.21 (1)	8.25		
F-C	-13 / 2	-102.1	-102.1	0.46 (1)	6.25		
B-E	0 / 0	-18.5	-18.5	0.31 (1)	10.00		
E-D	0 / 0	-18.5	-18.5	0.31 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.0 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD = 42.4 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 % CF 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) = $L/910$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/453$ (0.16")

CSI: TC=0.46/1.00 (C-F:1), BC=0.31/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SG=0.59/1.00 (B-E:1)

DOL LUMBER=1.00 NAIL=1.00 LB 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.

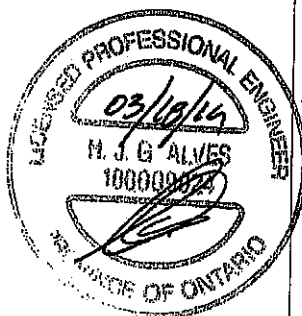
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1987 1665

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)

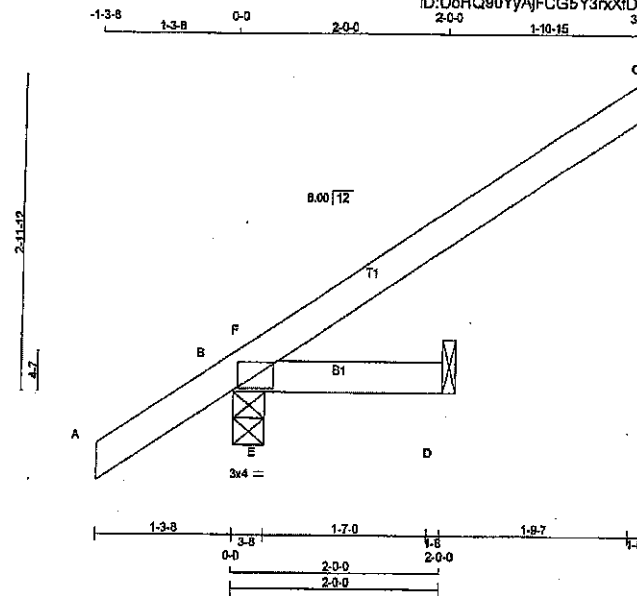


DRWG NO. TAM 71905481
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	J3	3	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

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Scale = 1:20.1



RECEIVED
MAY 15 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.

TOTAL WEIGHT = 3 X 10 = 29 lb

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

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
C	159	0	159	0	1-8	1-8
B	319	0	319	0	3-8	3-8
D	99	0	99	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					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	109	80/0	0/0	0/0	0/0	19/0	0/0
B	221	170/0	0/0	0/0	0/0	51/0	0/0
D	70	47/0	0/0	0/0	0/0	23/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MAX	MEMB. FORCE (LBS)	MAX	CSI (LC)
FR-TO								
A-B	0/37	-102.1	-102.1	0.14 (1)	10.00	FR-TO		
B-F	0/194	-102.1	-102.1	0.16 (1)	10.00	E-F	-528/0	0.00 (1)
F-C	-14/0	-102.1	-102.1	0.17 (1)	6.25			
B-E	0/0	-18.5	-18.5	0.19 (1)	10.00			
E-D	0/0	-18.5	-18.5	0.19 (1)	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	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 42.4 PSF

SPACING = 24.0 IN/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 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.18")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.01")
ALLOWABLE DEFL. (TL) = $L/360$ (0.18")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.01")

CSI: TC=0.17/1.00 (C-F:1), BC=0.19/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SS=0.38/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

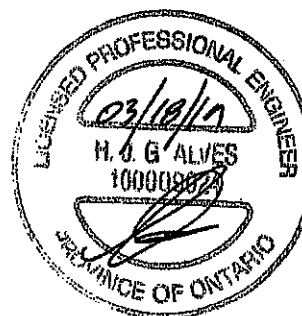
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
MT20	618	354
	1687	788
	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

