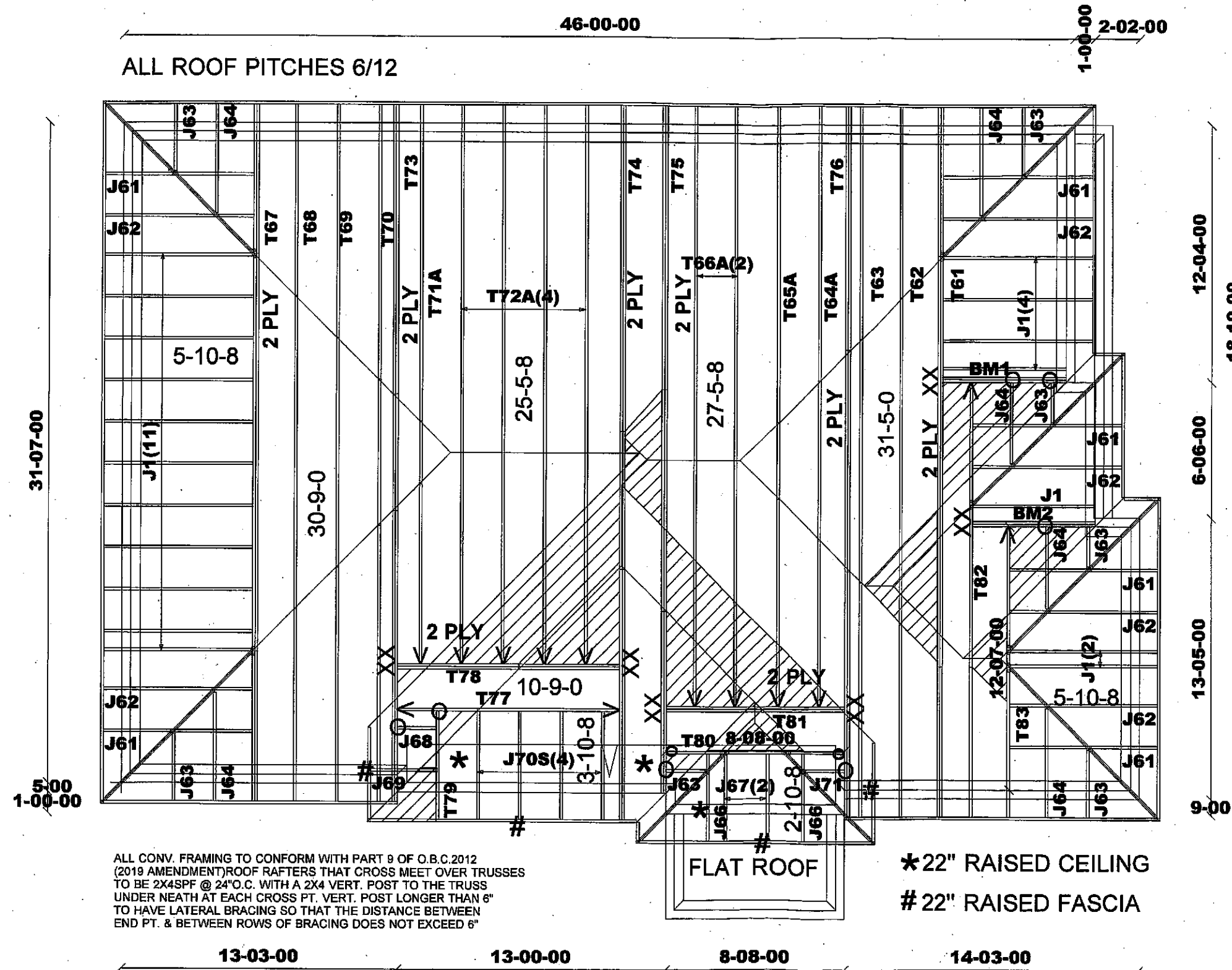




ASPHALT SHINGLES
12"FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD

CITY OF HAMILTON
Building Division

Permit No. **20-139041**

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH
THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by

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

FOR CHIEF BUILDING OFFICIAL
DATE

DENOTES
CONV.
FRAMING

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)

DESIGN LOADS:
SNOW LOAD ~~25.6~~ PSF As per P.Eng 31.3 psf.
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

BM1, BM2 = 2-2X10

M13142



Job Track: **51225**
Plan Log: **202427**
Layout ID: **408265**

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: **RUSSELL GARDENS PH.3**
Date: 2020-04-28 Sales: **Mario DiCano** Designer: **ACJ**

Model / Elevation:
VALLEYCREEK 11/3 LOT 87

Mitek ver 8.3.1.215

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.



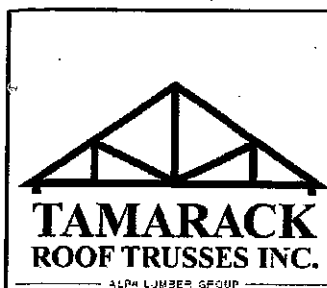
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 11
 Lot #: 087
 Elevation: 3

Job Track: 51225
 PlanLog: 202427
 Layout ID: 408265
 Ref #:
 Page: 1 of 3
 Date: 04-28-2020
 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
	1 2-ply	T61 Hip Girder	6/12	31-05-00	4-01-04	2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	337.31 208.00		
	1	T62 Hip	6/12	31-05-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	125.05 78.50		
	1	T63 Hip	6/12	31-05-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	127.89 80.00		
	1	T64A Hip	6/12	27-05-08	7-01-04	2 x 4	1-03-08	1-02-00 3-01-12	118.81 72.17		
	1	T65A Hip	6/12	27-05-08	8-01-04	2 x 4	1-03-08	1-02-00 3-01-12	118.67 75.00		
	2	T66A Common	6/12	27-05-08	9-00-04	2 x 4	1-03-08	1-02-00 3-01-12	228.7 143.00		
	1 2-ply	T67 Hip Girder	6/12	30-09-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	242.36 154.67		
	1	T68 Hip	6/12	30-09-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	117.3 73.17		
	1	T69 Hip	6/12	30-09-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	125.79 78.67		
	1	T70 Hip	6/12	30-09-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	127.28 78.67		
	1	T71A Hip	6/12	25-05-08	8-01-04	2 x 4	1-03-08	1-02-00 3-09-12	114.35 71.83		
	4	T72A Common	6/12	25-05-08	8-10-04	2 x 4	1-03-08	1-02-00 3-09-12	437.74 273.33		
	1 2-ply	T73 Hip Girder	6/12	30-09-00	7-05-08	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	311.1 191.33		
	1 2-ply	T74 Hip Girder	6/12	31-07-00	8-04-00	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	347.84 216.33		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 11
 Lot #: 087
 Elevation: 3

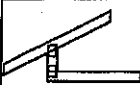
Job Track: 51225
 PlanLog: 202427
 Layout ID: 408265
 Ref #
 Page: 2 of 3
 Date: 04-28-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

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
	1 2-ply	T75 Hip Girder	6 / 12	31-07-00	7-04-00	2 x 4 2 x 6	1-03-08	1-02-00 1-02-00	328.25 206.67		
	1 2-ply	T76 Hip Girder	6 / 12	31-05-00	6-04-08	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	294.4 182.00		
	1	T77 Half Hip Girder	6 / 12	10-09-00	4-11-04	2 x 4		3-00-00 4-11-04	52.41 34.17		
	1 2-ply	T78 Half Hip Girder	6 / 12	10-09-00	5-11-04	2 x 4 2 x 6		3-00-00 5-11-04	116.75 75.00		
	1	T79 Half Hip Girder	6 / 12	3-10-08	3-11-04	2 x 4	1-03-08	1-02-00 3-11-04	25.08 17.83		
	1	T80 Hip Girder	6 / 12	8-08-00	4-05-04	2 x 4		1-02-00 1-02-00	36.5 25.00		
	1 2-ply	T81 Common Girder	6 / 12	8-08-00	5-02-00	2 x 4 2 x 6		3-00-00 3-00-00	86.69 56.33		
	1	T82 Hip Girder	6 / 12	19-06-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	91.56 58.33		
	1	T83 Hip Girder	6 / 12	12-07-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	57.8 39.00		
	18	J1 Jack-Open	6 / 12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	302.3 192.00		
	6	J61 Jack-Open	6 / 12	1-10-15	2-01-08	2 x 4	1-03-08 3-11-09	1-02-00 2-01-08	70.45 44.00		
	6	J62 Jack-Open	6 / 12	3-10-15	3-01-08	2 x 4	1-03-08 1-11-09	1-02-00 3-01-08	85.75 52.00		
	7	J63 Jack-Open	6 / 12	1-10-15	2-01-08	2 x 4	1-03-08 1-01	1-02-00 2-01-08	51.26 32.67		
	6	J64 Jack-Open	6 / 12	2-00-00	3-01-08	2 x 4	1-03-08 1-10-15	1-02-00 2-02-00	59.24 36.00		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.3 Location: WATERDOWN Model: VALLEYCREEK 11 Lot #: 087 Elevation: 3	Job Track: 51225 PlanLog: 202427 Layout ID: 408265 Ref # Page: 3 of 3 Date: 04-28-2020 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
	2	J66 Jack-Open	6 /12	1-10-15	2-01-08	2 x 4	1-03-08 11-09	1-02-00 2-01-08	16.64 10.67		
	2	J67 Jack-Open	6 /12	2-10-08	2-07-04	2 x 4	1-03-08	1-02-00 2-07-04	19.1 12.00		
	1	J68 Jack-Open	6 /12	1-10-08	3-11-04	2 x 4		3-00-00 3-11-04	10.01 6.83		
	1	J69 Jack-Open	6 /12	1-10-08	2-01-04	2 x 4	1-03-08	1-02-00 2-01-04	7.13 4.67		
	4	J70S Jack-Open	6 /12	3-10-08	4-11-04	2 x 4	1-03-08	1-02-00 4-11-04	82.51 56.67		
	1	J71 Jack-Open	6 /12	2-00-00	3-11-08	2 x 4	1-03-08	1-02-00 2-02-00	10.92 7.00		

TOTAL # TRUSS= 89 TOTAL BFT OF ALL TRUSSES= 2943.51 BFT. TOTAL WEIGHT OF ALL TRSSES 4682.51 LBS

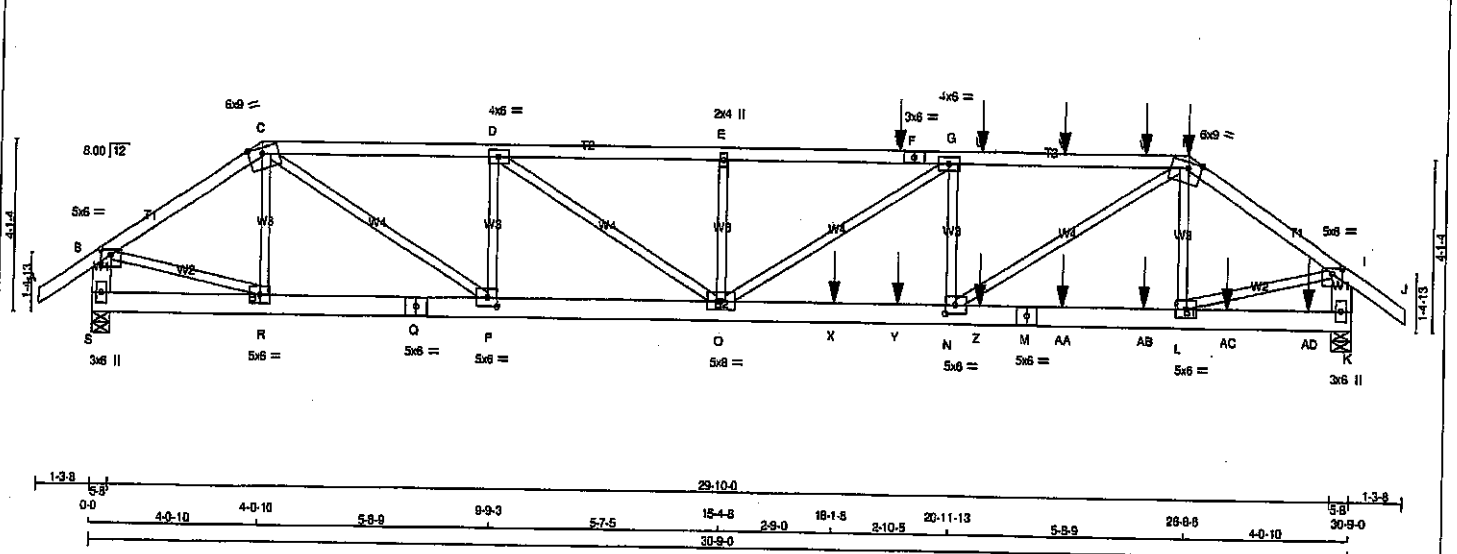
HARDWARE

QTY	TYPE	MODEL	LENGTH
13	Hardware	LJS26DS	
9	Hardware	LUS24	
6	Hardware	HGUS26-2	

TOTAL NUMBER OF
ITEMS= 28

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:46 2020 Page 1
ID: d8N1160ExSc8K00Orbmazjvle-C46NP1taMiaPbgA_eCOINIXMTARMXShkEINy2zNoVR
20-11-13 5-8-9 26-5-5 30-9-0 32-0-8
Scale = 1:50.9



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2 SPF
C - F	2x4	DRY	No.2 SPF
F - H	2x4	DRY	No.2 SPF
H - J	2x4	DRY	No.2 SPF
S - B	2x6	DRY	No.2 SPF
K - I	2x6	DRY	No.2 SPF
S - Q	2x6	DRY	1650F 1.5E SPF
Q - M	2x6	DRY	1650F 1.5E SPF
M - K	2x6	DRY	1650F 1.5E SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (#)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	TOP SIDE(0.0)
C-F 1	12	TOP SIDE(61.0)
F-H 1	12	TOP SIDE(61.0)
H-J 1	12	TOP
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-Q 2	12	TOP
Q-M 2	12	TOP
M-K 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	8	TOP

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED DOWN HORZ UPLIFT		INPUT BRG IN-SX		REQD BRG IN-SX	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
S	2805	0	2605	0	0	5-8	5-8	5-8	5-8
K	3401	0	3401	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	1838	1234 / 0	0 / 0	0 / 0	0 / 0	604 / 0	0 / 0
K	2400	1605 / 0	0 / 0	0 / 0	0 / 0	795 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

TOTAL LOAD CASES: (4)									
CHORDS				WEBS					
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 35	-91.8	-91.8 0.07 (1)	10.00	R-C	-431 / 0	0.05 (1)		
B-C	-3017 / 0	-91.8	-91.8 0.19 (1)	5.13	C-P	0 / 3123	0.39 (1)		
C-D	-5112 / 0	-91.8	-91.8 0.40 (1)	3.96	P-D	-1778 / 0	0.23 (1)		
D-E	-8908 / 0	-91.8	-91.8 0.52 (1)	3.38	D-O	0 / 2154	0.27 (1)		
E-T	-8908 / 0	-91.8	-91.8 0.66 (1)	3.20	O-E	-461 / 0	0.06 (1)		
T-F	-8908 / 0	-91.8	-91.8 0.66 (1)	3.20	O-G	0 / 427	0.05 (1)		
F-G	-8908 / 0	-91.8	-91.8 0.66 (1)	3.20	N-G	-1129 / 0	0.14 (1)		
G-U	-6550 / 0	-91.8	-91.8 0.64 (1)	3.30	N-H	0 / 3896	0.48 (1)		
U-V	-6550 / 0	-91.8	-91.8 0.64 (1)	3.30	L-H	-765 / 0	0.10 (1)		
V-W	-6550 / 0	-91.8	-91.8 0.64 (1)	3.30	B-R	0 / 2577	0.32 (1)		
W-H	-6550 / 0	-91.8	-91.8 0.64 (1)	3.30	L-I	0 / 3399	0.42 (1)		
H-I	-3979 / 0	-91.8	-91.8 0.22 (1)	4.57					
I-J	0 / 35	-91.8	-91.8 0.07 (1)	10.00					
S-B	-2582 / 0	0.0	0.0 0.07 (1)	7.81					
K-I	-3320 / 0	0.0	0.0 0.12 (1)	7.63					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
H	28-8-6	-50	-56	---	FRONT	VERT	---	C1
H	26-8-5	-263	-263	---	FRONT	VERT	---	C1
T	19-8-4	-110	-110	---	FRONT	VERT	---	C1
U	21-8-4	-110	-110	---	FRONT	VERT	---	C1
V	23-8-4	-110	-110	---	FRONT	VERT	---	C1
W	25-8-4	-110	-110	---	FRONT	VERT	---	C1
X	18-1-8	-1452	-1452	---	FRONT	VERT	---	C1
Y	19-8-4	-26	-26	---	FRONT	VERT	---	C1
Z	21-8-4	-26	-26	---	FRONT	VERT	---	C1

TOTAL WEIGHT = 2 X 140 = 279 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")

CALCULATED VERT. DEFL.(LL) = L/999 (0.21")

ALLOWABLE DEFL.(TL) = L/360 (1.02")

CALCULATED VERT. DEFL.(TL) = L/970 (0.38")

CSI: TC=0.88/1.00 (E-G:1), BC=0.67/1.00 (N-O:1),

WB=0.48/1.00 (H-N:1), SSI=0.26/1.00 (N-O:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (R) (INPUT = 0.80)

JSI METAL= 0.41 (R) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2006760

JOB NAME 408263	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 29 2019 MTEK Industries, Inc. Thu Apr 23 14:59:48 2020 Page 2
ID:BNH1800ExSc8K00Orbmazivel-C46NPWlaMiaPboA eC0iNIXMTARMX5hkEInV2zNgVR

PLATES (table is in inches)

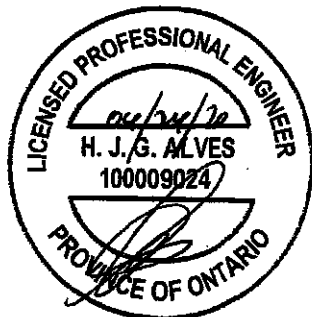
JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	6.0	1.50	3.00
C	TTWW-m	MT20	6.0	9.0	1.75	4.00
D	TMWW-l	MT20	4.0	6.0		
E	TMWW-w	MT20	2.0	4.0		
F	TS-l	MT20	3.0	6.0		
G	TMWW-l	MT20	4.0	6.0		
H	TTWW-m	MT20	6.0	9.0	1.75	4.00
I	TMWW-p	MT20	5.0	6.0	1.50	3.00
K	BMV1-p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	6.0		
M	BS-l	MT20	5.0	6.0		
N	BMWW-l	MT20	5.0	6.0	2.50	2.75
O	BMWWW-l	MT20	5.0	8.0		
P	BMWW-l	MT20	5.0	6.0	2.50	2.75
Q	BS-l	MT20	5.0	6.0		
R	BMWW-l	MT20	5.0	6.0		
S	BMV1-p	MT20	3.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AA	23-8-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AB	25-8-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	27-8-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	29-8-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

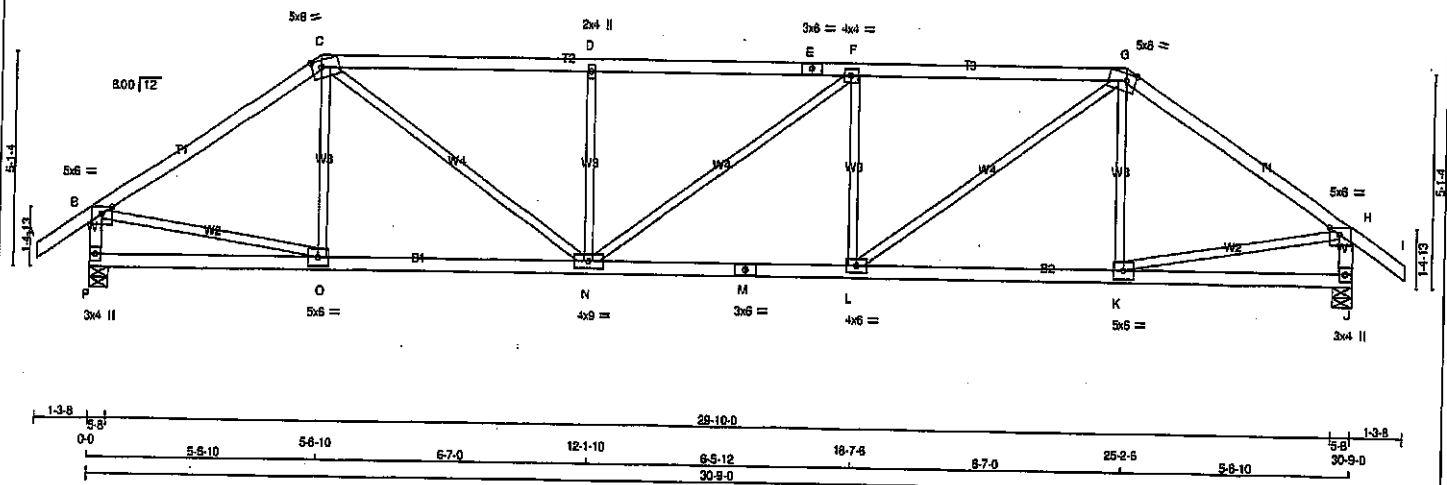


Structural component only
DWG# T-2006760 3/2

JOB NAME 408263	TRUSS NAME T2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 23 14:59:47 2020 Page 1
ID:d8N1t18o0ExSc8K00Orbmazvel-gGldDIVLqR11FNYLjFOaEqgtZM503yuPwUVzNpVQ
1-3-8 0-0 5-5-10 5-5-10 6-7-0 12-1-10 6-5-12 18-7-6 6-7-0 25-2-6 5-5-10 30-9-0 1-3-8
Scale = 1:50.9



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

C - E 2x4 DRY No.2

E - G 2x4 DRY No.2

G - I 2x4 DRY No.2

I - K 2x4 DRY No.2

K - M 2x4 DRY No.2

M - J 2x4 DRY No.2

J - H 2x4 DRY No.2

H - F 2x4 DRY No.2

F - D 2x4 DRY No.2

D - B 2x4 DRY No.2

B - A 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY; SEASONED LUMBER.

PLATES (table in inches)

JT TYPE PLATES W LEN Y X

B TMVW-p MT20 5.0 6.0 2.00 2.75

C TTWW-m MT20 5.0 6.0 2.00 2.75

D TMVW-w MT20 5.0 6.0 2.00 2.75

E TS-I MT20 5.0 6.0 2.00 2.75

F TMVW-t MT20 5.0 6.0 2.00 2.75

G TTWW-m MT20 5.0 6.0 2.00 2.75

H TMVW-p MT20 5.0 6.0 2.00 2.75

J BMV1-p MT20 5.0 6.0 2.00 2.75

K BMVW-t MT20 5.0 6.0 2.00 2.75

L BMVW-t MT20 5.0 6.0 2.00 2.75

M BS-I MT20 5.0 6.0 2.00 2.75

N BMVW-t MT20 5.0 6.0 2.00 2.75

O BMVW-t MT20 5.0 6.0 2.00 2.75

P BMV1-p MT20 5.0 6.0 2.00 2.75

Edge - INDICATES REFERENCE CORNER OF PLATE

TOUCHES EDGE OF CHORD.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
P	1821	0	1821	0
J	1821	0	1821	0

UNFACTORED REACTIONS

	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE			
P	1265	857 / 0	0 / 0	0 / 0	429 / 0	0 / 0
J	1265	857 / 0	0 / 0	0 / 0	429 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 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. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	C-C	-184 / 33	0.07 (1)
B-C	-1958 / 0	-91.8	-91.8 0.68 (1)	4.09	C-N	0 / 1302	0.29 (1)
C-D	-2875 / 0	-91.8	-91.8 0.80 (1)	3.43	N-D	-650 / 0	0.25 (1)
D-E	-2876 / 0	-91.8	-91.8 0.80 (1)	3.42	N-F	-2 / 0	0.00 (1)
E-F	-2876 / 0	-91.8	-91.8 0.80 (1)	3.42	F-F	-850 / 0	0.25 (1)
F-G	-2877 / 0	-91.8	-91.8 0.81 (1)	3.42	L-G	0 / 1304	0.29 (1)
G-H	-1958 / 0	-91.8	-91.8 0.65 (1)	4.09	K-G	-185 / 33	0.07 (1)
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	B-O	0 / 1657	0.37 (1)
P-B	-1780 / 0	0.0	0.0 0.18 (1)	6.26	K-H	0 / 1656	0.37 (1)
J-H	-1780 / 0	0.0	0.0 0.18 (1)	6.26			
P-O	0 / 0	-18.5	-18.5 0.16 (4)	10.00			
O-N	0 / 1623	-18.5	-18.5 0.35 (1)	10.00			
N-M	0 / 2877	-18.5	-18.5 0.50 (1)	10.00			
M-L	0 / 2877	-18.5	-18.5 0.50 (1)	10.00			
L-K	0 / 1623	-18.5	-18.5 0.35 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.16 (4)	10.00			

TOTAL WEIGHT = 121 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.02")
CALCULATED VERT. DEFL. (LL) = $L/899$ (0.13")
ALLOWABLE DEFL. (TL) = $L/360$ (1.02")
CALCULATED VERT. DEFL. (TL) = $L/899$ (0.26")

CSI: TC=0.81/1.00 (F-G:1), BC=0.50/1.00 (L-N:1), WB=0.37/1.00 (B-O:1), SS=0.28/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	(PSI)	(PLI)	(PLI)	SHEAR	SECTION
MT20	818	354	1657	788	1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (G) (INPUT = 0.80)
JSI METAL = 0.87 (M) (INPUT = 1.00)



Structural component only
DWG# T-2006761

Tamarack Roof Truss, Burlington

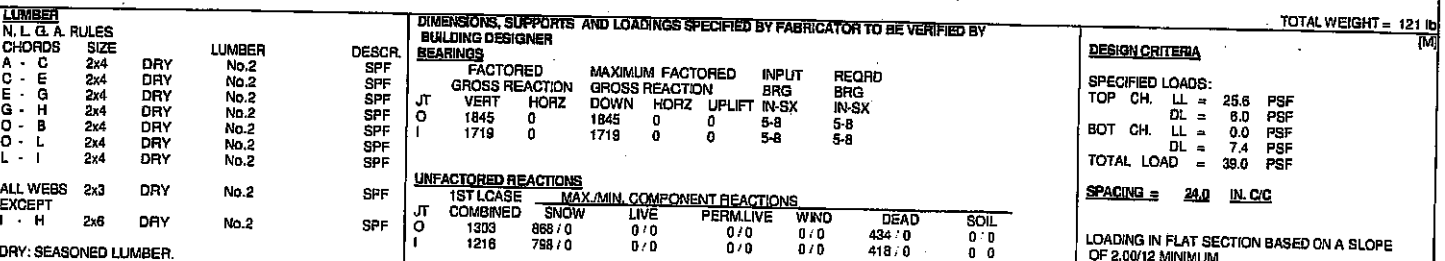
Version 8.310 S Oct 29 2019 MTak Industries, Inc. Thu Apr 23 14:59:48 2020 Page 1

ID:8N118p0ExSc8K000rmazjvel-BTD8qZJ76zylfvqZ63EJzanrKHuOqSw_BY8T0xzNpVf

1-3-8 0-0 5-6-10 6-7-6 12-1-10 18-7-6 25-2-6 30-5-0 32-0-8

1-3-8 5-6-10 6-7-6 12-1-10 18-7-6 25-2-6 30-5-0 32-0-8

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



PLATES (table is in inches)						
J	TYPE	PLATES	W	LEN	Y	X
B	TMWV-w	MT20	5.0	8.0	Edge	
C	TMWV-m	MT20	5.0	8.0	2.00	2.75
D	TMW+w	MT20	3.0	6.0		
T	SD-I	MT20	3.0	6.0		
F	TMWV-w	MT20	4.0	4.0		
G	TTWVW-m	MT20	5.0	8.0	2.00	3.00
H	TMWV-I	MT20	5.0	8.0	2.50	3.75
I	BMWV+w	MT20	3.0	6.0		
J	BMWV-I	MT20	5.0	8.0		
K	BMWV-w	MT20	4.0	6.0		
L	BS-I	MT20	3.0	6.0		
M	3MWVWV-I	MT20	4.0	9.0		
N	BMWV-w	MT20	5.0	6.0		
D	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS							
FACTORED			MAXIMUM FACTORED			INPUT	REQD
GROSS REACTION			GROSS REACTION			BRG	BRG
JO	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	1845	0	1845	0	0	5-8	5-8
I	1719	0	1719	0	0	5-8	5-8

UNFACTORED REACTIONS

JO	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	1303	868 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0
	1216	798 / 0	0 / 0	0 / 0	0 / 0	418 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.36 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM			FR-TO		
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00	N-C	-189/31 0.07 (1)
B-C	-1992/0	-91.8	-91.8	0.66 (1)	4.05	C-M	0/1343 0.30 (1)
C-D	-2736/0	-91.8	-91.8	0.81 (1)	3.39	M-D	-680/0 0.25 (1)
D-E	-2736/0	-91.8	-91.8	0.81 (1)	3.39	H-F	-42/0 0.06 (1)
E-F	-2736/0	-91.8	-91.8	0.81 (1)	3.38	K-F	-826/0 0.24 (1)
F-G	-2700/0	-91.8	-91.8	0.83 (1)	3.38	K-G	0/1261 0.28 (1)
G-H	-2119/0	-91.8	-91.8	0.81 (1)	3.77	J-H	-96/58 0.04 (1)
H-B	-1804/0	0.0	0.0	0.19 (1)	6.23	B-N	0/1685 0.38 (1)
						J-N	0/1787 0.40 (1)
O-N	0/0	-18.5	-18.5	0.16 (4)	10.00	I-H	-1674/0 0.11 (1)
N-M	0/1651	-18.5	-18.5	0.35 (7)	10.00		
M-L	0/2770	-18.5	-18.5	0.51 (1)	10.00		
L-K	0/2770	-18.5	-18.5	0.51 (1)	10.00		
K-J	0/1750	-18.5	-18.5	0.38 (1)	10.00		
J-I	0/0	-18.5	-18.5	0.17 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	25.6	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	39.0	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 , OBC 2012 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= $L/360$ (1.04")

CALCULATED VERT. DEFL.(LL) = $L/999$ (0.14")
ALLOWABLE DEFL.(TL) = $L/725$ (0.20")

ALLOWABLE DEFL (TL) = $L/360$ (1.04")
CALCULATED VERT. DEFL (TL) = $L/999$ (0.28")

CSI: TC=0.93(1.00 (5.3:1) EC=0.51(0.55 (0.24:1.00)

WB=0.40/1.00 (H-J:1), SS=0.28/1.00 (F-G:1)

DOI NUMBER: 10.2196/jmir.2013.0005

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

COMBINATION LINE LOAD FACTOR = 1.00

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURING CO.

RUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE

TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
-------	-----------	-------	---------

(PS)		(PLI)		(PLI)	
MAX	MIN	MAX	MIN	MAX	MIN

	MAX	MIN	MAX	MIN
MT20	618	354	1667	788

PLATE PLACEMENT TOL = 0.250 inches

PLATE PERCENTAGE:

PLATE ROTATION TOL. = 5.0 Deg.

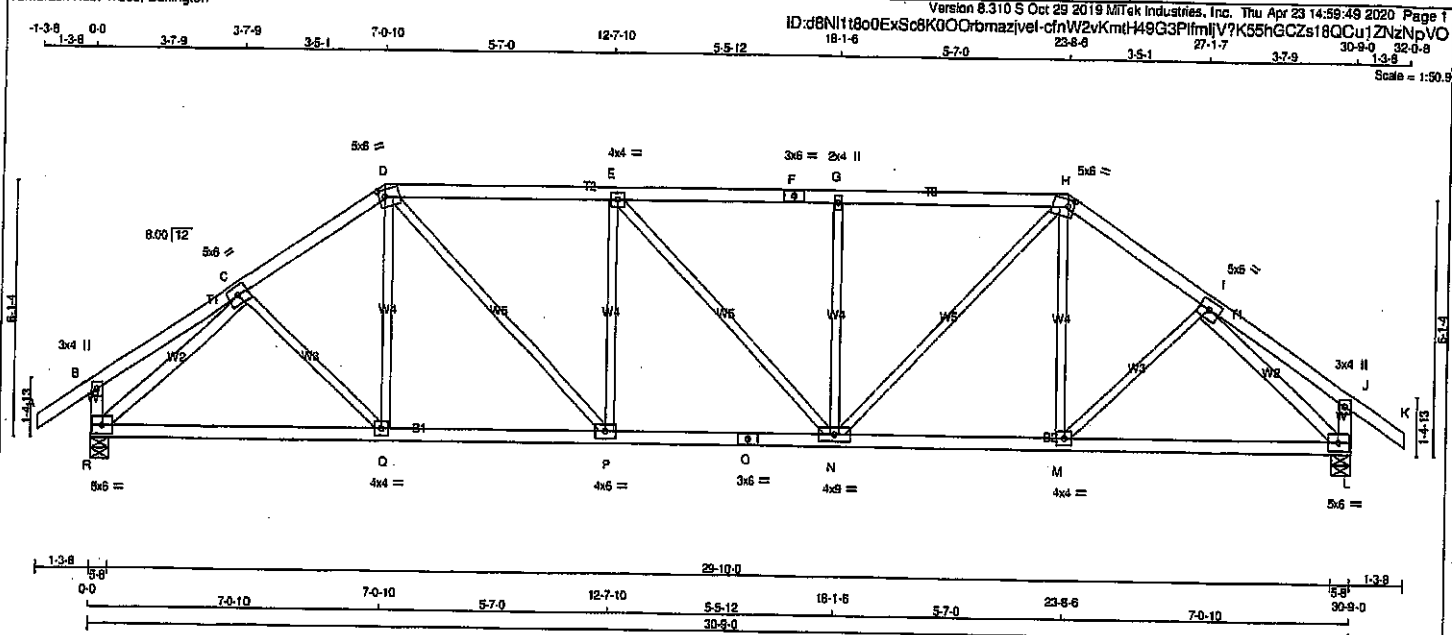
PSI GRIP= 0.90 (C) (INPUT = 0.90)

SI METAL= 0.90 (L) (INPUT = 1.00)



Structural component only
DWG# T-2006762

JOB NAME 408263	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:49 2020 Page 1	



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

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMWW-t	MT20	5.0	6.0
D	TTWW-m	MT20	5.0	6.0
E	TMWW-t	MT20	4.0	4.0
F	TS-t	MT20	3.0	6.0
G	TMW-w	MT20	2.0	4.0
H	TTWW-m	MT20	5.0	6.0
I	TMWW-t	MT20	5.0	6.0
J	TMV+p	MT20	3.0	4.0
L	BMVW-t	MT20	5.0	6.0
M	BMWW-t	MT20	4.0	4.0
N	BMWWW-t	MT20	4.0	6.0
O	BS-t	MT20	3.0	6.0
P	BMW-w	MT20	4.0	6.0
Q	BMW-w	MT20	4.0	4.0
R	BMVW-t	MT20	5.0	6.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD				
JT	VERT	HORZ	GROSS REACTION	BRG	BRG				
R	1821	0	1821	0	0	5-8	5-8		
L	1821	0	1821	0	0	5-8	5-8		
UNFACTORED REACTIONS									
1ST CASE	MAX	MIN	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERMILIVE	WIND	DEAD	SOIL		
R	1285	857 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0		
L	1285	857 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0		
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.08 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.									
LOADINGS									
TOTAL LOAD CASES: (4)									
CHORDS									
MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	LC1	MAX	MEMB.	MAX. FACTORED	FORCE	MAX
	(LBS)		(PLF)	CSI (LC)	UNBRAC		(LBS)		CSI (LC)
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	C-Q	0 / 71	0.02 (4)	
B-C	0 / 19	-91.8	-91.8	0.17 (1)	10.00	Q-D	0 / 108	0.04 (4)	
C-D	-1949 / 0	-91.8	-91.8	0.22 (1)	4.82	D-P	0 / 891	0.20 (1)	
D-E	-2223 / 0	-91.8	-91.8	0.50 (1)	4.06	P-E	-549 / 0	0.32 (1)	
E-F	-2221 / 0	-91.8	-91.8	0.50 (1)	4.06	E-N	-2 / 0	0.03 (1)	
F-G	-2221 / 0	-91.8	-91.8	0.50 (1)	4.06	N-G	-549 / 0	0.32 (1)	
G-H	-2221 / 0	-91.8	-91.8	0.50 (1)	4.07	H-H	0 / 889	0.20 (1)	
H-I	-1950 / 0	-91.8	-91.8	0.22 (1)	4.82	M-H	0 / 107	0.04 (4)	
I-J	0 / 19	-91.8	-91.8	0.17 (1)	10.00	M-I	0 / 71	0.02 (4)	
J-K	0 / 35	-91.8	-91.8	0.12 (1)	10.00	R-C	-2169 / 0	0.80 (1)	
R-B	-253 / 0	0.0	0.0	0.03 (1)	7.81	I-L	-2170 / 0	0.80 (1)	
L-J	-253 / 0	0.0	0.0	0.03 (1)	7.81				
R-O	0 / 1554	-18.5	-18.5	0.36 (1)	10.00				
Q-P	0 / 1605	-18.5	-18.5	0.37 (1)	10.00				
P-O	0 / 2223	-18.5	-18.5	0.41 (1)	10.00				
O-N	0 / 2223	-18.5	-18.5	0.41 (1)	10.00				
N-M	0 / 1605	-18.5	-18.5	0.37 (1)	10.00				
M-L	0 / 1554	-18.5	-18.5	0.36 (1)	10.00				

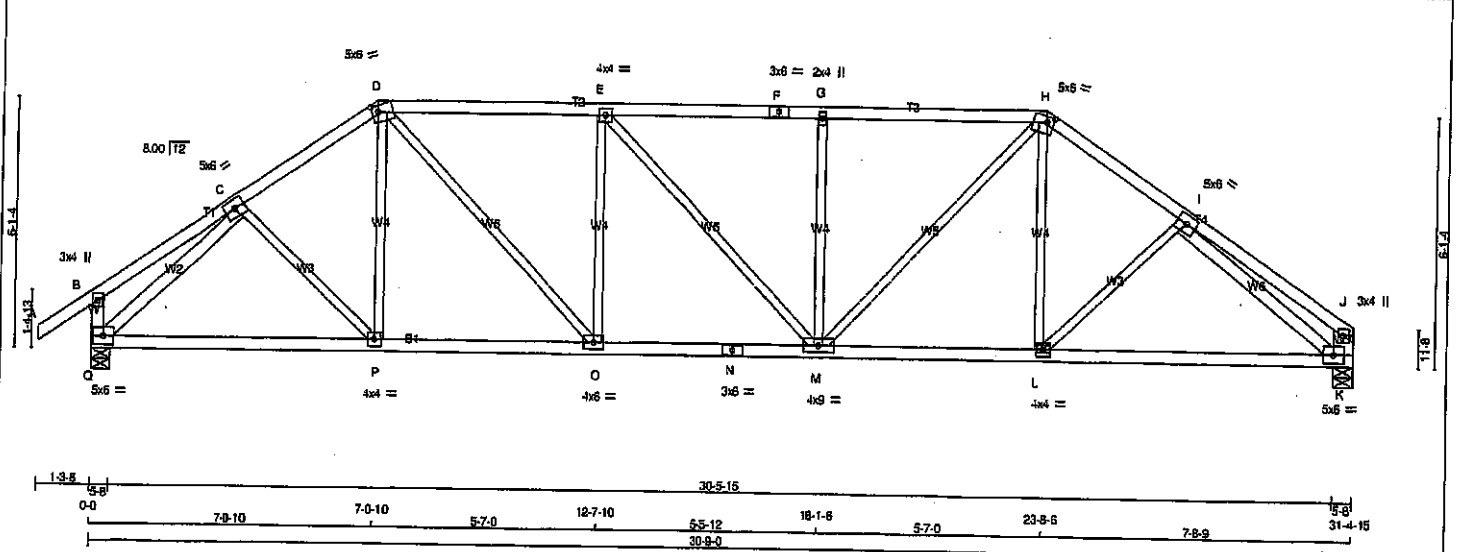
DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
SOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF
SPACING = 24.0 IN. C/C	
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM	
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015	
THIS DESIGN COMPLIES WITH:	
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019	
- PART 9 OF OBC 2012 (2019 AMENDMENT)	
- CSA 088-08, CSA 088-14	
- TPIC 2011, TPIC 2014	
(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD	
ALLOWABLE DEFL. (LL) = L/360 (1.02')	
CALCULATED VERT. DEFL. (LL) = L/989 (0.09')	
ALLOWABLE DEFL. (TL) = L/360 (1.02')	
CALCULATED VERT. DEFL. (TL) = L/989 (0.19')	
CSI: TO=0.50/1.00 (D-E:1), BC=0.41/1.00 (N-P:1), WS=0.60/1.00 (I-L:1), SS=0.24/1.00 (D-E:1)	
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10	
COMP=1.10 SHEAR=1.10 TENS=1.10	
COMPANION LIVE LOAD FACTOR = 1.00	
AUTOSOLVE HEELS OFF	
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.	
NAIL VALUES	
PLATE GRIP (DRY) SHEAR SECTION	
(PSI) (PLI) (PLI)	
MAX MIN MAX MIN MAX MIN	
MT20 618 354 1637 738 1987 1656	
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.85 (I) (INPUT = 0.90)	
JSI METAL= 0.73 (O) (INPUT = 1.00)	



Structural component only
DWG# T-2006763

JOB NAME 408263	TRUSS NAME T3X	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 6.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 23 14:59:50 2020 Page 1	

ID: d8N118a0ExSc8K00Orbmazjv4rLuFEL0eaC0uD xDUgy2DsGm5cHlHfHesea5p2NpVN
 13-8 0-0 3-7-9 3-7-9 3-5-1 7-0-10 5-7-0 12-7-10 18-1-5 5-5-12 5-7-0 3-5-1 27-1-7 30-0-0 31-5-0 32-0-6 30-0-0 31-5-0 32-0-6
 Scale = 1:51.9



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMVW-1	MT20	5.0	6.0
D	TTVW-m	MT20	5.0	6.0
E	TMVW-1	MT20	4.0	4.0
F	TS-1	MT20	3.0	6.0
G	TMVW-w	MT20	2.0	4.0
H	TTVW-m	MT20	5.0	6.0
I	TMVW-1	MT20	5.0	6.0
J	TMVW-w	MT20	3.0	4.0
K	BMVW-1	MT20	5.0	6.0
L	BMVW-1	MT20	4.0	4.0
M	BMVW-1	MT20	4.0	9.0
N	BS-1	MT20	3.0	6.0
O	BMVW-1	MT20	4.0	6.0
P	BMVW-1	MT20	4.0	4.0
Q	BMVW-1	MT20	5.0	6.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG	
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
Q	1845	0	1845	0	0	5-8	5-8
K	1727	0	1727	0	0	5-8	5-8
UNFACTORED REACTIONS							
	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1303	868 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0
K	1221	802 / 0	0 / 0	0 / 0	0 / 0	419 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, K							
BRACING							
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 FT.							
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.							
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.							

