

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

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"

TOWN OF CALEDON
 BUILDING SECTION
 FILE NO.

RECEIVED
 AUG 15 2019

21-00-00

20-2-0

T1(10)

T1(10)

G1

G1

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

8/12



Job Track: **50033**
 Plan Log: **200645**
 Layout ID: **401785**

Builder / Location:

GREEN PARK HOMES / CALEDON

Project: **LAMBERT LANE PH.2**

Date: 3/8/2019 Sales: Mario DiCano Designer: AC

Model / Elevation:

GALE 1B / 1 Block 96-2

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

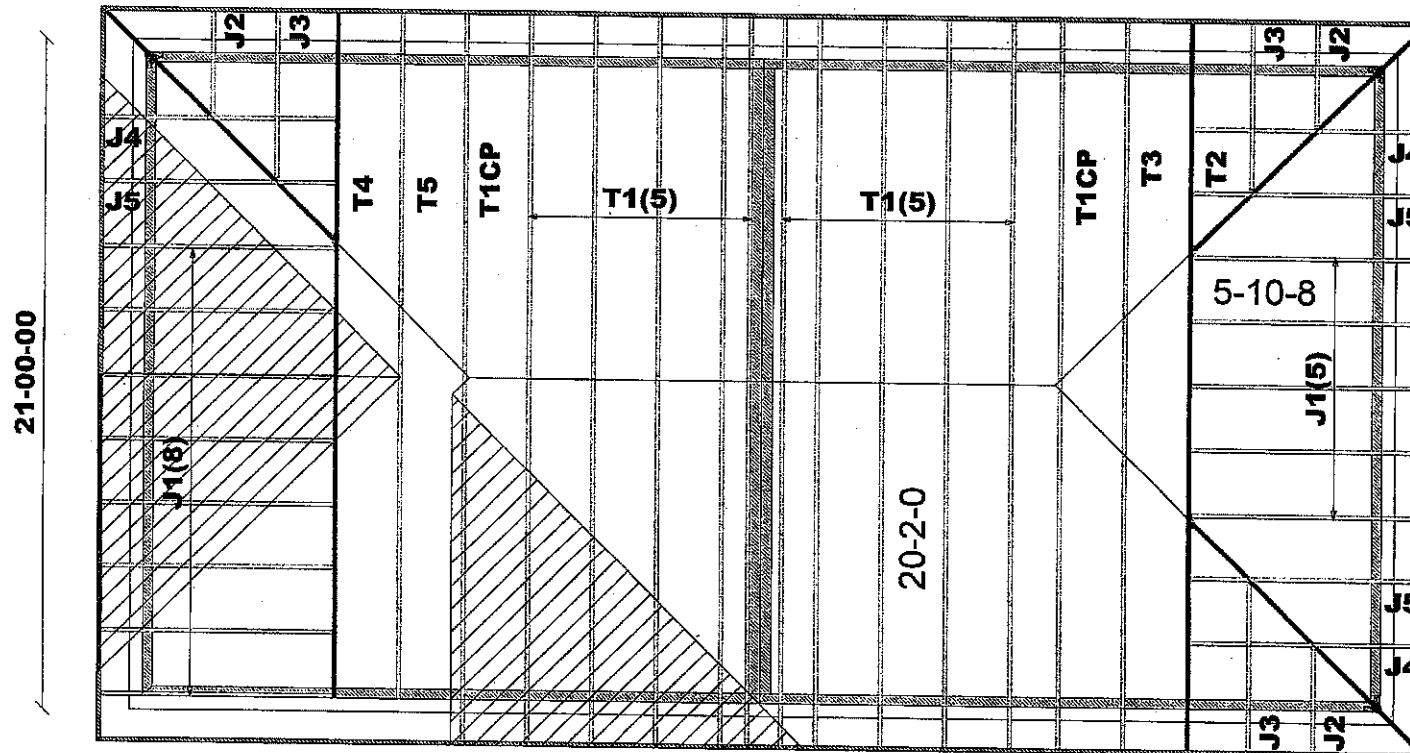
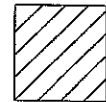
ASPHALT SHINGLES
12" FINISHED OH.
STD HEEL
2X4 EXTERIOR WALLS
2X6 FASCIA BOARD

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



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

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: 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	9.83 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



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	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	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.		

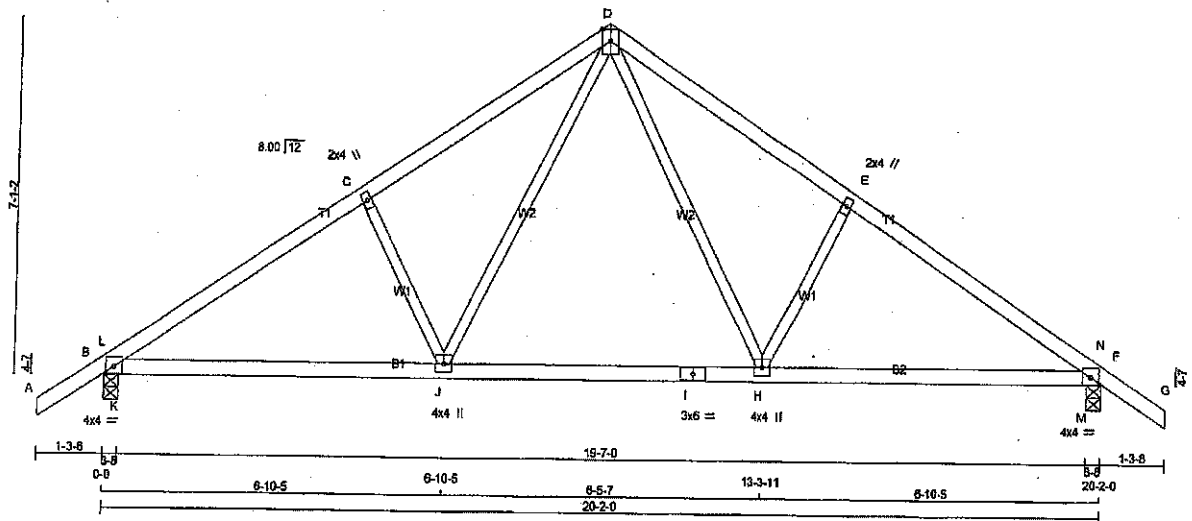
Tamarack Roof Truss, Burlington

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

ID:UoHQ90YyAJFCG5Y3nXfDmzc1ez-OrP0vUmFzhvPICv7YaWIA6WV0_e60q81hgSKa0JzZeh1

-1-3-5 0-0 5-2-15 5-2-15 4-10-1 10-1-0 4-10-1 14-11-1 5-2-15 20-2-0 21-5-8 1-3-8

Scale = 1:42.2



TOTAL WEIGHT = 10 X 72 = 723 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

B - G 2x4 DRY

C - I 2x4 DRY

I - F 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

FACTORED MAXIMUM FACTORED INPUT REQD

GROSS REACTION GROSS REACTION BRG BRG

JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX

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

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

UNFACTORED REACTIONS

1ST CASE MAX/MIN COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM LIVE WIND DEAD SOIL