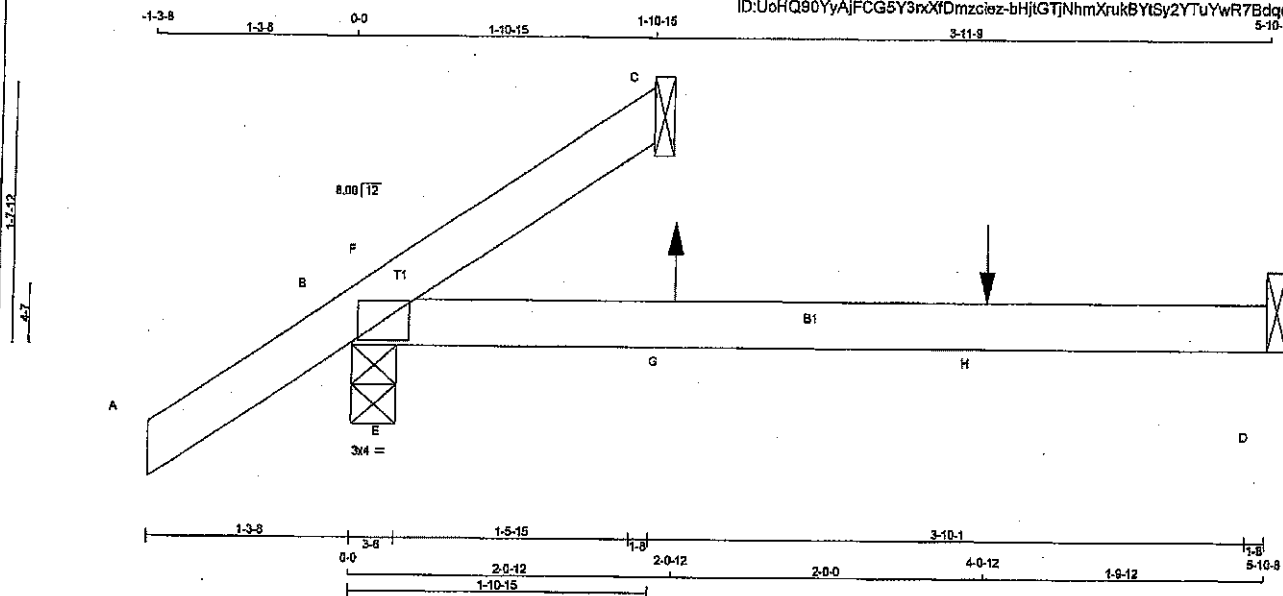


DWG NO. 1AM 77105483
STRUCTURAL
COMPONENT (M1)

JOB NAME 401788	TRUSS NAME J4	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. Mon Mar 16 17:28:28 2018 Page 1	

ID:UoHQ90YyAJFCG5Y3nXfDmzciez-bHjtGTJNmXrukBYtSy2YTUyWwR7Bdqf_U58POzZeh4

Scale = 1:13.4



TOTAL WEIGHT = 3 X 11 = 34 lb

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

DRY, SEASONED LUMBER.

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

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

JT	FACTORED		MAXIMUM FACTORED		INPUT	REQ'D
	GROSS REACTION	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX
C	112	0	112	0	0	1-8
B	318	0	318	0	0	3-8
D	86	0	86	0	0	1-8

SEE MITEK STANDARD DETAIL S37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
C	81	44 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
B	222	163 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0
D	84	25 / -4	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0

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

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: (7)

MEMB.	CHORDS		FACTORED		MAX.	MEMB.	WEBS		MAX.
	FORCE	VERT. LOAD	LC1	MAX			FORCE	MAX	
FR-TO									
A-B	0 / 37	-102.1	-102.1	0.14 (1)	10.00	E-F	0 / 403	0.00 (1)	
B-F	-301 / 0	-102.1	-102.1	0.13 (1)	6.25				
F-C	-1 / 21	-102.1	-102.1	0.13 (4)	10.00				
B-E	0 / 0	-18.5	-18.5	0.13 (1)	10.00				
E-G	0 / 0	-18.5	-18.5	0.17 (1)	10.00				
G-H	0 / 0	-18.5	-18.5	0.17 (1)	10.00				
H-D	0 / 0	-18.5	-18.5	0.17 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	9	1	23	BACK	VERT	TOTAL	-	-
H	4-0-12	-80	-80	-	BACK	VERT	TOTAL	-	-

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 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 BCRC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/898$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/959$ (0.03")

CSI: TC=0.14/1.00 (A-B:1), BC=0.17/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.20/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

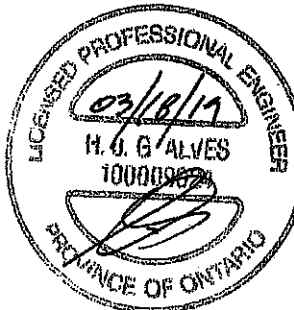
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
MT20	618	354
	1867	788
	1867	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