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					W E R S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	C-P	0 / 74	0.03 (4)		
B-C	0 / 19	-91.8	-91.8 0.17 (1)	10.00	P-D	0 / 105	0.04 (4)		
C-D	-1985 / 0	-91.8	-91.8 0.22 (1)	4.58	D-O	0 / 925	0.21 (1)		
D-E	-2275 / 0	-91.8	-91.8 0.51 (1)	4.02	O-E	-573 / 0	0.34 (1)		
E-F	-2296 / 0	-91.8	-91.8 0.51 (1)	4.00	E-M	0 / 30	0.01 (1)		
F-G	-2296 / 0	-91.8	-91.8 0.51 (1)	4.00	M-G	-548 / 0	0.32 (1)		
G-H	-2296 / 0	-91.8	-91.8 0.51 (1)	4.00	M-H	0 / 852	0.19 (1)		
H-I	-2071 / 0	-91.8	-91.8 0.26 (1)	4.46	L-H	0 / 191	0.05 (4)		
I-J	0 / 38	-91.8	-91.8 0.20 (1)	10.00	L-I	-67 / 31	0.03 (1)		
Q-B	-253 / 0	0.0	0.0 0.03 (1)	7.81	Q-C	-2204 / 0	0.61 (1)		
Q-P	0 / 1579	-18.5	-18.5 0.37 (1)	10.00	I-K	-2336 / 0	0.76 (1)		
P-O	0 / 1634	-18.5	-18.5 0.37 (1)	10.00	K-J	-140 / 0	0.01 (1)		
O-N	0 / 2275	-18.5	-18.5 0.42 (1)	10.00					
N-M	0 / 2275	-18.5	-18.5 0.42 (1)	10.00					
M-L	0 / 1705	-18.5	-18.5 0.40 (1)	10.00					
L-K	0 / 1750	-18.5	-18.5 0.41 (1)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.8 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2019
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.04")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
 ALLOWABLE DEFL.(TL) = L/360 (1.04")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TO=0.51/1.00 (D-E:1), BO=0.42/1.00 (M-O:1), WS=0.76/1.00 (I-K:1), SS=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 818 354 1867 786 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (C) (INPUT = 0.90)
 JSI METAL = 0.74 (N) (INPUT = 1.00)



Structural component only
 DWG# T-2006764

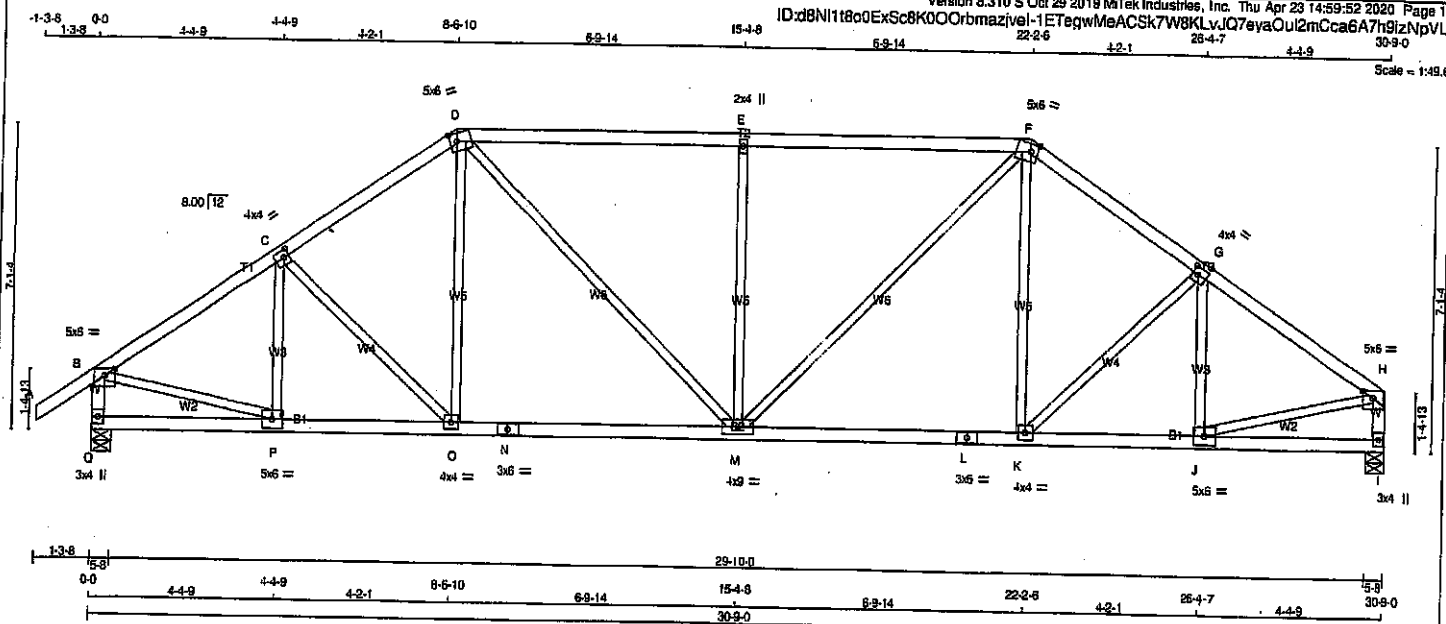
JOB NAME 408263	TRUSS NAME T4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2018 Mtek Industries, Inc. Thu Apr 23 14:59:52 2020 Page 1

ID:8NI118o0ExSc8K00Orbmazjvel-1ETegwMeACSk7W8KLvJQ7eyaOul2mCca6A7h9izNpVL

Scale = 1:49.6



LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

DESCR.

SPF
SPF
SPF
SPF
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	DOWN	IN-SX	IN-SX
Q	1821 0	1821 0	5-8	5-8
I	1895 0	1895 0	5-8	5-8

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1285	857 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0
I	1199	787 / 0	0 / 0	0 / 0	0 / 0	412 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LG1 (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-C	-332 / 0	0.08 (1)
B-C	-1950 / 0	-91.8	-91.8	0.26 (1)	4.50	C-D	-133 / 0	0.08 (1)
C-D	-1886 / 0	-91.8	-91.8	0.25 (1)	4.67	D-E	0 / 201	0.05 (4)
D-E	-1999 / 0	-91.8	-91.8	0.63 (1)	4.03	E-F	0 / 835	0.14 (1)
E-F	-1999 / 0	-91.8	-91.8	0.63 (1)	4.03	F-G	-789 / 0	0.67 (1)
F-G	-1886 / 0	-91.8	-91.8	0.25 (1)	4.67	G-H	0 / 835	0.14 (1)
G-H	-1950 / 0	-91.8	-91.8	0.26 (1)	4.50	H-I	0 / 201	0.05 (4)
H-I	-1783 / 0	0.0	0.0	0.18 (1)	6.26	I-J	-133 / 0	0.08 (1)
I-J	-1657 / 0	0.0	0.0	0.17 (1)	6.44	J-K	-332 / 0	0.08 (1)
						K-L	0 / 1692	0.38 (1)
						L-M	0 / 1692	0.38 (1)
						M-N	0 / 1549	0.10 (1)
						N-O	0 / 1549	0.10 (1)
						O-P	0 / 1549	0.10 (1)
						P-Q	0 / 1549	0.10 (1)
						Q-R	0 / 1549	0.10 (1)
						R-S	0 / 1549	0.10 (1)
						S-T	0 / 1549	0.10 (1)
						T-U	0 / 1549	0.10 (1)
						U-V	0 / 1549	0.10 (1)
						V-W	0 / 1549	0.10 (1)
						W-X	0 / 1549	0.10 (1)
						X-Y	0 / 1549	0.10 (1)
						Y-Z	0 / 1549	0.10 (1)
						Z-A	0 / 1549	0.10 (1)

TOTAL WEIGHT = 2 X 131 = 262 lb

(M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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 NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.02")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (1.02")
CALCULATED VERT. DEFL. (TL) = L/999 (0.16")

CSI: TC=0.83/1.00 (D-E-1), BC=0.34/1.00 (M-O-1),
WB=0.67/1.00 (E-M-1), SSI=0.30/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN MAX MIN	MAX MIN 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 = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.46 (N) (INPUT = 1.00)

PLATES (table is in inches)

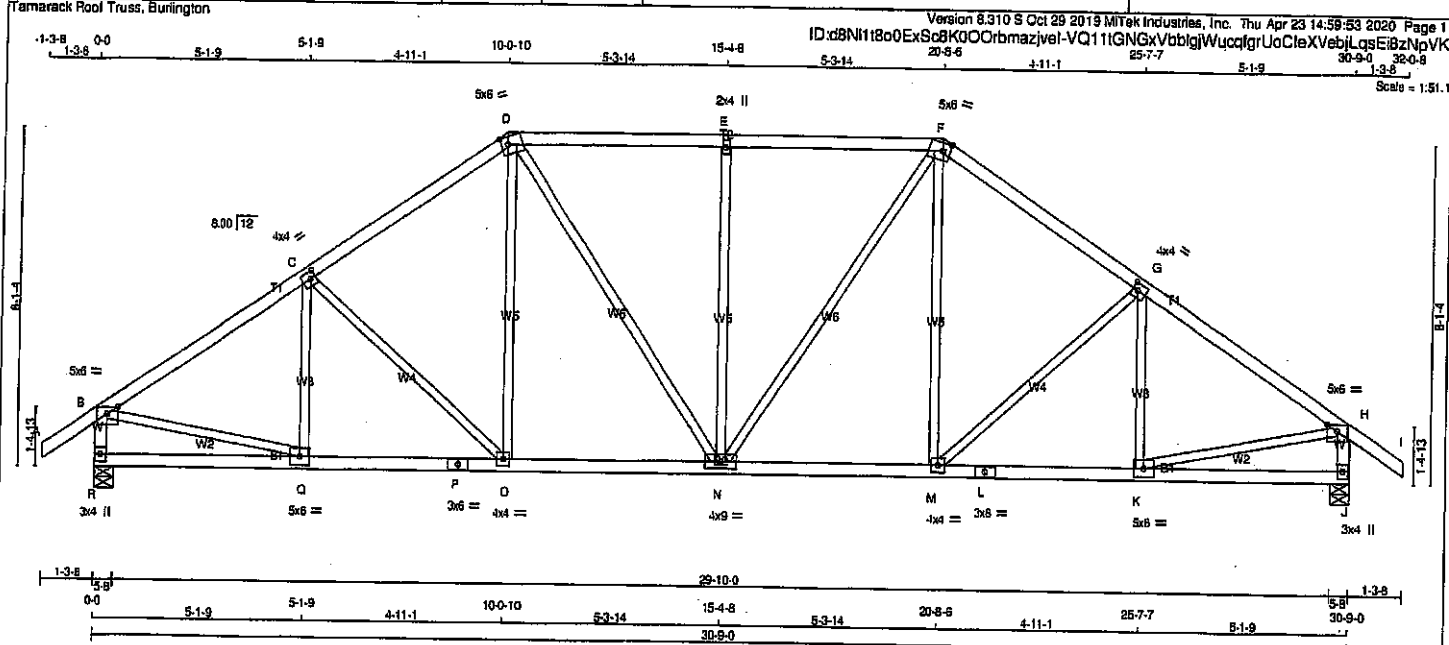
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	Edge	
I	BMV1-p	MT20	3.0	4.0		
J	BMVW-t	MT20	5.0	6.0		
K	BMVW-t	MT20	4.0	4.0		
L	BS-1	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BS-1	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0		
P	BMVW-t	MT20	5.0	6.0		
Q	BMV1-p	MT20	3.0	4.0		

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



Structural component only
DWG# T-2006785

JOB NAME 408263	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
R - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
R - P	2x4	DRY	No.2
P - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-i	MT20	4.0	4.0	2.00	1.50
D	TTVW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTVW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-i	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	Edge	
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-i	MT20	5.0	6.0		
L	BS-i	MT20	3.0	6.0		
M	BMVW-i	MT20	4.0	4.0		
N	BMVW-i	MT20	4.0	4.0		
O	BMVW-i	MT20	4.0	4.0		
P	BS-i	MT20	3.0	6.0		
Q	BMVW-i	MT20	5.0	6.0		
R	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	DOWN	UP	BRG	BRG
R	1821	0	1821	0	5-8
J	1821	0	1821	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN.	COMPONENT REACTIONS	PERMIVE	WIND	DEAD	SOIL
R	COMBINED	SNOW	LIVE				
R	1285	857 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0
J	1285	857 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.48 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	VERT. LOAD	LC1	MEMB.	MAX. FACTORED	VERT. LOAD	LC1
	(LBS)	(PLF)	(LC)		(LBS)	(LBS)	(LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	C-C	-254 / 0
B-C	-1987 / 0	-91.8	-91.8	0.36 (1)	4.46	C-O	-275 / 0
C-D	-1804 / 0	-91.8	-91.8	0.34 (1)	4.64	O-D	0 / 291
D-E	-1712 / 0	-91.8	-91.8	0.37 (1)	4.69	D-N	0 / 418
E-F	-1712 / 0	-91.8	-91.8	0.37 (1)	4.69	N-E	-595 / 0
F-G	-1804 / 0	-91.8	-91.8	0.34 (1)	4.64	N-F	0 / 418
G-H	-1987 / 0	-91.8	-91.8	0.36 (1)	4.46	M-F	0 / 281
H-I	0 / 35	-91.8	-91.8	0.12 (1)	10.00	M-G	-275 / 0
R-B	-1780 / 0	0.0	0.0	0.18 (1)	6.26	K-G	-254 / 0
J-H	-1780 / 0	0.0	0.0	0.18 (1)	6.26	B-Q	0 / 1715
R-Q	0 / 0	-18.5	-18.5	0.10 (4)	10.00	K-H	0 / 1715
Q-P	0 / 1678	-18.5	-18.5	0.32 (1)	10.00		
P-O	0 / 1678	-18.5	-18.5	0.32 (1)	10.00		
O-N	0 / 1477	-18.5	-18.5	0.29 (1)	10.00		
N-M	0 / 1477	-18.5	-18.5	0.29 (1)	10.00		
M-L	0 / 1678	-18.5	-18.5	0.32 (1)	10.00		
L-K	0 / 1678	-18.5	-18.5	0.32 (1)	10.00		
K-J	0 / 0	-18.5	-18.5	0.10 (4)	10.00		

TOTAL WEIGHT = 2 X 139 = 279 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.37/1.00 (D-E:1), BC=0.32/1.00 (K-M:1), WB=0.75/1.00 (E-N:1), SSI=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.49 (P) (INPUT = 1.00)



Structural component only
DWG# T-2006766



Structural component only
DWG# T-2006767

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	518 354	1667 768	1987 1658

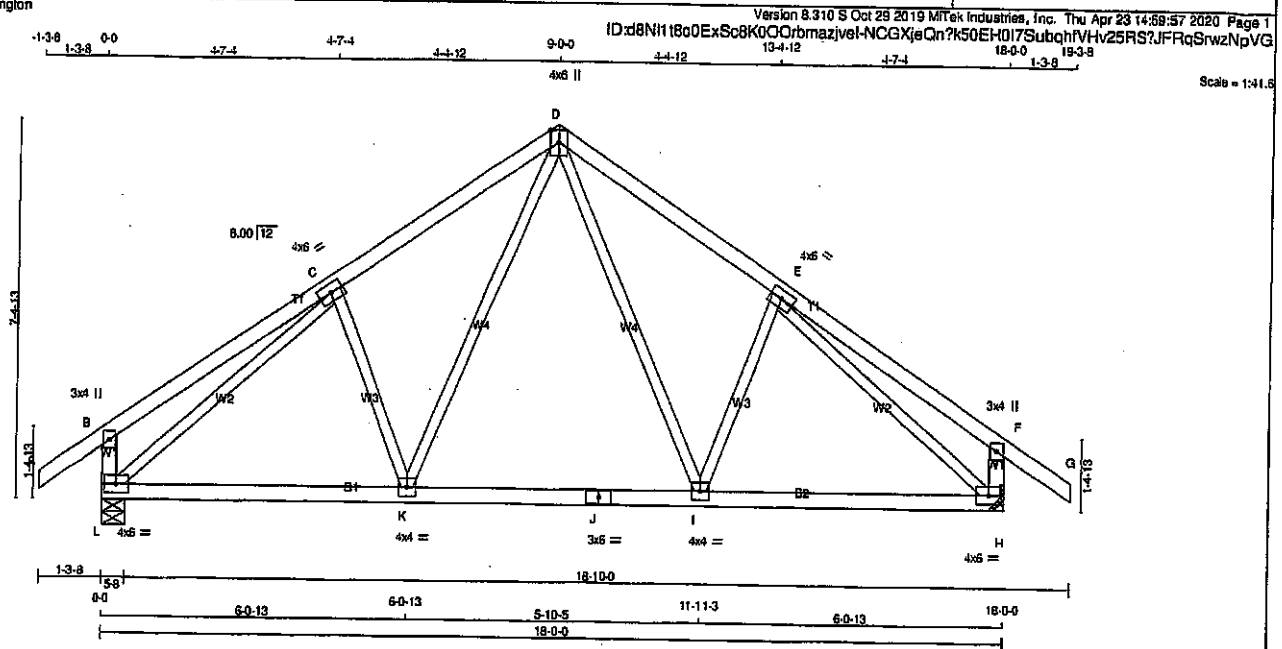
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.56 (K) (INPUT = 1.00)

Structural component only
DWG# T-2006768

JOB NAME 408263	TRUSS NAME T6	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
L - B	2x4	DRY No.2	SPF
H - F	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
J - H	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	TMV+p	MT20	3.0	4.0		
C	TMVW-1	MT20	4.0	6.0		
D	TTVW+p	MT20	4.0	6.0	Edge	
E	TMVW-1	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW-1	MT20	4.0	6.0		
I	BMVW-1	MT20	4.0	4.0		
J	BS-1	MT20	3.0	6.0		
K	BMVW-1	MT20	4.0	4.0		
L	BMVW-1	MT20	4.0	6.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
L	1118	0	1118	0
H	1118	0	1118	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
L	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
L	788	531 / 0	0 / 0	0 / 0	258 / 0	0 / 0
H	788	531 / 0	0 / 0	0 / 0	258 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.05 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	D-I	0 / 387	0.08 (1)
B-C	0 / 27	-91.8	-91.8 0.30 (1)	10.00	I-E	-255 / 0	0.08 (1)
C-D	-959 / 0	-91.8	-91.8 0.24 (1)	6.05	K-D	0 / 387	0.09 (1)
D-E	-959 / 0	-91.8	-91.8 0.24 (1)	6.05	C-K	-255 / 0	0.08 (1)
E-F	0 / 27	-91.8	-91.8 0.30 (1)	10.00	L-C	-1174 / 0	0.73 (1)
F-G	0 / 35	-91.8	-91.8 0.12 (1)	10.00	E-H	-1174 / 0	0.73 (1)
L-B	-283 / 0	0.0	0.0 0.03 (1)	7.81			
H-F	-283 / 0	0.0	0.0 0.03 (1)	7.81			
L-K	0 / 869	-18.5	-18.5 0.22 (4)	10.00			
K-J	0 / 828	-18.5	-18.5 0.20 (4)	10.00			
J-I	0 / 828	-18.5	-18.5 0.20 (4)	10.00			
I-H	0 / 869	-18.5	-18.5 0.22 (4)	10.00			

TOTAL WEIGHT = 2 X 79 = 159 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
DL = 6.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.4	PSF	
TOTAL LOAD	= 38.0	PSF

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.60')
CALCULATED VERT. DEFL. (LL) = L/999 (0.03')
ALLOWABLE DEFL. (TL) = L/360 (0.60')
CALCULATED VERT. DEFL. (TL) = L/999 (0.06')

CSI: TC=0.30/1.00 (E-F-1), BC=0.22/1.00 (H-I-4), WB=0.73/1.00 (E-H-1), SSI=0.17/1.00 (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)
MT20	618	354	1867
	788	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

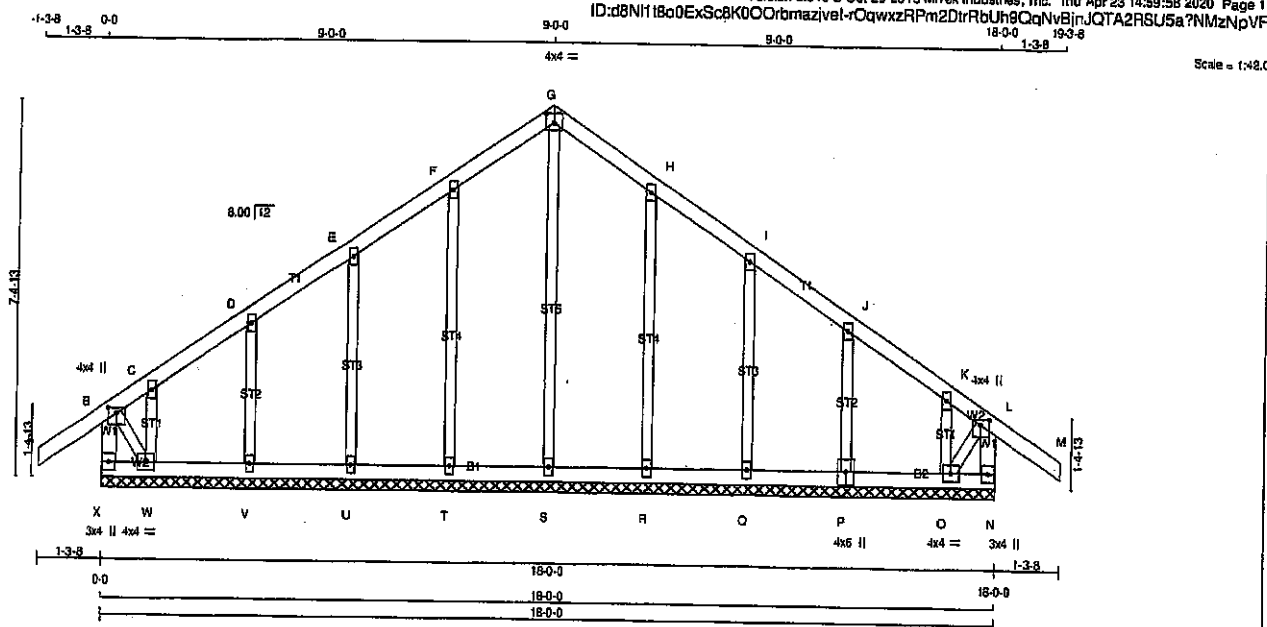
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (E) (INPUT = 0.80)
JSI METAL = 0.20 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006769

JOB NAME 408263	TRUSS NAME T6G	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES
CHORDS SIZE
X - B 2x4 DRY No.2
A - G 2x4 DRY No.2
G - M 2x4 DRY No.2
N - L 2x4 DRY No.2
X - P 2x4 DRY No.2
P - N 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" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C, D, E, F, H, I, J, K						
C	TMVW+w	MT20	2.0	4.0		
G	TMVW+p	MT20	4.0	4.0	2.25	2.00
L	TMVW+p	MT20	4.0	4.0	1.25	2.00
N	BMVW+p	MT20	3.0	4.0		
O	BMVW1+1	MT20	4.0	4.0		
P	BSW1+1	MT20	4.0	5.0		
Q, R, S, T, U, V						
Q	BMVW1+w	MT20	2.0	4.0		
W	BMVW1+1	MT20	4.0	4.0		
X	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO		
X-B	-282 / 0	0.0	0.0 (1)	7.81	S-G	-146 / 0	0.14 (1)
A-B	0 / 35	-91.8	-91.8 (1)	10.00	T-F	-209 / 0	0.12 (1)
B-C	-68 / 0	-91.8	-91.8 (1)	6.25	U-E	-173 / 0	0.06 (1)
C-D	-15 / 0	-91.8	-91.8 (1)	6.25	V-D	-194 / 0	0.04 (1)
D-E	-15 / 0	-91.8	-91.8 (1)	6.25	W-C	-41 / 0	0.01 (1)
E-F	-8 / 0	-91.8	-91.8 (1)	10.00	R-H	-209 / 0	0.12 (1)
F-G	-18 / 0	-91.8	-91.8 (1)	6.25	Q-I	-173 / 0	0.06 (1)
G-H	-18 / 0	-91.8	-91.8 (1)	6.25	P-J	-194 / 0	0.04 (1)
H-I	-8 / 0	-91.8	-91.8 (1)	10.00	C-K	-41 / 0	0.01 (1)
I-J	-16 / 0	-91.8	-91.8 (1)	6.25	B-W	0 / 28	0.01 (1)
J-K	-15 / 0	-91.8	-91.8 (1)	6.25	O-L	0 / 29	0.01 (1)
K-L	-68 / 0	-91.8	-91.8 (1)	6.25			
L-M	0 / 35	-91.8	-91.8 (1)	10.00			
N-L	-282 / 0	0.0	0.0 (1)	7.81			
X-W	0 / 0	-18.5	-18.5 (4)	10.00			
W-V	0 / 17	-18.5	-18.5 (4)	10.00			
V-U	0 / 12	-18.5	-18.5 (4)	10.00			
U-T	0 / 9	-18.5	-18.5 (4)	10.00			
T-S	0 / 6	-18.5	-18.5 (4)	10.00			
S-R	0 / 6	-18.5	-18.5 (4)	10.00			
R-Q	0 / 9	-18.5	-18.5 (4)	10.00			
Q-P	0 / 12	-18.5	-18.5 (4)	10.00			
P-O	0 / 17	-18.5	-18.5 (4)	10.00			
O-N	0 / 0	-18.5	-18.5 (4)	10.00			

TOTAL WEIGHT = 81 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (P-Q:4), WB=0.14/1.00 (G-S:1), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

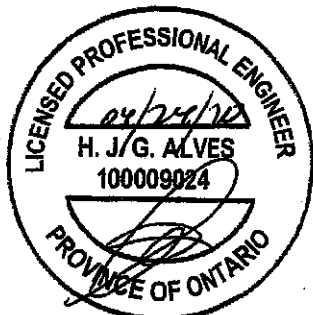
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1967 1656

PLATE PLACEMENT TOL. = 0.250 inches

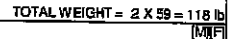
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (W) (INPUT = 0.90)
JSI METAL= 0.11 (H) (INPUT = 1.00)



Structural component only
DWG# T-2006770

Structural component only
DWG# T-2006771



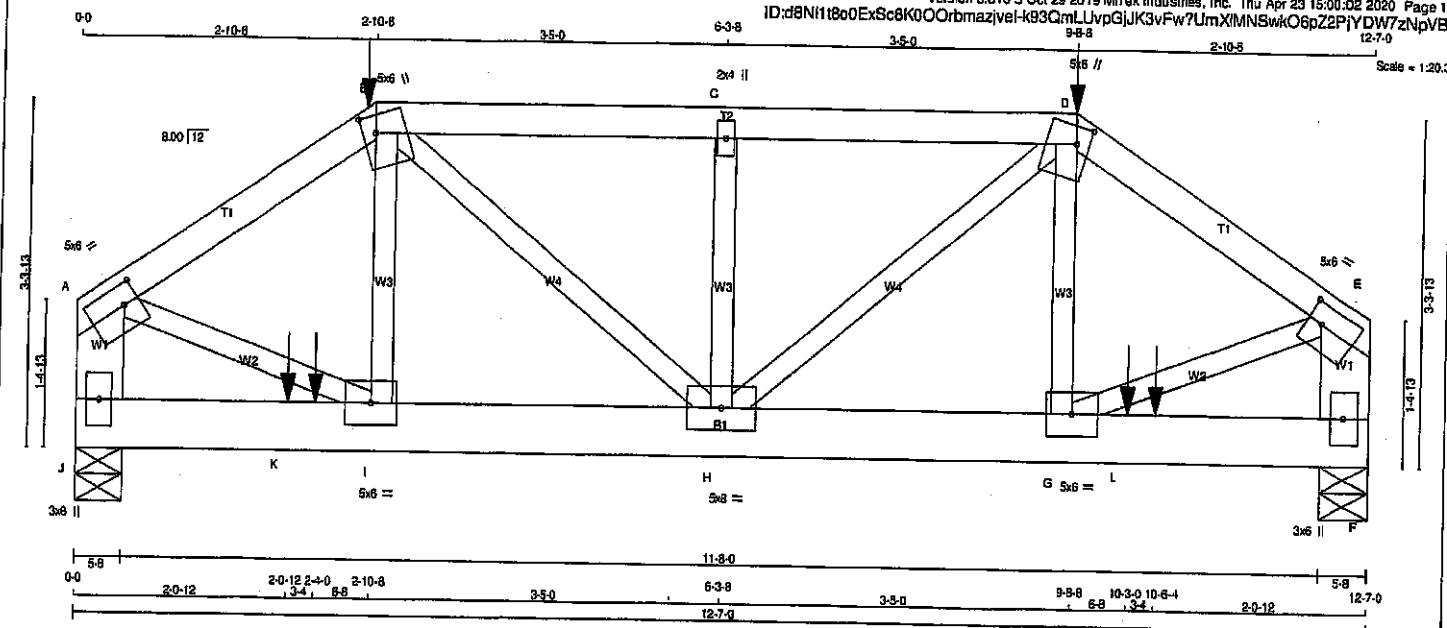
JSI GRIP= 0.63 (B) (INPUT = 0.90)
JSI METAL= 0.29 (L) (INPUT = 1.00)

Structural component only
DWG# T-2006772

JOB NAME 408263	TRUSS NAME T8	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 2019 MITek Industries, Inc. Thu Apr 23 15:00:02 2020 Page 1
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LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
J - A	2x6	DRY	No.2
F - E	2x6	DRY	No.2
J - F	2x6	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - TMVW-t	MT20	5.0	6.0	2.25	1.75
B - TTWW+m	MT20	5.0	6.0	2.00	1.50
C - TMVW+m	MT20	2.0	4.0		
D - TTWW+m	MT20	5.0	6.0	2.00	1.50
E - TMVW-t	MT20	5.0	6.0	2.25	1.75
F - BMVt-p	MT20	3.0	6.0		
G - BMVW-t	MT20	5.0	6.0		
H - BMVW-t	MT20	5.0	6.0		
I - BMVW-t	MT20	5.0	6.0		
J - BMVt-p	MT20	3.0	6.0		

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
J 1542	0	1542	0
F 1512	0	1512	0

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	1063	752 / 0	0 / 0	0 / 0	0 / 0	330 / 0	0 / 0
F	1062	737 / 0	0 / 0	0 / 0	0 / 0	324 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 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)	VERT. LOAD	LC1	MAX. FACTORED	FORCE (LBS)	CS1 (LC)	UNBRAC	WEBS	MEMB.	MAX. FACTORED	FORCE (LBS)	CS1 (LC)
FR-TO														
A-B	-1461 / 0	-91.8	-91.8	0.18	(1)	5.20	I-B	0 / 285	0.07	(1)				
B-C	-1403 / 0	-91.8	-91.8	0.21	(1)	5.24	B-H	0 / 238	0.06	(1)				
C-D	-1403 / 0	-91.8	-91.8	0.21	(1)	5.24	H-C	-370 / 0	0.07	(1)				
D-E	-1488 / 0	-91.8	-91.8	0.18	(1)	5.16	H-D	0 / 207	0.05	(1)				
J-A	-1352 / 0	0.0	0.0	0.10	(1)	7.81	G-D	0 / 500	0.07	(1)				
F-E	-1375 / 0	0.0	0.0	0.10	(1)	7.81	A-I	0 / 1279	0.32	(1)				
J-K	0 / 0	-18.5	-18.5	0.26	(1)	10.00	G-E	0 / 1303	0.32	(1)				
K-I	0 / 0	-18.5	-18.5	0.26	(1)	10.00								
I-H	0 / 1222	-18.5	-18.5	0.26	(1)	10.00								
H-G	0 / 1246	-18.5	-18.5	0.25	(1)	10.00								
G-L	0 / 0	-18.5	-18.5	0.20	(1)	10.00								
L-F	0 / 0	-18.5	-18.5	0.20	(1)	10.00								

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-10-8	-135	-135	---	BACK	VERT	TOTAL	---	C1
D	9-8-8	-135	-135	---	BACK	VERT	TOTAL	---	C1
K	2-0-12	-9	-9	---	BACK	VERT	TOTAL	---	C1
L	2-4-0	-689	-689	---	BACK	VERT	TOTAL	---	C1
L	10-3-0	-689	-689	---	BACK	VERT	TOTAL	---	C1
L	10-8-4	-9	-9	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.21/1.00 (C-D:1), BC=0.28/1.00 (H-I:1), WB=0.32/1.00 (E-G:1), SS=0.41/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

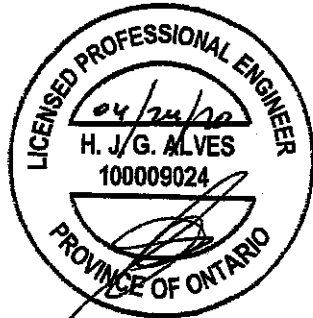
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1858

PLATE PLACEMENT TOL = 0.250 inches

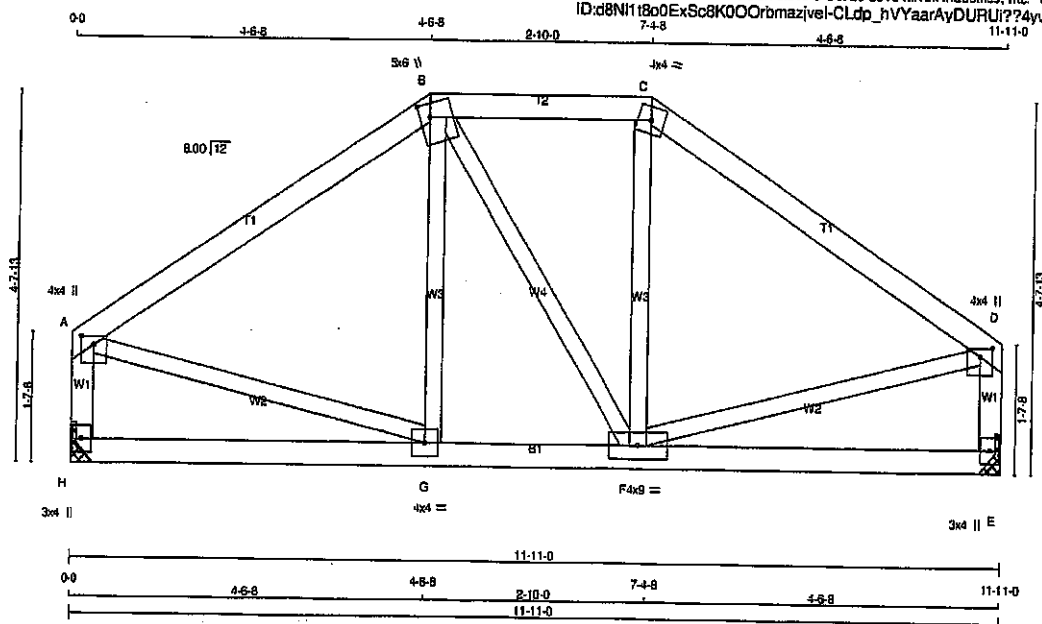
PLATE ROTATION TOL = 5.0 Deg.