B 952 665 / 0 0 / 0 0 / 0 287 / 0 0 / 0

F 952 665 / 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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 37	-102.1 -102.1	0.14 (1)	10.00	D-H	0 / 661	0.15 (1)
B-L	-1747 / 0	-102.1 -102.1	0.07 (1)	5.00	H-E	-508 / 0	0.13 (1)
L-C	-1686 / 0	-102.1 -102.1	0.34 (1)	4.80	J-D	0 / 661	0.15 (1)
C-D	-1458 / 0	-102.1 -102.1	0.33 (1)	5.07	C-J	-508 / 0	0.13 (1)
D-E	-1458 / 0	-102.1 -102.1	0.33 (1)	5.07	K-L	-117 / 132	0.00 (1)
E-N	-1666 / 0	-102.1 -102.1	0.34 (1)	4.80	M-N	-117 / 132	0.00 (1)
N-F	-1747 / 0	-102.1 -102.1	0.07 (1)	5.00			
F-G	0 / 37	-102.1 -102.1	0.14 (1)	10.00			
B-K	0 / 1409	-18.5 -18.5	0.29 (1)	10.00			
K-J	0 / 1409	-18.5 -18.5	0.35 (1)	10.00			
J-I	0 / 903	-18.5 -18.5	0.25 (1)	10.00			
I-H	0 / 903	-18.5 -18.5	0.25 (1)	10.00			
H-M	0 / 1409	-18.5 -18.5	0.35 (1)	10.00			
M-F	0 / 1409	-18.5 -18.5	0.29 (1)	10.00			

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

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 8.4 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/989 (0.05")

ALLOWABLE DEFL. (TL) = L/360 (0.67")

CALCULATED VERT. DEFL. (TL) = L/989 (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), 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 SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

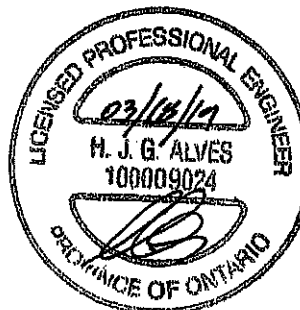
MT20 616 354 1667 788 1987 1556

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)

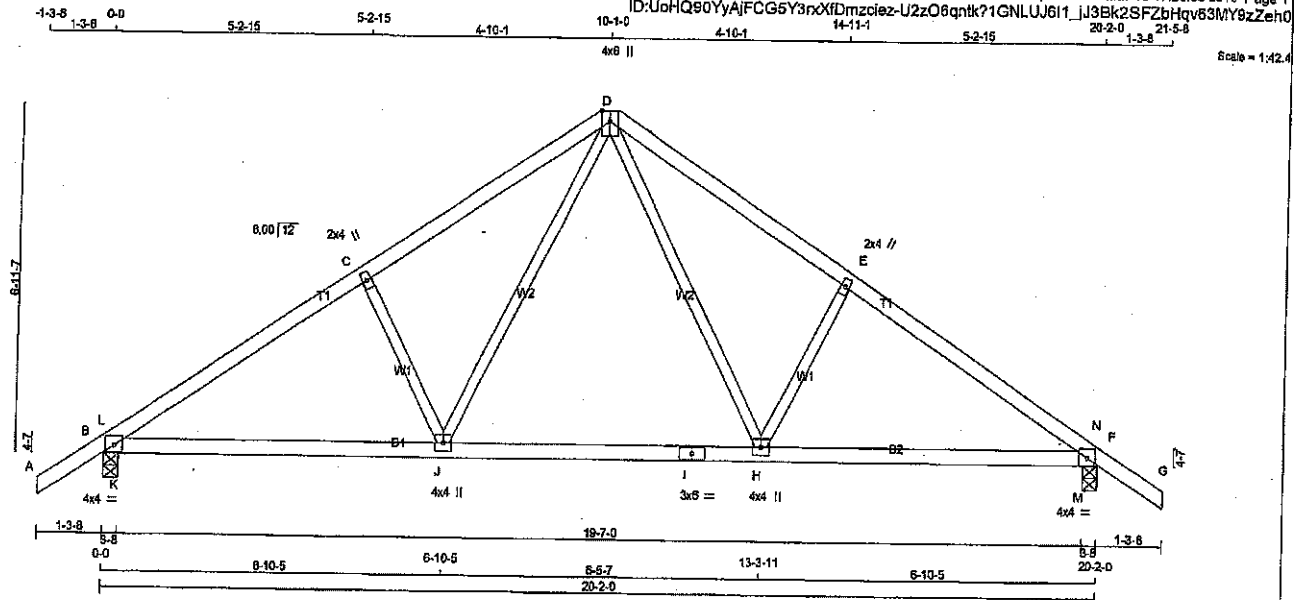


DWG NO. TAM 7905975
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T1CP	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:29:33 2019 Page 1
ID:UoHQ90YyAFCG5Y3rx0fDmz0ez-U2zO6qntk71GNLUJ611_J3Bk2SFZbHqv63MY9zZeh0



TOTAL WEIGHT = 2 X 72 = 144 lb

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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	4.0	4.0	1.75	2.00
C	TMW+u	MT20	2.0	4.0		
D	TTWW+p	MT20	4.0	6.0	Edge	
E	TMW+u	MT20	2.0	4.0		
F	TMB1-I	MT20	4.0	4.0	1.75	2.00
H	BMWW+u	MT20	4.0	4.0		
I	BS-I	MT20	3.0	6.0		
J	BMWW+u	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	1356	0	1356	0	3-8	3-8
F	1356	0	1356	0	3-8	3-8

UNFACTORED REACTIONS

1ST LOASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	952	665 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
F	952	665 / 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)

MEMB.	CHORDS		FACTORED		MEMB.	WEBS	
	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. (PLF)	MAX. (LC)		MAX. FORCE (LBS)	MAX. (LC)
FR-TO					FR-TO		
A-B	0 / 37	-102.1	-102.1	0.14 (1)	D-H	0 / 861	0.15 (1)
B-L	-1747 / 0	-102.1	-102.1	0.07 (1)	H-E	-508 / 0	0.13 (1)
L-C	-1686 / 0	-102.1	-102.1	0.34 (1)	J-D	0 / 861	0.15 (1)
C-D	-1458 / 0	-102.1	-102.1	0.33 (1)	C-J	-508 / 0	0.13 (1)
D-E	-1458 / 0	-102.1	-102.1	0.33 (1)	K-L	-117 / 132	0.00 (1)
E-N	-1686 / 0	-102.1	-102.1	0.34 (1)	M-N	-117 / 132	0.00 (1)
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	0.28 (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 = 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

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 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 (0.67")
CALCULATED VERT. DEFL.(LL) = L/889 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/959 (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 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) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1997 1658

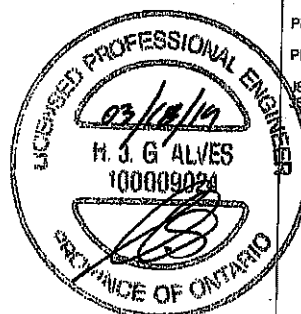
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP=0.80 (F) (INPUT = 0.80)
ISI METAL=0.88 (S) (INPUT = 1.00)