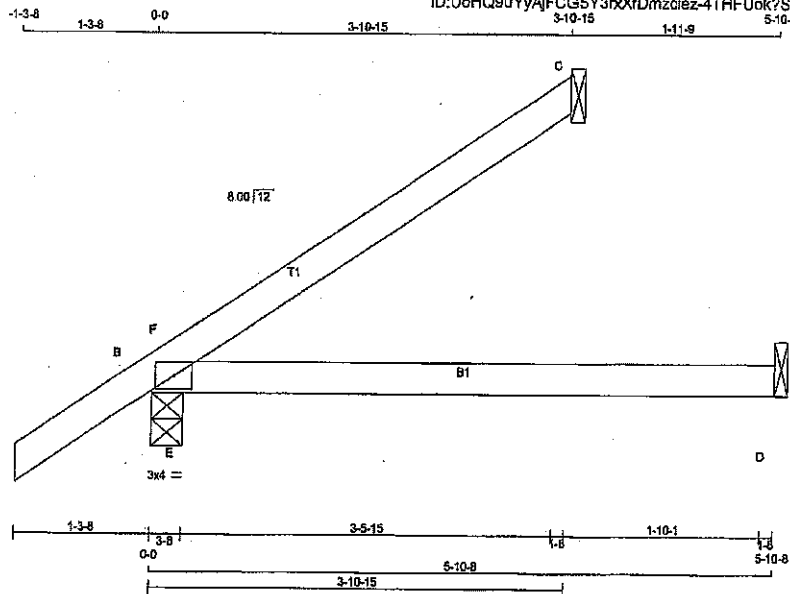


DRWG NO. 1474 **T905484**
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	J5	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:UoHQ80YyAFCG5Y3nXfDmzolez-4THFUok?S4fhWulkQ9TH5hR7rTnMhSOD8rxqzZeh3



Scale = 1:19.8

TOTAL WEIGHT = 3 X 14 = 42 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

B - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

B TMB1-I MT20 3.0 4.0

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	UP
C	188	0	188	0
B	390	0	390	0
D	62	0	62	0

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

UNFACTORED REACTIONS

	1ST CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
C	130	99 / 0	0 / 0	0 / 0	0 / 0	0 / 0
B	279	198 / 0	0 / 0	0 / 0	0 / 0	0 / 0
D	48	9 / 0	0 / 0	0 / 0	0 / 0	0 / 0

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

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
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	0 / 137	0 / 137
A-B	-98 / 0	-102.1 / -102.1
B-F	0 / 7	-102.1 / -102.1
F-C	0 / 0	-102.1 / -102.1
B-E	0 / 0	-18.5 / -18.5
E-D	0 / 0	-18.5 / -18.5

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 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, NBCC 2015
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/989 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/620 (0.08")

CSI: TC=0.23/1.00 (C-F:1), BC=0.15/1.00 (D-E:4), WB=0.00/1.00 (E-F:1), SSI=0.18/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

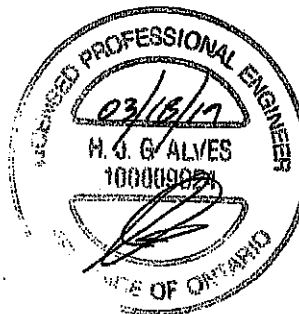
NAIL VALUES

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

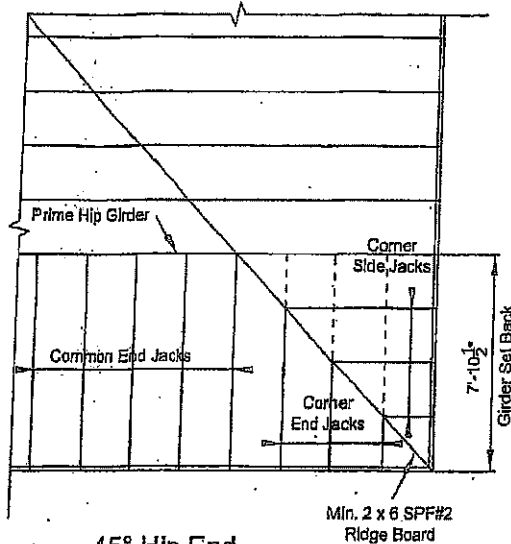
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