J/SI GRIP= 0.89 (E) (INPUT = 0.90)
J/SI METAL= 0.39 (A) (INPUT = 1.00)



Structural component only
DWG# T-2006773

JOB NAME 408263	TRUSS NAME T9	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Trusses, Burlington					



TOTAL WEIGHT = 50 lb

LUMBER

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
B	TTWW+m	MT20	5.0	5.0	2.00	1.50
C	TTW-m	MT20	4.0	4.0		
D	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMV1+p	MT20	3.0	4.0		
F	BMVWW-i	MT20	4.0	9.0		
G	BMVWW-i	MT20	4.0	4.0		
H	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
H	657	0	657	0
E	657	0	657	0

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	465	305 / 0	0 / 0	0 / 0	0 / 0	180 / 0	0 / 0
E	465	305 / 0	0 / 0	0 / 0	0 / 0	180 / 0	0 / 0

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	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LOAD LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO						FR-TO		
A-B	-521 / 0	-91.8	-91.8	0.25 (1)	6.25	G-B	-49 / 39	0.02 (1)
B-C	-432 / 0	-91.8	-91.8	0.10 (1)	6.25	B-F	0 / 2	0.00 (4)
C-D	-523 / 0	-91.8	-91.8	0.25 (1)	6.25	F-C	-48 / 40	0.02 (1)
H-A	-620 / 0	0.0	0.0	0.07 (1)	7.81	A-G	0 / 450	0.10 (1)
E-D	-619 / 0	0.0	0.0	0.07 (1)	7.81	F-D	0 / 450	0.10 (1)
H-G	0 / 0	-18.5	-18.5	0.08 (4)	10.00			
G-F	0 / 432	-18.5	-18.5	0.11 (4)	10.00			
F-E	0 / 0	-18.5	-18.5	0.08 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
DL = 6.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.4	PSF	
TOTAL LOAD	= 38.0	PSF

SPACING = 24.0 IN./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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.25/1.00 (C-D:1), BC=0.11/1.00 (F-G:4), WB=0.10/1.00 (D-F:1), SS=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX	MIN	MAX
MT20	618	354
	1657	789
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

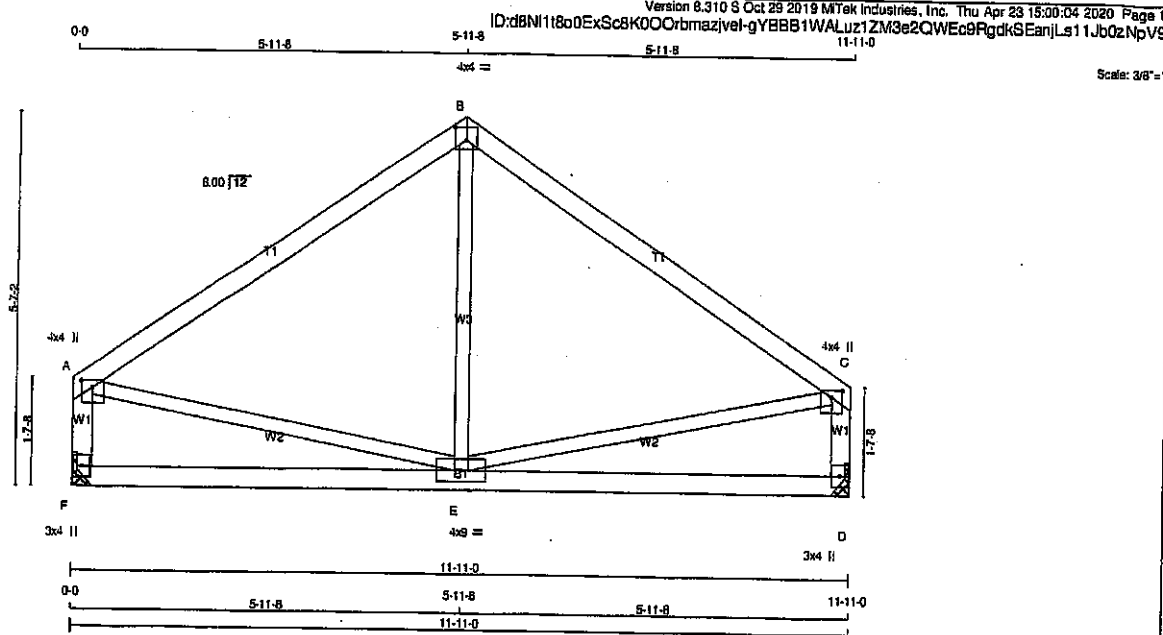
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (G) (INPUT = 0.90)
JSI METAL= 0.16 (G) (INPUT = 1.00)



Structural component only
DWG# T-2006774

JOB NAME 408263	TRUSS NAME T10	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW+p	MT20	4.0	4.0	1.25 2.00
B	TTW-p	MT20	4.0	4.0	2.25 2.00
C	TMVW+p	MT20	4.0	4.0	1.25 2.00
D	BMV1+p	MT20	3.0	4.0	
E	BMVWW-1	MT20	4.0	9.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
F	657	0	657	0	0
D	657	0	657	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
F	485	305 / 0	0 / 0
D	485	305 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT.	LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO					FR-TO	
A-B	-483 / 0	-91.8	-91.8	0.42 (1)	E-B	-33 / 91
B-C	-483 / 0	-91.8	-91.8	0.42 (1)	A-E	0 / 395
F-A	-815 / 0	0.0	0.0	0.07 (1)	E-C	0 / 395
D-C	-815 / 0	0.0	0.0	0.07 (1)		
F-E	0 / 0	-18.5	-18.5	0.19 (4)		
E-D	0 / 0	-18.5	-18.5	0.19 (4)		

TOTAL WEIGHT = 2 X 46 = 92 lb

DESIGN CRITERIA

SPECIFIED LOADS:	
TOP CH.	LL = 25.6 PSF
DL	= 6.0 PSF
BOT CH.	LL = 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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 NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.42/1.00 (B-C:1), BC=0.19/1.00 (E-F:4), WB=0.09/1.00 (A-E:1), SB=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	618	354	1657

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.49 (C) (INPUT = 0.30)
JSI METAL= 0.14 (A) (INPUT = 1.00)



Structural component only
DWG# T-2006775

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 23 15:00:05 2020 Page 1
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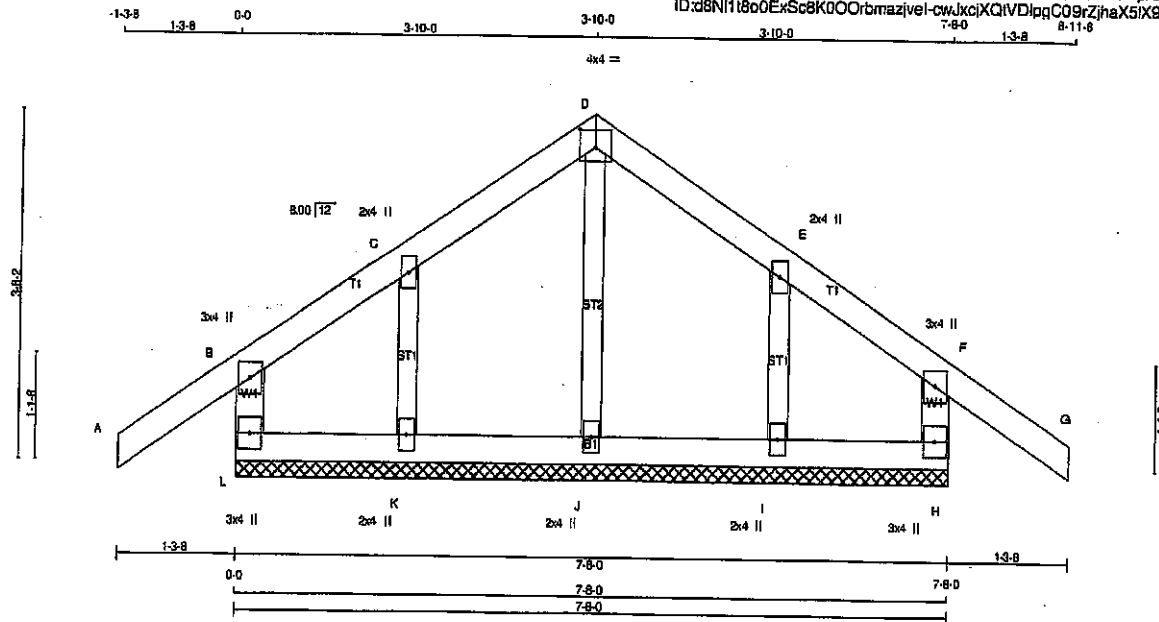


JOB NAME 408263	TRUSS NAME T11G	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:00:06 2020 Page 1
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8-11-8

Scale = 1:32.4



LUMBER

N. L. G. A. RULES

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

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
L-B	-204 / 0	0.0 0.0 0.05 (1)	7.81	J-D	-252 / 0	0.05 (1)	
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	K-C	-148 / 0	0.02 (1)	
B-C	0 / 27	-91.8 -91.8 0.08 (1)	10.00	I-E	-148 / 0	0.02 (1)	
C-D	0 / 47	-91.8 -91.8 0.06 (1)	10.00				
D-E	0 / 47	-91.8 -91.8 0.06 (1)	10.00				
E-F	0 / 27	-91.8 -91.8 0.08 (1)	10.00				
F-G	0 / 35	-91.8 -91.8 0.12 (1)	10.00				
H-F	-204 / 0	0.0 0.0 0.05 (1)	7.81				
L-K	-30 / 0	-18.5 -18.5 0.01 (4)	6.25				
K-J	-36 / 0	-18.5 -18.5 0.01 (4)	6.25				
J-I	-36 / 0	-18.5 -18.5 0.01 (4)	6.25				
I-H	-30 / 0	-18.5 -18.5 0.01 (4)	6.25				

TOTAL WEIGHT = 2 X 30 = 60 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
BOT CH.	DL	=	8.0	PSF
	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (A-B:1), BC=0.01/1.00 (J-K:4),
WB=0.05/1.00 (D-J:1), SS=0.08/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667 788 1887 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (D) (INPUT = 0.90)
JSI METAL= 0.08 (D) (INPUT = 1.00)



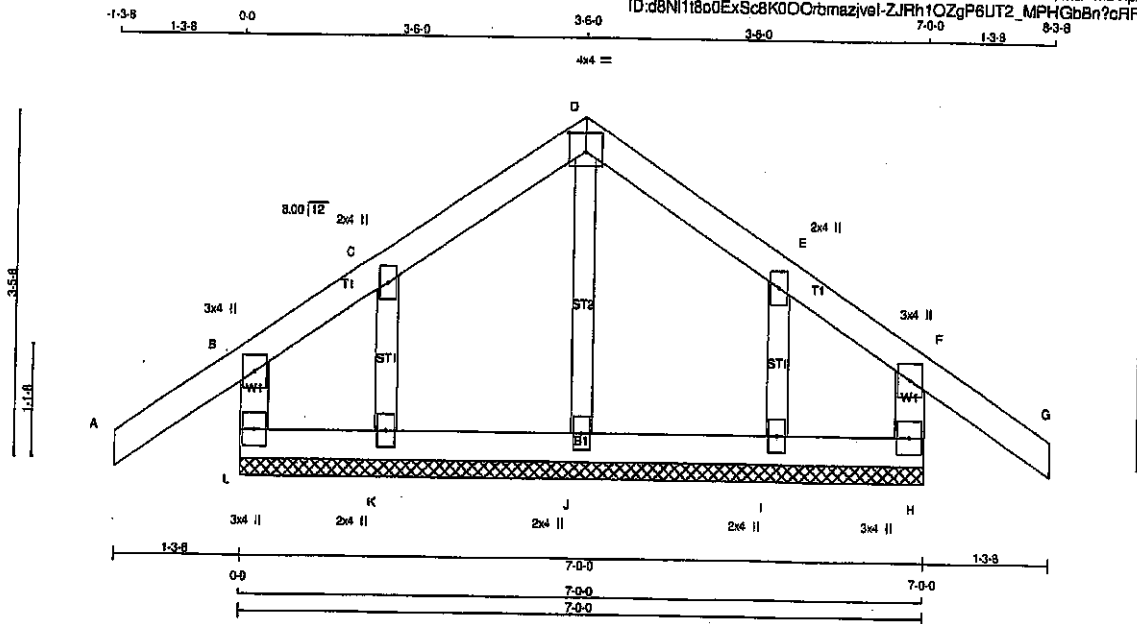
Structural component only
DWG# T-2006777

JOB NAME 408263	TRUSS NAME T12G	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:00:08 2020 Page 1

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Scale = 1:21.3



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2

ALL GABLE WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER:

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
L-B	-189 / 0	0.0 0.0 0.05 (1)	7.81	J-D	-263 / 0	0.05 (1)	
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	K-C	-127 / 0	0.02 (1)	
B-C	0 / 30	-91.8 -91.8 0.07 (1)	10.00	I-E	-127 / 0	0.02 (1)	
C-D	0 / 54	-91.8 -91.8 0.08 (1)	10.00				
D-E	0 / 54	-91.8 -91.8 0.08 (1)	10.00				
E-F	0 / 30	-91.8 -91.8 0.07 (1)	10.00				
F-G	0 / 35	-91.8 -91.8 0.12 (1)	10.00				
H-F	-189 / 0	0.0 0.0 0.05 (1)	7.81				
L-K	-35 / 0	-18.5 -18.5 0.01 (4)	6.25				
K-J	-41 / 0	-18.5 -18.5 0.02 (4)	6.25				
J-I	-41 / 0	-18.5 -18.5 0.02 (4)	6.25				
I-H	-35 / 0	-18.5 -18.5 0.01 (4)	6.25				

TOTAL WEIGHT = 28 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
DL = 6.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.4	PSF	
TOTAL LOAD = 39.0	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (F-G:1), BC=0.02/1.00 (J-K:4), WB=0.05/1.00 (D-J:1), SS=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (D) (INPUT = 0.80)
JSI METAL= 0.08 (D) (INPUT = 1.00)



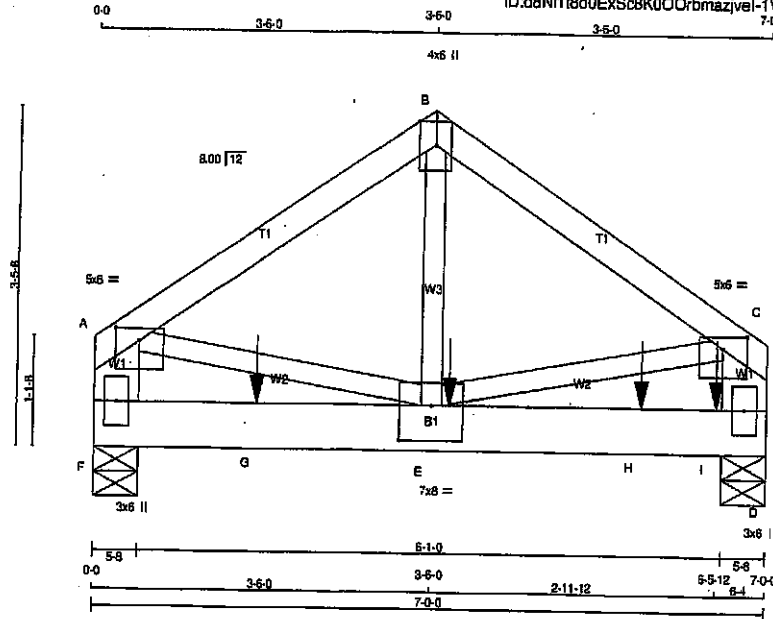
Structural component only
DWG# T-2006778

JOB NAME 408263	TRUSS NAME T13	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:00:09 2020 Page 1
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Scale = 1:21.7



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
F - A	2x6	DRY	No.2	SPF
D - C	2x6	DRY	No.2	SPF
F - D	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B 1	12	TOP
B-C 1	12	TOP
F-A 2	12	TOP
D-C 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	6.0	1.50 3.00
B	TTW-p	MT20	4.0	6.0	Edge
C	TMVW-p	MT20	5.0	6.0	1.50 3.00
D	BMV1-p	MT20	3.0	6.0	
E	BMVWV-t	MT20	7.0	8.0	4.25 4.00
F	BMV1-p	MT20	3.0	6.0	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
F	2945	0	2945	0
D	4561	0	4581	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	2080	1380 / 0	0 / 0	0 / 0	0 / 0	700 / 0	0 / 0
D	3221	2136 / 0	0 / 0	0 / 0	0 / 0	1085 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
FR-TO													
A-B	-2975 / 0	-91.8	-91.8	0.14 (1)	5.21	E-B	0 / 2380	0.37 (1)					
B-C	-2975 / 0	-91.8	-91.8	0.14 (1)	5.21	A-E	0 / 2527	0.31 (1)					
F-A	-2319 / 0	0.0	0.0	0.08 (1)	7.81	E-C	0 / 2527	0.31 (1)					
D-C	-2319 / 0	0.0	0.0	0.08 (1)	7.81								
F-G	0 / 0	-18.5	-18.5	0.38 (1)	10.00								
G-E	0 / 0	-18.5	-18.5	0.38 (1)	10.00								
E-H	0 / 0	-18.5	-18.5	0.59 (1)	10.00								
H-I	0 / 0	-18.5	-18.5	0.59 (1)	10.00								
I-D	0 / 0	-18.5	-18.5	0.59 (1)	10.00								

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
E	3-8-4	-1682	-1682	---	TOP	VERT	TOTAL	C1
G	1-8-4	-1682	-1682	---	TOP	VERT	TOTAL	C1
H	5-8-4	-1682	-1682	---	TOP	VERT	TOTAL	C1
I	8-5-12	-1687	-1687	---	TOP	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 2 X 32 = 64 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.23")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.03")
ALLOWABLE DEFL.(TL) = $L/360$ (0.23")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

CSI: TO-0.14/1.00 (A-B:1), BC-0.59/1.00 (D-E:1), WB-0.37/1.00 (B-E:1), SSI-0.74/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	PLATE GRIP (PSI)	SHEAR (PL)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1897 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

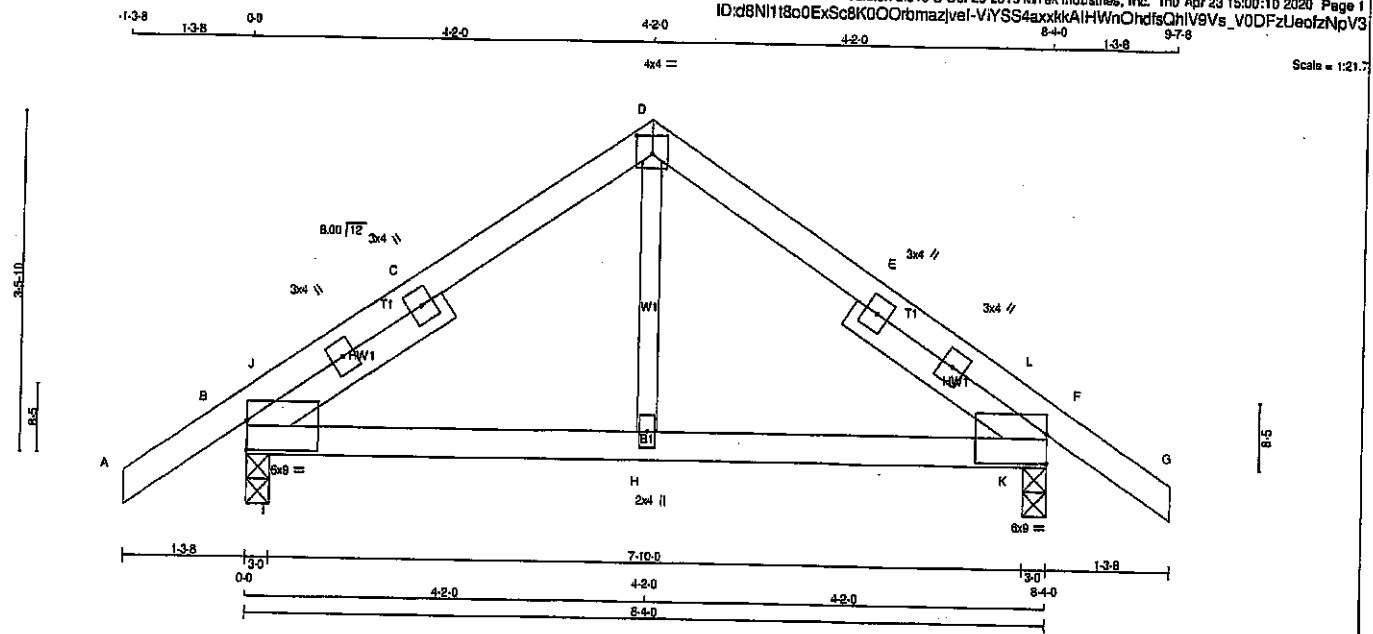
JSI GRIP = 0.83 (E) (INPUT = 0.90)
JSI METAL = 0.35 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006779

JOB NAME 408263	TRUSS NAME T14	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTEx Industries, Inc. Thu Apr 23 15:00:10 2020 Page 1
 ID: d8N118c0ExSc8K000rbmazjel-VIYSS4axxkAlHwHndfsQhV9Vs_V0DFzUeozfzNpV3



LUMBER
N. L. G. A. RULES

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

REINFORCING MEMBERS

HW1	2x4	DRY	No.2
HW2	2x4	DRY	No.2

ALL WEBS 2x3 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMR1-I	MT20	6.0	9.0	3.50	
B, B, F, F						
B	RT-I	MT20	3.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
F	TMBMR1-I	MT20	6.0	9.0	3.50	
H	BMW-w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	585	0	585	0	3-0	3-0
F	585	0	585	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	412	283 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0
F	412	283 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 23	-91.8	-91.8	10.00	H-D	0 / 162	0.04 (1)
B-J	-245 / 0	-91.8	-91.8	0.05 (1)	I-J	-97 / 52	0.00 (1)
J-C	-306 / 0	-91.8	-91.8	0.14 (1)	I-C	-230 / 0	0.03 (1)
C-D	-306 / 0	-91.8	-91.8	0.14 (1)	K-L	-97 / 52	0.00 (1)
D-E	-306 / 0	-91.8	-91.8	0.14 (1)	K-E	-230 / 0	0.03 (1)
E-L	-306 / 0	-91.8	-91.8	0.14 (1)			
L-F	-245 / 0	-91.8	-91.8	0.05 (1)			
F-G	0 / 23	-91.8	-91.8	0.12 (1)			
B-I	0 / 175	-18.5	-18.5	0.15 (1)			
I-H	0 / 332	-18.5	-18.5	0.17 (1)			
H-K	0 / 332	-18.5	-18.5	0.17 (1)			
K-F	0 / 175	-18.5	-18.5	0.15 (1)			

TOTAL WEIGHT = 3 X 33 = 99 lb

DESIGN CRITERIA

SPECIFIED LOADS:	
TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, CBC 2012, ABC 2018
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.26")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.14/1.00 (D-J:1), BC=0.17/1.00 (H-K:1), WB=0.04/1.00 (D-H:1), GS=0.20/1.00 (B-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.27 (D) (INPUT = 0.90)
 JSI METAL = 0.17 (F) (INPUT = 1.00)



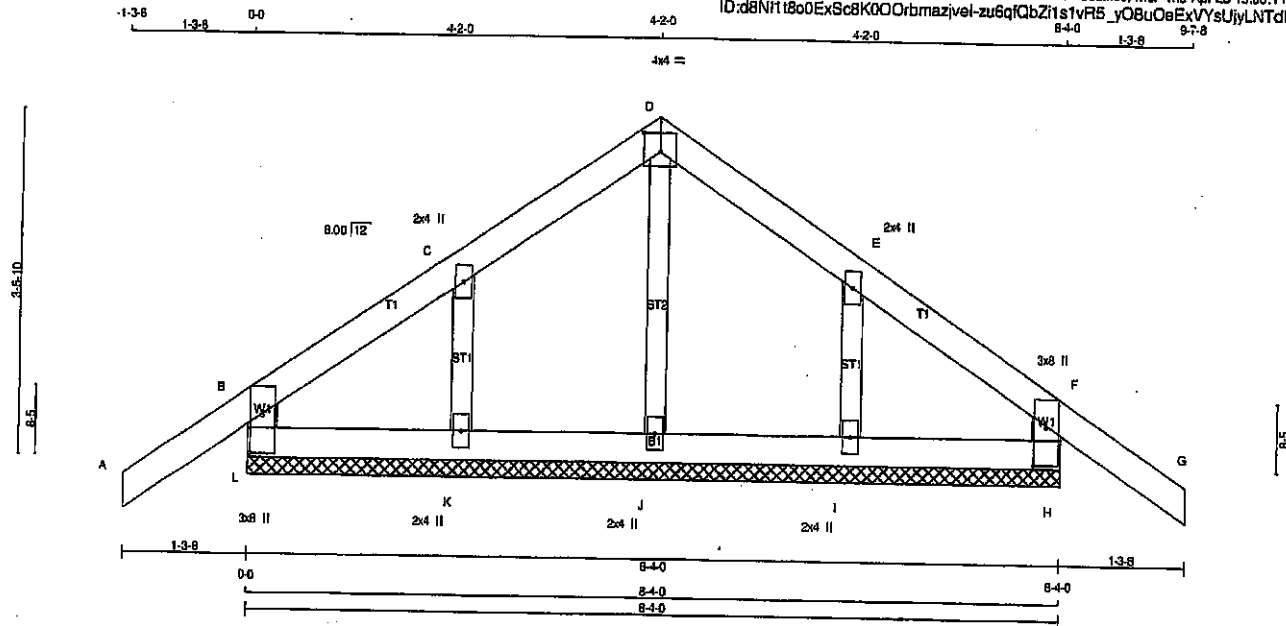
Structural component only
 DWG# T-2006780

JOB NAME 408263	TRUSS NAME T14G	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Yamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:00:11 2020 Page 1
ID:d8NH1t8o0ExSc8K00Orbmazivel-zu6qIQbZ1s1vR5_y08u0eExVysUjyLNTdDBK6zNpV2

Scale = 1:21.4



LUMBER

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B, F, H, L					
B					
C	TMW+w	MT20	2.0	4.0	
D	TTW+p	MT20	4.0	4.0	2.25 2.00
E	TMW+w	MT20	2.0	4.0	
F	TMBMV1+p	MT20	3.0	8.0	4.50 1.50
I, J, K					
I	BMW1+w	MT20	2.0	4.0	
L	TMBMV1+p	MT20	3.0	8.0	4.50 1.50

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	VERT. LOAD (PLF)	LC1 MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
L-B	-247 / 0	0.0	0.0 0.01 (4)	J-D	-153 / 0	0.03 (1)	
A-B	0 / 35	-91.8	-91.8 0.12 (1)	K-C	-185 / 0	0.03 (1)	
B-C	-45 / 0	-91.8	-91.8 0.08 (1)	I-E	-185 / 0	0.03 (1)	
C-D	-34 / 0	-91.8	-91.8 0.04 (1)				
D-E	-34 / 0	-91.8	-91.8 0.04 (1)				
E-F	-45 / 0	-91.8	-91.8 0.05 (1)				
F-G	0 / 35	-91.8	-91.8 0.12 (1)				
H-F	-247 / 0	0.0	0.0 0.01 (4)				
L-K	0 / 37	-18.5	-18.5 0.02 (4)				
K-J	0 / 28	-18.5	-18.5 0.02 (4)				
J-I	0 / 28	-18.5	-18.5 0.02 (4)				
I-H	0 / 37	-18.5	-18.5 0.02 (4)				

TOTAL WEIGHT = 30 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (F-G:1), BC=0.02/1.00 (K-L:4), WB=0.03/1.00 (D-J:1), SS=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(FLI)
MT20	618	354	1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.23 (F) (INPUT = 0.90)
JSI METAL= 0.10 (L) (INPUT = 1.00)



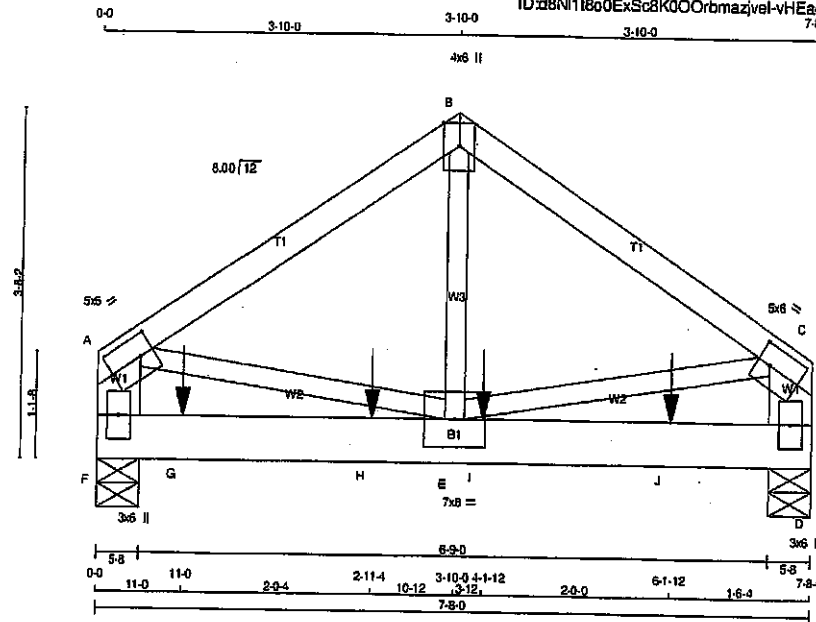
Structural component only
DWG# T-2006781

JOB NAME 408263	TRUSS NAME T15	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 M/Tek Industries, Inc. Thu Apr 23 15:00:13 2020 Page 1
ID:18N11800ExSc8K00Orbmazjel-vHEa46dpE1619FM3pBMU3JGaMMaBpMpxiIP_zNpVO

Scale = 1:22.4



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
F - A	2x6	DRY	No.2
D - C	2x6	DRY	No.2
F - D	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B 1	12	TOP
B-C 1	12	TOP
F-A 2	12	TOP
D-C 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	MT20	5.0	6.0	2.50	1.75
B	TTW4p	MT20	4.0	8.0	Edge

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
F	4115	0	0	5-8
D	1915	0	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	2902	1951 / 0	0 / 0	0 / 0	0 / 0	951 / 0	0 / 0
D	1351	908 / 0	0 / 0	0 / 0	0 / 0	443 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.88 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. VERT. LOAD (LC1)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC1)
FR-TO		FROM	TO		FR-TO		
A-B	-2183 / 0	-91.8	-91.8	0.15 (1)	E-B	0 / 2047	0.25 (1)
B-C	-2183 / 0	-91.8	-91.8	0.15 (1)	A-E	0 / 1831	0.23 (1)
F-A	-1713 / 0	0.0	0.0	0.06 (1)	E-C	0 / 1831	0.23 (1)
D-C	-1713 / 0	0.0	0.0	0.06 (1)			
F-G	0 / 0	-18.5	-18.5	0.81 (1)			
G-H	0 / 0	-18.5	-18.5	0.81 (1)			
H-E	0 / 0	-18.5	-18.5	0.81 (1)			
E-I	0 / 0	-18.5	-18.5	0.38 (1)			
I-J	0 / 0	-18.5	-18.5	0.38 (1)			
J-D	0 / 0	-18.5	-18.5	0.38 (1)			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	11-0	-3270	-3270	---	BACK	VERT	TOTAL	---	C1
H	2-11-4	-638	-638	---	BACK	VERT	TOTAL	---	C1
I	4-1-12	-638	-638	---	BACK	VERT	TOTAL	---	C1
J	6-1-12	-638	-638	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 2 X 35 = 69 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.15/1.00 (B-C:1), BC=0.81/1.00 (E-F:1), WB=0.25/1.00 (B-E:1), SS=0.80/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.78 (C) (INPUT = 0.90)

JSI METAL = 0.28 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006782 1/2

CONTINUED ON PAGE 2

JOB NAME 408263	TRUSS NAME T15	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:00:13 2020 Page 2
 ID: d8N1t8p0ExSc8K00Orbmazivel-vHEa46dpE6I9IFM3pBMU3JGaMMaBpMxxilP zNoV0

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMVW-t	MT20	5.0	8.0	2.50	1.75
D	BMV1+p	MT20	3.0	6.0		
E	BMVWW-t	MT20	7.0	8.0		
F	BMV1+p	MT20	3.0	6.0		

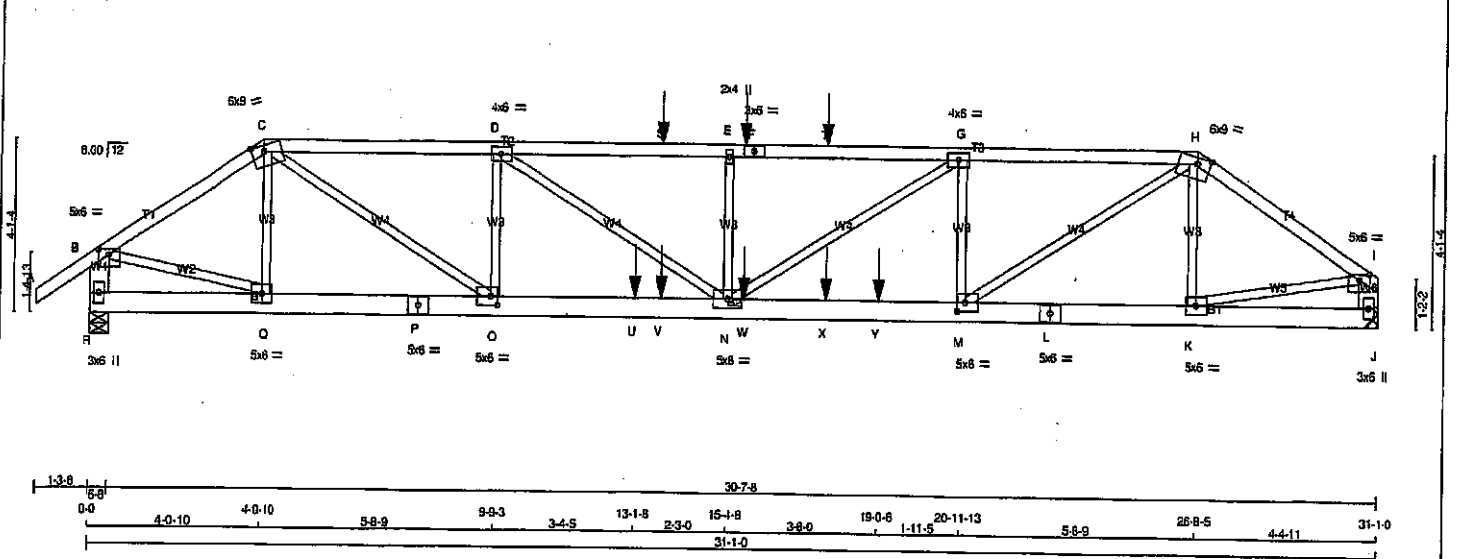
Edge - INDICATES REFERENCE CORNER OF PLATE
 TOUCHES EDGE OF CHORD.



Structural component only
 DWG# T-2006782 *272*

JOB NAME 408263	TRUSS NAME T16X	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Version 8.310 S Oct 29 2018 Mtek Industries, Inc. Thu Apr 23 15:00:14 2020 Page 1
ID: d8N118o0ExSc8K0OOrbmazjvel-NTozHSdR_yEcmvpZdWib0GshdmkqWAGpAbSrxQzNpV?
Tamarack Roof Truss, Burlington
Scale = 1:50.4



CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
H - I	2x4	DRY	No.2	SPF
R - B	2x6	DRY	No.2	SPF
J - I	2x6	DRY	No.2	SPF
R - P	2x6	DRY	1650F 1.5E	SPF
P - L	2x6	DRY	1650F 1.5E	SPF
L - J	2x6	DRY	1650F 1.5E	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	TOP
C-F 1	12	SIDE(0.0)
F-H 1	12	SIDE(0.0)
H-I 1	12	TOP
R-B 2	12	TOP
J-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
R-P 2	12	TOP
P-L 2	12	SIDE(0.0)
L-J 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	TOP

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	3395	0	5-8
R	3395	0	5-8
J	3288	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
R	2398 1615 / 0 0 / 0 0 / 0 778 / 0 0 / 0
J	2320 1552 / 0 0 / 0 0 / 0 768 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.73 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 (PLF)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO			
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	C-C	-803	0
B-C	-4012 / 0	-91.8	-91.8	0.22 (1)	4.55	C-O	0	4808
C-D	-7341 / 0	-91.8	-91.8	0.58 (1)	3.26	O-D	-1863	0
D-S	-9289 / 0	-91.8	-91.8	0.74 (1)	2.76	D-N	0	2340
S-E	-9289 / 0	-91.8	-91.8	0.74 (1)	2.76	N-E	-742	0
E-F	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	N-G	0	2085
F-T	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	M-G	-1778	0
T-G	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	M-H	0	4724
G-H	-7553 / 0	-91.8	-91.8	0.81 (1)	3.17	K-H	-565	0
H-I	-4344 / 0	-91.8	-91.8	0.27 (1)	4.36	B-Q	0	3427
R-B	-3344 / 0	0.0	0.0	0.12 (1)	7.61	K-I	0	3662
J-I	-3241 / 0	0.0	0.0	0.11 (1)	7.70			
R-Q	0 / 0	-18.5	-18.5	0.02 (1)	10.00			
Q-P	0 / 3310	-18.5	-18.5	0.24 (1)	10.00			
P-O	0 / 3310	-18.5	-18.5	0.24 (1)	10.00			
O-U	0 / 7341	-18.5	-18.5	0.68 (1)	10.00			
U-V	0 / 7341	-18.5	-18.5	0.68 (1)	10.00			
V-N	0 / 7341	-18.5	-18.5	0.68 (1)	10.00			
N-W	0 / 7553	-18.5	-18.5	0.58 (1)	10.00			
W-X	0 / 7553	-18.5	-18.5	0.58 (1)	10.00			
X-Y	0 / 7553	-18.5	-18.5	0.58 (1)	10.00			
Y-M	0 / 7553	-18.5	-18.5	0.58 (1)	10.00			
M-L	0 / 3592	-18.5	-18.5	0.21 (1)	10.00			
L-K	0 / 3592	-18.5	-18.5	0.21 (1)	10.00			
K-J	0 / 0	-18.5	-18.5	0.02 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	15-9-4	-110	-110	---	BACK	VERT	TOTAL	C1
S	13-9-4	-110	-110	---	BACK	VERT	TOTAL	C1
T	17-9-4	-110	-110	---	BACK	VERT	TOTAL	C1
U	13-1-8	-1578	-1578	---	BACK	VERT	TOTAL	C1
V	13-9-4	-26	-26	---	BACK	VERT	TOTAL	C1
W	15-9-4	-26	-26	---	BACK	VERT	TOTAL	C1
X	17-9-4	-26	-26	---	BACK	VERT	TOTAL	C1
Y	19-0-8	-1141	-1141	---	BACK	VERT	TOTAL	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.04")
CALCULATED VERT. DEFL. (LL) = L/999 (0.28")
ALLOWABLE DEFL. (TL) = L/360 (1.04")
CALCULATED VERT. DEFL. (TL) = L/805 (0.46")

CSK TC=0.77/1.00 (E-G:1), BC=0.68/1.00 (N-O:1),
WB=0.60/1.00 (C-O:1), SS=0.37/1.00 (N-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

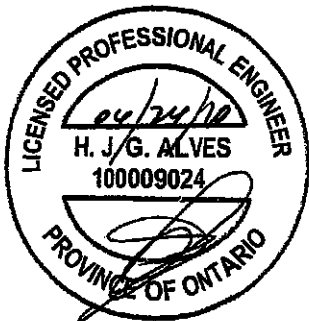
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 816 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006783

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T16X	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Thu Apr 23 15:00:14 2020 Page 2
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PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	6.0	1.50 3.00
C	TTWW-m	MT20	6.0	9.0	1.75 3.50
D	TMWW-t	MT20	4.0	8.0	
E	TMW-w	MT20	2.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMWW-t	MT20	4.0	8.0	
H	TTWW-m	MT20	6.0	9.0	1.75 3.50
I	TMVW-p	MT20	5.0	6.0	1.50 3.00
J	BMV1-p	MT20	3.0	6.0	
K	BMWW-t	MT20	5.0	6.0	
L	BS-t	MT20	5.0	6.0	
M	BMWW-t	MT20	5.0	6.0	2.50 2.25
N	BMWW-t	MT20	5.0	6.0	
O	BMWW-t	MT20	5.0	6.0	2.50 2.00
P	BS-t	MT20	5.0	6.0	
Q	BMWW-t	MT20	5.0	6.0	
R	BMV1-p	MT20	3.0	6.0	

CONNECTION REQUIREMENTS

- 1) Ct: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2006783

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DWG NO.
408264	T21	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:13:59 2020 Page 2
ID:ScJMMpJxrEqZE5VLzZMvKziJd-kB8rRYcxIRAYFhO6SH72yFXH1KJ9LpFiRc008zNp16

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.50	3.00
C	TTWW-m	MT20	6.0	9.0	Edge 4.25	
D	TMWV-l	MT20	4.0	6.0		
E	TMW-w	MT20	2.0	4.0		
F	TS-l	MT20	3.0	6.0		
G	TMWV-l	MT20	4.0	6.0		
H	TTWW-m	MT20	6.0	9.0	Edge 4.25	
I	TMWV-p	MT20	5.0	6.0	1.50	3.00
K	BMV-l+p	MT20	3.0	6.0		
L, N, P, R						
L	BMWV-l	MT20	5.0	6.0		
M	BS-l	MT20	5.0	6.0		
O	BMWVW-l	MT20	5.0	6.0		
Q	BS-l	MT20	5.0	6.0		
S	BMV-l+p	MT20	3.0	6.0		

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
U	19-4-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	21-4-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	23-4-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	25-4-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	1-0-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
Z	1-9-0	-1105	-1105	---	FRONT	VERT	TOTAL	---	C1
AA	16-4-0	-1105	-1105	---	FRONT	VERT	TOTAL	---	C1
AB	17-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	19-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	21-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	23-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	25-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	27-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	29-4-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



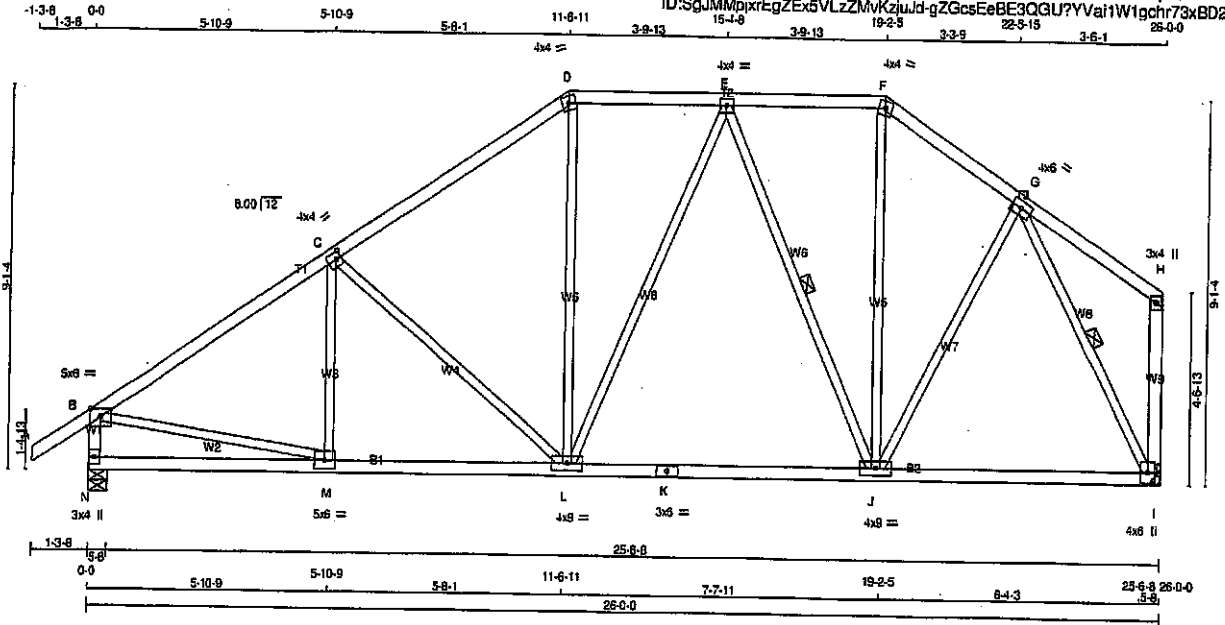
Structural component only
DWG# T-2006792

Structural component only
DWG# T-2006793

JOB NAME 408264	TRUSS NAME T23	QUANTITY 1	PLV 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 23 15:14:01 2020 Page 1
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Scale = 1/8" = 1'-0"

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 - H	2x4	DRY	No. 2	SPF
H - B	2x4	DRY	No. 2	SPF
I - H	2x4	DRY	No. 2	SPF
N - K	2x4	DRY	No. 2	SPF
K - I	2x4	DRY	No. 2	SPF
ALL WEBS	2x3	DRY	No. 2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge	
C TMWW-t	MT20	4.0	4.0	2.00	1.50
D TTW-m	MT20	4.0	4.0		
E TMWW-t	MT20	4.0	4.0		
F TTW-m	MT20	4.0	4.0		
G TMWW-t	MT20	4.0	6.0		
H TMVW-p	MT20	3.0	4.0		
I BMVW1-p	MT20	4.0	8.0		
J BMWW-t	MT20	4.0	9.0		
K BS-t	MT20	3.0	6.0		
L BMWW-t	MT20	4.0	9.0		
M BMWW-t	MT20	5.0	6.0		
N BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
N	1559	0	1559	0
I	1433	0	1433	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1100	735	0	0	0	385	0
I	1014	665	0	0	0	348	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.59 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

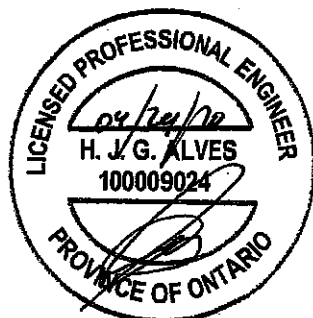
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-J, G-I.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO							
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	M-C	-141 / 45
B-C	-1633 / 0	-91.8	-91.8	0.46 (1)	4.69	C-L	-449 / 0
C-D	-1298 / 0	-91.8	-91.8	0.42 (1)	5.16	L-D	0 / 368
D-E	-1053 / 0	-91.8	-91.8	0.17 (1)	5.94	E-E	0 / 50
E-F	-836 / 0	-91.8	-91.8	0.17 (1)	6.25	F-F	-510 / 0
F-G	-1022 / 0	-91.8	-91.8	0.14 (1)	6.05	G-G	0 / 301
G-H	0 / 19	-91.8	-91.8	0.16 (1)	10.00	H-H	0 / 382
H-I	-1513 / 0	0.0	0.0	0.16 (1)	6.68	I-I	0 / 1411
I-J	-124 / 0	0.0	0.0	0.04 (1)	7.81	J-J	-1424 / 0
N-M	0 / 0	-18.5	-18.5	0.14 (4)	10.00		
M-L	0 / 1388	-18.5	-18.5	0.31 (1)	10.00		
L-K	0 / 1034	-18.5	-18.5	0.32 (4)	10.00		
K-J	0 / 1034	-18.5	-18.5	0.32 (4)	10.00		
J-I	0 / 663	-18.5	-18.5	0.29 (4)	10.00		



Structural component only
DWG# T-2006794

TOTAL WEIGHT = 126 lb
[M/F]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.87")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.87")
CALCULATED VERT. DEFL. (TL) = L/999 (0.10")

CSI: TC=0.48/1.00 (B-C:1), BC=0.32/1.00 (J-L:4),
WB=0.53/1.00 (C-L:1), SS=0.22/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSD) (PLI) (PLI)
MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1685

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

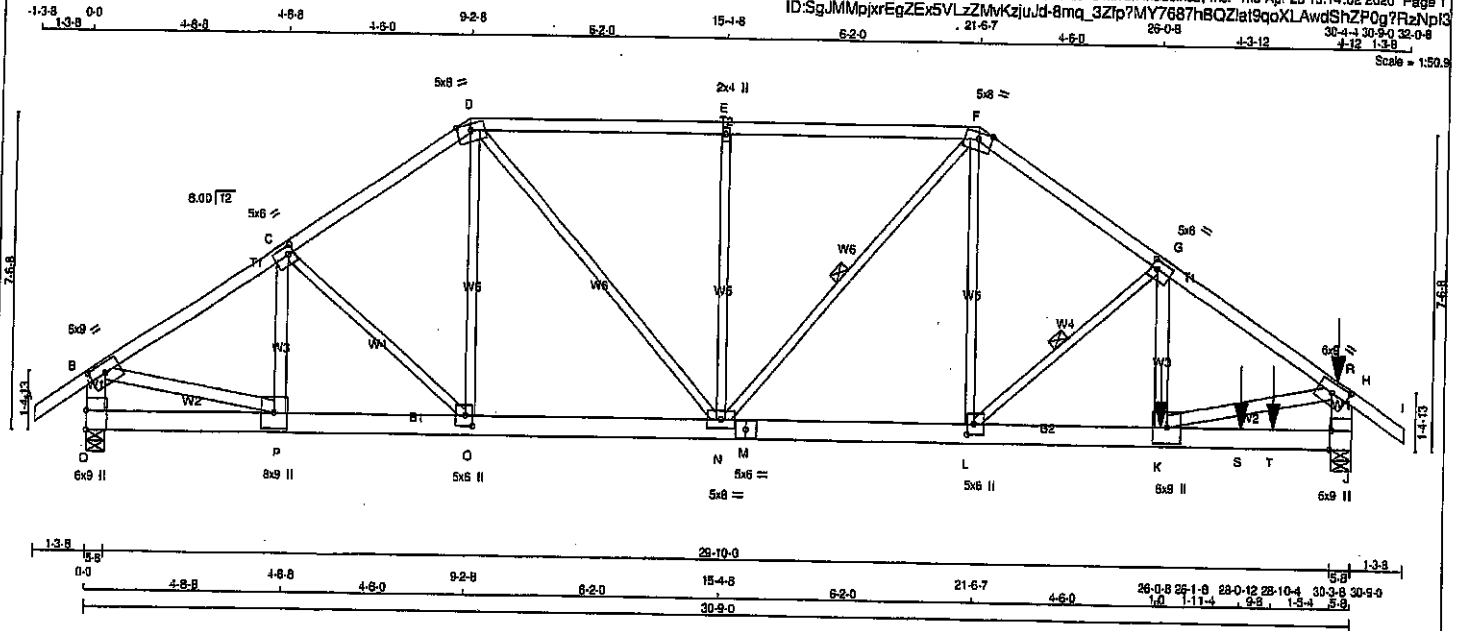
JSI GRIP = 0.89 (B) (INPUT = 0.80)
JSI METAL = 0.39 (K) (INPUT = 1.00)

JOB NAME 408264	TRUSS NAME T24	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 2019 Mittek Industries, Inc. Thu Apr 23 15:14:02 2020 Page 1

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	T24	1	2	TRUSS DESC.		