RECEIVED
AUG 15 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



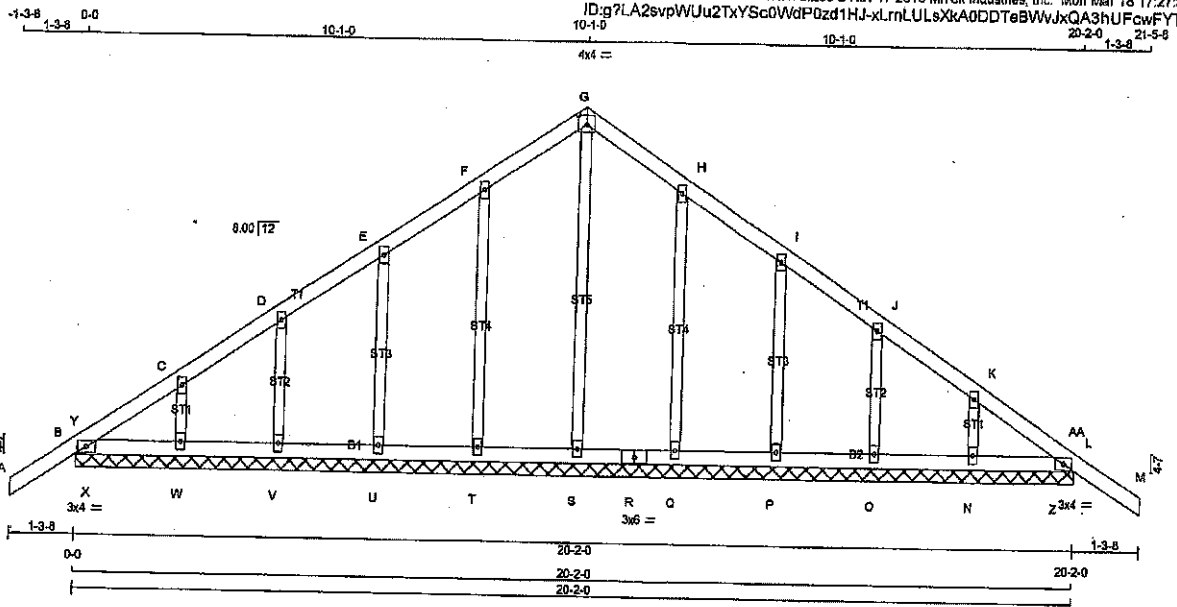
DRWG NO. TAM 71905476
STRUCTURAL
COMPONENT FAMILY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401785	G1	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 17:27:35 2018 Page 1

ID:g7LA2svpWUu2TxYSc0WdP0zd1HJ-xLrnLULsXkA0DDTeBWWJxQA3hUFcwFYtmU6O?zzZels



Scale = 1:42.2

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

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 (PL)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. LC1 (LC)
FR-TO				FR-TO			
A-B	0/37	-102.1	-102.1 0.14 (1)	10.00	S-G	-138/0	0.12 (1)
B-Y	-67/0	-102.1	-102.1 0.01 (4)	6.25	T-F	-232/0	0.12 (1)
Y-C	-48/0	-102.1	-102.1 0.05 (1)	6.25	U-E	-198/0	0.08 (1)
C-D	-47/0	-102.1	-102.1 0.05 (1)	6.25	V-D	-199/0	0.04 (1)
D-E	-39/0	-102.1	-102.1 0.05 (1)	6.25	W-C	-205/0	0.03 (1)
E-F	-31/0	-102.1	-102.1 0.08 (1)	6.25	Q-H	-232/0	0.12 (1)
F-G	-41/0	-102.1	-102.1 0.05 (1)	6.25	P-I	-195/0	0.08 (1)
G-H	-41/0	-102.1	-102.1 0.08 (1)	6.25	C-J	-199/0	0.04 (1)
H-I	-31/0	-102.1	-102.1 0.05 (1)	6.25	N-K	-205/0	0.03 (1)
I-J	-39/0	-102.1	-102.1 0.05 (1)	6.25	X-Y	-68/2	0.00 (1)
J-K	-47/0	-102.1	-102.1 0.05 (1)	6.25	Z-AA	-68/2	0.00 (1)
K-AA	-48/0	-102.1	-102.1 0.05 (1)	6.25			
AA-L	-87/0	-102.1	-102.1 0.01 (4)	6.25			
L-M	0/37	-102.1	-102.1 0.14 (1)	10.00			
B-X	0/50	-18.5	-18.5 0.04 (1)	10.00			
X-W	0/50	-18.5	-18.5 0.04 (1)	10.00			
W-V	0/38	-18.5	-18.5 0.02 (1)	10.00			
V-U	0/32	-18.5	-18.5 0.02 (4)	10.00			
U-T	0/28	-18.5	-18.5 0.02 (4)	10.00			
T-S	0/25	-18.5	-18.5 0.02 (4)	10.00			
S-R	0/25	-18.5	-18.5 0.02 (4)	10.00			
R-Q	0/25	-18.5	-18.5 0.02 (4)	10.00			
Q-P	0/28	-18.5	-18.5 0.02 (4)	10.00			
P-O	0/32	-18.5	-18.5 0.02 (4)	10.00			
O-N	0/38	-18.5	-18.5 0.02 (1)	10.00			
N-Z	0/50	-18.5	-18.5 0.04 (1)	10.00			
Z-L	0/50	-18.5	-18.5 0.04 (1)	10.00			

TOTAL WEIGHT = 2 X 81 = 161 lb

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 BCBC 2018, OBC 2012
- CSA 086-09, CSA 065-14
- 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 (L-M:1), BC=0.04/1.00 (B-X:1), WB=0.12/1.00 (H-Q:1), SS=0.09/1.00 (L-M:1)

COL 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.

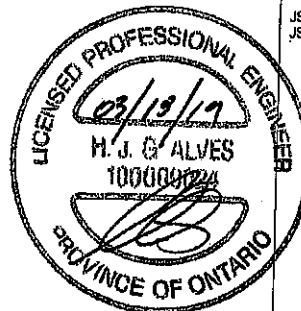
NAIL VALUES

PLATE GRIP (DRY) SHEAR (PSI)	SECTION (PLI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818	354 1867 798 1867 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (G) (INPUT = 0.80)
JSI METAL = 0.12 (H) (INPUT = 1.00)



DRWG NO. TAM T1903473
STRUCTURAL
FOUNDATION ONLY

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Mon Mar 18 17:29:34 2018 Page 1
ID:UHQ90YyAFCG5Y3nXfDmzciez-yEXmKAnVvI97_V3VP?YDFXbHYSJUI1s_8mpv4bzZeh?
1-3-8 0-0 3-1-11 3-1-11 2-8-13 5-10-8 8-0-12 2-2-4 2-0-0 10-0-12 10-0-1 1-11-12 12-0-12 14-3-8 2-2-12 2-8-13 17-0-5 3-1-11 20-2-0 21-5-8
Scale = 1:38.0



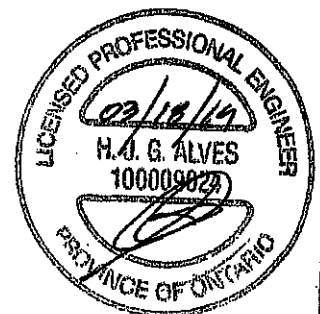
1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401788	T2	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

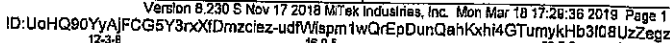
Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:28:35 2019 Page 2
ID:UoHQ90YyAIFCG5Y3nxXDmzclez-QQ5BXWo7GcH_cfeIDJ3Sok8Ris21U67MQYTc2zZeh