DRWG NO. 11907485
STRUCTURAL
COMPONENT ONLY



45° Hip End

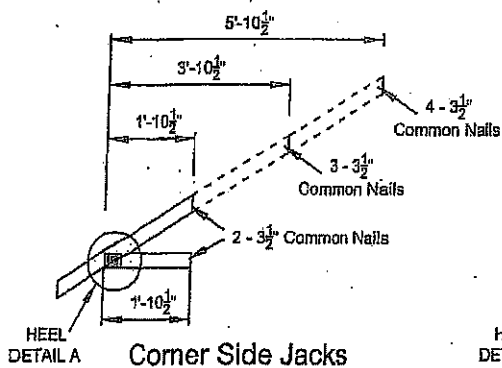
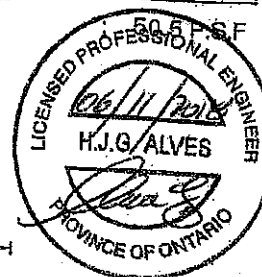
LUMBER SPECIFICATION

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

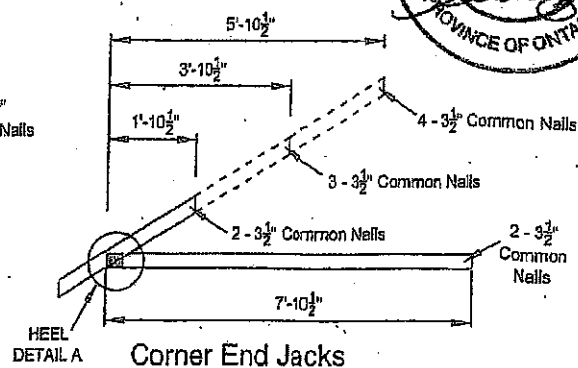
DESIGN LOAD

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.

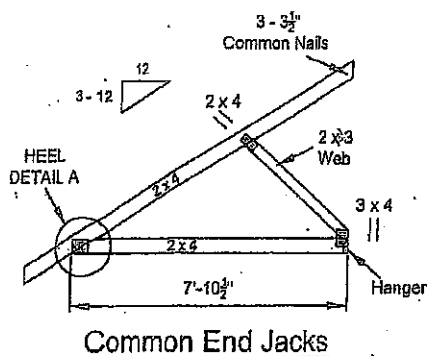
TOTAL LOAD



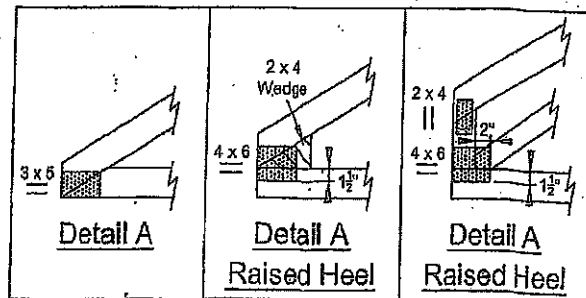
Corner Side Jacks



Corner End Jacks



Common End Jacks



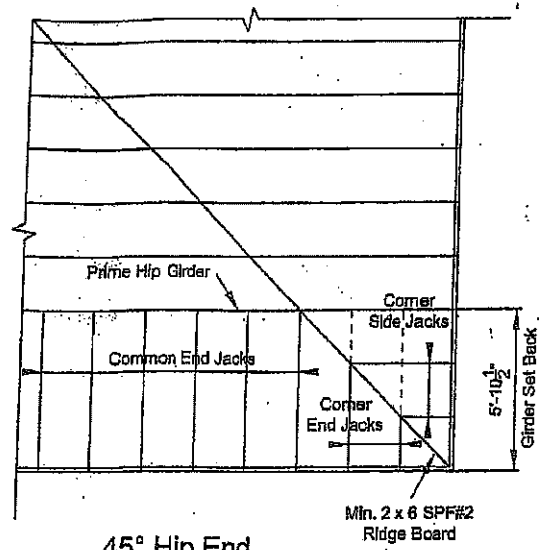
NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800217