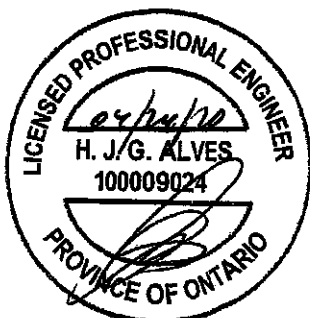
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitak Industries, Inc. Thu Apr 23 15:14:02 2020 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	8.0	9.0	2.75	4.50
C	TMVW-I	MT20	5.0	6.0	2.25	1.75
D	TTWW-m	MT20	5.0	8.0	Edge	
E	TMVW-w	MT20	2.0	4.0	Edge	
F	TTWW-m	MT20	5.0	8.0	Edge	
G	TMVW-I	MT20	5.0	6.0	2.25	1.75
H	TMVW-I	MT20	8.0	9.0	2.75	4.50
J	BMV1-I	MT20	8.0	9.0	Edge	0.50
K	BMVW-I	MT20	8.0	9.0		
L	BMVW-I	MT20	5.0	6.0	3.00	2.00
M	BS-I	MT20	5.0	8.0		
N	BMVW-I	MT20	6.0	8.0		
O	BMVW-I	MT20	5.0	6.0	3.00	2.00
P	BMVW-I	MT20	8.0	9.0		
Q	BMV1-I	MT20	6.0	9.0	5.50	

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

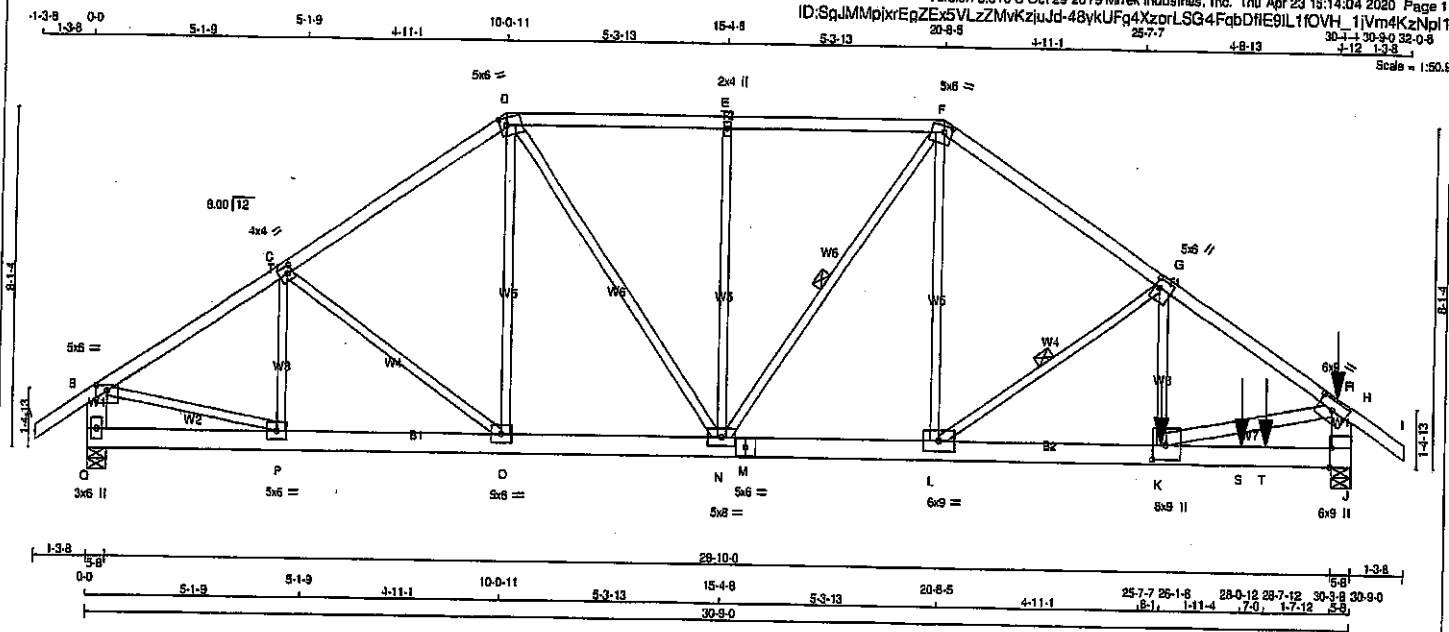


Structural component only
DWG# T-2006795 712

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T25	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:04 2020 Page 1
ID: SqJMMpjxRqZExSVLzZMvKzjuJd-48ykUFq4XzorLSG4FabDIE9IL1OVH_1jVm4KzNpl1
20-6-5 25-7-7 4-8-13 30-4-1 30-9-0 32-0-8 3-12 1-3-8
Scale = 1:50.9



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
Q - B	2x6	DRY	No.2
J - H	2x6	DRY	No.2
Q - M	2x6	DRY	No.2
M - J	2x6	DRY	No.2

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
K - H	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	TOP
D-F 1	12	TOP
F-I 1	12	TOP
Q-B 2	12	TOP
J-H 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Q-M 2	12	TOP
M-J 2	6	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
G-K 1	2	SIDE(1078.1)
2x3 1	6	SIDE(1078.1)
2x4 1	6	SIDE(1078.1)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	DOWN	GROSS REACTION	BRG	BRG
Q	2809 0	2809 0	0 0	5-8	5-8
J	8189 0	8189 0	0 0	5-8	5-8

UNFACTORED REACTIONS		1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
Q	1982	1325 / 0	0 / 0
J	5773	3889 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-N, G-L

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)
A-B	0 / 35	10.00	10.00
B-C	-3339 / 0	10.00	10.00
C-D	-3375 / 0	10.00	10.00
D-E	-3695 / 0	10.00	10.00
E-F	-3695 / 0	10.00	10.00
F-G	-4950 / 0	10.00	10.00
G-H	-8857 / 0	10.00	10.00
H-I	-8857 / 0	10.00	10.00
I-J	-2754 / 0	10.00	10.00
J-K	-7587 / 0	10.00	10.00
K-L	0 / 0	10.00	10.00
L-M	0 / 2808	10.00	10.00
M-N	0 / 2783	10.00	10.00
N-O	0 / 4134	10.00	10.00
O-P	0 / 4134	10.00	10.00
P-Q	0 / 8050	10.00	10.00
Q-R	0 / 0	10.00	10.00
R-S	0 / 0	10.00	10.00
S-T	0 / 0	10.00	10.00
T-U	0 / 0	10.00	10.00

FACTORED CONCENTRATED LOADS (LBS)		LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	28-1-8	-5771	-5771	---	---	FRONT	VERT	TOTAL	---	C1
K	30-4-4	-216	-216	---	---	TOP	VERT	TOTAL	---	C1
S	28-0-12	-1229	-1229	---	---	FRONT	VERT	TOTAL	---	C1
T	28-7-12	-140	-140	---	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	25.6	PSF
BOT CH. LL	=	6.0	PSF
DL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	39.0	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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02')
CALCULATED VERT. DEFL.(LL) = L/999 (0.10')
ALLOWABLE DEFL.(TL) = L/360 (1.02')
CALCULATED VERT. DEFL.(TL) = L/999 (0.19')

CSI: TC=0.67/1.00 (G-H:1), EC=0.58/1.00 (K-L:1), WB=0.82/1.00 (G-L:1), SS=0.28/1.00 (J-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL= 0.91 (K) (INPUT = 1.00)



Structural component only
DWG# T-2006796 1/2

JOB NAME 408264	TRUSS NAME T25	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 M&T Industries, Inc. Thu Apr 23 15:14:04 2020 Page 2
ID:ScJMMpdxrEqZE5VLzZMvKzjuJd-48ykUFq4XzoriSG4FobDHE9IL1fQVH 1iVm4KzNol1

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMWW-l	MT20	4.0	4.0	2.00	1.50
O	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TMW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	1.75	2.25
G	TMWW-t	MT20	5.0	6.0	2.50	1.25
H	TMVW-t	MT20	6.0	9.0	2.75	4.50
J	BMV1-t	MT20	6.0	9.0	Edge	0.50
K	BMWW-t	MT20	8.0	9.0	4.25	3.75
L	BMWW-t	MT20	6.0	9.0		
M	BS-t	MT20	5.0	6.0		
N	BMWWW-l	MT20	5.0	8.0		
O	BMWW-l	MT20	5.0	6.0		
P	BMWW-t	MT20	5.0	6.0		
Q	BMV1-p	MT20	3.0	6.0		

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

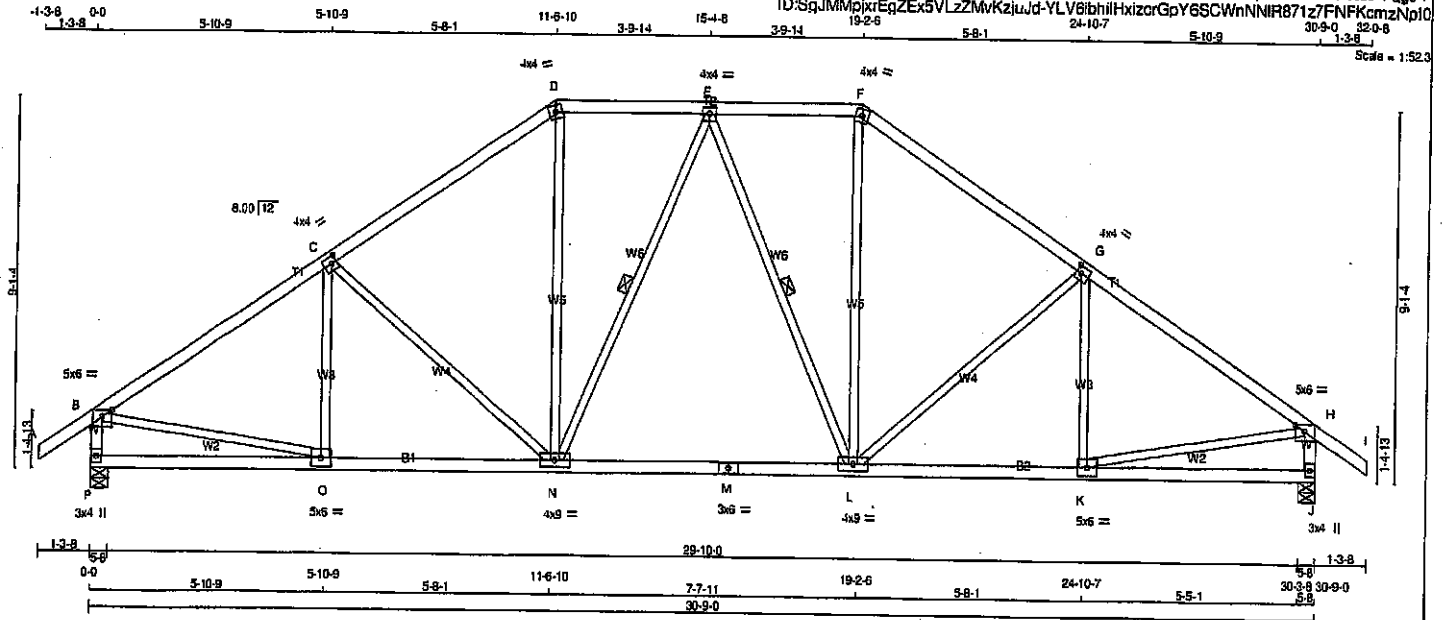


Structural component only
DWG# T-2006796 42

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	T26	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 23 15:14:05 2020 Page 1
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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
P - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-l	MT20	4.0	4.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW-l	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVW-l	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	Edge	
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-l	MT20	5.0	6.0		
L	BMVW-l	MT20	4.0	9.0		
M	BS-l	MT20	3.0	6.0		
N	BMVW-l	MT20	4.0	9.0		
O	BMVW-l	MT20	5.0	6.0		
P	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
P	1821	0	1821	0
J	1821	0	1821	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
P	1285	857 / 0	0 / 0
J	1285	857 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.29 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)
FR-TO					FR-TO		
A-B	0 / 35	-91.8	-91.8	0.12 (1)	C-C	-201 / 23	0.08 (1)
B-C	-2002 / 0	-91.8	-91.8	0.48 (1)	C-N	-397 / 0	0.47 (1)
C-D	-1713 / 0	-91.8	-91.8	0.45 (1)	N-D	0 / 598	0.13 (1)
D-E	-1401 / 0	-91.8	-91.8	0.18 (1)	N-E	-226 / 0	0.15 (1)
E-F	-1401 / 0	-91.8	-91.8	0.18 (1)	E-L	-228 / 0	0.15 (1)
F-G	-1713 / 0	-91.8	-91.8	0.45 (1)	L-F	0 / 596	0.13 (1)
G-H	-2002 / 0	-91.8	-91.8	0.48 (1)	L-G	-397 / 0	0.47 (1)
H-I	0 / 35	-91.8	-91.8	0.12 (1)	K-G	-201 / 23	0.08 (1)
P-B	-1774 / 0	0.0	0.0	0.18 (1)	B-O	0 / 1723	0.39 (1)
J-H	-1774 / 0	0.0	0.0	0.18 (1)	K-H	0 / 1723	0.39 (1)
P-O	0 / 0	-18.5	-18.5	0.13 (4)			
O-N	0 / 1694	-18.5	-18.5	0.37 (1)			
N-M	0 / 1489	-18.5	-18.5	0.34 (1)			
M-L	0 / 1489	-18.5	-18.5	0.34 (1)			
L-K	0 / 1694	-18.5	-18.5	0.37 (1)			
K-J	0 / 0	-18.5	-18.5	0.13 (4)			

TOTAL WEIGHT = 139 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	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 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 084-09, CSA 084-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/380 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")
CSI: TC=0.48/1.00 (B-C:1), BC=0.37/1.00 (K-L:1), WB=0.47/1.00 (G-L:1), SS=0.22/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
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 = 0.87 (B) (INPUT = 0.90)
JSI METAL = 0.56 (M) (INPUT = 1.00)

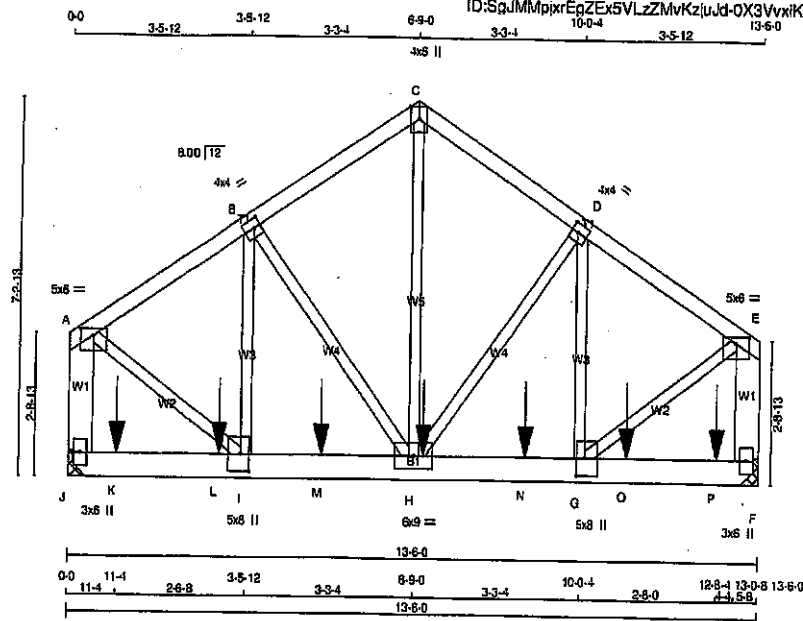


Structural component only
DWG# T-2006797

JOB NAME 408264	TRUSS NAME T27	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 23 15:14:06 2020 Page 1
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Scale = 1/40.8

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1	12	TOP
C - E 1	12	TOP
J - A 2	12	TOP
F - E 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J - F 2	12	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
H - C 1	6	SIDE (186.0)
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	8.0	1.50 3.00

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
J	5805	0	5805	0
F	5789	0	5789	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
J	3958	2631 / 0	0 / 0	0 / 0	1327 / 0	0 / 0
F	4086	2717 / 0	0 / 0	0 / 0	1371 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.66 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-3952 / 0	-91.8 -91.8	0.14 (1)	H-C	0 / 3535	0.44 (1)	
B-C	-3431 / 0	-91.8 -91.8	0.11 (1)	H-D	-788 / 0	0.21 (1)	
C-D	-3431 / 0	-91.8 -91.8	0.11 (1)	G-D	0 / 594	0.07 (1)	
D-E	-3952 / 0	-91.8 -91.8	0.14 (1)	B-H	-787 / 0	0.21 (1)	
J-A	-4546 / 0	0.0 0.0	0.22 (1)	I-B	0 / 595	0.07 (1)	
F-E	-4546 / 0	0.0 0.0	0.22 (1)	A-I	0 / 3989	0.49 (1)	
				G-E	0 / 3968	0.49 (1)	
J-K	0 / 0	-18.5 -18.5	0.36 (1)				
K-L	0 / 0	-18.5 -18.5	0.36 (1)				
L-I	0 / 0	-18.5 -18.5	0.36 (1)				
I-M	0 / 3297	-18.5 -18.5	0.51 (1)				
M-H	0 / 3297	-18.5 -18.5	0.51 (1)				
H-N	0 / 3297	-18.5 -18.5	0.53 (1)				
N-G	0 / 3297	-18.5 -18.5	0.53 (1)				
G-O	0 / 0	-18.5 -18.5	0.37 (1)				
O-P	0 / 0	-18.5 -18.5	0.37 (1)				
P-F	0 / 0	-18.5 -18.5	0.37 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
H	6-11-4	-1415	-1415	---	BACK	VERT	TOTAL	C1
K	11-4	-1415	-1415	---	BACK	VERT	TOTAL	C1
L	2-11-4	-1415	-1415	---	BACK	VERT	TOTAL	C1
M	4-11-4	-1415	-1415	---	BACK	VERT	TOTAL	C1
N	8-11-4	-1415	-1415	---	BACK	VERT	TOTAL	C1
O	10-11-4	-1415	-1415	---	BACK	VERT	TOTAL	C1
P	12-8-4	-1417	-1417	---	BACK	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 2 X 78 = 156 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	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 NBCC 2016, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.45")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.45")
CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TC=0.22/1.00 (A-J:1), BC=0.53/1.00 (G-H:1),
WB=0.49/1.00 (A-K:1), SS=0.61/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

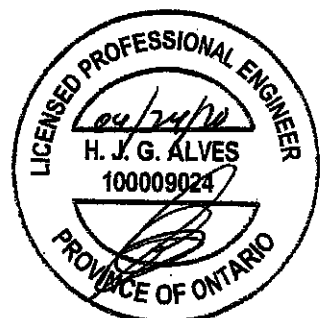
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.59 (H) (INPUT = 1.00)



Structural component only
DWG# T-2006798 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T27	1	2	GREEN PARK HOMES	

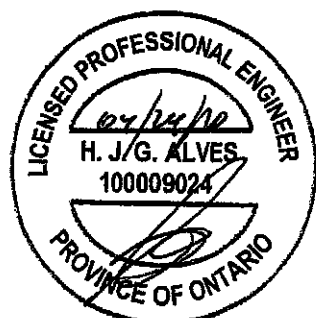
Tamareck Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:06 2020 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	4.0	4.0	2.00	1.50
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMWW-t	MT20	4.0	4.0	2.00	1.50
E	TMWW-p	MT20	5.0	6.0	1.50	3.00
F	BMV1+p	MT20	3.0	6.0		
G	BMWW-t	MT20	5.0	8.0	4.00	2.00
H	BMWW-t	MT20	6.0	9.0		
I	BMWW-t	MT20	5.0	8.0	4.00	2.00
J	BMV1+p	MT20	3.0	6.0		

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

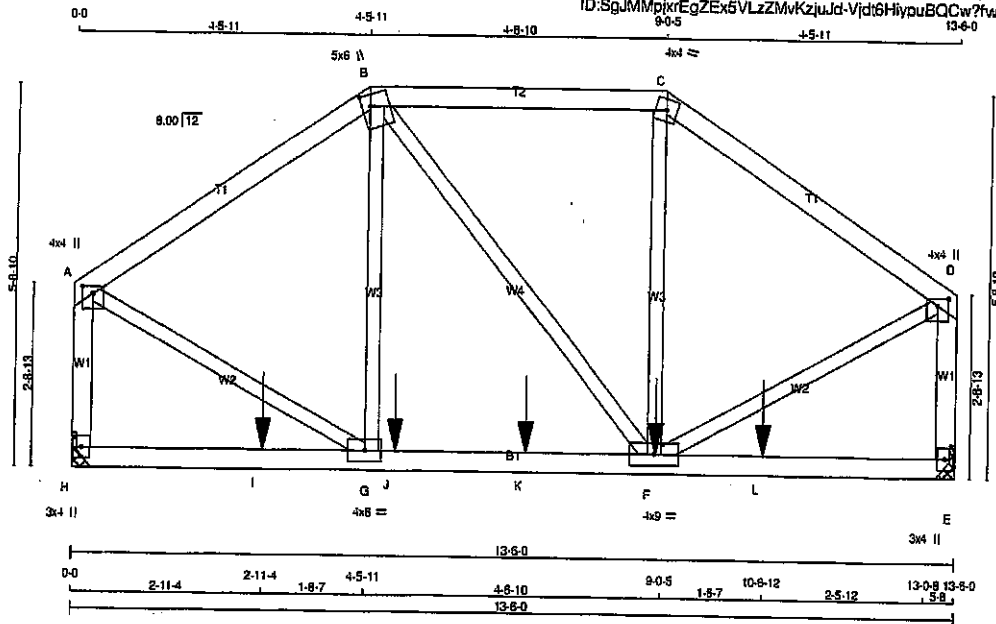


Structural component only
DWG# T-2006798 42

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T28	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 23 15:14:07 2020 Page 1
ID: SgJMMpkrEgZE5VLzZMvKzJld-Vjdt5HypuBQCw?twz2wHxslXY5kb?KQjnkRgezNpI

Scale: 3/8"=1'



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
B	TTWW+m	MT20	5.0	8.0	2.00	1.50
C	TTW-m	MT20	4.0	4.0		
D	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMV1-p	MT20	3.0	4.0		
F	BMVWV-i	MT20	4.0	8.0		
G	BMVW-i	MT20	4.0	8.0		
H	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	1235	0	1235	0
E	1248	0	1248	0

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	889	584 / 0	0 / 0	0 / 0	0 / 0	274 / 0	0 / 0
E	878	601 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.80 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				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD
	(LBS)	(LBS)	LC1 MAX		(LBS)	(LBS)	LC1 MAX
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
A-B	-944 / 0	-91.8	-91.8 0.38 (1)	G-B	0 / 99	0.03 (4)	
B-C	-786 / 0	-91.8	-91.8 0.38 (1)	B-F	0 / 15	0.00 (1)	
C-D	-955 / 0	-91.8	-91.8 0.38 (1)	F-C	0 / 117	0.03 (4)	
H-A	-1144 / 0	0.0	0.0 0.18 (1)	A-G	0 / 886	0.22 (1)	
E-D	-1155 / 0	0.0	0.0 0.18 (1)	F-D	0 / 897	0.22 (1)	
H-I	0 / 0	-18.5	-18.5 0.29 (1)				
I-G	0 / 0	-18.5	-18.5 0.29 (1)				
G-J	0 / 786	-18.5	-18.5 0.43 (1)				
J-K	0 / 786	-18.5	-18.5 0.43 (1)				
K-F	0 / 786	-18.5	-18.5 0.43 (1)				
F-L	0 / 0	-18.5	-18.5 0.29 (1)				
L-E	0 / 0	-18.5	-18.5 0.29 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	8-11-4	-183	-183	---	FRONT	VERT	TOTAL	---	C1
I	2-11-4	-253	-253	---	FRONT	VERT	TOTAL	---	C1
J	4-11-4	-183	-183	---	FRONT	VERT	TOTAL	---	C1
K	6-11-4	-183	-183	---	FRONT	VERT	TOTAL	---	C1
L	10-6-12	-253	-253	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 60 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.45")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.04")
ALLOWABLE DEFL.(TL) = $L/360$ (0.45")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.08")

CSI: TC=0.38/1.00 (C-D:1), BC=0.43/1.00 (F-G:1),
WB=0.22/1.00 (D-F:1), SS=0.23/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1867
	788	1867	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (D) (INPUT = 0.90)
JSI METAL= 0.25 (D) (INPUT = 1.00)



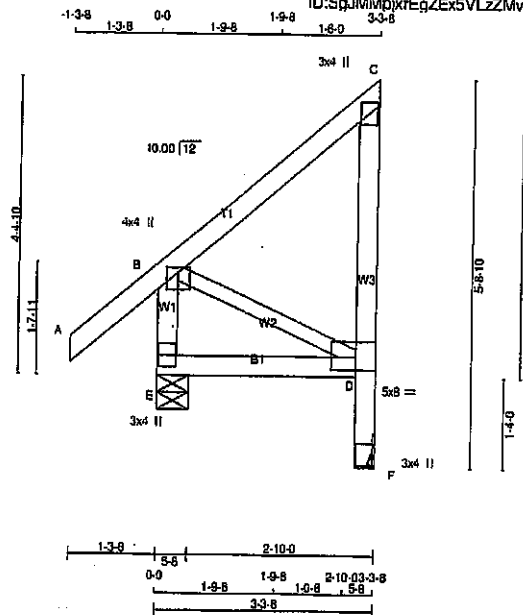
Structural component only
DWG# T-2006799

Structural component only
DWG# T-2006800

JOB NAME 408264	TRUSS NAME T30	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 23 15:14:10 2020 Page 1
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Scale = 1:31.4

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - C	2x4	DRY	No.2
E - D	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 TMVW+p	MT20	4.0	4.0	1.00	2.00
C TMV+p	MT20	3.0	4.0		
D BVMW-i	MT20	5.0	8.0	2.25	4.50
D TP+p	MT20	3.0	4.0	15.25	0.25
E BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
E	309	309	5-8	5-8
F	181	181	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	216	155 / 0	0 / 0	0 / 0	61 / 0	0 / 0
F	128	84 / 0	0 / 0	0 / 0	44 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	W E B S	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	UNBRACED LENGTH FR-TO
E-B	-278 / 0	0.0	0.0	0.03 (1)
A-B	0 / 41	-91.8	-91.8	0.14 (5)
B-C	0 / 0	-91.8	-91.8	0.17 (1)
F-D	-181 / 0	0.0	0.0	0.02 (1)
D-C	-151 / 0	0.0	0.0	0.05 (1)
E-D	0 / 0	-18.5	-18.5	0.06 (4)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 20 = 61 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	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 NBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.17/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.09/1.00 (B-D:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

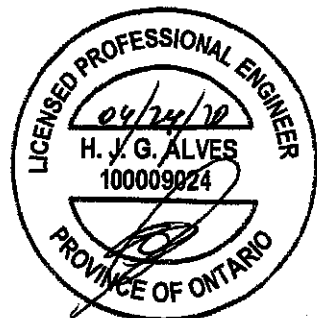
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)

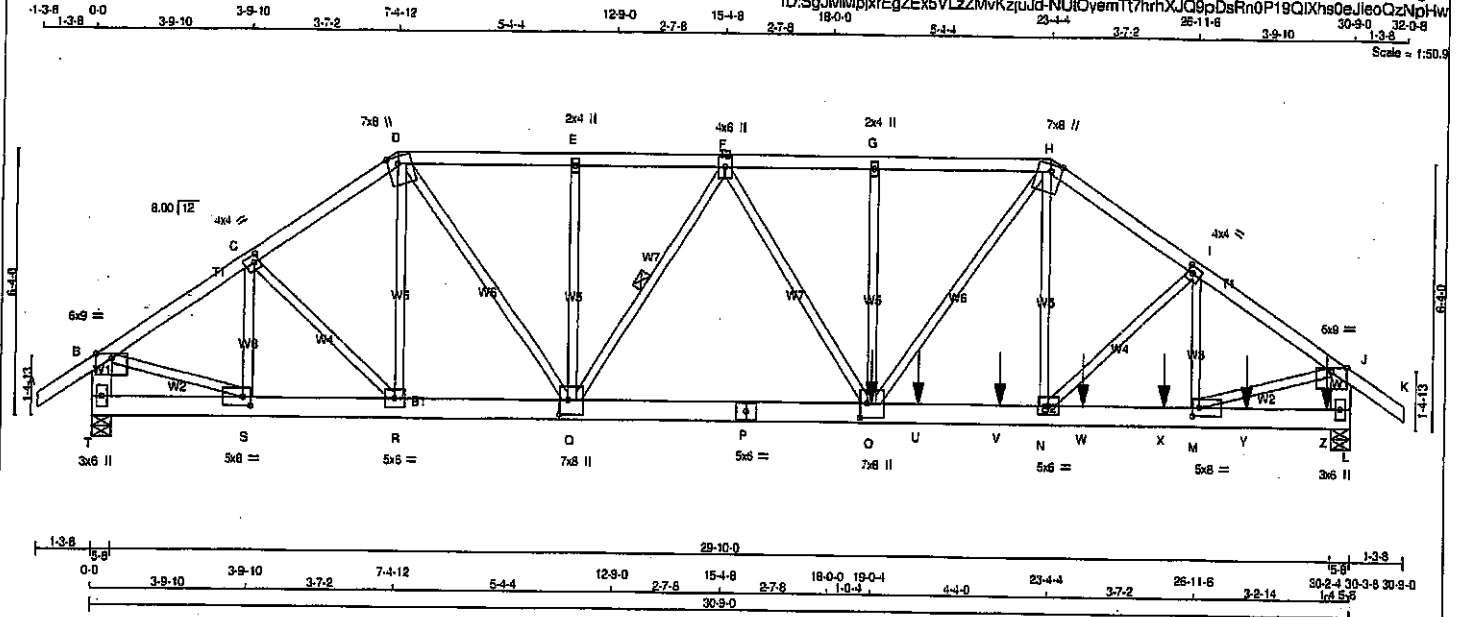


Structural component only
DWG# T-2006801

JOB NAME 408264	TRUSS NAME T31	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Thu Apr 23 15:14:11 2020 Page 1
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LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF		
D - H	2x4	DRY	No.2	SPF		
H - K	2x4	DRY	No.2	SPF		
T - B	2x6	DRY	No.2	SPF		
L - J	2x6	DRY	No.2	SPF		
T - P	2x6	DRY	No.2	SPF		
P - L	2x6	DRY	No.2	SPF		

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	TOP
D-H 1	12	TOP
H-K 1	12	TOP
T-B 2	12	TOP
L-J 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
T-P 2	12	TOP
P-L 2	12	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
G-O 1	3	SIDE (1134.2)
2x3 1	6	
E-Q 1	3	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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	DOWN	UPLIFT	IN-SX
T	4013	0	0	5-8
L	6137	0	0	5-8

UNFACTORED REACTIONS

1ST LOASE	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	2836	1874	0	0	0	982	0
T	2836	1874	0	0	0	982	0
L	4346	2819	0	0	0	1527	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.95 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. (PLF)	MAX. CSI (LC)	UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO									
A-B	0.35	-91.8	-91.8	0.07 (1)	10.00	S-C	-1064	0	0.13 (1)
B-C	-4737	0	-91.8	-91.8	0.19 (1)	C-R	0	546	0.07 (1)
C-D	-5258	0	-91.8	-91.8	0.20 (1)	R-D	-225	0	0.07 (1)
D-E	-6404	0	-91.8	-91.8	0.29 (1)	D-Q	0	3493	0.43 (1)
E-F	-6404	0	-91.8	-91.8	0.28 (1)	Q-E	-390	0	0.12 (1)
F-G	-9054	0	-91.8	-91.8	0.36 (1)	G-Q	-351	0	0.11 (1)
G-H	-9054	0	-91.8	-91.8	0.47 (1)	Q-H	0	4471	0.55 (1)
H-I	-7740	0	-91.8	-91.8	0.31 (1)	I-H	0	341	0.04 (1)
I-J	-7148	0	-91.8	-91.8	0.30 (1)	H-I	0	633	0.08 (1)
J-K	0.35	-91.8	-91.8	-91.8	0.07 (1)	K-I	-1161	0	0.14 (1)
T-B	-3942	0	0.0	0.0	0.14 (1)	B-S	0	4089	0.51 (1)
L-J	-5808	0	0.0	0.0	0.21 (1)	J-M	0	8159	0.76 (1)
						Q-F	-2727	0	0.46 (1)
						F-O	0	2350	0.29 (1)
T-S	0.0	-18.5	-18.5	0.05 (1)	10.00				
S-R	0.3856	-18.5	-18.5	0.31 (1)	10.00				
R-Q	-0.4347	-18.5	-18.5	0.32 (1)	10.00				
Q-P	0.7928	-18.5	-18.5	0.58 (1)	10.00				
P-O	0.7928	-18.5	-18.5	0.58 (1)	10.00				
O-U	0.8421	-43.5	-43.5	0.55 (1)	10.00				
U-V	0.8421	-43.5	-43.5	0.55 (1)	10.00				
V-N	0.8421	-43.5	-43.5	0.55 (1)	10.00				
N-W	0.5958	-43.5	-43.5	0.52 (1)	10.00				
W-X	0.5958	-43.5	-43.5	0.52 (1)	10.00				
X-M	0.5958	-43.5	-43.5	0.52 (1)	10.00				
M-Y	0.0	-43.5	-43.5	0.52 (1)	10.00				
Y-Z	0.0	-43.5	-43.5	0.11 (1)	10.00				
Z-L	0.0	-43.5	-43.5	0.11 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
JT	19-0-4	-5050	-5050	---	BACK	VERT	---	C1
O	20-2-4	-193	-193	---	BACK	VERT	---	C1
U	22-2-4	-193	-193	---	BACK	VERT	---	C1
W	24-2-4	-193	-193	---	BACK	VERT	---	C1
X	26-2-4	-193	-193	---	BACK	VERT	---	C1
Y	28-2-4	-193	-193	---	BACK	VERT	---	C1
Z	30-2-4	-198	-198	---	FRONT	VERT	---	C1

TOTAL WEIGHT = 2 X 159 = 319 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL	= 25.6	PSF
	DL	= 6.0	PSF
BOT CH.	LL	= 0.0	PSF
	DL	= 7.4	PSF
TOTAL LOAD	= 39.0	PSF	

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-08, CSA 085-14
- TPIC 2011, TPIC 2014

155% OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.47(1.00) (G-H:1), BC=0.58(1.00) (O-Q:1), WB=0.76(1.00) (J-M:1), SS=0.13(1.00) (N-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1867 788

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (S) (INPUT = 0.90)
JSI METAL = 0.75 (P) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2006802

JOB NAME #08264	TRUSS NAME T31	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 5.310 5 Oct 2019 MTEK Industries, Inc. Thu Apr 23 15:14:11 2020 Page 2 ID: SqJMMp1xrEgZ5x5VLzZMvKziJd-NuUQvemT17hrhXJQ9pDsRn0P19QIXhs0eJieoQzNpHw	

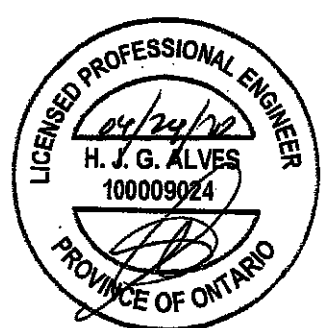
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	6.0	9.0	Edge	
C	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	7.0	8.0	2.00	3.00
E	TMW-w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	8.0		
G	TMW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	7.0	8.0	2.00	3.00
I	TMWW-t	MT20	4.0	4.0	2.00	1.50
J	TMVW-p	MT20	6.0	9.0	Edge	
L	BMV1-p	MT20	3.0	8.0		
M	BMWW-t	MT20	5.0	8.0	2.50	2.00
N	BMWW-t	MT20	5.0	8.0		
O	BMWWW-t	MT20	7.0	8.0	4.25	2.00
P	BS-t	MT20	5.0	8.0		
Q	BMWWW-t	MT20	7.0	8.0	4.25	2.50
R	BMWW-t	MT20	5.0	8.0		
S	BMWW-t	MT20	5.0	8.0	2.50	2.00
T	BMV1-p	MT20	3.0	6.0		