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	—	—

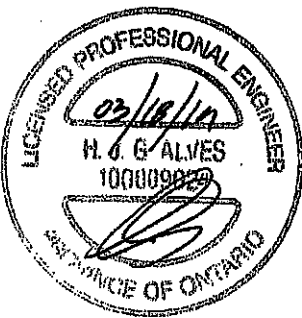


DWG NO. TAM 77905477
STRUCTURAL
COMPONENT ONLY 3/2

Tamarack Roof Truss, Burlington



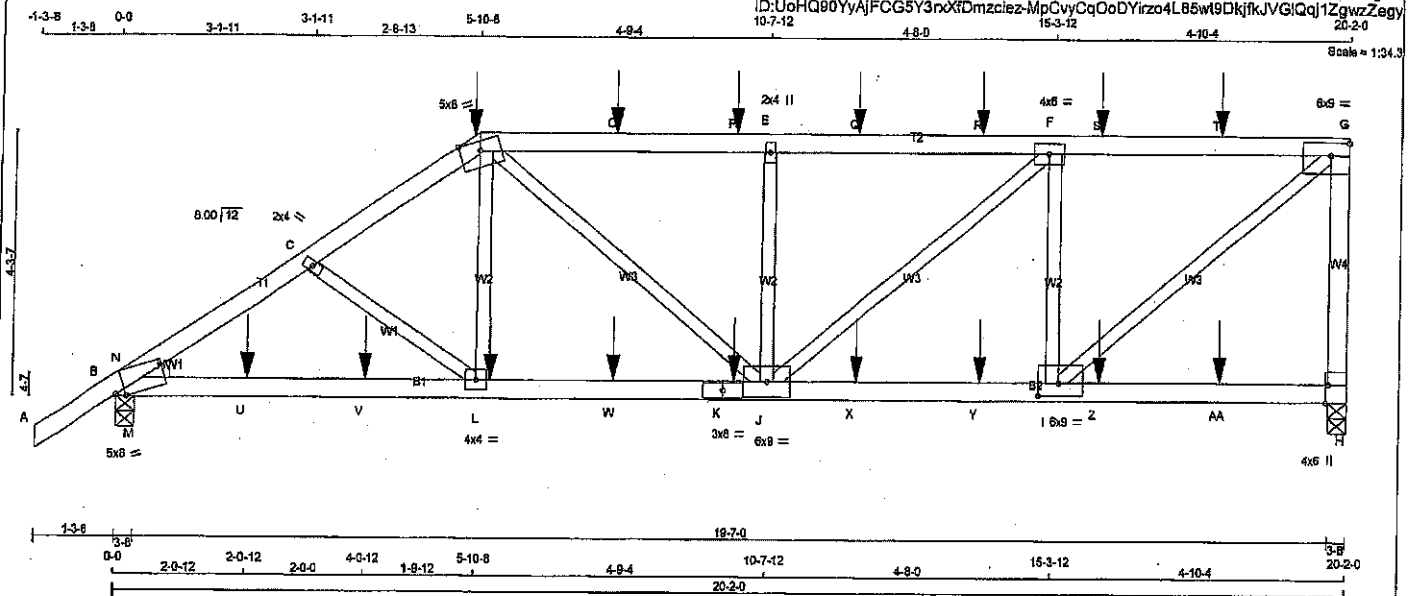
DWG NO. TAM 7905478
STRUCTURAL
CORROSION TREATMENT



TOWN OF CALEDON
BUILDING SECTION
FILE NO

JOB NAME 401788	TRUSS NAME T4	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.230 S Nov 17 2018 Mitak Industries, Inc. Mon Mar 18 17:28:37 2019 Page 1
ID:UoHQ80YyAJFCG5Y3nxkDmzcicz-MpCvyCqOoDYirzo4L85w19Dk[fk]JVGIQqj1ZgwzZegy
10-7-12 4-8-0 15-3-12 4-10-4 20-2-0



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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMB1-m	MT20	5.0	8.0 Edge 1.75
C	TMB1-w	MT20	2.0	4.0
D	TTWW-m	MT20	5.0	8.0 Edge
E	TMB1-w	MT20	2.0	4.0
F	TMB1-w	MT20	4.0	6.0
G	TMB1-w	MT20	6.0	8.0 2.50 Edge
H	BMV1-t	MT20	4.0	6.0 Edge 0.50
I	BMV1-t	MT20	6.0	8.0 2.50 4.00
J	BMV1-t	MT20	6.0	8.0
K	BS-4	MT20	3.0	6.0
L	BMV1-t	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		REQD	
GROSS REACTION		DOWN	HORIZ	BRG	IN-SX	BRG	IN-SX
JT	VERT	DOWN	HORIZ	UPLIFT	IN-SX	HEEL	WEDGE
H	2305	0	2305	0	3-8	3-8	
B	2337	0	2337	0	3-8	3-8	2x4 L

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS		WIND		DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE		
H	1622	1111 / 0	0 / 0	0 / 0	511 / 0	0 / 0
B	1643	1132 / 0	0 / 0	0 / 0	512 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.76 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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 37	C-L	-290 / 0
B-N	-3734 / 0	L-D	0 / 457
N-C	-3468 / 0	I-G	0 / 3063
C-D	-3208 / 0	D-J	0 / 882
D-O	-3189 / 0	I-F	-1652 / 0
O-P	-3189 / 0	J-E	-910 / 0
P-E	-3189 / 0	J-F	0 / 1086
E-Q	-3189 / 0	M-N	0 / 284
Q-R	-3189 / 0		
R-F	-3189 / 0		
F-S	-2385 / 0		
S-T	-2385 / 0		
T-G	-2385 / 0		
G-H	-2228 / 0		
B-M	0 / 2890		
M-U	0 / 2890		
U-V	0 / 2890		
V-L	0 / 2890		
L-W	0 / 2868		
W-K	0 / 2868		
K-J	0 / 2868		
J-X	0 / 2365		
X-Y	0 / 2365		
Y-I	0 / 2385		
I-Z	0 / 0		
Z-AA	0 / 0		
AA-H	0 / 0		

FACTORED CONCENTRATED LOADS (LBS)		FACE		TYPE		HEEL	CONN.
JT	LOC.	LC1	MAX.	FACE	DIR.		
D	5-10-8	-483	-483	FRONT	VERT	TOTAL	
K	10-1-4	-74	-74	FRONT	VERT	TOTAL	
L	6-1-4	-74	-74	FRONT	VERT	TOTAL	
O	8-1-4	-160	-160	FRONT	VERT	TOTAL	
P	10-1-4	-160	-160	FRONT	VERT	TOTAL	
Q	12-1-4	-160	-160	FRONT	VERT	TOTAL	
R	14-1-4	-160	-160	FRONT	VERT	TOTAL	
S	16-1-4	-160	-160	FRONT	VERT	TOTAL	
T	18-1-4	-160	-160	FRONT	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. 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 NBCC 2015, CBC 2012
- CSA 088-09, 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/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.87")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.85/1.00 (E-F:1), BC=0.67/1.00 (L-M:1), WB=0.78/1.00 (G-I:1), SSI=0.48/1.00 (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.

RAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
M20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (I) (INPUT = 0.90)
JSI METAL= 0.81 (K) (INPUT = 1.00)

DWG NO. TAM 7705479
STRUCTURAL
COMPUTER FILE 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T4	1	1	TRUSS DESC.		

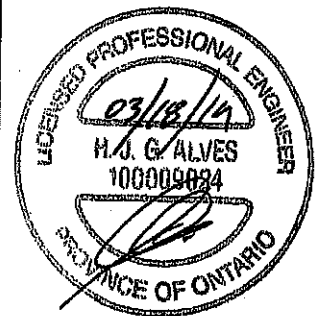
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 17:29:38 2019 Page 2
ID:UoHQ90YyAIFCGsY3rxXfDmzcJez-r?mH9Xq0ZXgZT7NHurd9QMmyT34YEI a2Nn7CMzZegx