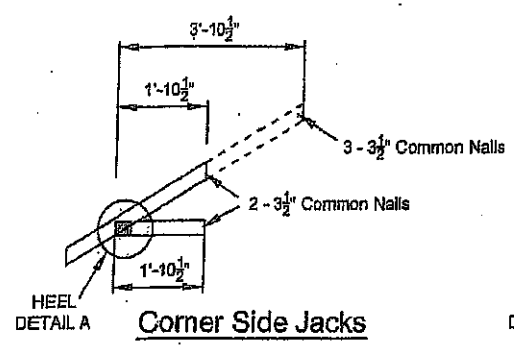
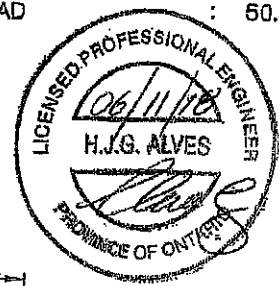
RECEIVED
AUG 15 2019

TOWN OF CALEDON
LUMBER SPECIFICATION
FILE NO. SECTION
TOP CHORD : 2 x 4 SPF#2
BOTTOM CHORD : 2 x 4 SPF#2
WEBS : 2 x 3 SPF#2
UNLESS OTHERWISE SHOWN

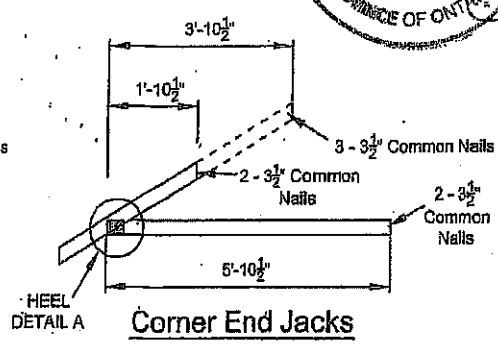
DESIGN LOAD
TOP CHORD SNOW LOAD : 40.5 P.S.F.
TOP CHORD DEAD LOAD : 3.0 P.S.F.
BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.
TOTAL LOAD : 50.5 P.S.F.



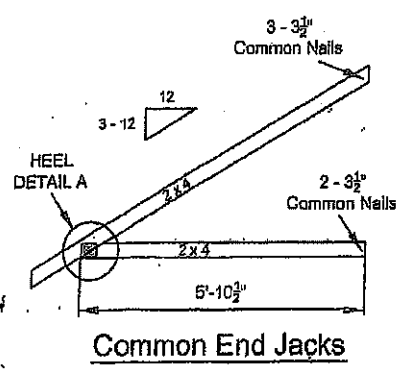
45° Hip End



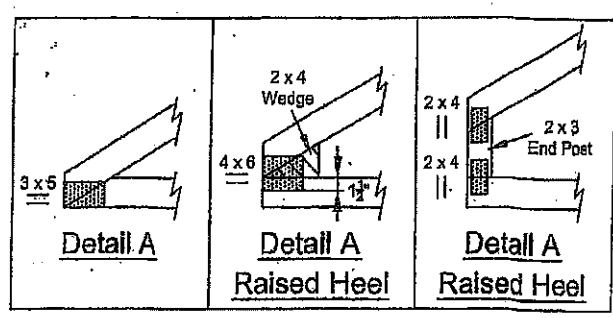
Corner Side Jacks



Corner End Jacks



Common End Jacks



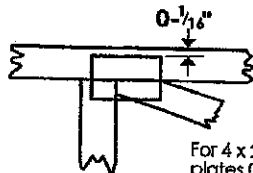
NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800216

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 0-1/8" from outside edge of truss.



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING



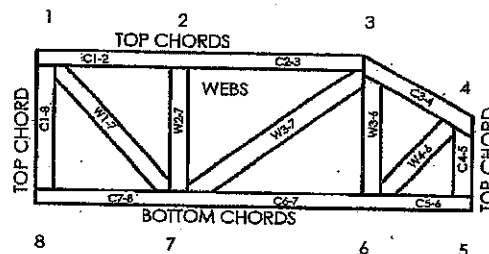
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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

Numbering System

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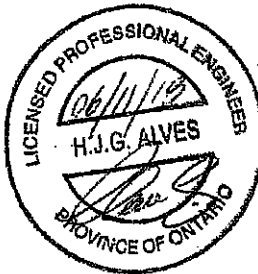
Mitek Engineering Reference Sheet: MII-7473C rev. 10-08



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



Alves Engineering Services Inc.

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

RESPONSABILITIES

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

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

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

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

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

SPECIFICATIONS

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

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

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

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

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

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

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

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

T-1900218

Feb 09, 2018