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

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

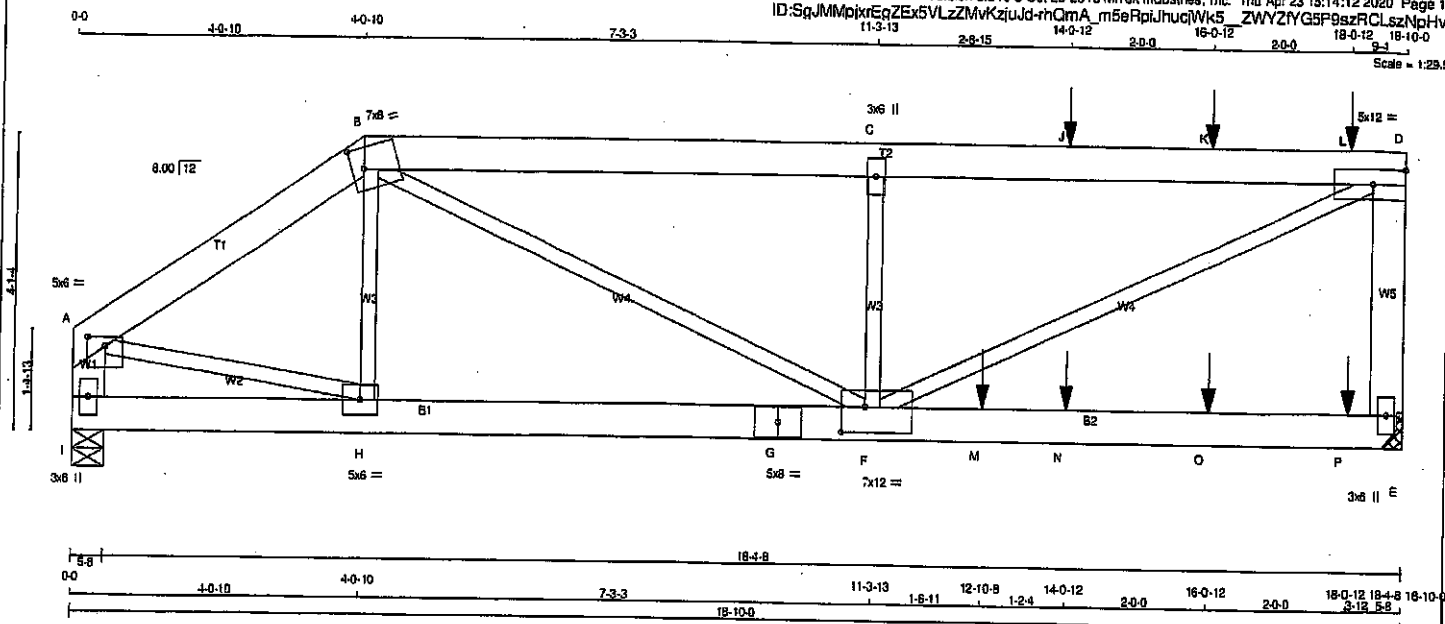


Structural component only
DWG# T-2006802 *3/2*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	T32	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:12 2020 Page 1
ID: SgJMMpkrEgZEx5VLzZMvKzjd-rhQmAm8eRpihucWk5_ZWY2YGSF9szRCLszNpHv



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x8	DRY
B - D	2x8	DRY
E - D	2x8	DRY
I - A	2x8	DRY
I - G	2x8	DRY
G - E	2x8	DRY

ALL WEBS
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	6.0	1.50	3.00
B	TTWW-m	MT20	7.0	8.0	3.50	2.00
C	TMVW-w	MT20	3.0	6.0		
D	TMVW-t	MT20	5.0	12.0	Edge	
E	BMV1-p	MT20	3.0	6.0		
F	BMVWW-t	MT20	7.0	12.0	4.25	4.00
G	BS-t	MT20	5.0	8.0		
H	BMVWW-t	MT20	5.0	6.0		
I	BMV1-p	MT20	3.0	6.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORIZ	DOWN	HORIZ
E	2449	0	2449	0
I	1584	0	1584	0

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	1730	1148	0	0	0	584	0
I	1118	741	0	0	0	378	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 18.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
R-TO		FROM	TO	FR-TO			
A-B	-1788 / 0	-91.8	-91.8	0.18 (1)	5.76	H-B	-411 / 0
B-C	-3401 / 0	-91.8	-91.8	0.58 (1)	3.94	A-H	0 / 1516
C-J	-3401 / 0	-91.8	-91.8	0.88 (1)	3.77	F-D	0 / 3780
J-K	-3401 / 0	-91.8	-91.8	0.88 (1)	3.77	B-F	0 / 2158
K-L	-3401 / 0	-91.8	-91.8	0.88 (1)	3.77	F-C	-959 / 0
L-D	-3401 / 0	-91.8	-91.8	0.88 (1)	3.77		0.23 (1)
E-D	-2131 / 0	0.0	0.0	0.31 (1)	6.93		
I-A	-1502 / 0	0.0	0.0	0.11 (1)	7.81		
I-H	0 / 0	-18.5	-18.5	0.13 (1)	10.00		
H-G	0 / 1470	-18.5	-18.5	0.88 (1)	10.00		
G-F	0 / 1470	-18.5	-18.5	0.88 (1)	10.00		
F-M	0 / 0	-18.5	-18.5	0.98 (1)	10.00		
M-N	0 / 0	-18.5	-18.5	0.98 (1)	10.00		
N-O	0 / 0	-18.5	-18.5	0.98 (1)	10.00		
O-P	0 / 0	-18.5	-18.5	0.98 (1)	10.00		
P-E	0 / 0	-18.5	-18.5	0.98 (1)	10.00		
E-I	0 / 0	-18.5	-18.5	0.98 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	14-0-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
K	18-0-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
L	18-0-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
M	12-10-8	-1534	-1534	---	BACK	VERT	TOTAL	---	C1
N	14-0-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
O	18-0-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
P	18-0-12	-29	-29	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 97 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN PLAT 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 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.63")
CALCULATED VERT. DEFL.(LL) = L/999 (0.22")
ALLOWABLE DEFL.(TL) = L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/531 (0.43")

CSI: TC=0.88/1.00 (C-D:1), BC=0.96/1.00 (E-F:1), WB=0.94/1.00 (D-F:1), SS=0.95/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.85 (G) (INPUT = 1.00)

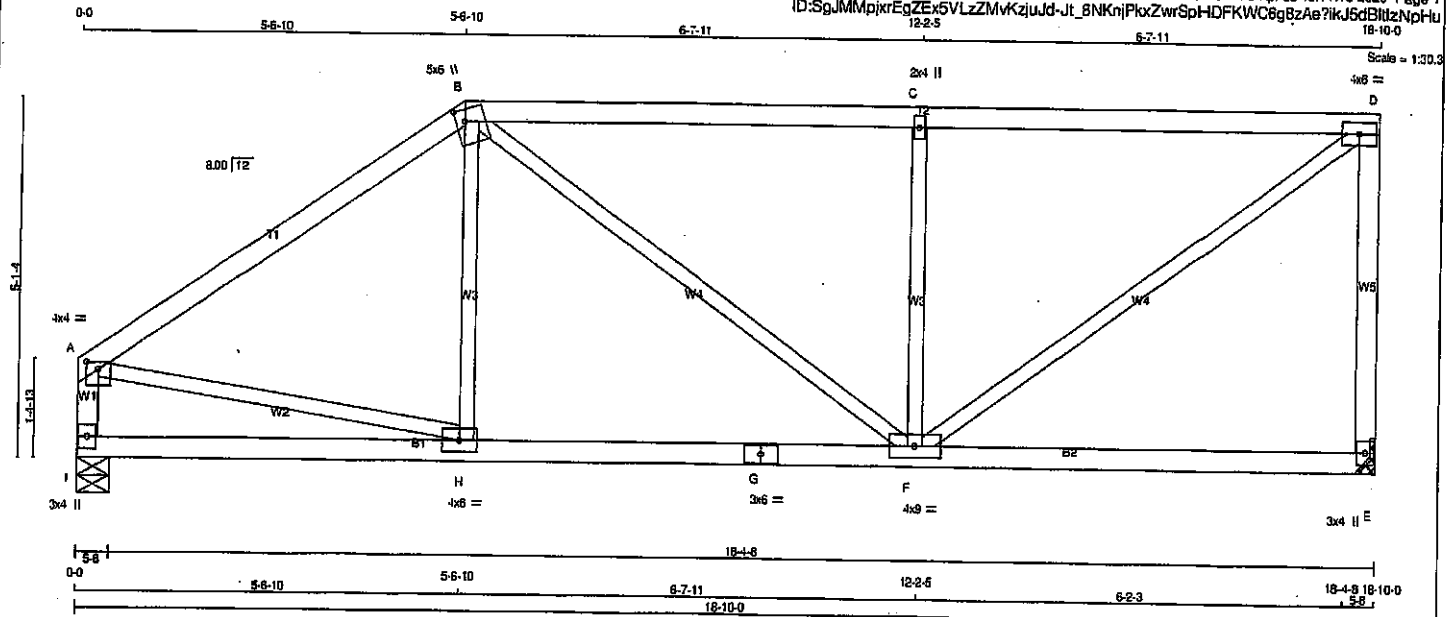


Structural component only
DWG# T-2008803

JOB NAME 408264	TRUSS NAME T33	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:13 2020 Page 1
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TOTAL WEIGHT = 75 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWV-p	MT20	4.0	4.0	1.25	2.00
B	TTWW+m	MT20	5.0	6.0	2.00	1.50
C	TMWV+m	MT20	2.0	4.0		
D	TMWV-l	MT20	4.0	6.0		
E	BMV1+P	MT20	3.0	4.0		
F	BMWVW-l	MT20	4.0	9.0		
G	BS-l	MT20	3.0	6.0		
H	BMWVW-l	MT20	4.0	6.0		
I	BMV1+P	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
E	1038 0	1038 0	MECHANICAL	
I	1038 0	1038 0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	734	482 / 0	0 / 0	0 / 0	0 / 0	0 / 0	252 / 0	0 / 0
I	734	482 / 0	0 / 0	0 / 0	0 / 0	0 / 0	252 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.81 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
A-B	-1038 / 0	-91.8	-91.8 0.55 (1)	5.38	H-B	-43 / 77	0.03 (4)
B-C	-1047 / 0	-91.8	-91.8 0.75 (1)	4.81	B-F	0 / 230	0.05 (1)
C-D	-1047 / 0	-91.8	-91.8 0.75 (1)	4.81	F-C	-755 / 0	0.29 (1)
E-D	-987 / 0	0.0	0.0 0.44 (1)	7.81	F-D	0 / 1291	0.28 (1)
I-A	-997 / 0	0.0	0.0 0.10 (1)	7.81	A-H	0 / 878	0.20 (1)
I-H	0 / 0	-18.5	-18.5 0.15 (4)	10.00			
H-G	0 / 861	-18.5	-18.5 0.27 (4)	10.00			
G-F	0 / 861	-18.5	-18.5 0.27 (4)	10.00			
F-E	0 / 0	-18.5	-18.5 0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. CC

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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.83")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.83")
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CSI: TC=0.75/1.00 (C-D:1), BC=0.27/1.00 (F-H:4), WB=0.29/1.00 (D-F:1), SS=0.30/1.00 (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 (PL)
MT20	618 354 1667 798 1987 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (A) (INPUT = 0.90)
JSI METAL= 0.31 (A) (INPUT = 1.00)

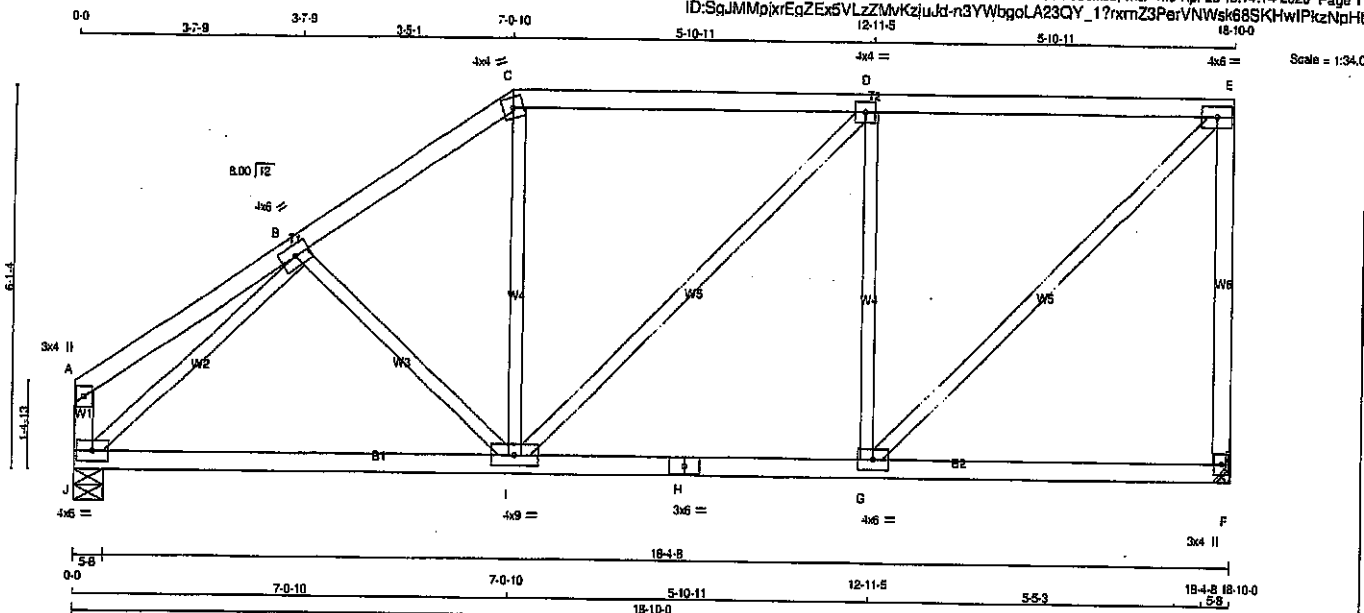


Structural component only
DWG# T-2006804

JOB NAME 408264	TRUSS NAME T34	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 23 15:14:14 2020 Page 1
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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
J - A	2x4	DRY	No.2
J - H	2x4	DRY	No.2
H - F	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORZ	UPLIFT
F	1038	0	1038	0
J	1038	0	0	5-8

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED
F	734 482 / 0
J	734 482 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.80 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM TO	LENGTH	FR-TO		LENGTH	
A-B	0 / 20	-91.8	-91.8 0.17 (1)	10.00	B-I	-109 / 11	0.05 (1)
B-C	-984 / 0	-91.8	-91.8 0.19 (1)	6.05	I-C	0 / 207	0.05 (1)
C-D	-805 / 0	-91.8	-91.8 0.57 (1)	5.80	I-D	0 / 24	0.01 (4)
D-E	-801 / 0	-91.8	-91.8 0.57 (1)	5.81	G-D	-674 / 0	0.39 (1)
F-E	-982 / 0	0.0	0.0 0.72 (1)	7.81	G-E	0 / 1122	0.25 (1)
J-A	-126 / 0	0.0	0.0 0.01 (1)	7.81	J-B	-1229 / 0	0.47 (1)
J-I	0 / 881	-18.5	-18.5 0.27 (4)	10.00			
I-H	0 / 801	-18.5	-18.5 0.27 (4)	10.00			
H-G	0 / 801	-18.5	-18.5 0.27 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

TOTAL WEIGHT = 81 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
DL = 8.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.63')
CALCULATED VERT. DEFL.(LL) = L/989 (0.03')
ALLOWABLE DEFL.(TL) = L/360 (0.63')
CALCULATED VERT. DEFL.(TL) = L/989 (0.10')

CSI: TC=0.72/1.00 (E-F:1), BC=0.27/1.00 (I-J:4), WB=0.47/1.00 (B-J:1), SSI=0.28/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS SEND=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.

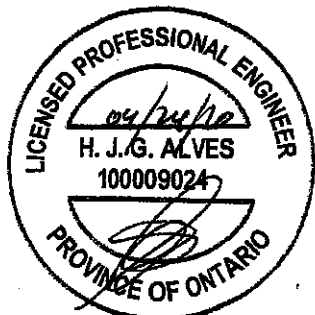
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (G) (INPUT = 0.90)
JSI METAL= 0.30 (B) (INPUT = 1.00)



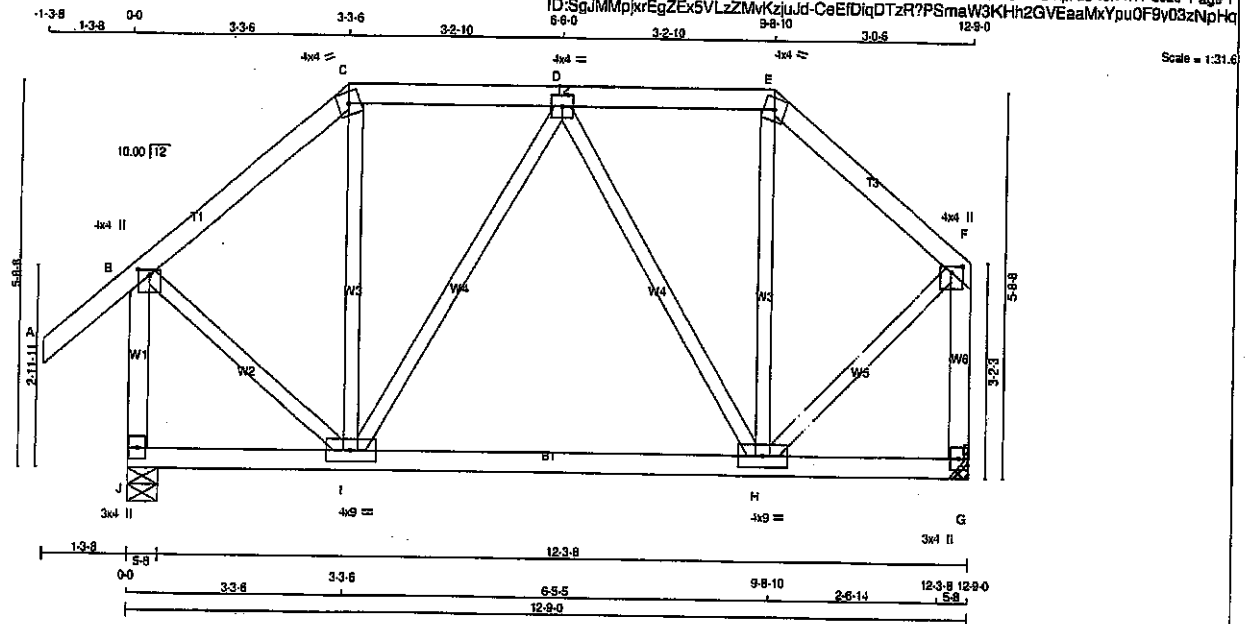
Structural component only
DWG# T-2006805

CONTINUED ON PAGE 2

JOB NAME 408264	TRUSS NAME T36	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 23 15:14:17 2020 Page 1
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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
J - 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	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMVW-l	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW-p	MT20	4.0	4.0	1.00	2.00
G	BMVW-l	MT20	3.0	4.0		
H	BMVW-l	MT20	4.0	9.0		
I	BMVW-l	MT20	4.0	9.0		
J	BMVW-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	DOWN
J	830	0	830	0
G	703	0	703	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	585	397 / 0	0 / 0	0 / 0	0 / 0	187 / 0	0 / 0
G	497	326 / 0	0 / 0	0 / 0	0 / 0	171 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED	FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	CS (LC)		FORCE (LBS)	CS (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0.41	-91.8	-91.8	10.00	I-C	0.51	0.02 (4)
B-C	-132.0	-91.8	-91.8	6.25	I-D	-192.0	0.13 (1)
C-D	-330.0	-91.8	-91.8	8.25	D-H	-224.0	0.16 (1)
D-E	-314.0	-91.8	-91.8	8.25	H-E	0.48	0.02 (4)
E-F	-411.0	-91.8	-91.8	8.25	B-I	0.419	0.09 (1)
J-B	-813.0	0.0	0.0	7.81	H-F	0.425	0.10 (1)
G-F	-689.0	0.0	0.0	12.11			
J-I	0.0	-18.5	-18.5	10.00			
I-H	0.427	-18.5	-18.5	10.00			
H-G	0.0	-18.5	-18.5	10.00			

TOTAL WEIGHT = 84 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. OC

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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CS: TC=0.17/1.00 (B-C:1), BC=0.15/1.00 (H-I:4), WB=0.16/1.00 (D-H:1), SS=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.58 (B) (INPUT = 0.90)
JSI METAL = 0.17 (B) (INPUT = 1.00)

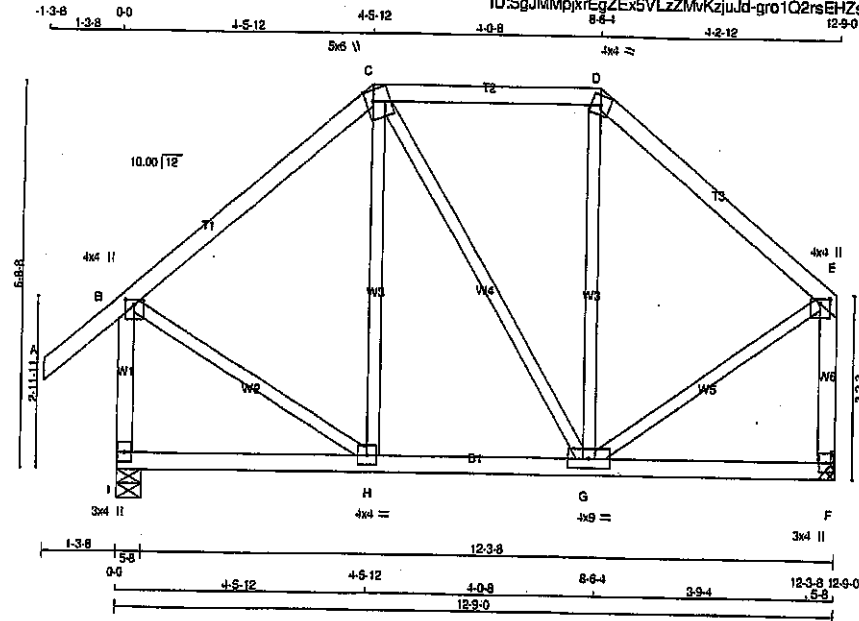


Structural component only
DWG# T-2006807

JOB NAME 408264	TRUSS NAME T37	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:18 2020 Page 1
ID: SgJMMpjxRgZExSVLzZMvKzjuJd-gr01Q2rsEHZstcLm4nrWDFpfy_xGg0A2FvuWYwZNPfp



Scale = 1:37.0

LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTWW+m	MT20	5.0	6.0	2.25	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW-I	MT20	4.0	3.0		
H	BMVW-I	MT20	4.0	4.0		
I	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
I	830	0	830	0
F	703	0	703	0

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
I	585 387.0 0.0 0.0 0.0 187.0 0.0
F	497 328.0 0.0 0.0 0.0 171.0 0.0

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

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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. CSI (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO			
A-B	0.41	-91.8	-91.8	0.13 (1)	10.00	H-C	-102.30	0.08 (1)	
B-C	-425.0	-91.8	-91.8	0.24 (1)	6.25	C-G	-18.0	0.02 (1)	
C-D	-318.0	-91.8	-91.8	0.19 (1)	6.25	G-D	-113.24	0.08 (1)	
D-E	-415.0	-91.8	-91.8	0.21 (1)	6.25	B-H	0.377	0.08 (1)	
I-B	-795.0	0.0	0.0	0.13 (1)	7.81	G-E	0.380	0.09 (1)	
F-E	-889.0	0.0	0.0	0.12 (1)	7.81				
I-H	0.0	-18.5	-18.5	0.08 (4)	10.00				
H-G	0.325	-18.5	-18.5	0.11 (4)	10.00				
G-F	0.0	-18.5	-18.5	0.07 (4)	10.00				

TOTAL WEIGHT = 64 b

(M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./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 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA D86-09, CSA D86-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.42")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.42")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.02")

CSI: TO=0.24/1.00 (B-C:1), BC=0.11/1.00 (G-H:4),
WB=0.09/1.00 (E-G:1), SS=0.14/1.00 (C-D:1)

DCL 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)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1657 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (B) (INPUT = 0.80)
JSI METAL = 0.17 (B) (INPUT = 1.00)

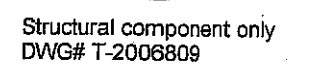
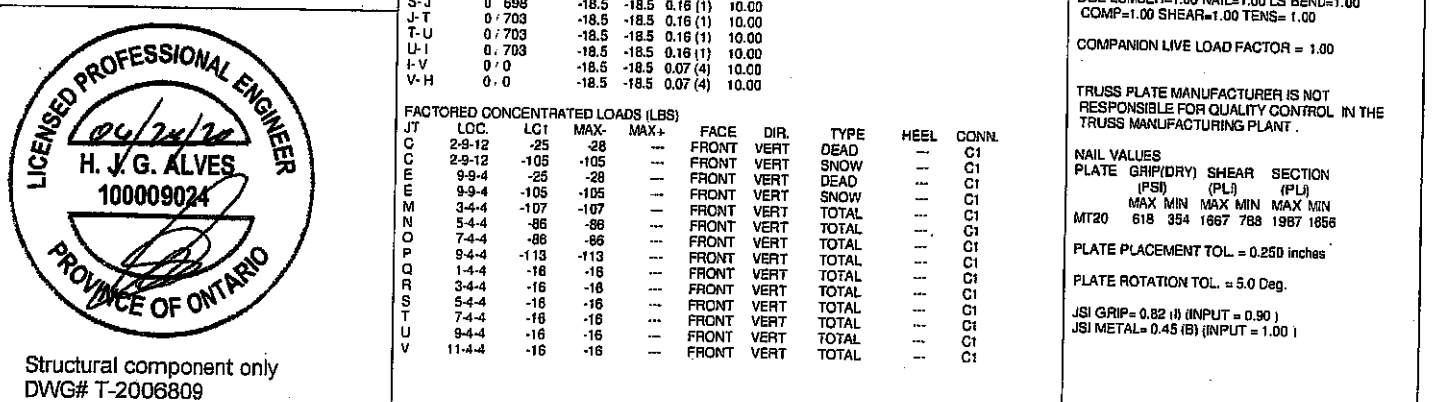


Structural component only
DWG# T-2006808

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 23 15:14:20 2020 Page 1
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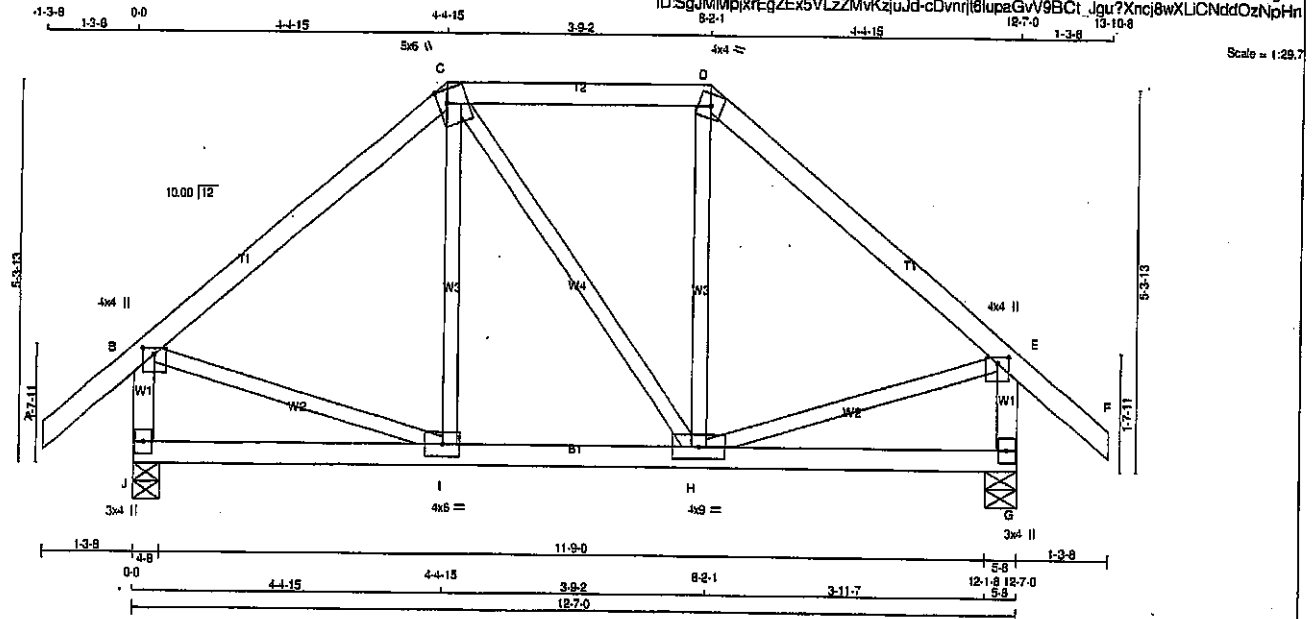
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JOB NAME 408264	TRUSS NAME T39	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:20 2020 Page 1
ID: SgJMMpJxrEgZEX5VLzZMvKzuJd-cDvnrl8lupaGvV9BCt Jgu?Xncj8wXlCNddOzNpHn



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
J - B	2x4	DRY	No.2
G - E	2x4	DRY	No.2
J - G	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMVW+p	MT20	4.0	4.0	1.00 2.00
G	BMV1+p	MT20	3.0	4.0	
H	BMVWW-t	MT20	4.0	9.0	
I	BMVWW-t	MT20	4.0	6.0	
J	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		DOWN		UP		BRG	
JT	VERT	HORZ	JT	VERT	HORZ	UP	DOWN	IN-SX	IN-SX
J	821	0	821	0	0	4-8	4-8		
G	821	0	821	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	578	393 / 0	0 / 0	0 / 0	0 / 0	185 / 0	0 / 0
G	578	393 / 0	0 / 0	0 / 0	0 / 0	185 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	I-C	-36 / 50	0.02 (4)
B-C	-528 / 0	-91.8 -91.8	0.23 (1)	6.25	C-H	0 / 0	0.00 (1)
C-D	-408 / 0	-91.8 -91.8	0.17 (1)	6.25	H-D	-36 / 50	0.02 (4)
D-E	-527 / 0	-91.8 -91.8	0.23 (1)	6.25	B-I	0 / 421	0.09 (1)
E-F	0 / 41	-91.8 -91.8	0.13 (1)	10.00	H-E	0 / 421	0.09 (1)
J-B	-785 / 0	0.0 0.0	0.08 (1)	7.81			
G-E	-785 / 0	0.0 0.0	0.08 (1)	7.81			
J-I	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
I-H	0 / 404	-18.5 -18.5	0.11 (4)	10.00			
H-G	0 / 0	-18.5 -18.5	0.08 (4)	10.00			

TOTAL WEIGHT = 3 X 58 = 175 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	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 NBCC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.23/1.00 (B-C:1), BC=0.11/1.00 (H-I:4), WB=0.09/1.00 (B-I:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

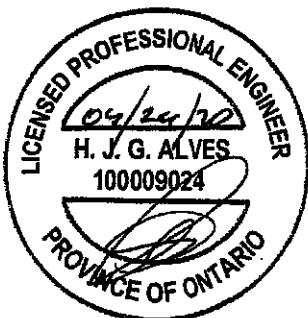
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.71 (B) (INPUT = 0.90)
JSI METAL= 0.20 (B) (INPUT = 1.00)

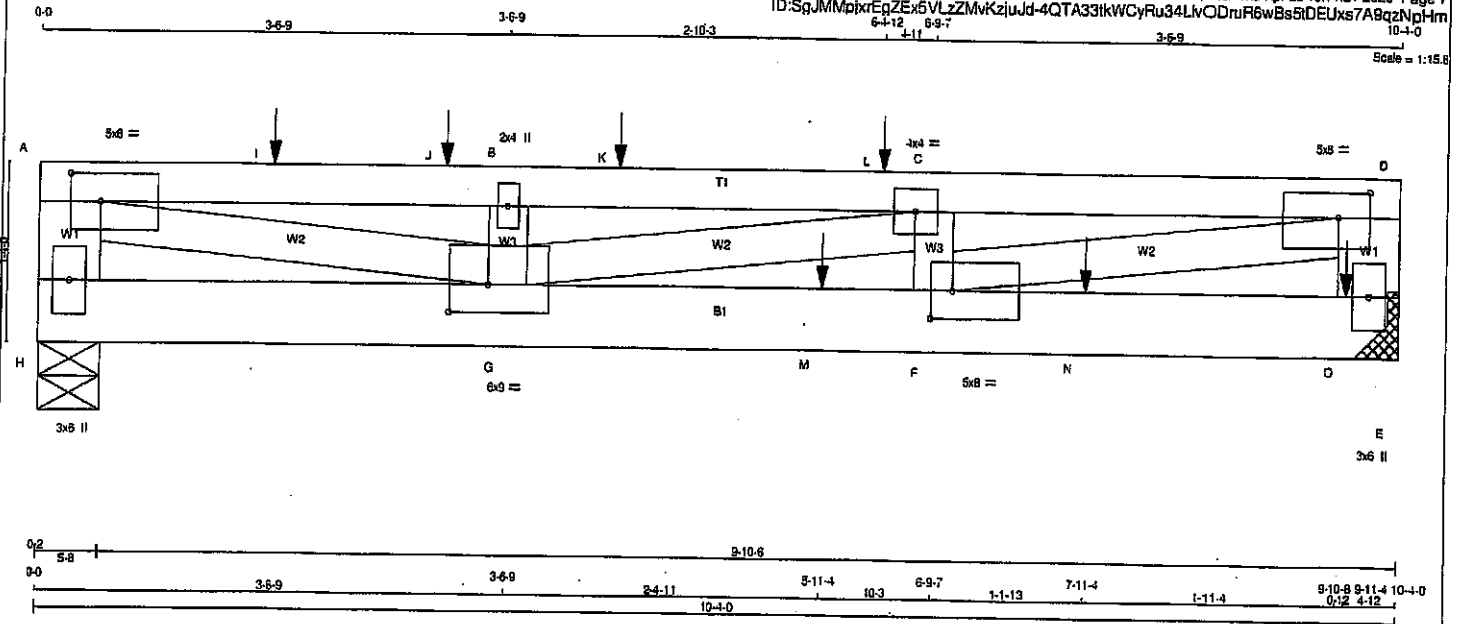


Structural component only
DWG# T-2006810

JOB NAME 408264	TRUSS NAME T40	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:21 2020 Page 1
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LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
H - A	2x6	DRY	No.2	SPF		
A - D	2x4	DRY	No.2	SPF		
E - D	2x6	DRY	No.2	SPF		
H - E	2x6	DRY	2100F 1,8E	SPF		
ALL WEBS	2x4	DRY	No.2	SPF		
DRY: SEASONED LUMBER.						

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
H-A 2	12	TOP
D-E 2	12	TOP
A-D 1	5	SIDE(570.5)
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H-E 2	6	SIDE(634.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x4 1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	8.0	2.50 2.75
B	TMVW-w	MT20	2.0	4.0	
C	TMVW-t	MT20	4.0	4.0	
D	TMVW-1	MT20	5.0	8.0	2.25 2.75
E	BMV1-p	MT20	3.0	6.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	3832	0	3832	0
E	5088	0	5088	0

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

UNFACTORED REACTIONS

1ST LOSE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED
H	2706 1799 0 0 0 0 907 0 0 0
E	3578 2384 0 0 0 0 1194 0 0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.18 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF) CSI (LC)	MEMB.	FORCE (LBS) CSI (LC)
FR-TO		FROM TO	FR-TO	
H-A	-3454 0	0.0 0.0 0.07 (1)	F-D	0 13174 0.71 (1)
A-I	-10970 0	-91.8 -91.8 0.51 (1)	A-G	0 11363 0.61 (1)
I-J	-10970 0	-91.8 -91.8 0.51 (1)	F-C	-765 0 0.08 (1)
J-B	-10970 0	-91.8 -91.8 0.51 (1)	G-B	-2277 0 0.08 (1)
B-K	-10970 0	-91.8 -91.8 0.39 (1)	G-C	-1823 0 0.09 (1)
K-L	-10970 0	-91.8 -91.8 0.39 (1)		
L-C	-10970 0	-91.8 -91.8 0.39 (1)		
C-D	-12719 0	-91.8 -91.8 0.30 (1)		
D-E	-3617 0	0.0 0.0 0.08 (1)		
H-G	0 0	-18.5 -18.5 0.15 (1)		
G-M	0 12719	-18.5 -18.5 0.48 (1)		
M-F	0 12719	-18.5 -18.5 0.48 (1)		
F-N	0 0	-18.5 -18.5 0.17 (1)		
N-O	0 0	-18.5 -18.5 0.17 (1)		
O-E	0 0	-18.5 -18.5 0.17 (1)		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
I	1-9-4	-729	-729	---	FRONT	VERT	TOTAL	C1
J	3-1-0	-729	-729	---	FRONT	VERT	TOTAL	C1
K	4-4-12	-729	-729	---	FRONT	VERT	TOTAL	C1
L	6-4-12	-1098	-1098	---	FRONT	VERT	TOTAL	C1
M	5-11-4	-2431	-2431	---	FRONT	VERT	TOTAL	C1
N	7-11-4	-1020	-1020	---	FRONT	VERT	TOTAL	C1
O	9-11-4	-1025	-1025	---	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 3 X 44 = 132 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 8.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.34")
CALCULATED VERT. DEFL.(LL) = L/949 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/517 (0.24")

CSI: TC=0.51/1.00 (A-B:1), BC=0.48/1.00 (F-G:1), WB=0.71/1.00 (D-F:1), SS=0.40/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354 1667 788 1897 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.79 (D) (INPUT = 1.00)



Structural component only
DWG# T-2006811

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	T40	1	3	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:21 2020 Page 2
ID: SqJMMoixrEgZE5VLzZMvKziJd-4QTA33KWCyRu34LvODruR6wBs5iDEUxs7A9gzNpHm

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
F	BMWV-1	MT20	5.0	8.0	2.50	2.00
G	BMWVW-1	MT20	6.0	9.0	2.50	3.50
H	BMV1-p	MT20	3.0	6.0		



Structural component only
DWG# T-2006811

7/2

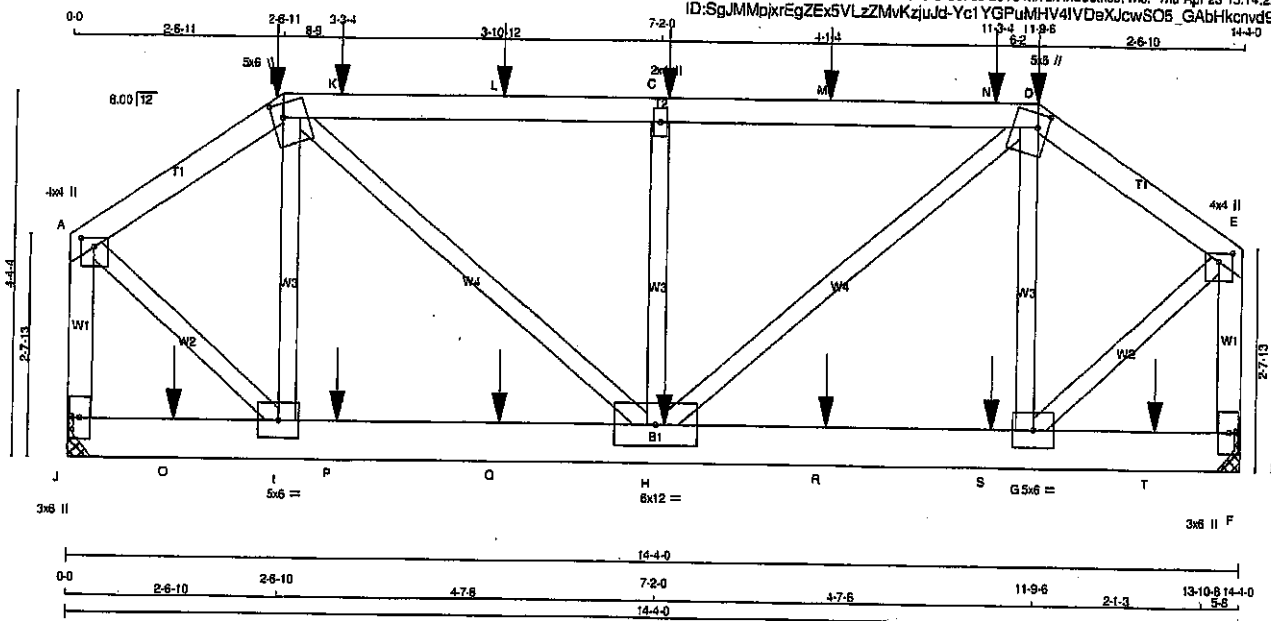
JOB NAME 408264	TRUSS NAME T41	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:14:22 2020 Page 1

ID: SgJMMpjrEgZx5VLzZMvKzjUd-Ycl YGPuMHV4IVDeXJcwS05_GABHkcnvd9WsjHzNpHl

Scale = 1:25.5



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY
B - D	2x4	DRY
D - E	2x4	DRY
J - A	2x4	DRY
F - E	2x4	DRY
J - F	2x6	DRY