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	—	—

RECEIVED
AUG 15 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO

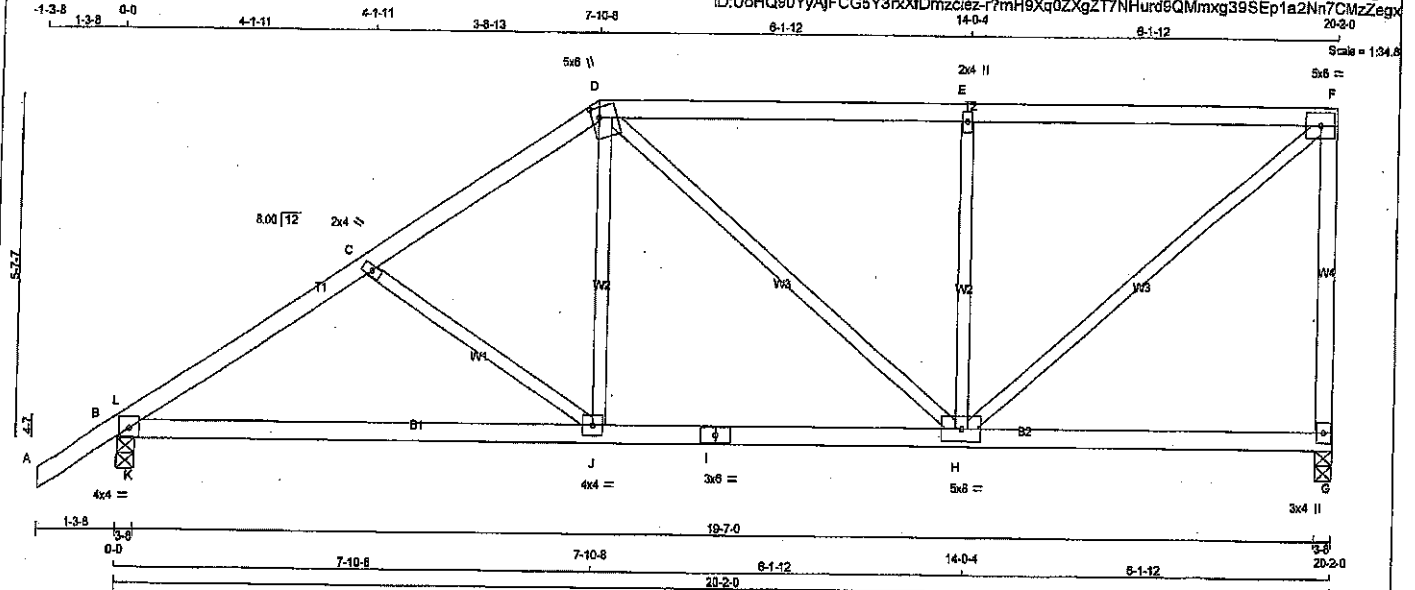


DWG NO. TAM 71705479
STRUCTURAL
COMPONENT SHEET 3/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T5	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Mon Mar 18 17:29:38 2019 Page 1
ID:UoHQ80YyAjFCG5Y3nXIDmzciez-r7mH9Xq0ZXgZT7NHurd6QMmxg39Sep1a2Nn7CMzZegx



TOTAL WEIGHT = 80 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
B - I	2x4	DRY	No.2
I - G	2x4	DRY	No.2

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

DESCR.

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	HORZ	DOWN	HORZ
G	1216	0	1216	0
B	1356	0	1356	0

UNFACTORED REACTIONS

	1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
G	856	588 / 0	0 / 0 0 / 0 0 / 0 270 / 0 0 / 0
B	952	665 / 0	0 / 0 0 / 0 0 / 0 287 / 0 0 / 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				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0 / 37	-102.1	-102.1	0.14 (1)	10.00	C-J	-431 / 0	0.17 (1)
B-L	-1924 / 0	-102.1	-102.1	0.14 (4)	4.83	J-D	0 / 389	0.08 (1)
L-C	-1728 / 0	-102.1	-102.1	0.28 (1)	4.77	D-H	-52 / 0	0.07 (1)
C-D	-1358 / 0	-102.1	-102.1	0.27 (1)	5.26	H-E	-777 / 0	0.37 (1)
D-E	-1078 / 0	-102.1	-102.1	0.71 (1)	4.87	E-F	0 / 1421	0.32 (1)
E-F	-1076 / 0	-102.1	-102.1	0.71 (1)	4.87	F-G	0 / 265	0.00 (1)
F-G	-1167 / 0	0.0	0.0	0.67 (1)	7.38			
B-K	0 / 1460	-18.5	-18.5	0.26 (1)	10.00			
K-J	0 / 1460	-18.5	-18.5	0.35 (1)	10.00			
J-I	0 / 1116	-18.5	-18.5	0.30 (1)	10.00			
I-H	0 / 1116	-18.5	-18.5	0.30 (1)	10.00			
H-G	0 / 0	-18.5	-18.5	0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 8.0 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 BCBC 2018, CBC 2012
- CSA 086-09, CSA 085-14
- 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) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.04")
ALLOWABLE DEFL.(TL) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.13")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

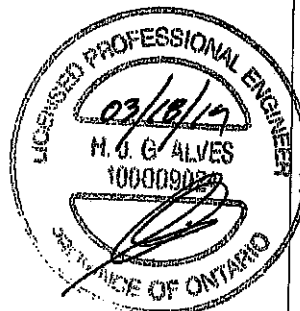
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

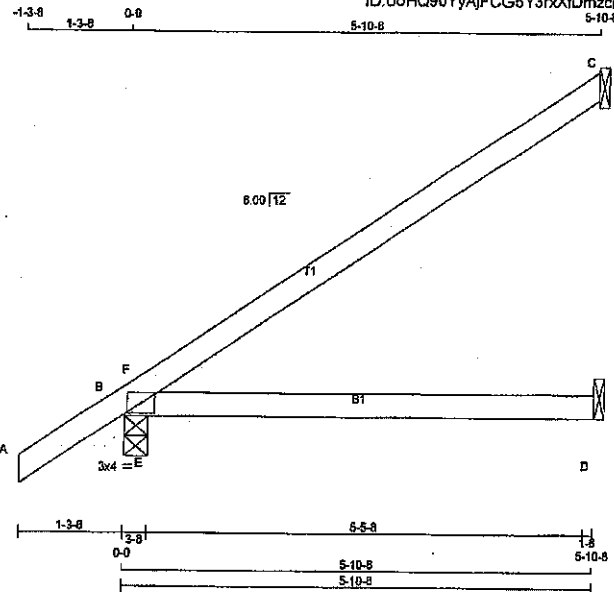


DRWG NO. TAM 7795480
STRUCTURAL
COMPONENT ONLY

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

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 17:28:27 2018 Page 1
ID: UoHQ90YyAJFCG5Y3rxXIDmzcjcz-fuc7snl699H77Q19lwaT2p7PeQT9wByXAc2KVzZeh6



Scale = 1/8" = 1'-0"

TOTAL WEIGHT = 13 X 17 = 219 lb

LUMBER

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

LUMBER
No.2
No.2

DESCR.
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB14	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
C	262	0	1-8	1-8
B	494	0	3-8	3-8
D	92	0	1-8	1-8

SEE MITEK STANDARD DETAIL 537821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	180	145 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0	0 / 0
B	345	250 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0	0 / 0
D	69	25 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORIZ. LOAD (LC)	MAX. LENGTH (FT)	WEBS MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LC)
FR-TO						
A-B	0 / 37	-102.1	-102.1	0.14 (1)	10.00	
B-F	-32 / 284	-102.1	-102.1	0.21 (1)	6.25	
F-C	-13 / 2	-102.1	-102.1	0.48 (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 = 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

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=0.48/1.00 (C-F:1), BC=0.31/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SS=0.58/1.00 (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 MIN MAX MIN
MT20 618 354 1667 788 1667 1656

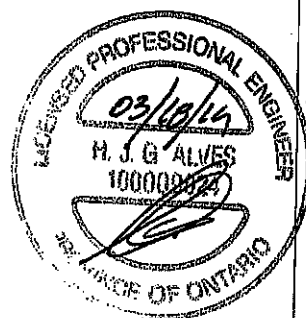
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.80)
JSI METAL= 0.10 (B) (INPUT = 1.00)

RECEIVED
AUG 15 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



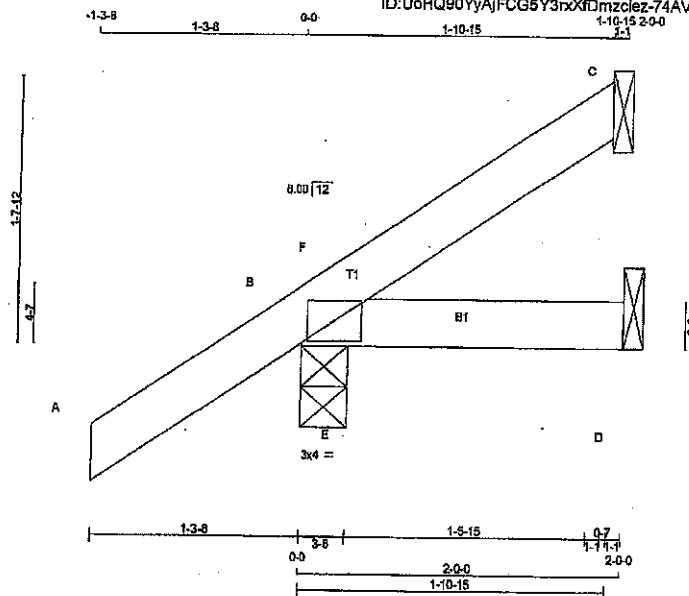
DRWG NO. TAM 1905481
STRUCTURAL
COMPONENT ONLY

JOB NAME 401788	TRUSS NAME J2	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
--------------------	------------------	---------------	----------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 17:29:28 2018 Page 1
ID: UoHQ90YyAJFCG5Y3nxXfDmzclez-74AV37JkwSP_GacMJIRp0GLNA1qhuNM5lqMbsxzZeh5

Scale = 1:12.1



TOTAL WEIGHT = 3 X 7 = 21 lb

LUMBER

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

LUMBER
No.2
No.2

DESCR.
SPF
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	UP/LIFT	IN-SX	IN-SX	IN-SX
C	82	0	82	0	-11	1-8	1-8	1-8
B	306	0	306	0	0	3-8	3-8	3-8
D	5	0	16	0	-14	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL 837821H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
C	43	33 / -12	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
B	212	164 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
D	5	0 / -16	0 / 0	0 / 0	0 / 0	11 / 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: (5)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LO1 MAX (PLF)		MAX. UNBRACED LENGTH FR-TO (LC)		WEBS MAX. FACTORED FORCE (LBS)	
	FR-TO	FROM	FR-TO	FROM	FR-TO	FROM	FR-TO	FROM
A-B	0 / 37	-102.1	-102.1	0.14 (1)	10.00	E-F	0 / 182	0.00 (1)
B-F	-136 / 0	-102.1	-102.1	0.13 (5)	6.25			
F-C	-11 / 0	-102.1	-102.1	0.04 (1)	6.25			
B-E	0 / 0	-18.5	-18.5	0.06 (5)	10.00			
E-D	0 / 0	-18.5	-18.5	0.06 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, OBC 2012
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

(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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/899 (0.00")

CSI: TC=0.14/1.00 (A-B:1), BC=0.06/1.00 (B-E:5), WB=0.00/1.00 (E-F:1), SSI=0.13/1.00 (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

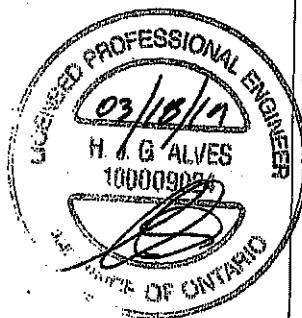
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



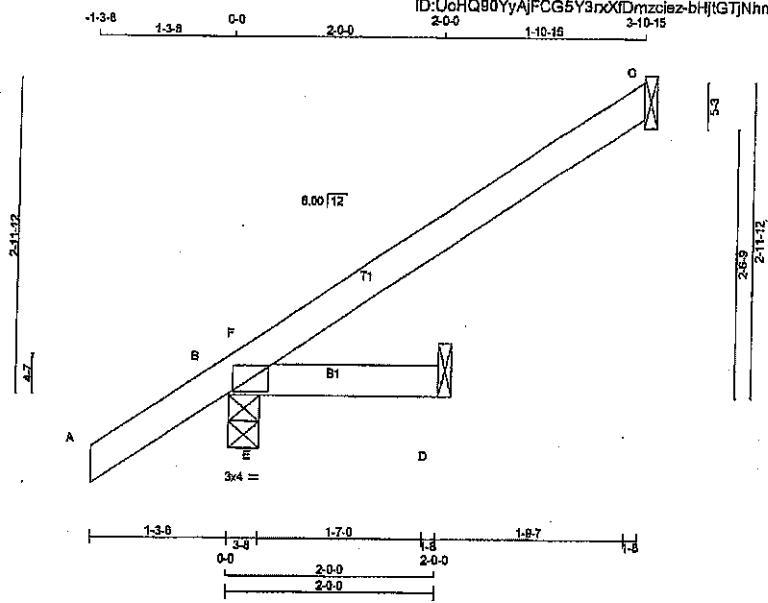
DRWG NO. I AM 17905482
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	J3	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:28:29 2018 Page 1
ID:UcHQ90YyAJFCG5Y3nxKIDmzcjez-bHjIGTJNhmXrukBYISy2YUyRR6rdqcF_U58PozZeh4

Scale = 1:20.1



TOTAL WEIGHT = 3 X 10 = 29 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

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

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

JT	FACTORED GROSS REACTION		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	89	0	89	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				
		SNOW	LIVE	PERM.LIVE	WIND	DEAD
C	109	80/0	0/0	0/0	19/0	0/0
B	221	170/0	0/0	0/0	51/0	0/0
D	70	47/0	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		MAX. UNBRACED LENGTH	MEMB.	WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	LC2 MAX (PLF)			MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO								
A-B	0/37	-102.1	-102.1	0.14 (1)	10.00	E-F	-528/0	0.00 (1)
B-F	0/194	-102.1	-102.1	0.16 (1)	10.00			
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/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 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 (0.19")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
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), SSI=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

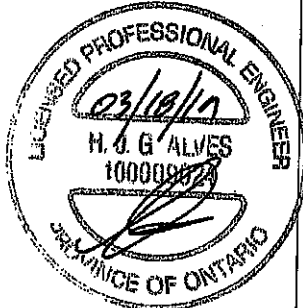
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1697 768 1937 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



DRWG NO. TAM 77905483
STRUCTURAL
COMPONENT (MIN)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	J4	3	1	TRUSS DESC.		