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (tables in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMW+p	MT20	4.0	4.0	1.25	2.00
B	TMW+m	MT20	5.0	6.0	2.00	1.50
C	TMW+w	MT20	2.0	4.0		
D	TMW+m	MT20	5.0	6.0	2.00	1.50
E	TMW+p	MT20	4.0	4.0	1.25	2.00
F	BMV1-p	MT20	3.0	6.0		
G	BMVW-1	MT20	5.0	6.0		
H	BMVW-1	MT20	6.0	12.0		
I	BMVW-1	MT20	5.0	6.0		
J	BMV1+p	MT20	3.0	6.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP-LIFT	IN-SX
J	1200	0	0	MECHANICAL
F	1212	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
	847	562 / 0	0 / 0	0 0	0 0	286 / 0	0 / 0
F	856	598 / 0	0 / 0	0 0	0 0	288 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	-848 / 0	-91.8 -91.8 0.12 (1)	6.25	I-B	-460 / 0	0.13 (1)	
B-K	-1194 / 0	-91.8 -91.8 0.54 (1)	4.99	B-H	0 / 863	0.16 (1)	
K-L	-1194 / 0	-91.8 -91.8 0.54 (1)	4.99	H-C	-770 / 0	0.21 (1)	
L-C	-1194 / 0	-91.8 -91.8 0.54 (1)	4.99	H-D	0 / 854	0.16 (1)	
C-M	-1194 / 0	-91.8 -91.8 0.54 (1)	4.99	G-D	-467 / 0	0.13 (1)	
M-N	-1194 / 0	-91.8 -91.8 0.54 (1)	4.99	A-I	0 / 922	0.23 (1)	
N-D	-1194 / 0	-91.8 -91.8 0.54 (1)	4.99	G-E	0 / 931	0.23 (1)	
D-E	-857 / 0	-91.8 -91.8 0.12 (1)	5.25				
J-A	-1186 / 0	0.0 0.0 0.17 (1)	7.30				
F-E	-1196 / 0	0.0 0.0 0.17 (1)	7.28				
J-O	0 / 0	-18.5 -18.5 0.05 (4)	10.00				
O-I	0 / 0	-18.5 -18.5 0.05 (4)	10.00				
I-P	0 / 682	-18.5 -18.5 0.14 (1)	10.00				
P-Q	0 / 682	-18.5 -18.5 0.14 (1)	10.00				
Q-H	0 / 682	-18.5 -18.5 0.14 (1)	10.00				
H-R	0 / 699	-18.5 -18.5 0.14 (1)	10.00				
R-S	0 / 699	-18.5 -18.5 0.14 (1)	10.00				
S-G	0 / 699	-18.5 -18.5 0.14 (1)	10.00				
G-T	0 / 0	-18.5 -18.5 0.05 (4)	10.00				
T-F	0 / 0	-18.5 -18.5 0.05 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-6-11	-20	-22	---	FRONT	VERT	DEAD	---	C1
B	2-6-11	-102	-102	---	FRONT	VERT	SNOW	---	C1
C	7-3-4	-86	-86	---	FRONT	VERT	TOTAL	---	C1
D	11-9-6	-20	-22	---	FRONT	VERT	DEAD	---	C1
D	11-9-6	-102	-102	---	FRONT	VERT	SNOW	---	C1
H	7-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1
K	3-3-4	-99	-99	---	FRONT	VERT	TOTAL	---	C1
L	5-3-4	-86	-86	---	FRONT	VERT	TOTAL	---	C1
M	9-3-4	-86	-86	---	FRONT	VERT	TOTAL	---	C1
N	11-3-4	-109	-109	---	FRONT	VERT	TOTAL	---	C1
O	1-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1
P	3-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1
Q	5-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1
R	9-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1
S	11-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1
T	13-3-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1

TOTAL WEIGHT = 71 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C/C

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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 085-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.48")
CALCULATED VERT. DEFL.(LL) = L/899 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.48")
CALCULATED VERT. DEFL.(TL) = L/998 (0.04")

CSI: TC=0.54/1.00 (C-D:1), SC=0.14/1.00 (H-C:1),
WB=0.23/1.00 (E-G:1), SSI=0.30/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (A) (INPUT = 0.90)
JSI METAL= 0.24 (A) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2006812

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T61	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Tue Apr 28 11:16:56 2020 Page 2

ID:lv307qsCvJh1/shbR4r5BVziesS-Lic9s172NjorGVCaldrSYH37Q6zxC2918TpnLorMOGT

PLATES (table is in inches)

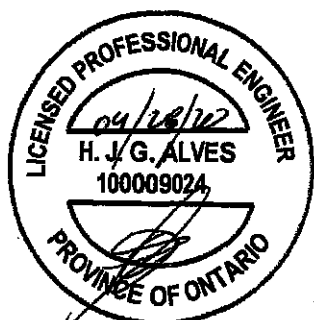
JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMW1-I	MT20	8.0	9.0	2.75	
C	TMBWW-H	MT20	5.0	6.0		
D	TTWW-m	MT20	8.0	9.0	2.75	2.75
E	TMBW-w	MT20	3.0	6.0		
F	TMBWW-I	MT20	5.0	6.0		
G	TS-I	MT20	5.0	6.0		
H	TMBW-w	MT20	3.0	6.0		
I	TTWW-m	MT20	6.0	9.0	2.75	2.75
J	TMBWW-I	MT20	5.0	6.0		
K	TMBMW1-I	MT20	8.0	9.0	2.75	1.50
M	TMBWW-I	MT20	5.0	6.0		
N	TMBWWW-I	MT20	7.0	8.0	4.25	2.00
O	BS-I	MT20	5.0	6.0		
P	TMBWWW-I	MT20	7.0	9.0	4.25	3.50
Q	TMBWW-I	MT20	5.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AC	11-3-4	-28	-28	-	BACK	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

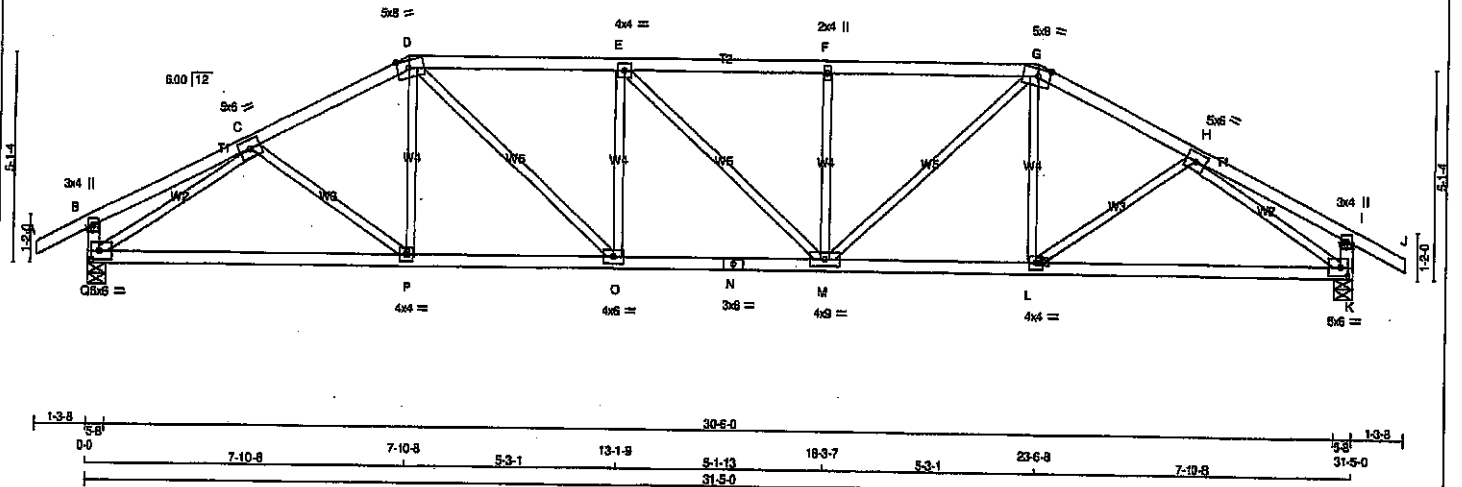


Structural component only
DWG# T-2007750 *af*

JOB NAME 408265	TRUSS NAME T62	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Tue Apr 28 11:18:57 2020 Page 1
ID:Lv307gsCyJh1lsHbR4r5BVziesS-puAX3NOg8cwhufmmRKNh4Ub8RYK9xO9AN7YKu6zMDGS
13-8 0-0 4-0-8 4-0-8 3-10-0 7-10-8 5-3-1 13-1-9 5-1-13 18-3-7 5-3-1 3-10-0 27-4-8 4-0-8 31-5-0 1-3-8
Scale = 1:51.5



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2	
D - G	2x4	DRY	No.2	
G - J	2x4	DRY	No.2	
O - B	2x4	DRY	No.2	
K - I	2x4	DRY	No.2	
O - N	2x4	DRY	No.2	
N - K	2x4	DRY	No.2	

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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	5.0	8.0		
D	TTWW-m	MT20	5.0	8.0	2.25	3.50
E	TMVW-t	MT20	4.0	4.0		
F	TMVW-w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	8.0	2.25	3.50
H	TMVW-t	MT20	5.0	8.0		
I	TMV+p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	8.0	2.50	2.25
L	BMVW-t	MT20	4.0	4.0		
M	BMVW-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0		
P	BMVW-t	MT20	4.0	4.0		
Q	BMVW-t	MT20	5.0	8.0	2.50	2.25

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	DOWN	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	BRG	IN-SX
Q	1856	0	0	1856	0	0	5-8	5-8	5-8
K	1856	0	0	1856	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
Q	1310	873/0	0/0	0/0	0/0
K	1310	873/0	0/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 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 (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	C-P	0/72	0.02 (4)
B-C	0/16	-91.8	-91.8 0.20 (1)	10.00	P-D	0/134	0.04 (4)
C-D	-2417/0	-91.8	-91.8 0.28 (1)	4.17	D-O	0/887	0.20 (1)
D-E	-2803/0	-91.8	-91.8 0.49 (1)	3.70	O-E	-517/0	0.20 (1)
E-F	-2802/0	-91.8	-91.8 0.49 (1)	3.70	E-M	-2/0	0.00 (1)
F-G	-2802/0	-91.8	-91.8 0.49 (1)	3.70	M-F	-518/0	0.20 (1)
G-H	-2417/0	-91.8	-91.8 0.28 (1)	4.17	M-G	0/885	0.20 (1)
H-I	0/16	-91.8	-91.8 0.20 (1)	10.00	L-G	0/135	0.04 (4)
I-J	0/28	-91.8	-91.8 0.12 (1)	10.00	L-H	0/72	0.02 (4)
Q-B	-270/0	0.0	0.0 0.03 (1)	7.81	Q-C	-2816/0	1.00 (1)
K-I	-270/0	0.0	0.0 0.03 (1)	7.81	H-K	-2816/0	1.00 (1)
Q-P	0/2126	-18.5	-18.5 0.48 (1)	10.00			
P-O	0/2149	-18.5	-18.5 0.47 (1)	10.00			
O-N	0/2803	-18.5	-18.5 0.51 (1)	10.00			
N-M	0/2803	-18.5	-18.5 0.51 (1)	10.00			
M-L	0/2149	-18.5	-18.5 0.48 (1)	10.00			
L-K	0/2126	-18.5	-18.5 0.48 (1)	10.00			

TOTAL WEIGHT = 125 lb

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 25.6 PSF
DL	6.0 PSF
BOT CH.	LL = 0.0 PSF
DL	7.4 PSF
TOTAL LOAD	= 39.0 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 NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TO=0.49/1.00 (D-E:1), BC=0.51/1.00 (M-O:1),
WB=1.00/1.00 (H-K:1), SSI=0.22/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES	
PLATE GRIP(DRY) SHEAR SECTION	
(PS) (FL)	
MAX MIN MAX MIN MAX MIN	
MT20	618 354 1687 788 1987 1686

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (Q) (INPUT = 0.80)
JSI METAL = 0.91 (N) (INPUT = 1.00)



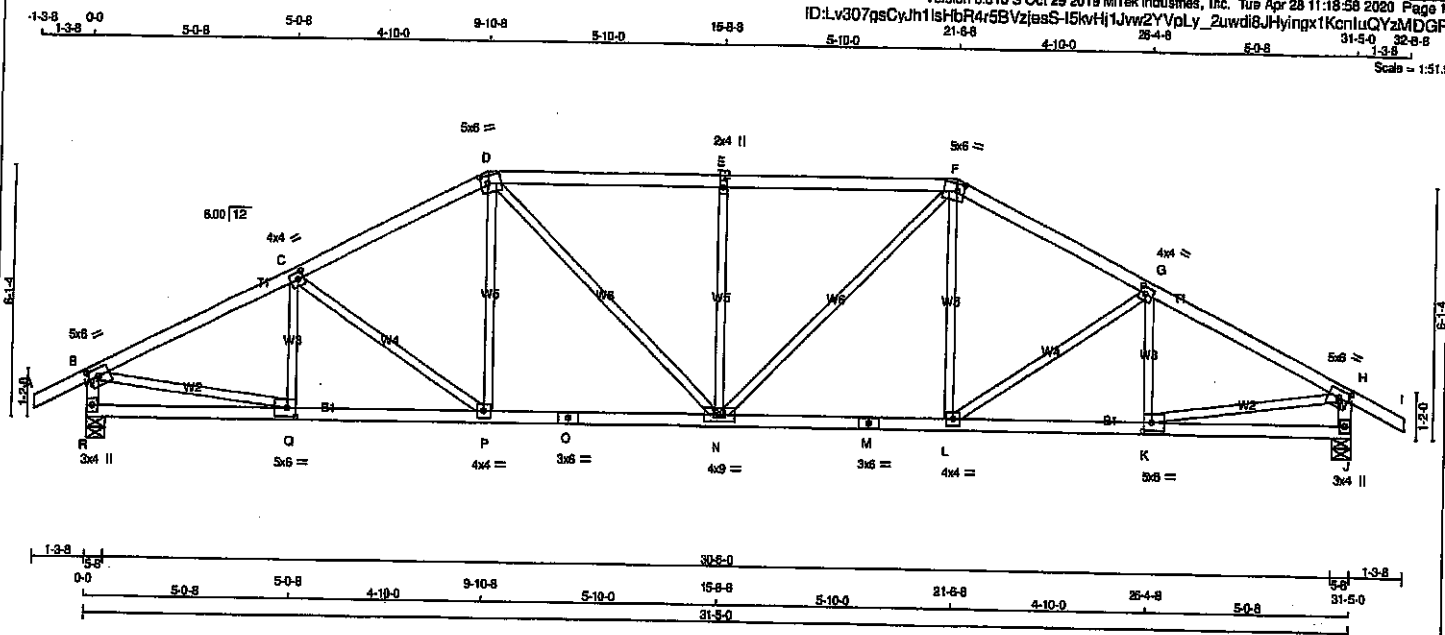
Structural component only
DWG# T-2007751

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T63	1	1	GREEN PARK HOMES	

Jamarsack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:18:58 2020 Page 1
ID: Lv307psCyjh1shbR4r59VzjsS-15kvHjUvw2YVpLy_2uwdi8JHyngx1KonuQYzMDGR

Scale = 1:51.9



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
E - F	2x4	DRY	No.2
G - H	2x4	DRY	No.2
I - J	2x4	DRY	No.2
K - L	2x4	DRY	No.2
M - N	2x4	DRY	No.2
O - P	2x4	DRY	No.2
Q - R	2x4	DRY	No.2
S - T	2x4	DRY	No.2

ALL WEBS 2x3 DRY EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	8.0	2.25	2.75
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TTWW-m	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TMVW-t	MT20	5.0	6.0	2.25	2.75
H	BMV1-p	MT20	3.0	4.0		
I	BMVW-t	MT20	5.0	6.0	2.50	2.50
J	BMVW-t	MT20	4.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BS-t	MT20	4.0	9.0		
M	BS-t	MT20	3.0	8.0		
N	BMVW-t	MT20	4.0	4.0		
O	BMVW-t	MT20	5.0	6.0	2.50	2.50
P	BMVW-t	MT20	5.0	6.0		
Q	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
R	1856	0	1856	0
J	1856	0	1856	0

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
R	1310	873 / 0	0 / 0	0 / 0	437 / 0	0 / 0
J	1310	873 / 0	0 / 0	0 / 0	437 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.94 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	FACTORED		MEMB.	MAX. FACTORED	FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)		FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 28	-91.8	-91.8 0.12 (1)	Q-C	-293 / 0	0.06 (1)	
B-C	-2493 / 0	-91.8	-91.8 0.37 (1)	C-P	-273 / 0	0.17 (1)	
C-D	-2269 / 0	-91.8	-91.8 0.34 (1)	P-D	0 / 259	0.08 (1)	
D-E	-2411 / 0	-91.8	-91.8 0.49 (1)	D-N	0 / 539	0.12 (1)	
E-F	-2411 / 0	-91.8	-91.8 0.49 (1)	N-E	-656 / 0	0.38 (1)	
F-G	-2269 / 0	-91.8	-91.8 0.34 (1)	N-F	0 / 539	0.12 (1)	
G-H	-2493 / 0	-91.8	-91.8 0.37 (1)	L-F	0 / 259	0.08 (1)	
H-I	0 / 28	-91.8	-91.8 0.12 (1)	L-G	-273 / 0	0.17 (1)	
R-B	-1813 / 0	0.0	0.0 0.18 (1)	K-G	-293 / 0	0.06 (1)	
J-H	-1813 / 0	0.0	0.0 0.18 (1)	B-Q	0 / 2282	0.51 (1)	
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	K-H	0 / 2282	0.51 (1)	
Q-P	0 / 2250	-18.5	-18.5 0.42 (1)				
P-O	0 / 2029	-18.5	-18.5 0.39 (1)				
O-N	0 / 2029	-18.5	-18.5 0.39 (1)				
N-M	0 / 2029	-18.5	-18.5 0.39 (1)				
M-L	0 / 2029	-18.5	-18.5 0.39 (1)				
L-K	0 / 2250	-18.5	-18.5 0.42 (1)				
K-J	0 / 0	-18.5	-18.5 0.10 (4)				

TOTAL WEIGHT = 128 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. O.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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05)
CALCULATED VERT. DEFL.(LL) = L/899 (0.12)
ALLOWABLE DEFL.(TL) = L/360 (1.05)
CALCULATED VERT. DEFL.(TL) = L/999 (0.23)
CSI: TC=0.49/1.00 (D-E:1), BC=0.42/1.00 (K-L:1), WB=0.51/1.00 (H-K:1), SSI=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

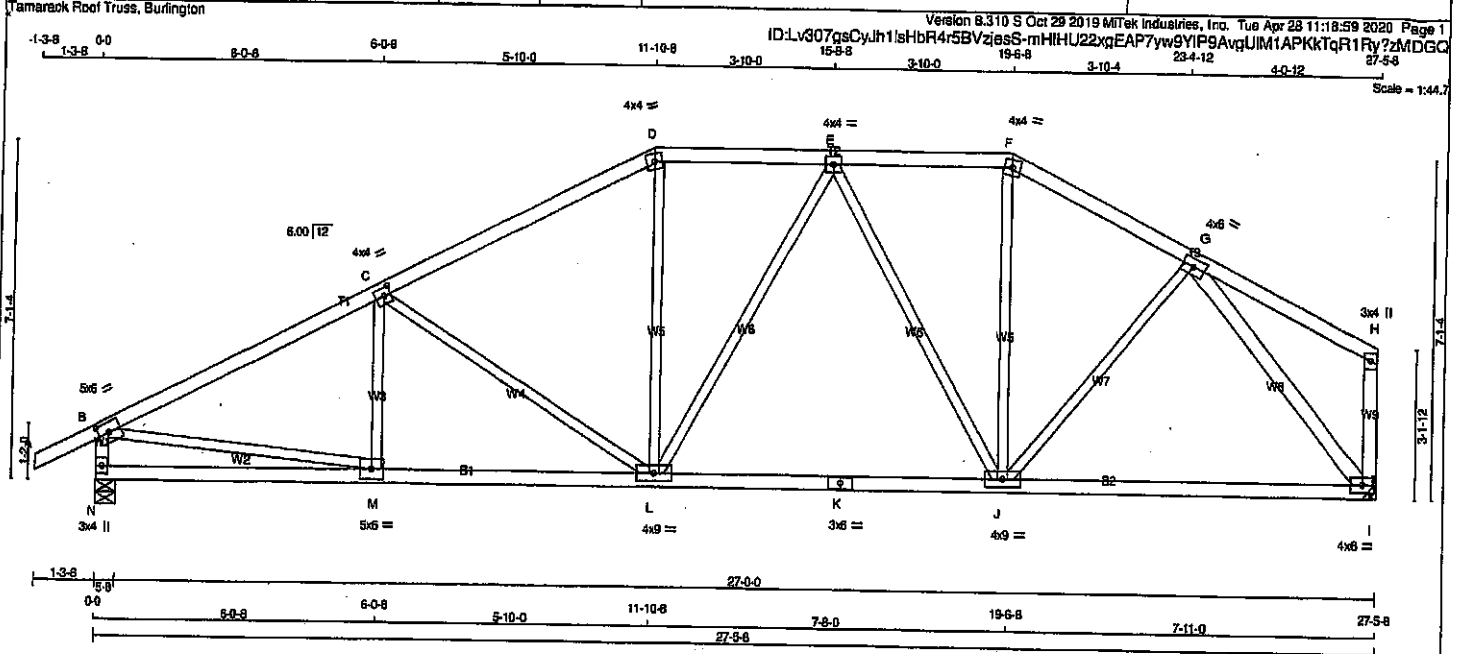
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (B) (INPUT = 0.90)
JSI METAL=0.98 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007752

JOB NAME 408265	TRUSS NAME T64A	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 23 11:18:59 2020 Page 1	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	6.0	2.50	2.75
C	TMVW-1	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0		
E	TMVW-1	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVW-1	MT20	4.0	6.0		
H	TMV-p	MT20	3.0	4.0		
I	BMVW-1	MT20	4.0	6.0		
J	BMVW-1	MT20	4.0	6.0		
K	BS-1	MT20	3.0	6.0		
L	BMVW-1	MT20	4.0	6.0		
M	BMVW-1	MT20	5.0	6.0		
N	BMV-1	MT20	3.0	4.0		

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	BRG	BRG
N	1838 0	N	1838 0	5-8	5-8	5-8	5-8
I	1514 0	I	1514 0	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
N	1158 772/0	N	1158 772/0
I	1070 703/0	I	1070 703/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	MAX. (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0/28	-91.8	-91.8 0.12 (1)	M-C	-151/42	0.04 (1)	0.04 (1)
B-C	-2151/0	-91.8	-91.8 0.51 (1)	C-L	-534/0	0.51 (1)	0.51 (1)
C-D	-1710/0	-91.8	-91.8 0.46 (1)	L-D	0/413	0.09 (1)	0.09 (1)
D-E	-1509/0	-91.8	-91.8 0.19 (1)	E-L	-31/30	0.01 (4)	0.01 (4)
E-F	-1278/0	-91.8	-91.8 0.18 (1)	L-E	-483/0	0.60 (1)	0.60 (1)
F-G	-1443/0	-91.8	-91.8 0.20 (1)	J-F	0/361	0.08 (1)	0.08 (1)
G-H	0/19	-91.8	-91.8 0.23 (1)	J-G	0/238	0.07 (1)	0.07 (1)
H-B	-1590/0	0.0	0.0 0.16 (1)	B-M	0/1969	0.44 (1)	0.44 (1)
I-H	-140/0	0.0	0.0 0.02 (1)	G-I	-1702/0	0.80 (1)	0.80 (1)
N-M	0/0	-18.5	-18.5 0.14 (4)				
M-L	0/1849	-18.5	-18.5 0.39 (1)				
L-K	0/1510	-18.5	-18.5 0.41 (4)				
K-J	0/1510	-18.5	-18.5 0.41 (4)				
J-I	0/1081	-18.5	-18.5 0.37 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN PLAT 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 COMPLES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.92")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.92")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TO=0.51/1.00 (B-C:1), BC=0.41/1.00 (J-L:4), WB=0.80/1.00 (G-I:1), SS=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(FSI) (PLJ) (PLJ)
MAX MIN MAX MIN MAX MIN
MT20 618 364 1897 788 1987 1898

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (M) (INPUT = 0.90)
JSI METAL= 0.58 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007753

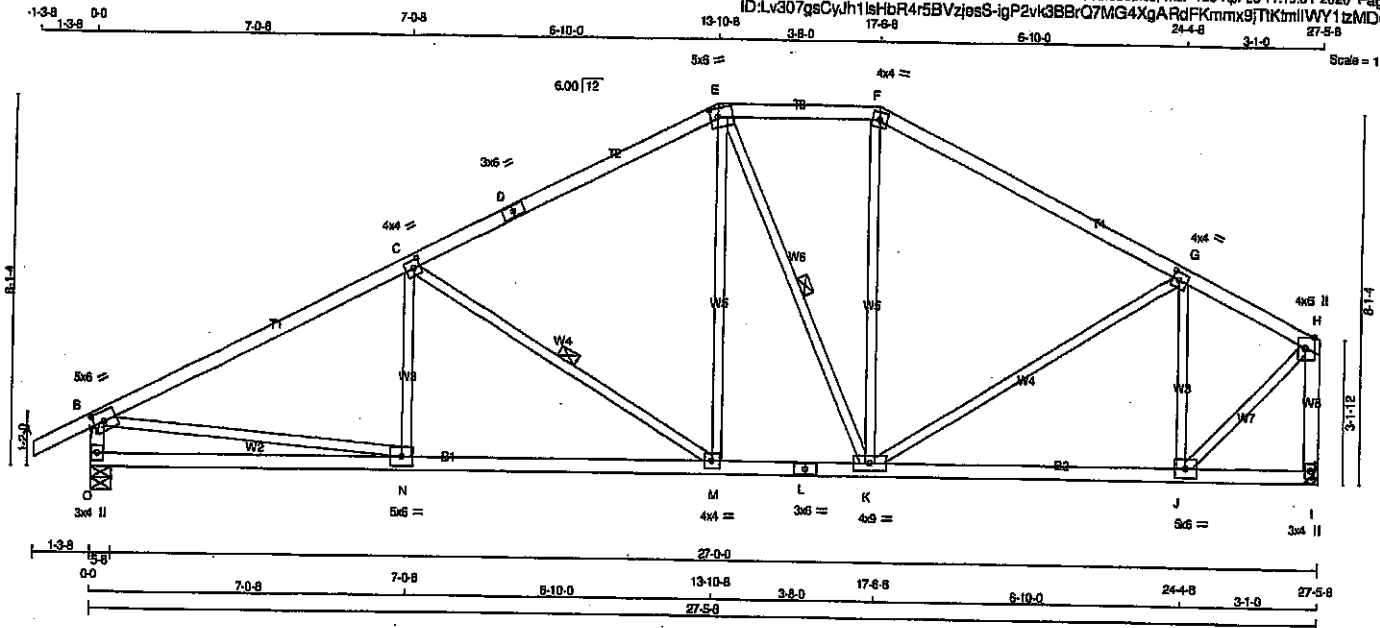
JOB NAME 408265	TRUSS NAME T65A	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Famarack Roof Truss, Burlington

Version 8.310 8 Oct 2019 Mtek Industries, Inc. Tue Apr 28 11:19:01 2020 Page 1

ID: Lv307gsCyJh1stHbR4r5BVzjssS-igP2vk3BBcQ7MG4XgARdFKmmx9jTKmllWY1zMDGO

Scale = 1:46.8



TOTAL WEIGHT = 119 lb

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

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	5.0	6.0	2.25	2.00
F	TTW-m	MT20	4.0	4.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-p	MT20	4.0	6.0	Edge	
I	BMV1-p	MT20	3.0	4.0		
J	BMVW-t	MT20	5.0	6.0		
K	BMVW-t	MT20	4.0	9.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-t	MT20	5.0	6.0		
O	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
O	1638 0	1638 0	5-8	5-8
I	1514 0	1514 0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
O	1155 772 / 0 0 / 0 0 / 0 384 / 0 0 / 0
I	1070 703 / 0 0 / 0 0 / 0 368 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.82 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, E-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	FR-TO
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	N-C	-91 / 89	0.03 (4)		
B-C	-2147 / 0	-91.8	-91.8	0.72 (1)	3.82	C-M	-734 / 0	0.34 (1)		
C-D	-1523 / 0	-91.8	-91.8	0.83 (1)	4.50	M-E	0 / 478	0.11 (1)		
D-E	-1523 / 0	-91.8	-91.8	0.83 (1)	4.50	E-K	-234 / 0	0.12 (1)		
E-F	-1239 / 0	-91.8	-91.8	0.17 (1)	5.58	K-F	0 / 198	0.05 (4)		
F-G	-1409 / 0	-91.8	-91.8	0.56 (1)	4.79	K-G	0 / 223	0.05 (1)		
G-H	-1115 / 0	-91.8	-91.8	0.42 (1)	5.43	J-G	-854 / 0	0.28 (1)		
O-B	-1585 / 0	0.0	0.0	0.16 (1)	6.58	B-N	0 / 1985	0.44 (1)		
I-H	-1503 / 0	0.0	0.0	0.26 (1)	6.70	J-H	0 / 1424	0.32 (1)		
O-N	0 / 0	-18.5	-18.5	0.23 (4)	10.00					
N-M	0 / 1951	-18.5	-18.5	0.42 (1)	10.00					
M-L	0 / 1337	-18.5	-18.5	0.29 (1)	10.00					
L-K	0 / 1337	-18.5	-18.5	0.29 (1)	10.00					
K-J	0 / 1048	-18.5	-18.5	0.25 (1)	10.00					
J-I	0 / 0	-18.5	-18.5	0.14 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
BOT CH.	DL = 8.0 PSF
	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.92")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.92")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.72/1.00 (B-C:1), BC=0.42/1.00 (M-N:1), WB=0.44/1.00 (B-N:1), SSI=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.59 (B) (INPUT = 1.00)

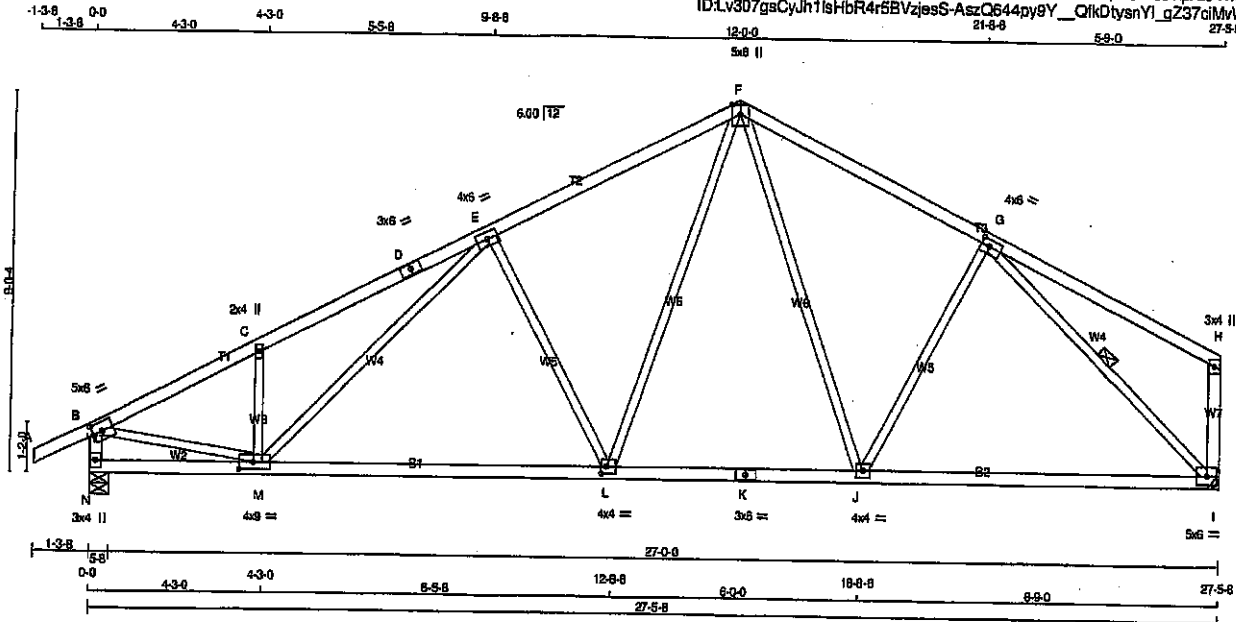


Structural component only
DWG# T-2007754

JOB NAME 408265	TRUSS NAME T66A	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Framarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 11:19:02 2020 Page 1
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Scale = 1:50.7

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
H - I	2x4	DRY	No.2	SPF
I - K	2x4	DRY	No.2	SPF
K - L	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-1	MT20	5.0	6.0	2.50	2.75
C TMVW-1	MT20	2.0	4.0		
D TS-1	MT20	3.0	6.0		
E TMVW-1	MT20	4.0	6.0		
F TMVW-1	MT20	5.0	6.0	Edge	
G TMVW-1	MT20	4.0	6.0	2.00	2.50
H TMV-1	MT20	3.0	4.0		
I BMVW-1	MT20	5.0	6.0		
J BMVW-1	MT20	4.0	4.0		
K BS-1	MT20	3.0	6.0		
L BMVW-1	MT20	4.0	4.0	2.00	1.50
M BMVW-1	MT20	4.0	4.0	2.00	4.25
N BMV-1	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	UPLIFT		
N	1638	0	1638	0	5-8	5-8
I	1514	0	1514	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	MAX MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1156	772 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0
I	1070	703 / 0	0 / 0	0 / 0	0 / 0	388 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MAX. UNBRACED LENGTH	WEBS	
	FR-TO	FROM-TO					MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	L-F	0 / 739	0.17 (1)
B-C	-2117 / 0	-91.8	-91.8	0.23 (1)	4.49	F-J	0 / 201	0.05 (1)
C-D	-2098 / 0	-91.8	-91.8	0.44 (1)	4.25	J-G	-39 / 72	0.03 (1)
D-E	-2098 / 0	-91.8	-91.8	0.44 (1)	4.25	E-L	-643 / 0	0.48 (1)
E-F	-1605 / 0	-91.8	-91.8	0.45 (1)	4.72	G-I	-1773 / 0	0.75 (1)
F-G	-1410 / 0	-91.8	-91.8	0.45 (1)	4.95	M-E	0 / 251	0.08 (1)
G-H	0 / 30	-91.8	-91.8	0.53 (1)	10.00	M-C	-437 / 0	0.08 (1)
H-B	-1616 / 0	0.0	0.0	0.16 (1)	6.51	B-M	0 / 1948	0.44 (1)
I-H	-193 / 0	0.0	0.0	0.03 (1)	7.81			
N-M	0 / 0	-18.5	-18.5	0.21 (4)	10.00			
M-L	0 / 1715	-18.5	-18.5	0.40 (1)	10.00			
L-K	0 / 1169	-18.5	-18.5	0.38 (4)	10.00			
K-J	0 / 1169	-18.5	-18.5	0.38 (4)	10.00			
J-I	0 / 1254	-18.5	-18.5	0.38 (4)	10.00			

TOTAL WEIGHT = 2 X 114 = 228 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
	DL = 8.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN/OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = 1/360 (0.82")
CALCULATED VERT. DEFL.(LL) = 1/989 (0.07")
ALLOWABLE DEFL.(TL) = 1/860 (0.92")
CALCULATED VERT. DEFL.(TL) = 1/989 (0.22")

CSI: TC=0.53/1.00 (G-H:1), BC=0.40/1.00 (L-M:1), WB=0.75/1.00 (G-I:1), SS=0.24/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECT (PLI)	SECT (PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1867 788	1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.80)
JSI METAL= 0.56 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007755

JOB NAME 408265	TRUSS NAME T67	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Jamarack Roof Truss, Burlington

Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Tue Apr 28 11:19:04 2020 Page 2
ID:1v307qsCwJh11stHbR4r5BVziesS-6ESAXm84UmoIDko6LI7KzOMeNIM4rC_1ICdCzMDGL

PLATES (table is in inches)

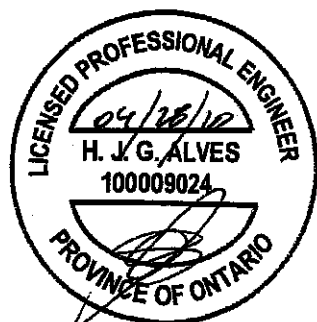
JT TYPE	PLATES	W	LEN	Y	X
B TMV-p	MT20	3.0	4.0		
C TMWW-t	MT20	5.0	6.0		
D TTWW-m	MT20	5.0	6.0	2.25	3.25
E TMWW-t	MT20	4.0	4.0		
F TS-t	MT20	3.0	6.0		
G TMW-w	MT20	2.0	4.0		
H TMWW-t	MT20	4.0	4.0		
I TTWW-m	MT20	5.0	6.0	2.25	3.25
J TMWW-t	MT20	5.0	6.0		
K TMV-p	MT20	3.0	4.0		
M BMVW1-t	MT20	5.0	6.0	2.50	2.75
N BMWW-t	MT20	4.0	4.0		
O BS-t	MT20	3.0	6.0		
P BMWW-t	MT20	4.0	6.0		
Q BMWWW-t	MT20	4.0	9.0		
R BMWW-t	MT20	4.0	6.0		
S BS-t	MT20	3.0	6.0		
T BMWW-t	MT20	4.0	4.0		
U BMVW1-t	MT20	5.0	6.0	2.50	2.75

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-459	-459	---	FRONT	VERT	TOTAL	---	C1
H	19-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
I	24-10-8	-459	-459	---	FRONT	VERT	TOTAL	---	C1
N	24-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	21-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	19-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
V	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	17-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	23-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
AD	2-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	4-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	17-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	23-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AM	26-8-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AN	28-8-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

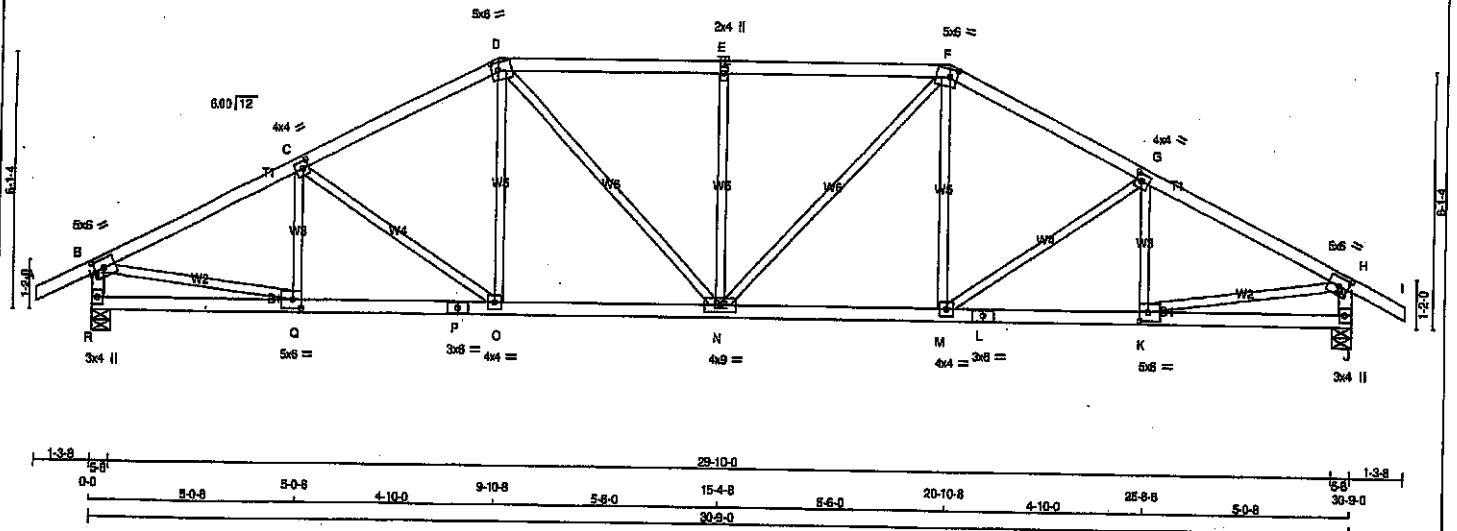


Structural component only
DWG# T-2007756 *2/2*

Structural component only
DWG# T-2007757

JOB NAME 408265	TRUSS NAME T69	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 28 2019 Mtek Industries, Inc. Tue Apr 28 11:18:08 2020 Page 1
ID:Lv307gsCyJh1sHbR4r5BVzjesS-3dDxyS7K0N2QT1yVS10yOTICAgYaBVR1EJ15zMDGJ
1-3-8 0-0 5-0-8 5-0-8 4-10-0 9-10-8 5-6-0 15-4-8 5-6-0 20-10-8 25-9-8 5-0-8 30-9-0 1-3-8
Scale = 1:50.8