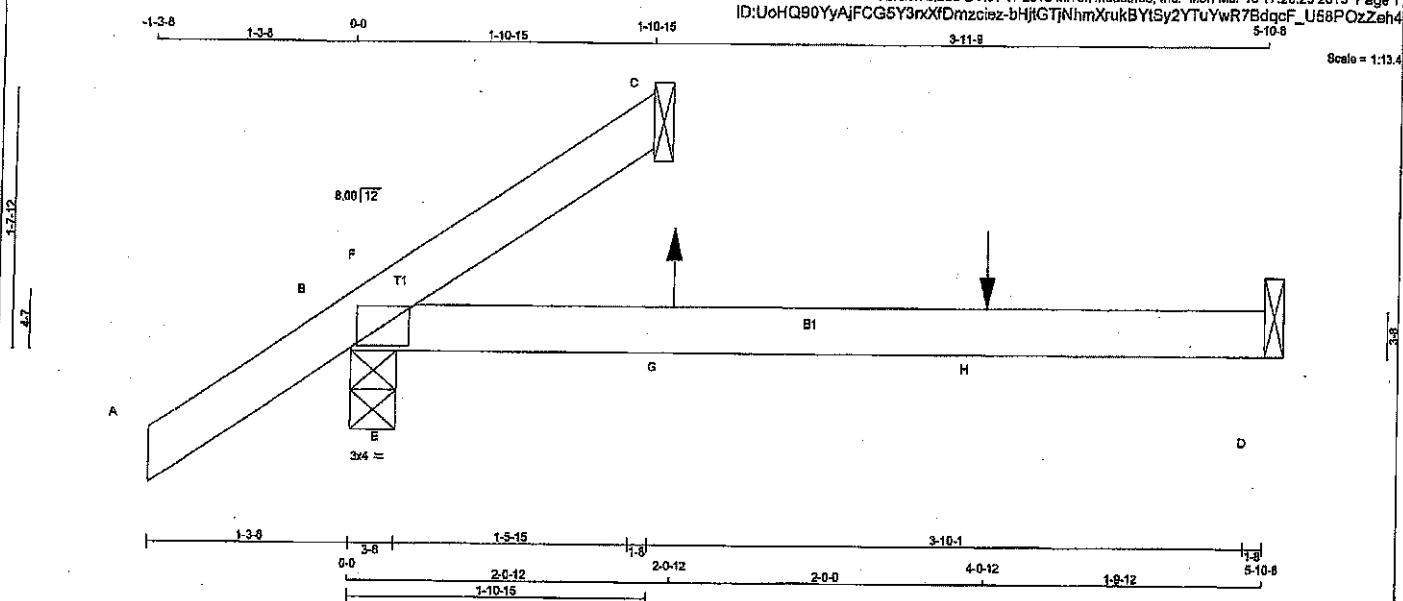
Tamarack Roof Truss, Burlington

Version 6.230 S Nov 17 2016 MITek Industries, Inc. Mon Mar 18 17:28:29 2019 Page 1

ID:UoHQ90YyAjFCG5Y3rxXfDmzciez-bHjGTJNmXrukBYISy2YTUyWvR7BdqF_U58POzZeh4

5-10-8

Scale = 1:13.4



TOTAL WEIGHT = 3 X 11 = 34 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-1	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	112	0	112	0	0	1-8	1-8
B	318	0	318	0	0	3-8	3-8
D	88	0	88	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
C	81	44/0	0/0	0/0	37/0	0/0
B	222	183/0	0/0	0/0	59/0	0/0
D	84	25/-4	0/0	0/0	39/0	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)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	MAX+ (LC)	MAX. UNBRACED LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)
A-B	0/37	-102.1	-102.1	0.14	(1)	10.00	6.25					
B-F	-301/0	-102.1	-102.1	0.13	(1)	10.00						
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	8	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 BCBC 2018, OBC 2012
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.02")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.05")

CSI: TO=0.14/1.00 (A-B:1), BC=0.17/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=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.

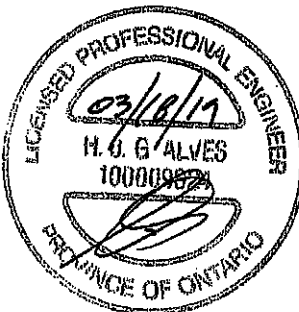
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PL)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788

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)

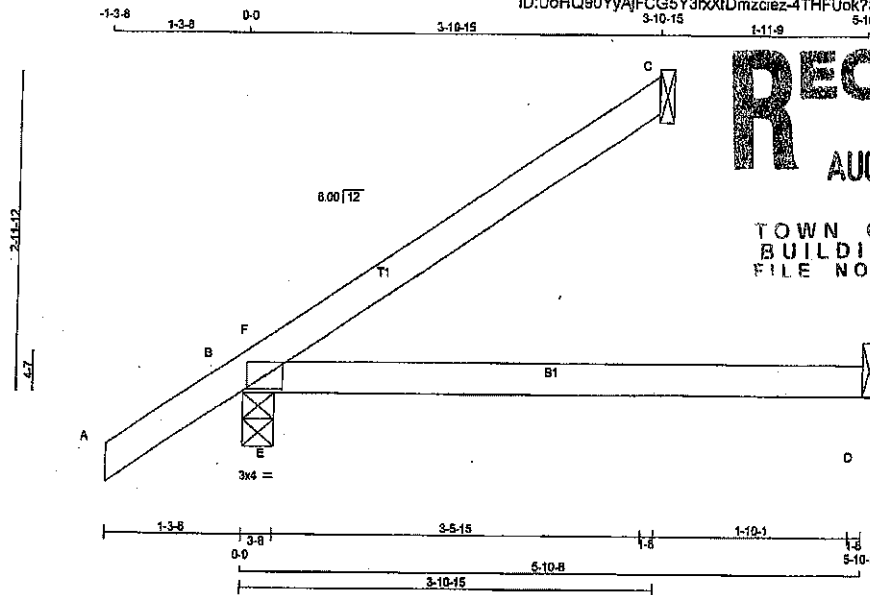


DWG NO. 14th 179054B4
STRUCTURAL
COMPONENT ONLY

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

Tamarack Roof Truss, Burlington

Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:29:30 2019 Page 1
ID:UoHQ80YyAIFCG5Y3rxIDmzciez-4THFuok7S4fhWulkQ9THShR7rTnMHsOD8rixqzZeh3



RECEIVED
AUG 15 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO

TOTAL WEIGHT = 3 X 14 = 42 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-1	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	UP/LIFT		
C	188	0	188	0	1-8	1-8
B	398	0	398	0	3-8	3-8
D	62	0	62	0	1-8	1-8

SEE MITEK 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
C	130	99/0	0/0	0/0	0/0	31/0	0/0
B	279	198/0	0/0	0/0	0/0	81/0	0/0
D	48	9/0	0/0	0/0	0/0	39/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS				WEBS			
		FACTORED VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	UNBRACED LENGTH	FACTORED FORCE (LBS)	MAX	CS1 (LC)
FR-TO									
A-B	0/37	-102.1	-102.1	0.14 (1)	10.00	E-F	-155/130	0.00 (1)	
B-F	-98/0	-102.1	-102.1	0.10 (4)	6.25				
F-C	0/7	-102.1	-102.1	0.23 (1)	10.00				
B-E	0/0	-18.5	-18.5	0.08 (1)	10.00				
E-D	0/0	-18.5	-18.5	0.15 (4)	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. O.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 NBC 2015, CBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/989$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/920$ (0.08")

CS1: TC=0.23/1.00 (C-F:1), BC=0.15/1.00 (D-E:4), WB=0.00/1.00 (E-F:1), SS=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.