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
R - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	8.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-t	MT20	5.0	6.0	2.50	2.75
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	8.0	2.50	2.50
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-t	MT20	4.0	9.0		
O	BMVW-t	MT20	4.0	4.0		
P	BS-t	MT20	3.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.50
R	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQ'D BRG
R	VERT 1820	DOWN 0	0	5-8
J	HORIZ 1820	UP/LIFT 0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1284	856 / 0	0 / 0	0 / 0	0 / 0	428 / 0	0 / 0
J	1284	856 / 0	0 / 0	0 / 0	0 / 0	428 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1	MAX. LC2	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. LC1	MAX. LC2
FR-TO						FR-TO			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	Q-C	-282 / 0	0.08 (1)	
B-C	-2432 / 0	-91.8	-91.8	0.35 (1)	4.10	C-O	-283 / 0	0.18 (1)	
C-D	-2218 / 0	-91.8	-91.8	0.34 (1)	4.27	O-D	0 / 282	0.08 (1)	
D-E	-2304 / 0	-91.8	-91.8	0.43 (1)	4.09	D-N	0 / 482	0.11 (1)	
E-F	-2304 / 0	-91.8	-91.8	0.43 (1)	4.09	N-E	-517 / 0	0.38 (1)	
F-G	-2218 / 0	-91.8	-91.8	0.34 (1)	4.27	E-F	0 / 492	0.11 (1)	
G-H	-2432 / 0	-91.8	-91.8	0.35 (1)	4.10	F-F	0 / 282	0.08 (1)	
H-I	0 / 28	-91.8	-91.8	0.12 (1)	10.00	M-G	-283 / 0	0.18 (1)	
R-B	-1777 / 0	0.0	0.0	0.18 (1)	6.26	K-G	-282 / 0	0.08 (1)	
J-H	-1777 / 0	0.0	0.0	0.18 (1)	6.26	D-Q	0 / 2227	0.50 (1)	
						K-H	0 / 2227	0.50 (1)	
R-Q	0 / 0	-18.5	-18.5	0.10 (4)	10.00				
Q-P	0 / 2195	-18.5	-18.5	0.41 (1)	10.00				
P-O	0 / 2195	-18.5	-18.5	0.41 (1)	10.00				
O-N	0 / 1866	-18.5	-18.5	0.37 (1)	10.00				
N-M	0 / 1866	-18.5	-18.5	0.37 (1)	10.00				
M-L	0 / 2195	-18.5	-18.5	0.41 (1)	10.00				
L-K	0 / 2195	-18.5	-18.5	0.41 (1)	10.00				
K-J	0 / 0	-18.5	-18.5	0.10 (4)	10.00				

TOTAL WEIGHT = 126 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.03")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.11")
ALLOWABLE DEFL.(TL) = $L/360$ (1.03")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.21")

CSI: $TC=0.43/1.00$ (D-E:1), $BC=0.41/1.00$ (C-Q:1),
 $WB=0.50/1.00$ (B-Q:1), $SSI=0.24/1.00$ (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618 354 1857 788 1987 1856	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL= 0.65 (H) (INPUT = 1.00)

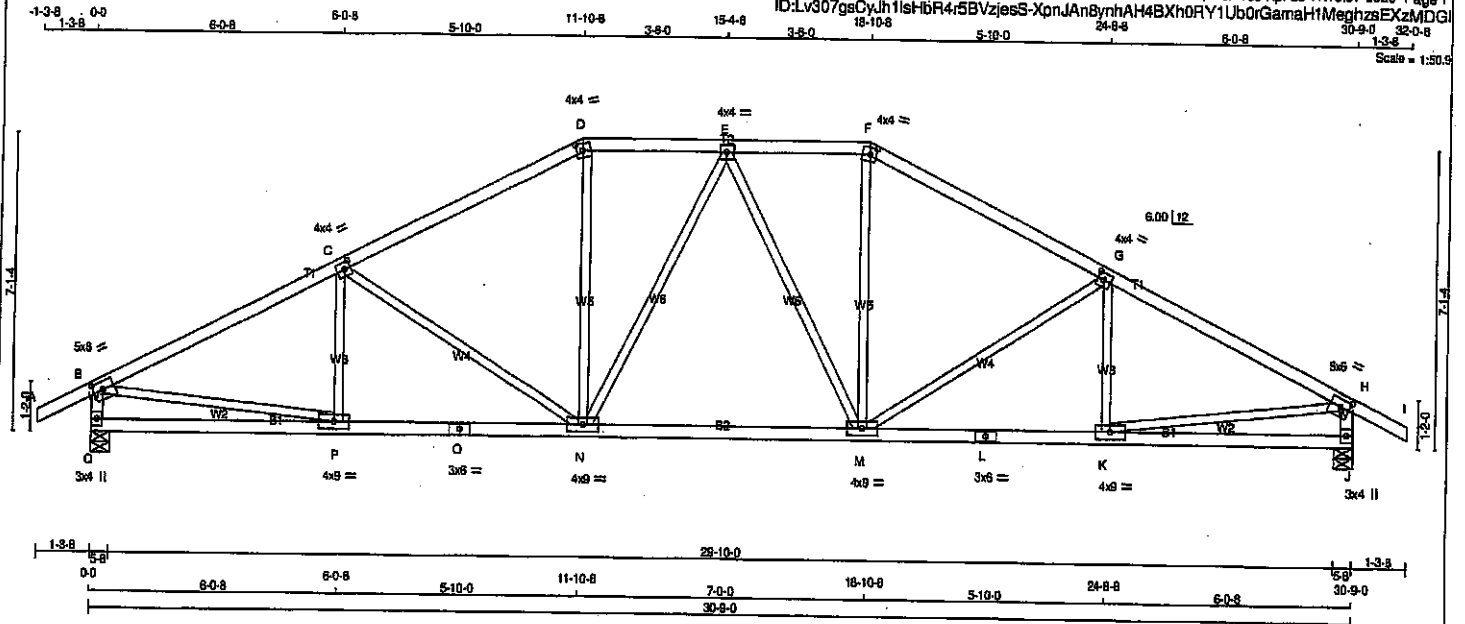


Structural component only
DWG# T-2007758

JOB NAME 408265	TRUSS NAME T70	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:19:07 2020 Page 1
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LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.25	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0	2.00	1.75
E	TMVW-t	MT20	4.0	4.0	2.00	1.75
F	TTW-m	MT20	4.0	4.0	2.00	1.75
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-t	MT20	5.0	6.0	2.25	2.75
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-t	MT20	4.0	9.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	9.0		
N	BMVW-t	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	9.0		
Q	BMV1-p	MT20	3.0	4.0		

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

BUILDING DESIGNER

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
Q	1820	0	1820	0
J	1820	0	1820	0

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1284	858 / 0	0 / 0	0 / 0	0 / 0	428 / 0	0 / 0
J	1284	858 / 0	0 / 0	0 / 0	0 / 0	428 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 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	FACTORED		MEMB.	MAX. FACTORED		
	FORCE	VERT. LOAD	LC1 MAX		FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM	TO	FR-TO			
F-G	-2065 / 0	-91.8	-91.8 0.48 (1)	4.22	K-G	-202 / 27	0.05 (1)
G-H	-2465 / 0	-91.8	-91.8 0.53 (1)	3.88	M-G	-480 / 0	0.47 (1)
H-I	0 / 28	-91.8	-91.8 0.12 (1)	10.00	M-F	0 / 580	0.13 (1)
D-E	-1829 / 0	-91.8	-91.8 0.16 (1)	4.82	E-M	-213 / 0	0.25 (1)
E-F	-1829 / 0	-91.8	-91.8 0.16 (1)	4.82	N-E	-213 / 0	0.25 (1)
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	N-D	0 / 580	0.13 (1)
B-C	-2465 / 0	-91.8	-91.8 0.53 (1)	3.88	C-N	-480 / 0	0.47 (1)
C-D	-2065 / 0	-91.8	-91.8 0.48 (1)	4.22	P-C	-202 / 27	0.05 (1)
J-H	-1771 / 0	0.0	0.0 0.18 (1)	6.27	K-H	0 / 2253	0.51 (1)
Q-B	-1771 / 0	0.0	0.0 0.18 (1)	6.27	B-P	0 / 2253	0.51 (1)
Q-P	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
P-O	0 / 2230	-18.5	-18.5 0.44 (1)	10.00			
O-N	0 / 2230	-18.5	-18.5 0.44 (1)	10.00			
N-M	0 / 1824	-18.5	-18.5 0.39 (1)	10.00			
M-L	0 / 2230	-18.5	-18.5 0.44 (1)	10.00			
L-K	0 / 2230	-18.5	-18.5 0.44 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

TOTAL WEIGHT = 127 lb

(MIP)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.6	PSF
	DL	= 6.0	PSF
BOT CH.	LL	= 0.0	PSF
	DL	= 7.4	PSF
TOTAL LOAD		= 39.0	PSF

SPACING = 24.8 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 NBC 2018, NBC 2012, ABC 2018
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")
CSI: TC=0.53/1.00 (B-C:1), BC=0.44/1.00 (N-P:1), WB=0.51/1.00 (B-P:1), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818	354	1687
	788	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (0) (INPUT = 0.90)
JSI METAL= 0.71 (0) (INPUT = 1.00)

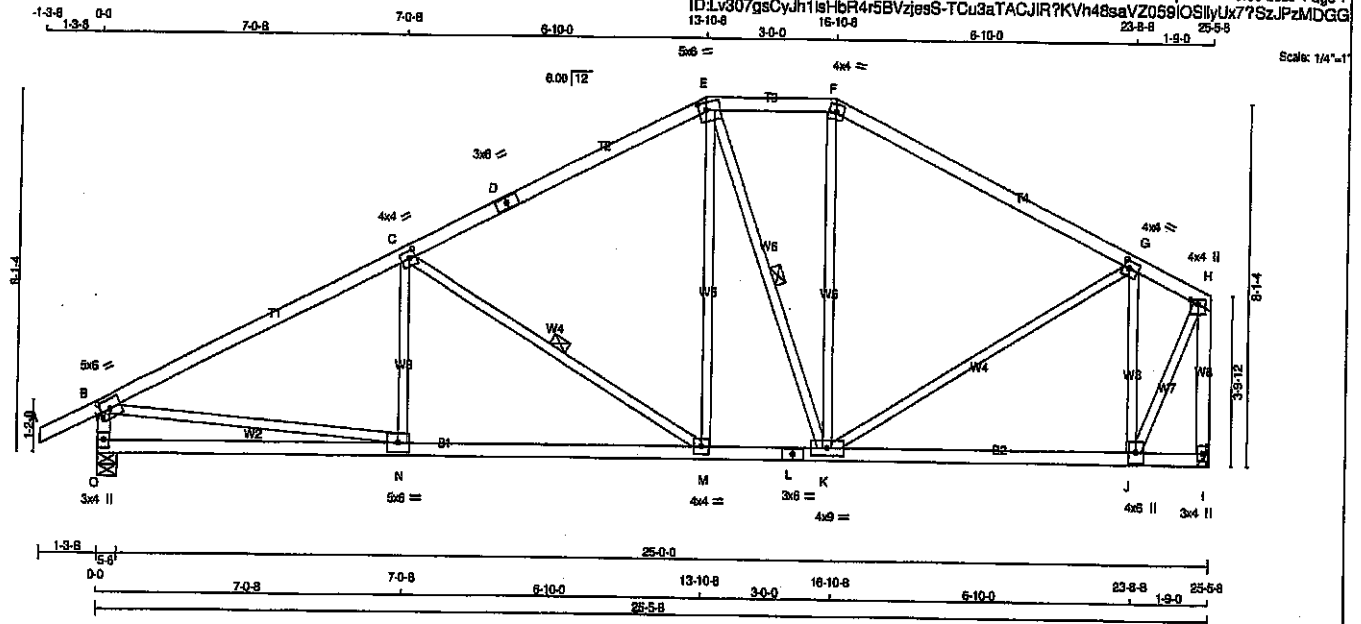


Structural component only
DWG# T-2007759

JOB NAME 408265	TRUSS NAME T71A	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 11:19:09 2020 Page 1
ID:Lv307gsCyJh1sHbR4r5BVjesS-TCu3aTACJIR7KVh48saVZ059IOSilyLx77SzJPzMDGG



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.50	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	8.0	2.00	2.00
F	TTW-m	MT20	4.0	4.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	4.0	4.0	1.25	2.00
I	BMV1-p	MT20	3.0	4.0		
J	BMVW-t	MT20	4.0	6.0		
K	BMVW-t	MT20	4.0	8.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-t	MT20	5.0	6.0		
O	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
O	1528 0	1528 0	5-8	5-8
I	1403 0	1403 0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SOIL
O	1078	721 / 0	0 / 0
I	992	651 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, E-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	N-C	-68 / 96	0.03 (4)
B-C	-1949 / 0	-91.8 -91.8	0.08 (1)	4.00	C-M	-757 / 0	0.35 (1)
C-D	-1303 / 0	-91.8 -91.8	0.81 (1)	4.81	M-E	0 / 480	0.11 (1)
D-E	-1303 / 0	-91.8 -91.8	0.81 (1)	4.81	E-K	-303 / 0	0.14 (1)
E-F	-1035 / 0	-91.8 -91.8	0.12 (1)	6.05	K-F	0 / 128	0.04 (4)
F-G	-1183 / 0	-91.8 -91.8	0.54 (1)	5.15	K-G	0 / 477	0.11 (1)
G-H	-598 / 0	-91.8 -91.8	0.44 (1)	6.25	J-G	-1150 / 0	0.37 (1)
O-B	-1475 / 0	0.0 0.0	0.15 (1)	6.74	B-N	0 / 1787	0.40 (1)
I-H	-1419 / 0	0.0 0.0	0.34 (1)	6.65	J-H	0 / 1410	0.32 (1)
O-N	0 / 0	-18.5 -18.5	0.23 (4)	10.00			
N-M	0 / 1774	-18.5 -18.5	0.40 (1)	10.00			
M-L	0 / 1140	-18.5 -18.5	0.28 (1)	10.00			
L-K	0 / 1140	-18.5 -18.5	0.26 (1)	10.00			
K-J	0 / 830	-18.5 -18.5	0.20 (4)	10.00			
J-I	0 / 0	-18.5 -18.5	0.15 (4)	10.00			

TOTAL WEIGHT = 114 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2018
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")
CALCULATED VERT. DEFL.(LL) = L/899 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.85")
CALCULATED VERT. DEFL.(TL) = L/899 (0.15")

CSI: TO=0.69/1.00 (B-C:1), BC=0.40/1.00 (M-N:1), WB=0.40/1.00 (B-N:1), SS=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (H) (INPUT = 0.90)
JSI METAL= 0.54 (B) (INPUT = 1.00)

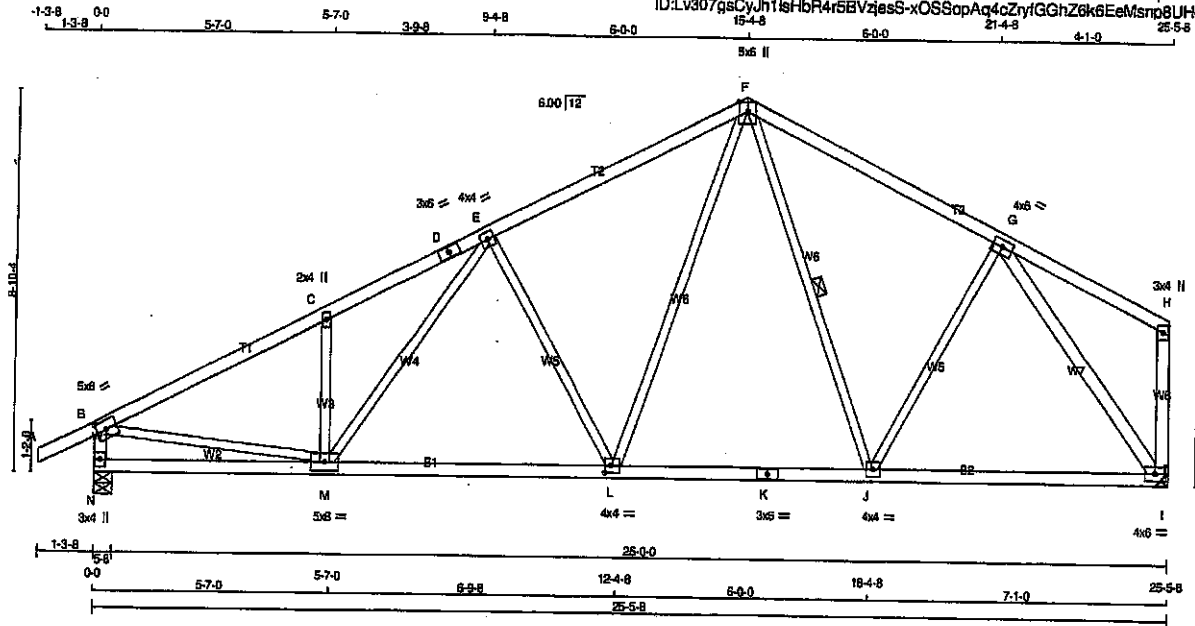


Structural component only
DWG# T-2007760

JOB NAME 408265	TRUSS NAME T72A	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Framarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 11:19:10 2020 Page 1
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Scale = 1:48.5

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.50	2.75
C	TMW-w	MT20	2.0	4.0		
D	TS-t	MT20	3.0	6.0		
E	TMWV-t	MT20	4.0	4.0		
F	TTWV-w	MT20	5.0	8.0	Edge	
G	TMWV-t	MT20	4.0	6.0		
H	TMV-w	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BMWV-t	MT20	4.0	4.0	2.00	1.75
M	BMWVW-t	MT20	5.0	8.0		
N	BMV-t	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQ'D BRG
JT	VERT	HORZ	DOWN	UPLIFT
N	1528	0	1528	0
I	1403	0	1403	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1078	721/0	0/0	0/0	0/0	357/0	0/0
I	992	651/0	0/0	0/0	0/0	341/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	L-F	0/716	8.18 (1)			
B-C	-1944/0	-91.8	-91.8	0.41 (1)	4.43	F-J	-18/44	0.92 (4)			
C-D	-1930/0	-91.8	-91.8	0.34 (1)	4.50	J-G	0/177	0.95 (4)			
D-E	-1930/0	-91.8	-91.8	0.34 (1)	4.50	G-I	-1541/0	0.91 (1)			
E-F	-1406/0	-91.8	-91.8	0.45 (1)	4.97	E-L	-838/0	0.45 (1)			
F-G	-1133/0	-91.8	-91.8	0.41 (1)	5.44	M-C	-428/0	0.10 (1)			
G-H	0/35	-91.8	-91.8	0.44 (1)	10.00	M-E	0/339	0.08 (1)			
H-I	-1488/0	0.0	0.0	0.15 (1)	6.73	B-M	0/1773	0.40 (1)			
I-H	-105/0	0.0	0.0	0.02 (1)	7.81						
N-M	0/0	-18.5	-18.5	0.16 (4)	10.00						
M-L	0/1548	-18.5	-18.5	0.32 (1)	10.00						
L-K	0/998	-18.5	-18.5	0.29 (4)	10.00						
K-J	0/998	-18.5	-18.5	0.29 (4)	10.00						
J-I	0/907	-18.5	-18.5	0.28 (4)	10.00						

TOTAL WEIGHT = 4 X 112 = 448 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.85")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.45/1.00 (E-F:1), BC=0.32/1.00 (L-M:1), WB=0.91/1.00 (G-I:1), SS=0.23/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (I) (INPUT = 0.99)
JSI METAL = 0.53 (B) (INPUT = 1.00)

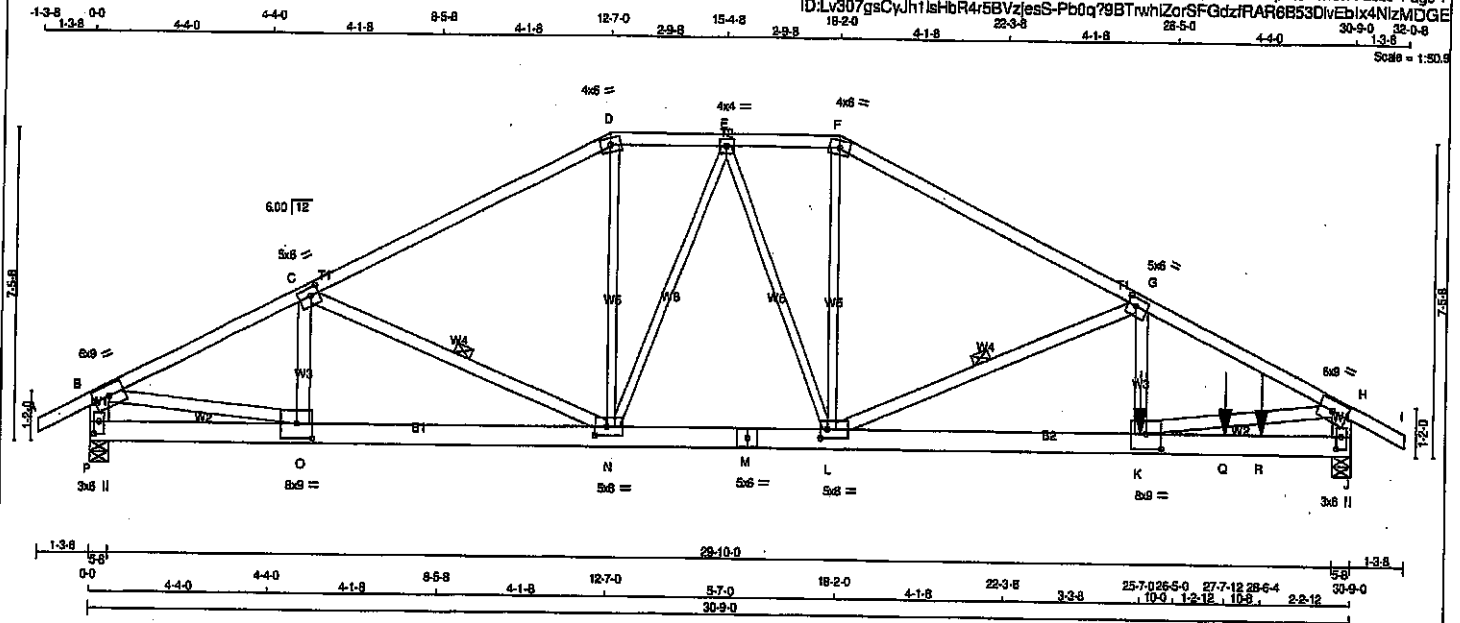


Structural component only
DWG# T-2007761

JOB NAME 408265	TRUSS NAME T73	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Tue Apr 28 11:19:11 2020 Page 1
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LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
P - B	2x6	DRY	No.2
J - H	2x6	DRY	No.2
P - M	2x6	DRY	No.2
M - J	2x6	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
N - D	2x3	DRY	No.2
N - E	2x3	DRY	No.2
E - L	2x3	DRY	No.2
L - F	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-D	1	12
D-F	1	12
F-I	1	12
P-B	2	12
J-H	2	12
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
P-M	2	12
M-J	2	12
WEBS: (0.122"x3") SPIRAL NAILS		
2x3	1	6
G-K	2	3
2x4	2	3
N-C	1	6
L-G	1	6
O-B	1	6
K-H	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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	
P	2626	0	0	5-8	5-8
J	6261	0	0	5-8	5-8

UNFACTORED REACTIONS						
JT	1ST CASE	MAX/MIN COMPONENT REACTIONS				
P	1853	1239 / 0	0 / 0	0 / 0	814 / 0	0 / 0
J	4414	2975 / 0	0 / 0	0 / 0	1439 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-N, G-L.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	UNBRACED	WEBS	MAX. FACTORED	
MEMB.	FORCE (LBS)	FROM	TO		CSI (LC)	LENGTH	MEMB.	FORCE (LBS)	MAX
FR-TO							FR-TO		
A-B	0 / 28	-91.8	-91.8	0.07 (1)	10.00		O-C	-440 / 0	0.04 (1)
B-C	-3912 / 0	-91.8	-91.8	0.47 (1)	4.29		C-N	-341 / 0	0.06 (1)
C-D	-3835 / 0	-91.8	-91.8	0.58 (1)	4.44		N-D	0 / 1215	0.15 (1)
D-E	-3242 / 0	-91.8	-91.8	0.08 (1)	5.10		N-E	-890 / 0	0.56 (1)
E-F	-3844 / 0	-91.8	-91.8	0.10 (1)	4.75		L-F	0 / 708	0.09 (1)
F-G	-4300 / 0	-91.8	-91.8	0.63 (1)	4.14		L-G	0 / 1506	0.19 (1)
G-H	-9440 / 0	-91.8	-91.8	0.88 (1)	2.58		K-G	-5095 / 0	0.86 (1)
H-I	0 / 28	-91.8	-91.8	0.07 (1)	10.00		K-H	0 / 3686	0.33 (1)
P-B	-2589 / 0	0.0	0.0	0.09 (1)	7.81		B-O	0 / 3575	0.32 (1)
J-H	-5789 / 0	0.0	0.0	0.20 (1)	6.13		K-H	0 / 8570	0.76 (1)
P-O	0 / 0	-18.5	-18.5	0.03 (1)	10.00				
O-N	0 / 3535	-18.5	-18.5	0.27 (1)	10.00				
N-M	0 / 3598	-18.5	-18.5	0.27 (1)	10.00				
M-L	0 / 3598	-18.5	-18.5	0.27 (1)	10.00				
L-K	0 / 8475	-18.5	-18.5	0.60 (1)	10.00				
K-Q	0 / 0	-18.5	-18.5	0.48 (1)	10.00				
Q-R	0 / 0	-18.5	-18.5	0.48 (1)	10.00				
R-J	0 / 0	-18.5	-18.5	0.48 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
K	25-7-0	-4158	-4158	--	BACK	VERT	TOTAL	--	C1
Q	27-7-12	-1003	-1003	--	BACK	VERT	TOTAL	--	C1
R	28-6-4	-87	-87	--	BACK	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.88/1.00 (G-H-I), BC=0.60/1.00 (K-L-I), WB=0.69/1.00 (G-L-I), SSI=0.24/1.00 (J-K-I)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

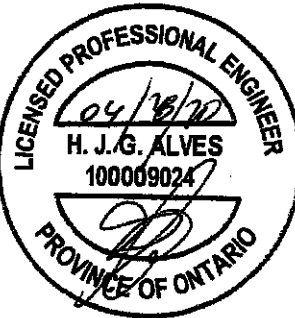
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (B) (INPUT = 0.90)
JSI METAL=0.80 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007762 1/2

JOB NAME 408265	TRUSS NAME T73	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2018 Mitek Industries, Inc. Tue Apr 28 11:18:11 2020 Page 2
ID:Ly307qsCyJh1sHbR4r5BVziesS-Pb0a79BTwhiZorSFGdzIRAR6B53DivebIx4NizMDGE

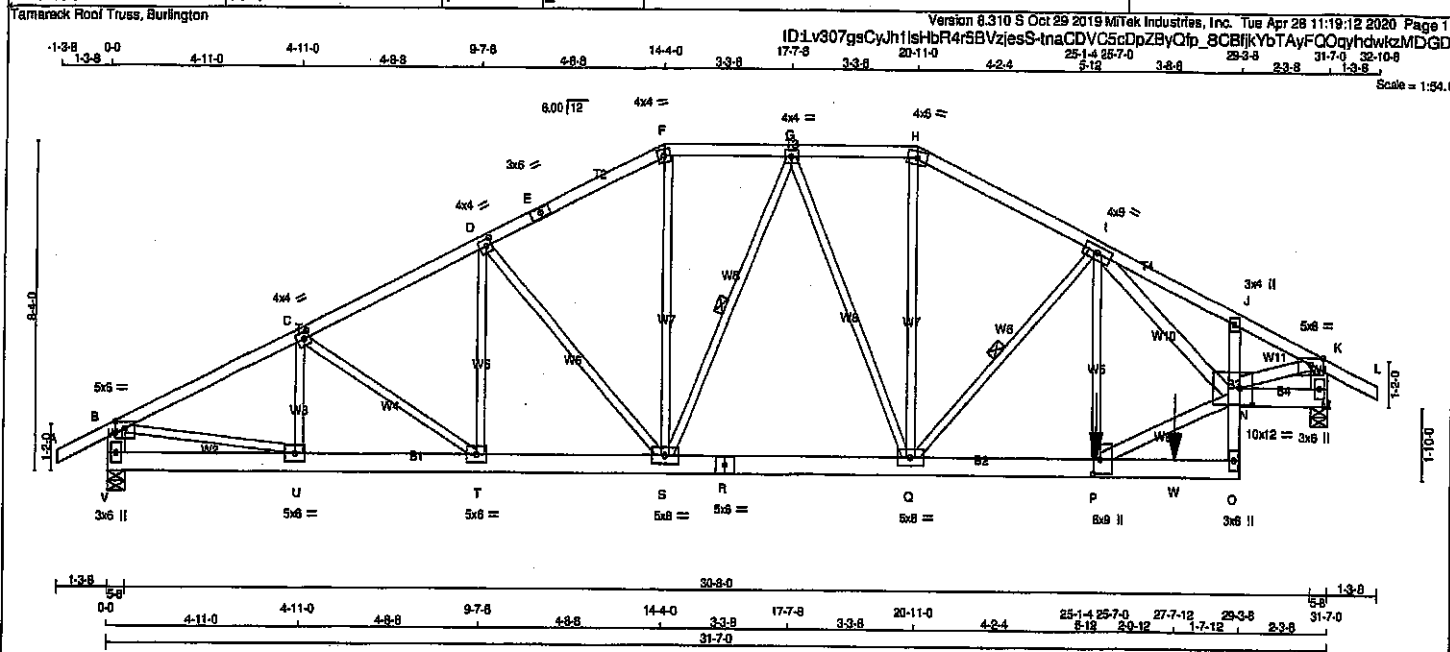
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	9.0		
C	TMWW-t	MT20	6.0	8.0	2.25	2.50
D	TTW-m	MT20	4.0	6.0		
E	TMWW-t	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	8.0		
G	TMWW-t	MT20	5.0	8.0	2.25	2.50
H	TMVW-t	MT20	6.0	9.0		
J	BMV1+p	MT20	3.0	6.0	3.50	1.50
K	BMWW-t	MT20	8.0	9.0	4.25	4.50
L	BMWWWW-t	MT20	5.0	8.0	2.50	2.00
M	BS-t	MT20	5.0	6.0		
N	BMWWWW-t	MT20	5.0	8.0	2.50	3.50
O	BMWW-t	MT20	8.0	9.0	4.25	4.50
P	BMV1+p	MT20	3.0	6.0	3.50	1.50



Structural component only
DWG# T-2007762 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T74	1	2	GREEN PARK HOMES	



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - L	2x4	DRY	No.2
V - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
V - R	2x6	DRY	No.2
R - O	2x6	DRY	No.2
O - J	2x4	DRY	No.2
N - M	2x6	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

I - N 2x4 DRY No.2

P - N 2x4 DRY No.2

N - K 2x4 DRY No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-E 1	12	TOP
E-F 1	12	TOP
F-H 1	12	TOP
H-L 1	12	TOP
V-B 2	12	TOP
M-K 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
V-R 2	12	TOP
R-O 2	12	SIDE(183.1)
N-M 2	12	TOP
O-J 1	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
I-P 1	3	SIDE(837.6)
2x3 1	6	
2x4 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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 2745	0	0	5-8
V	HORIZ 5994	0	0	5-8
M	UPLIFT 5994	0	0	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
V	1937	1296 / 0 0 / 0 0 / 0 642 / 0 0 / 0
M	4226	2848 / 0 0 / 0 0 / 0 1380 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.28 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF I-Q, G-S.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MAX. FACTORED UNBRAC LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO						FR-TO			
A-B	0 / 28	-91.8	-91.8	0.07 (1)	10.00	U-C	-516 / 0	0.06 (1)	
B-C	-4008 / 0	-91.8	-91.8	0.24 (1)	4.53	C-T	0 / 38	0.00 (1)	
C-D	-4058 / 0	-91.8	-91.8	0.23 (1)	4.53	T-D	0 / 89	0.02 (4)	
D-E	-3713 / 0	-91.8	-91.8	0.22 (1)	4.71	D-S	-507 / 0	0.27 (1)	
E-F	-3713 / 0	-91.8	-91.8	0.22 (1)	4.71	S-F	0 / 1348	0.17 (1)	
F-G	-3320 / 0	-91.8	-91.8	0.10 (1)	4.73	Q-H	0 / 1616	0.20 (1)	
G-H	-3858 / 0	-91.8	-91.8	0.12 (1)	4.73	Q-I	-2695 / 0	0.50 (1)	
H-I	-4312 / 0	-91.8	-91.8	0.24 (1)	4.41	B-U	0 / 3645	0.45 (1)	
I-J	-7642 / 0	-91.8	-91.8	0.37 (1)	3.28	P-I	0 / 1703	0.21 (1)	
J-K	-7811 / 0	-91.8	-91.8	0.28 (1)	3.31	I-N	0 / 1668	0.17 (1)	
K-L	0 / 28	-91.8	-91.8	0.07 (1)	10.00	P-N	0 / 8157	0.54 (1)	
V-B	-2680 / 0	0.0	0.0	0.08 (1)	7.81	N-K	0 / 7915	0.65 (1)	
M-K	-5971 / 0	0.0	0.0	0.21 (1)	6.04	S-G	-902 / 0	0.23 (1)	
						G-Q	0 / 544	0.07 (1)	
V-U	0 / 0	-18.5	-18.5	0.04 (1)	10.00				
U-T	0 / 3600	-18.5	-18.5	0.28 (1)	10.00				
T-S	0 / 3631	-18.5	-18.5	0.28 (1)	10.00				
S-R	0 / 3656	-18.5	-18.5	0.28 (1)	10.00				
R-Q	0 / 3656	-18.5	-18.5	0.26 (1)	10.00				
Q-P	0 / 5584	-18.5	-18.5	0.42 (1)	10.00				
P-W	0 / 109	-18.5	-18.5	0.34 (1)	10.00				
W-O	0 / 109	-18.5	-18.5	0.34 (1)	10.00				
O-N	0 / 626	0.0	0.0	0.21 (1)	10.00				
N-J	-112 / 0	0.0	0.0	0.15 (1)	7.81				
N-M	0 / 0	-18.5	-18.5	0.01 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
P	25-7-0	-3913	-3913	---	FRONT	VERT	TOTAL	---	C1
W	27-7-12	-1095	-1095	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	25.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	39.0	PSF

SPACING = 24.0 N/LC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.0/12 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/880 (1.05)$

CALCULATED VERT. DEFL.(LL) = $L/999 (0.09)$

ALLOWABLE DEFL.(TL) = $L/880 (1.05)$

CALCULATED VERT. DEFL.(TL) = $L/999 (0.16)$

CSI: TC=0.37/1.00 (I-J:1), BC=0.42/1.00 (P-Q:1), WB=0.65/1.00 (K-N:1), SS=0.21/1.00 (O-P:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN

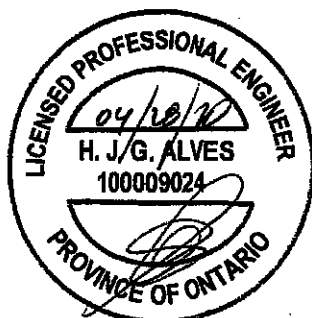
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

JSI METAL = 0.82 (P) (INPUT = 1.00)



Structural component only

DWG# T-2007763 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T74	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 11:19:13 2020 Page 2
ID:Lv307asCyJh1sHbR4r5BVziesS-Lz8aCrDINXxQp6?rNhIRksGvH?pPhIX2cQBSBzMDGC

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	2.00	3.00
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TMWW-t	MT20	4.0	4.0	2.00	1.75
E	TS-t	MT20	3.0	6.0		
F	TTW-m	MT20	4.0	4.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTW-m	MT20	4.0	6.0		
I	TMWWWW-t	MT20	4.0	9.0		
J	TMV-p	MT20	5.0	4.0		
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N	BMWWWW-t	MT20	10.0	12.0	5.00	4.00
O	BMV-p	MT20	3.0	6.0		
P	BMWW-t	MT20	6.0	9.0	4.50	2.00
Q	BMWWWW-t	MT20	5.0	8.0		
R	BS-t	MT20	5.0	6.0		
S	BMWWWW-t	MT20	6.0	8.0		
T	BMWW-t	MT20	5.0	8.0		
U	BMWW-t	MT20	5.0	6.0		
V	BMV1+p	MT20	3.0	6.0		

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

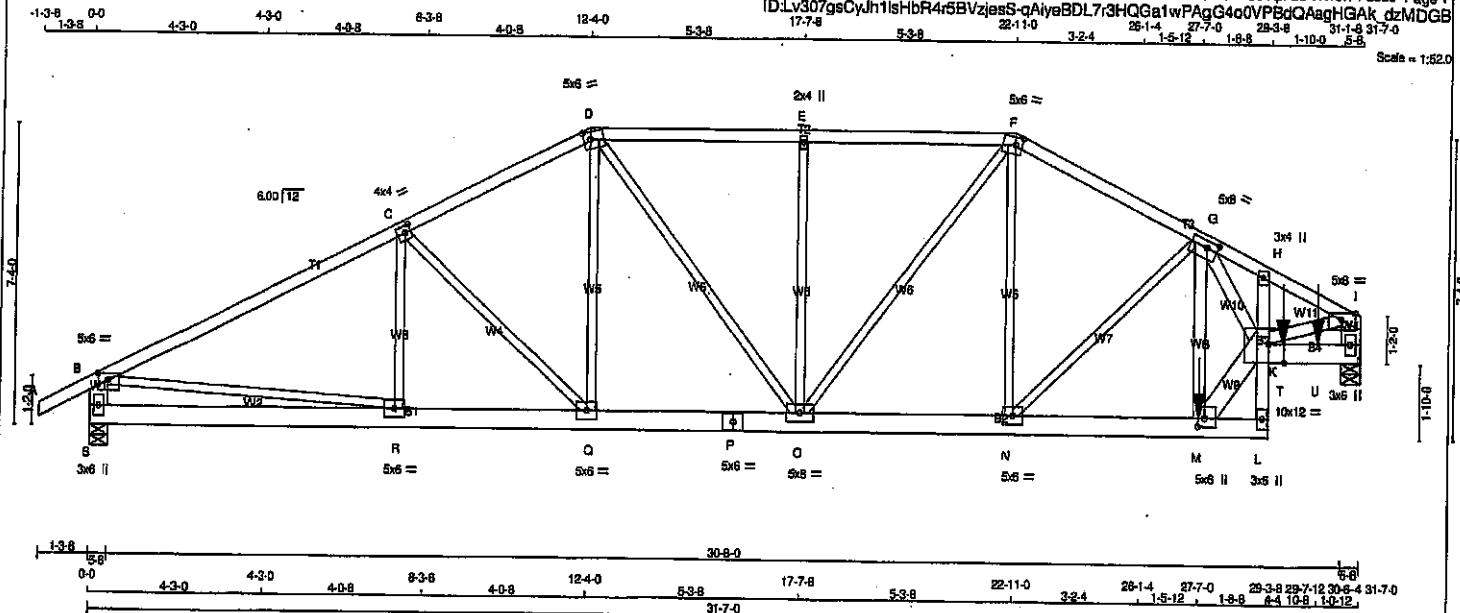


Structural component only
DWG# T-2007763 2/2

JOB NAME 408265	TRUSS NAME T75	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamara Roof Truss, Burlington

Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Tue Apr 28 11:19:14 2020 Page 1
ID:Lv307gsCylh1sHbR4r5BVzjesS-qAlvBDL7/3HQGa1wPAGG4o0VPBdQAagHGAK_dzMDGB
17-7-8 22-11-0 25-1-4 27-7-0 29-3-8 31-1-0 31-7-0
Scale = 1:50.0



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	TOP
D-F 1	12	TOP
F-I 1	12	TOP
S-B 2	12	TOP
J-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-P 2	12	TOP
P-L 2	12	TOP
K-J 2	12	TOP
L-H 1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	TOP
G-M 1	3	TOP
2x4 1	6	TOP
2x6 2	6	TOP

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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	2343	2343	0	5-8
S VERT	5533	5533	0	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	1654	1104 / 0
S COMBINED	3902	2621 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.49 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 (PLF)	MAX. LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LENGTH (FT)
A-B	0 / 28	-91.8	-91.8	0.07 (1)	10.00	B-R	0 / 3105	0.38 (1)
B-C	-3426 / 0	-91.8	-91.8	0.60 (1)	4.53	R-C	-212 / 42	0.04 (1)
C-D	-3102 / 0	-91.8	-91.8	0.43 (1)	4.73	C-Q	-499 / 0	0.20 (1)
D-E	-3205 / 0	-91.8	-91.8	0.29 (1)	4.89	Q-D	0 / 465	0.06 (1)
E-F	-3205 / 0	-91.8	-91.8	0.29 (1)	4.89	D-O	0 / 772	0.10 (1)
F-G	-3525 / 0	-91.8	-91.8	0.21 (1)	4.81	O-E	-589 / 0	0.27 (1)
G-H	-6736 / 0	-91.8	-91.8	0.28 (1)	3.53	E-F	0 / 88	0.01 (1)
H-I	-6961 / 0	-91.8	-91.8	0.29 (1)	3.49	F-G	0 / 1139	0.14 (1)
S-B	-2270 / 0	0.0	0.0	0.08 (1)	7.81	N-G	-1519 / 0	0.60 (1)
J-I	-5248 / 0	0.0	0.0	0.18 (1)	6.38	G-I	0 / 6503	0.57 (1)
S-R	0 / 0	-18.5	-18.5	0.07 (4)	10.00	I-K	-1359 / 0	0.18 (1)
R-O	0 / 3089	-18.5	-18.5	0.22 (1)	10.00	K-G	0 / 3843	0.34 (1)
Q-P	0 / 2738	-18.5	-18.5	0.19 (1)	10.00	M-K	0 / 6368	0.41 (1)
P-O	0 / 2738	-18.5	-18.5	0.19 (1)	10.00			
O-N	0 / 3152	-18.5	-18.5	0.22 (1)	10.00			
N-M	0 / 4227	-18.5	-18.5	0.29 (1)	10.00			
M-L	0 / 96	-18.5	-18.5	0.02 (4)	10.00			
L-K	-2 / 0	0.0	0.0	0.13 (1)	10.00			
K-H	0 / 147	0.0	0.0	0.16 (1)	10.00			
K-T	0 / 0	-18.5	-18.5	0.11 (1)	10.00			
T-U	0 / 0	-18.5	-18.5	0.11 (1)	10.00			
U-J	0 / 0	-18.5	-18.5	0.11 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
M	27-7-0	-3407	-3407	---	---	BACK	VERT	TOTAL	---	C1
T	29-7-12	-624	-624	---	---	BACK	VERT	TOTAL	---	C1
U	30-8-4	-238	-238	---	---	TOP	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 2 X 167 = 334 LB

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.60/1.00 (B-C:1), BC=0.29/1.00 (M-N:1), WB=0.60/1.00 (G-N:1), SS=0.21/1.00 (J-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1987 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (M) (INPUT = 0.90)
JSI METAL=0.73 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007764 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T75	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2018 MITek Industries, Inc. Tue Apr 28 11:19:14 2020 Page 2

ID:Lv307asCvJh1stHbR4r5BVjesS-qAiveBDL7r3HQGa1wPAqG4o0VPBdQAapHGAK dzMDGB

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	2.00	3.00
C TMWW-t	MT20	4.0	4.0	2.00	1.75
D TTWW-m	MT20	5.0	6.0	2.25	2.00
E TMW-w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	6.0	2.25	2.00
G TMWWW-t	MT20	5.0	6.0	2.00	3.00
H TMV-p	MT20	3.0	4.0		
I TMVW-p	MT20	5.0	6.0	Edge	
J BMV1-p	MT20	3.0	6.0		
K BVMWWW-t	MT20	10.0	12.0	Edge	4.75
L BMV-p	MT20	3.0	6.0		
M BMWW-t	MT20	5.0	6.0	2.50	2.00
N, Q, R					
N BMWW-t	MT20	5.0	6.0		
O BMWWW-t	MT20	5.0	6.0		
P BS-t	MT20	5.0	6.0		
S BMV1-p	MT20	3.0	6.0		

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

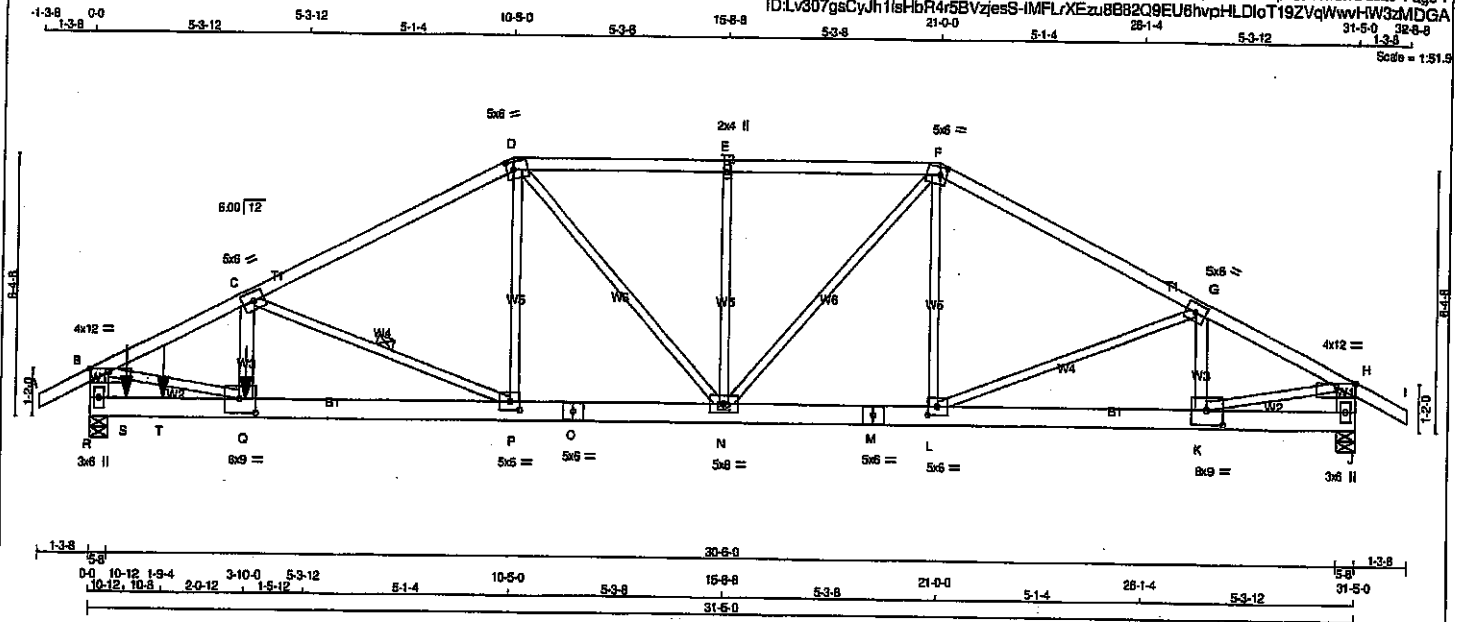


Structural component only
DWG# T-2007764

JOB NAME 408265	TRUSS NAME T76	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 11:19:15 2020 Page 1
ID: L307gsCjYh1sHbR4r5BVzjesS-IMFL/XEzu8882Q9EU6hvpHLDioT19ZVqWwHW3zMDGA
31-5-0 38-8-8 1-3-8
Scale = 1:31.8



TOTAL WEIGHT = 2 X 148 = 297 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS EXCEPT Q - C	2x3	DRY	No.2	SPF
K - G	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	TOP
D-F 1	12	TOP
F-I 1	12	TOP
I-B 2	12	TOP
J-H 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
R-O 2	12	SIDE(183.1)
O-M 2	12	TOP
M-J 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(728.0)
C-Q 2	3	
2x4 2	3	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
R	5710	0	5-8	5-8
J	2323	0	5-8	5-8

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	4024	2720 / 0	0 / 0	0 / 0	0 / 0	1304 / 0	0 / 0
J	1840	1095 / 0	0 / 0	0 / 0	0 / 0	545 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-P.