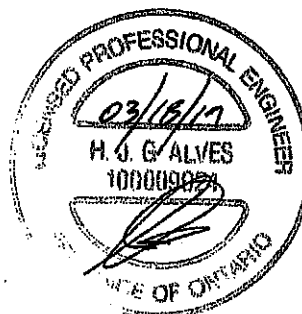
NAIL VALUES

PLATE	GRIP (DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
	MAX	MIN	MAX
MT20	618	354	1667
	786	1987	1858

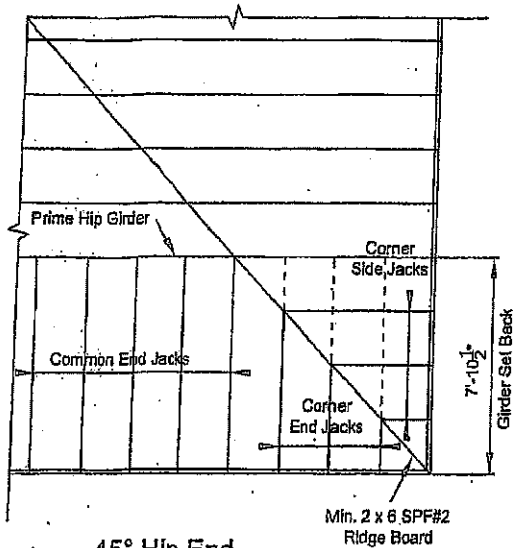
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



DRWG NO. 17907485
STRUCTURAL
COMPONENT ONLY



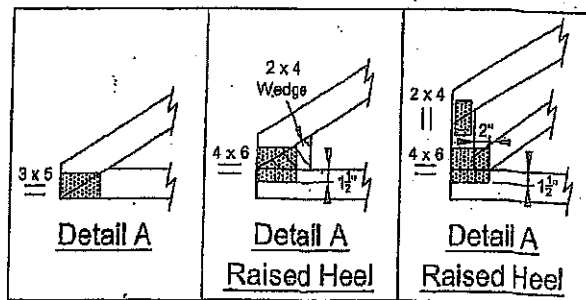
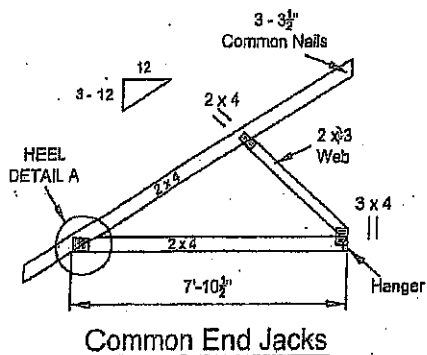
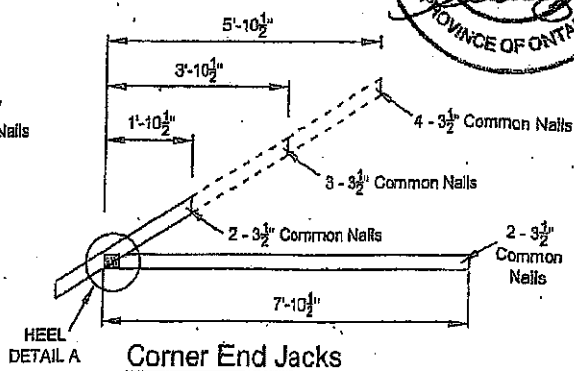
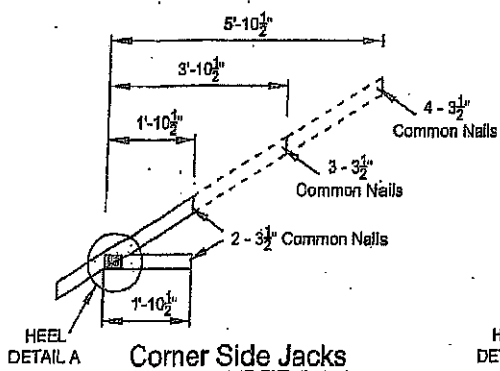
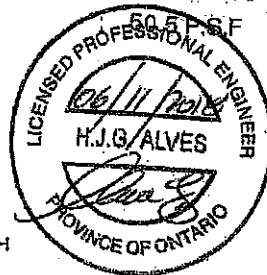
LUMBER SPECIFICATION

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

DESIGN LOAD

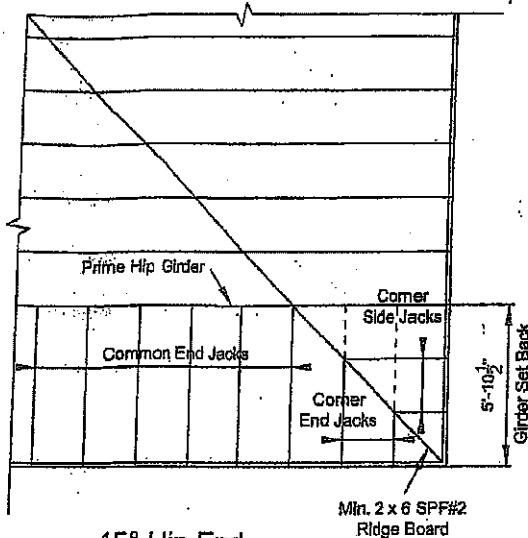
TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD



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

T-1800217



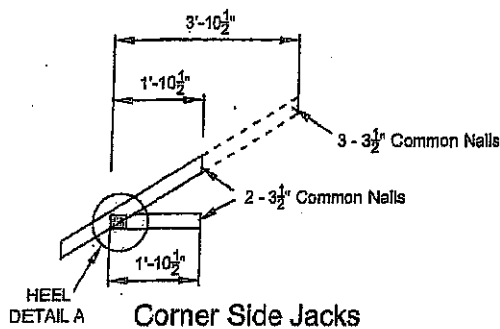
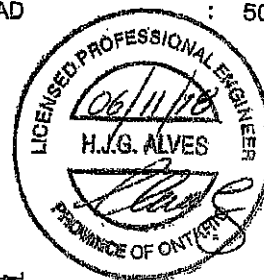
45° Hip End

LUMBER SPECIFICATION

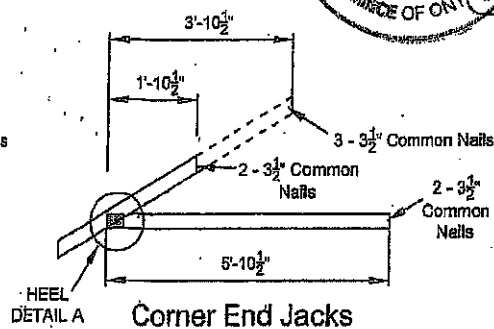
TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

DESIGN LOAD

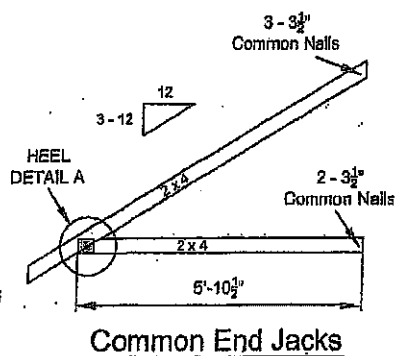
TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.
 TOTAL LOAD : 50.5 P.S.F.



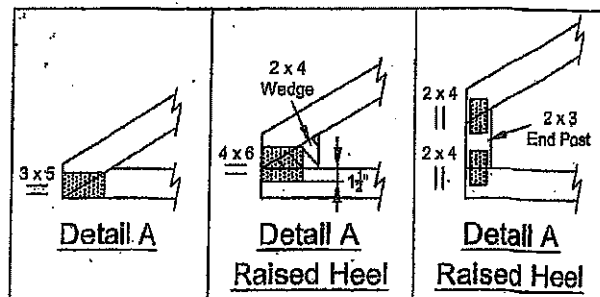
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

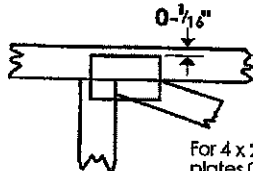
T-1800216

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in feet-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

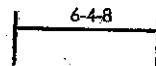


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

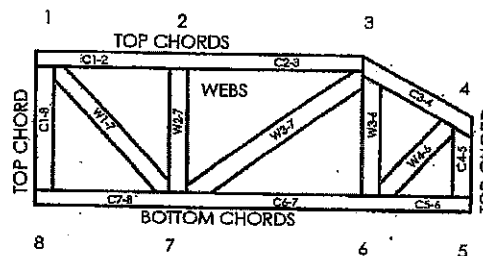
Industry Standards:

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

© 2007 MiTek® All Rights Reserved

MiTek
POWER TO PERFORM.™

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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