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

LOADING

TOTAL LOAD CASES: (4)

	CHORDS	WEBS
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)
A-B	0 / 28	0 / 2407
B-C	-7764 / 0	-3588 / 0
C-D	-4086 / 0	0 / 1533
D-E	-3533 / 0	-209 / 0
E-F	-3533 / 0	-387 / 0
F-G	-3188 / 0	0 / 1045
G-H	-3234 / 0	0 / 198
H-I	0 / 28	-97 / 0
I-J	-5124 / 0	-542 / 0
J-K	-2266 / 0	0 / 7115
K-L	0 / 0	0 / 2987
L-M	0 / 0	0 / 0
M-N	0 / 0	0 / 0
N-O	0 / 0	0 / 0
O-P	0 / 0	0 / 0
P-Q	0 / 0	0 / 0
Q-R	0 / 0	0 / 0
R-S	0 / 0	0 / 0
S-T	0 / 0	0 / 0
T-U	0 / 0	0 / 0
U-V	0 / 0	0 / 0
V-W	0 / 0	0 / 0
W-X	0 / 0	0 / 0
X-Y	0 / 0	0 / 0
Y-Z	0 / 0	0 / 0
Z-A	0 / 0	0 / 0

FACTORED CONCENTRATED LOADS (LBS)

	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	3-10-0	-3493	-3493	---	BACK	VERT	TOTAL	---	C1
S	10-12	-212	-212	---	BACK	VERT	TOTAL	---	C1
T	1-9-4	-816	-816	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF
BOT CH. LL = 8.0 PSF
DL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN CC

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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.471/0.0 (C-D:1), BC=0.531/0.0 (P-Q:1), WB=0.881/0.0 (B-C:1), SS=0.191/0.0 (Q-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.87 (L) (INPUT = 0.90)
JSI METAL= 0.93 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007765 1/2

CONTINUED ON PAGE 2

JOB NAME 408265	TRUSS NAME T76	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRAWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Tue Apr 26 11:19:15 2020 Page 2
ID:1v307qsCyJh1IsHbR4r5BVziesS-IMFLrXEzu8B82Q9EU6hvpHLDioT19ZVqWwwHW3zMOGA

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	12.0	1.00	5.50
C	TMWW-t	MT20	5.0	8.0		
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMWW-t	MT20	5.0	8.0		
H	TMVW-p	MT20	4.0	12.0	1.00	5.50
J	BMV1-p	MT20	3.0	6.0		
K	BMWW-t	MT20	8.0	9.0	4.25	4.50
L	BMWW-t	MT20	5.0	6.0	2.50	2.75
M	BS-t	MT20	5.0	8.0		
N	BMWWW-t	MT20	5.0	8.0		
O	BS-t	MT20	5.0	6.0		
P	BMWW-t	MT20	5.0	6.0	2.50	2.75
Q	BMWW-t	MT20	8.0	9.0	4.25	4.50
R	BMV1-p	MT20	3.0	6.0		



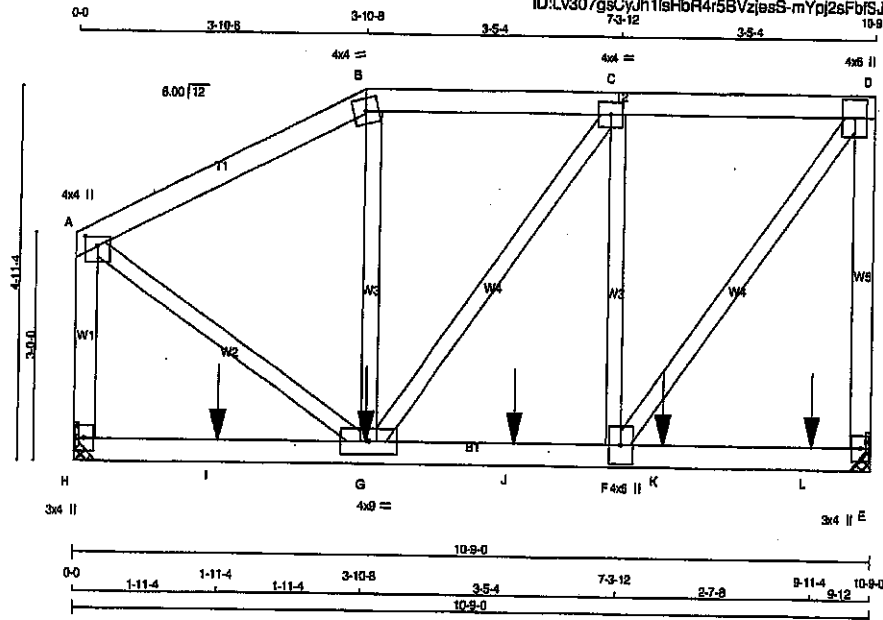
Structural component only
DWG# T-2007765 3/2

JOB NAME 408265	TRUSS NAME T77	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:19:16 2020 Page 1
ID:Lv307gsCyJh1sHbR4r5BVzesS-mYpJ2sFbJSJ7gaC2qC8MVuPHCt_u9azkatf3VzMDG9

Scale = 1:28.2



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - B	MT20	4.0	4.0	1.50	2.00
B - C	MT20	4.0	4.0		
C - D	MT20	4.0	4.0		
D - E	MT20	4.0	4.0		
E - H	MT20	3.0	4.0		
F - G	MT20	4.0	4.0		
G - H	MT20	4.0	4.0		
H - E	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP/LT	IN-SX
E	1114	0	1114	0
H	1022	0	1022	0

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	783	540 / 0	0 / 0	0 / 0	0 / 0	243 / 0	0 / 0
H	719	493 / 0	0 / 0	0 / 0	0 / 0	228 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. MAX. (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. MAX. (LBS)	
FR-TO				FR-TO			
A-B	-897 / 0	-91.8 -91.8	0.27 (1)	6.25	G-B	0 / 42	0.02 (4)
B-C	-623 / 0	-91.8 -91.8	0.19 (1)	6.25	G-C	0 / 25	0.01 (4)
C-D	-609 / 0	-91.8 -91.8	0.19 (1)	6.25	F-C	-405 / 0	0.15 (1)
E-D	-937 / 0	0.0 0.0	0.39 (1)	7.61	F-D	0 / 1015	0.25 (1)
H-A	-912 / 0	0.0 0.0	0.15 (1)	7.61	A-G	0 / 752	0.19 (1)
H-I	0 / 0	-18.5 -18.5	0.27 (1)	10.00			
I-G	0 / 0	-18.5 -18.5	0.27 (1)	10.00			
G-J	0 / 609	-18.5 -18.5	0.30 (1)	10.00			
J-F	0 / 609	-18.5 -18.5	0.30 (1)	10.00			
F-K	0 / 0	-18.5 -18.5	0.21 (1)	10.00			
K-L	0 / 0	-18.5 -18.5	0.21 (1)	10.00			
L-E	0 / 0	-18.5 -18.5	0.21 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONV.
G	3-11.4	-187	-187	--	FRONT	VERT	TOTAL	--	C1
I	1-11.4	-200	-200	--	FRONT	VERT	TOTAL	--	C1
J	5-11.4	-187	-187	--	FRONT	VERT	TOTAL	--	C1
K	7-11.4	-187	-187	--	FRONT	VERT	TOTAL	--	C1
L	9-11.4	-189	-189	--	FRONT	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN. GC

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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.36")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.03")
ALLOWABLE DEFL.(TL) = $L/360$ (0.36")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

CSI: TC=0.39/1.00 (D-E:1), BC=0.30/1.00 (F-G:1), WB=0.25/1.00 (D-F:1), SS=0.23/1.00 (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 616 354 1697 788 1997 1695

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (A) (INPUT = 0.90)
JSI METAL= 0.27 (D) (INPUT = 1.00)



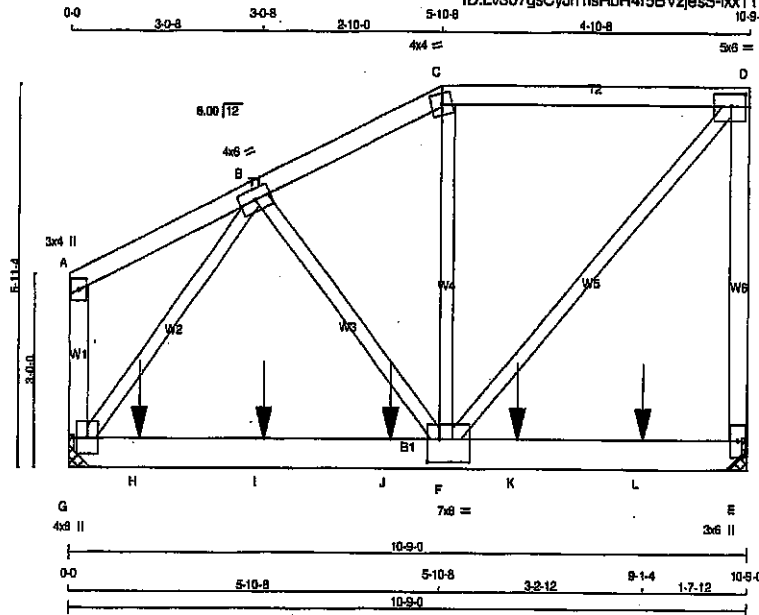
Structural component only
DWG# T-2007766

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T78	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:18:18 2020 Page 1

ID:Lv307gsCyJh1stHbR4r5BVziesS-bxTTYHsB3Zjvto9EFcRwzc60UXMzaGCu8y7OzMDG7



Scale = 1/32"

TOTAL WEIGHT = 2 X 56 = 112 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF		
C - D	2x4	DRY	No.2	SPF		
G - A	2x4	DRY	No.2	SPF		
G - E	2x6	DRY	2100F 1.8E	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
EXCEPT						
E - D	2x4	DRY	No.2	SPF		

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - D	12	TOP
G - A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
G - E	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x4	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMV-p	MT20	3.0	4.0	
B	TMWW-1	MT20	4.0	6.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
E	3931	0	0	MECHANICAL
G	4176	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL
E	2776 1848 / 0 0 / 0 0 / 0 929 / 0 0 / 0
G	2949 1980 / 0 0 / 0 0 / 0 988 / 0 0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.47 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 / 10	-91.8 -91.8 0.05 (1)	E-D	-3159 / 0
B-C	-2721 / 0	-91.8 -91.8 0.08 (1)	F-F	0 / 1117
C-D	-2438 / 0	-91.8 -91.8 0.24 (1)	F-C	0 / 878
G-A	-113 / 0	0.0 0.0 0.01 (1)	F-D	0 / 3872
			G-B	-2998 / 0
G-H	0 / 1756	-18.5 -18.5 0.55 (1)		
H-I	0 / 1756	-18.5 -18.5 0.55 (1)		
I-J	0 / 1756	-18.5 -18.5 0.55 (1)		
J-F	0 / 1756	-18.5 -18.5 0.55 (1)		
F-K	-83 / 0	-18.5 -18.5 0.50 (1)		
K-L	-83 / 0	-18.5 -18.5 0.50 (1)		
L-E	-83 / 0	-18.5 -18.5 0.50 (1)		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	1-1-4	-1385	-1385	--	BACK	VERT	TOTAL	--	C1
I	3-1-4	-1385	-1385	--	BACK	VERT	TOTAL	--	C1
J	5-1-4	-1385	-1385	--	BACK	VERT	TOTAL	--	C1
K	7-1-4	-1385	-1385	--	BACK	VERT	TOTAL	--	C1
L	9-1-4	-1385	-1385	--	BACK	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN/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 CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/805 (0.16")

CSI: TC=0.24/1.00 (C-D:1), BC=0.55/1.00 (F-G:1), WB=0.60/1.00 (B-G:1), SS=0.87/1.00 (F-G:1)

DCL 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) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (D) (INPUT = 0.90)
JSI METAL = 0.40 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007767 1/2

CONTINUED ON PAGE 2.

JOB NAME 408265	TRUSS NAME T78	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:19:18 2020 Page 2
ID:1v307qsCvJh1sHbR4r5BVziasS-pxTTYHsB3Zvtt09EFcRwzo60UXMzaGCu8y7OzMDG7

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TTW-m	MT20	4.0	4.0		
D	TMWW-t	MT20	5.0	6.0	2.25	2.75
E	BMVW1-w	MT20	3.0	6.0		
F	BMWWW-t	MT20	7.0	8.0	4.25	2.25
G	BMVW1-p	MT20	4.0	6.0		

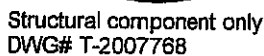


Structural component only
DWG# T-2007767 3/2

DRWG NO.



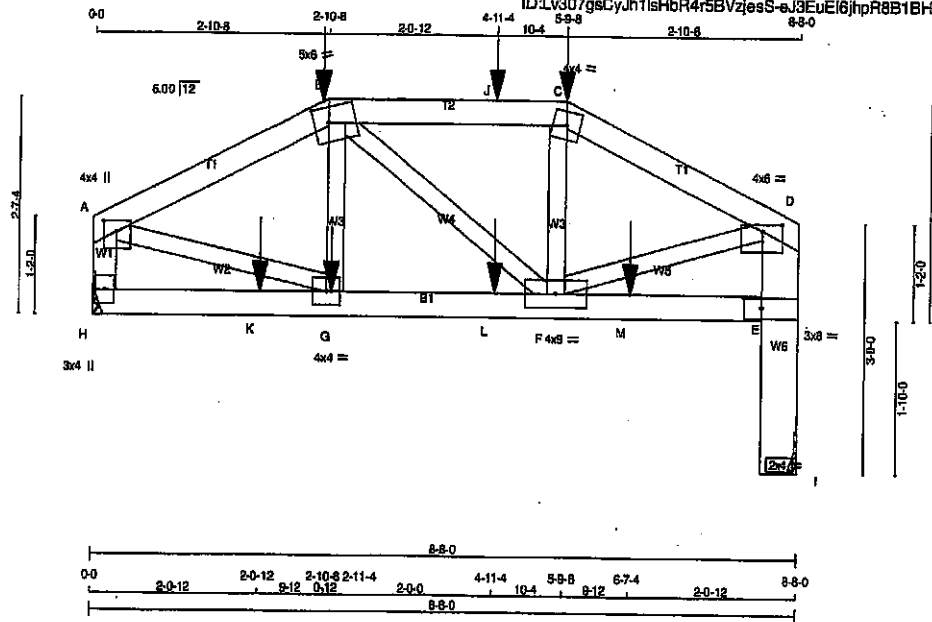
JSI GRIP= 0.25 (H) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



JOB NAME 408265	TRUSS NAME T80	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 11:19:20 2020 Page 1
ID:Lv307gsCyJh1sHbR4r5BVzesS-eJ3EueI6jhpR8B1BHH4WL29ppHgq_22TCd2CHzMDG5

Scale = 1/25.6



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
H - A	2x4	DRY	No.2
I - D	2x6	DRY	No.2
H - E	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMVW+p	MT20	4.0	4.0	1.50	2.00
A TP-p	MT20	2.0	4.0		
B TTWW-m	MT20	5.0	6.0	2.25	2.00
C TTWW-m	MT20	4.0	4.0		
D TMVW-p	MT20	4.0	6.0	1.00	3.00
E BVM4	MT20	3.0	6.0	1.50	2.50
F BMVWW-I	MT20	4.0	6.0		
G BMVWW-I	MT20	4.0	4.0		
H BMV-I+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
H	638	0	638	0
I	635	0	635	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERMILIVE	WIND	DEAD	SOIL
H	450	303 / 0	0 / 0	0 / 0	0 / 0	147 / 0	0 / 0
I	447	303 / 0	0 / 0	0 / 0	0 / 0	144 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-879 / 0	-91.8 -91.8	0.15 (1)	G-B	-111 / 17	0.02 (1)	
B-J	-598 / 0	-91.8 -91.8	0.16 (1)	B-F	-4 / 0	0.00 (1)	
J-C	-598 / 0	-91.8 -91.8	0.18 (1)	F-C	-108 / 21	0.02 (1)	
C-D	-879 / 0	-91.8 -91.8	0.15 (1)	A-G	0 / 631	0.16 (1)	
H-A	-612 / 0	0.0 0.0	0.07 (1)	F-D	0 / 630	0.16 (1)	
I-E	-635 / 0	0.0 0.0	0.09 (1)				
E-D	-607 / 0	0.0 0.0	0.04 (1)				
H-K	0 / 0	-18.5 -18.5	0.04 (4)				
K-G	0 / 0	-18.5 -18.5	0.04 (4)				
G-L	0 / 802	-18.5 -18.5	0.12 (1)				
L-F	0 / 802	-18.5 -18.5	0.12 (1)				
F-M	0 / 0	-18.5 -18.5	0.04 (4)				
M-E	0 / 0	-18.5 -18.5	0.04 (4)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-10-8	-149	-149		FRONT	VERT	TOTAL		C1
C	8-9-8	-135	-135		FRONT	VERT	TOTAL		C1
G	2-11-4	-5	-5		FRONT	VERT	TOTAL		C1
J	4-11-4	-14	-14		FRONT	VERT	TOTAL		C1
K	2-0-12	-5	-5		FRONT	VERT	TOTAL		C1
L	4-11-4	-5	-5		FRONT	VERT	TOTAL		C1
M	6-7-4	-5	-5		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 38 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 8.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN O/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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.29")
CALCULATED VERT. DEFL.(LL) = L/989 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/989 (0.01")

CSI: TC=0.18/1.00 (B-C:1), BC=0.12/1.00 (F-G:1),
WB=0.16/1.00 (A-G:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	518 354	1587 788 1987 1886

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.75 (G) (INPUT = 0.90)
JSI METAL = 0.23 (G) (INPUT = 1.00)



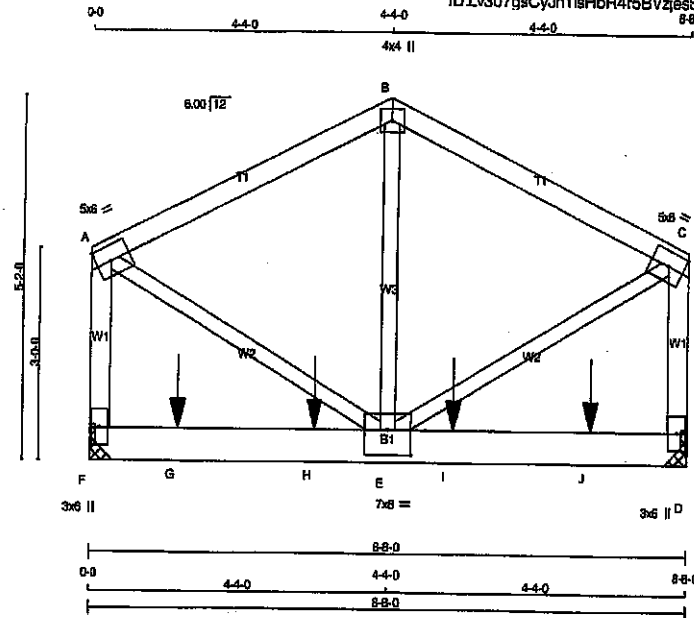
Structural component only
DWG# T-2007769

JOB NAME 408265	TRUSS NAME T81	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 26 11:19:21 2020 Page 1
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Scale = 1:30.3



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY No.2	SPF
B - C	2x4	DRY No.2	SPF
F - A	2x4	DRY No.2	SPF
D - C	2x4	DRY No.2	SPF
F - D	2x6	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B	12	TOP
B-C	12	TOP
F-A	12	TOP
D-C	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	FLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	6.0	Edge
B	TTW-p	MT20	4.0	4.0	

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
F	3511	0	3511	0
D	3425	0	3425	0

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

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	2480	1847 / 0	0 / 0	0 / 0	0 / 0	833 / 0	0 / 0
D	2419	1807 / 0	0 / 0	0 / 0	0 / 0	812 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 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	MAX. FACTORED
MEMB.	FORCE (LBS)	FORCE (LBS)
FR-TO	FROM TO	FR-TO
A-B	-2284 / 0	-81.8 -91.8 0.19 (1)
B-C	-2284 / 0	-91.8 -91.8 0.19 (1)
F-A	-2459 / 0	0.0 0.0 0.19 (1)
D-C	-2459 / 0	0.0 0.0 0.19 (1)
F-G	0 / 0	-18.5 -18.5 0.66 (1)
G-H	0 / 0	-18.5 -18.5 0.66 (1)
H-E	0 / 0	-18.5 -18.5 0.66 (1)
E-I	0 / 0	-18.5 -18.5 0.66 (1)
I-J	0 / 0	-18.5 -18.5 0.66 (1)
J-D	0 / 0	-18.5 -18.5 0.66 (1)

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-3-4	-1495	-1495	---	FRONT	VERT	TOTAL	---	C1
H	3-3-4	-1495	-1495	---	FRONT	VERT	TOTAL	---	C1
I	5-3-4	-1495	-1495	---	FRONT	VERT	TOTAL	---	C1
J	7-3-4	-1495	-1495	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 2 X 43 = 87 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.29")
CALCULATED VERT. DEFL. (LL) = L/889 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.29")
CALCULATED VERT. DEFL. (TL) = L/959 (0.06")

CSI: TC=0.19/1.00 (A-F:1), BC=0.66/1.00 (D-E:1), WB=0.30/1.00 (A-E:1), SS=0.70/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.74 (B) (INPUT = 0.90)
JSI METAL= 0.29 (A) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007770 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T81	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 5 Oct 29 2018 MTEK Industries, Inc. Tue Apr 28 11:19:21 2020 Page 2

ID:Ly307qsCvJh1sHbR4r5BVziesS-6Wdc6aJkU xlmLcNrNoJ3YbJ2DUYZP6iusMckizMDG4

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMVW-t	MT20	5.0	6.0		Edge
D	BMV1-p	MT20	3.0	6.0		
E	BMWWW-t	MT20	7.0	8.0	4.25	4.00
F	BMV1-p	MT20	3.0	6.0		

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

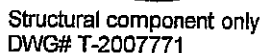


Structural component only
DWG# T-2007770 2/2

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Tue Apr 28 11:19:23 2020 Page 1
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Scale: 1:3.1



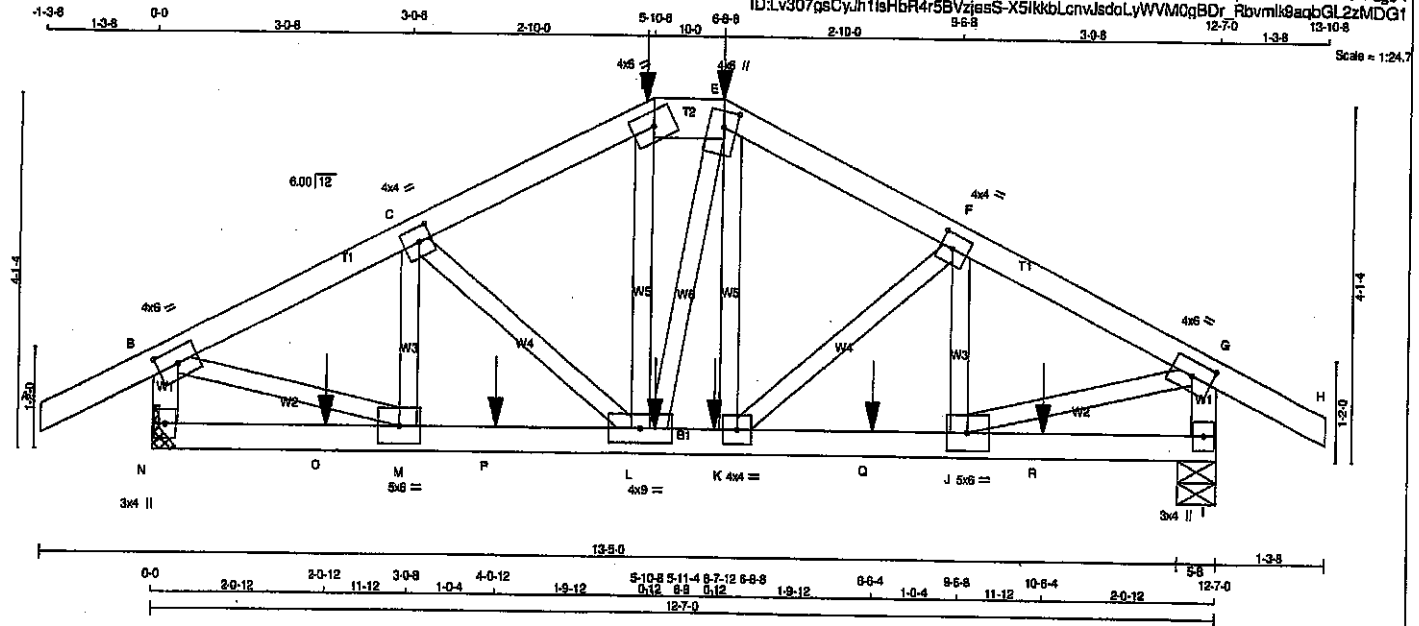
USI GRIP= 0.89 (C) (INPUT = 0.90)
USI METAL= 0.96 (C) (INPUT = 1.00)



JOB NAME 408265	TRUSS NAME T83	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 11:19:24 2020 Page 1
ID:Lv307psCyJh1sHbR4r5BVziesS-X5IKkblCnvJadoLyWVMQgBDI_Rovmli9aqbGL2zMDG1



TOTAL WEIGHT = 58 lb

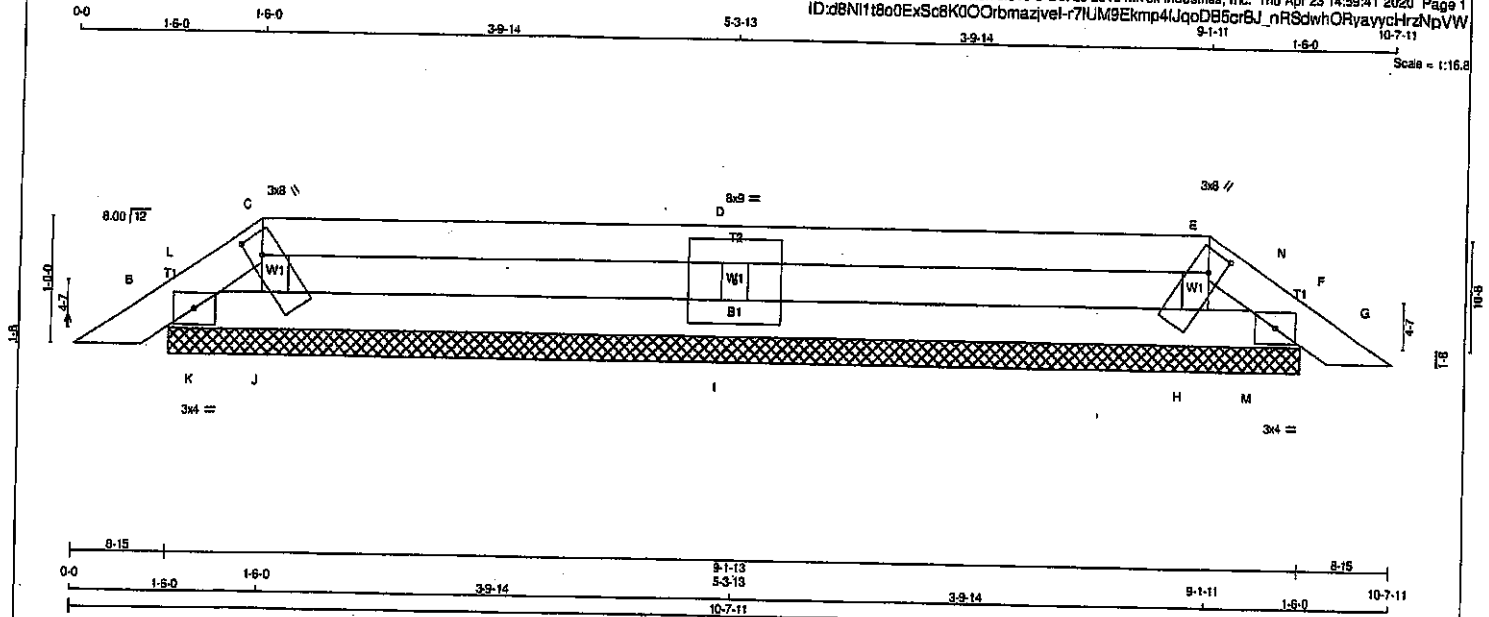
LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESC
A - D	2x4	DRY	No.2	SPF
D - E	2x6	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
N - I	2x4	DRY	No.2	SPF

JOB NAME 408263	TRUSS NAME PB1	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:41 2020 Page 1
ID:d8N118a0ExSc8K00Orbmazvel-r7IUM9EKmp4UqoDB5cr6J_nRSdwhQRyayycHrzNpVW
Scale = 1:16.8



LUMBER

N. L. G. A. RULES

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

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	
C, D, E, H, I, J					
C	TTBW1+h	MT20	3.0	8.0	2.00 1.25
D	TMBMW1-I	MT20	8.0	9.0	
E	TTBW1+h	MT20	3.0	8.0	2.00 1.25
F	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	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
B	127	0	127	0	9-1-13	9-1-13
F	127	0	127	0	9-1-13	9-1-13
J	184	0	184	0	9-1-13	9-1-13
H	184	0	184	0	9-1-13	9-1-13
I	510	0	510	0	9-1-13	9-1-13

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	88	78/0	0/0	0/0	0/0	8/0	0/0
F	88	78/0	0/0	0/0	0/0	8/0	0/0
J	133	68/0	0/0	0/0	0/0	65/0	0/0
H	133	68/0	0/0	0/0	0/0	65/0	0/0
I	359	244/0	0/0	0/0	0/0	115/0	0/0

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

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.	FORCE	FACTORED			MEMB.	MAX. FACTORED	
	(LBS)	VERT. LOAD	CS1 (L)	MAX.		FORCE	MAX
		(PLF)		UNBRAC		(LBS)	CS1 (L)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0/15	-91.8	-91.8 0.03 (1)	10.00	J-C	-120 / 0	0.02 (1)
B-L	-51/0	-91.8	-91.8 0.03 (1)	6.25	H-E	-120/0	0.02 (1)
L-C	-37/0	-91.8	-91.8 0.01 (1)	6.25	I-D	-438/0	0.08 (1)
C-D	0/0	-91.8	-91.8 0.23 (1)	10.00	K-L	-23 / 0	0.00 (1)
D-E	0/0	-91.8	-91.8 0.23 (1)	10.00	M-N	-23 / 0	0.00 (1)
E-N	-37/0	-91.8	-91.8 0.01 (1)	6.25			
N-F	-51/0	-91.8	-91.8 0.03 (1)	6.25			
F-G	0/15	-91.8	-91.8 0.03 (1)	10.00			
B-K	0/21	-18.5	-18.5 0.01 (1)	10.00			
K-J	0/21	-18.5	-18.5 0.04 (4)	10.00			
J-I	0/0	-18.5	-18.5 0.05 (4)	10.00			
I-H	0/0	-18.5	-18.5 0.05 (4)	10.00			
H-M	0/21	-18.5	-18.5 0.04 (4)	10.00			
M-F	0/21	-18.5	-18.5 0.01 (1)	10.00			

TOTAL WEIGHT = 2 X 24 = 48 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
DL = 8.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. O.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 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.23/1.00 (C-D-1), BC=0.05/1.00 (I-J-4), WB=0.06/1.00 (D-I-1), SS=0.17/1.00 (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)
MAX MIN	MAX MIN
MT20	818 354 1667 788 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (E) (INPUT = 0.90)
JSI METAL= 0.06 (E) (INPUT = 1.00)



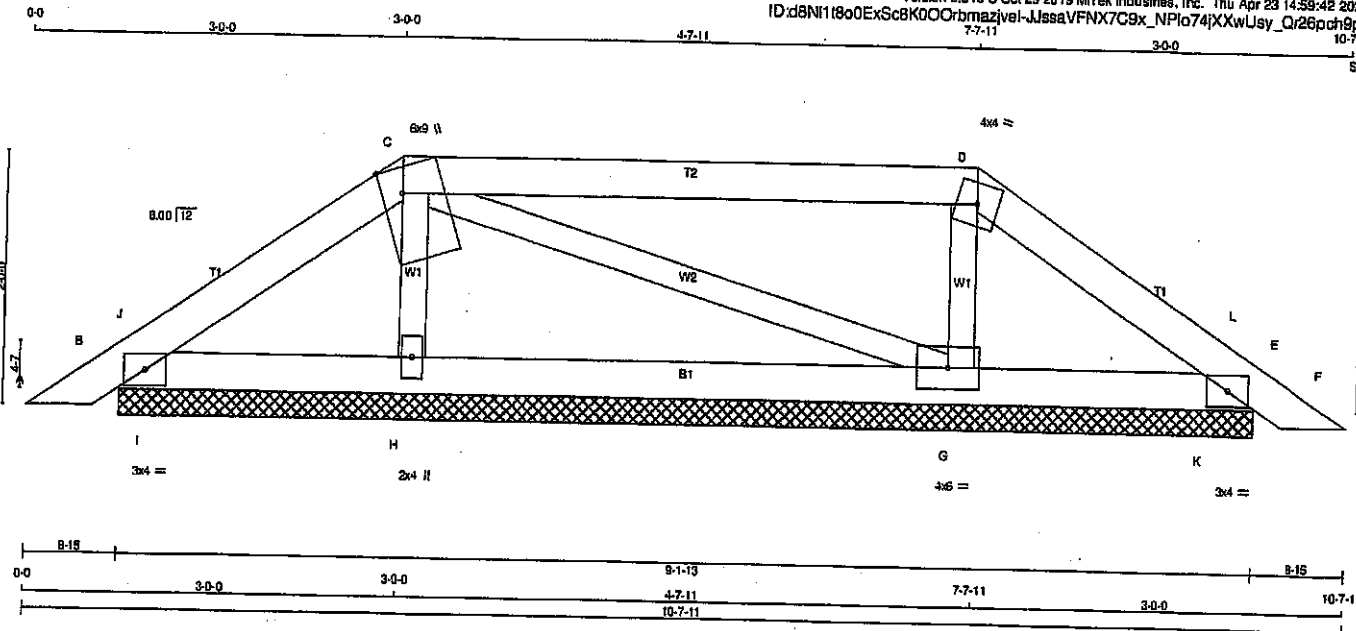
Structural component only
DWG# T-2006756

JOB NAME 408263	TRUSS NAME PB2	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:42 2020 Page 1
ID:d8N1t8o0ExSc8K0OOrbmazjveI-JJsaVFNX7C9x_NPto74jXXwUxy_Qr26pchi9pHzNpVV

Scale = 1:16.8



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY
C - D	2x4	DRY
D - F	2x4	DRY
B - E	2x4	DRY

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTWW-m	MT20	6.0	9.0	Edge	2.00
D	TTW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMWW1-I	MT20	4.0	8.0		
H	BMWW1-w	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	217	0	217	0	9-1-13	9-1-13
E	208	0	208	0	9-1-13	9-1-13
H	343	0	343	0	9-1-13	9-1-13
G	362	0	362	0	9-1-13	9-1-13

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	151	115 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
E	144	110 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0
H	244	150 / 0	0 / 0	0 / 0	0 / 0	94 / 0	0 / 0
G	258	161 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 15	-91.8 -91.8	0.03 (1)	10.00	H-C	-250 / 0	0.04 (1)
B-J	-59 / 0	-91.8 -91.8	0.01 (1)	8.25	C-G	-15 / 0	0.01 (1)
J-C	-78 / 0	-91.8 -91.8	0.05 (1)	8.25	G-D	-265 / 0	0.04 (1)
C-D	-32 / 0	-91.8 -91.8	0.34 (1)	8.25	I-J	-134 / 0	0.00 (1)
D-L	-62 / 0	-91.8 -91.8	0.05 (1)	6.25	K-L	-135 / 0	0.00 (1)
L-E	-42 / 0	-91.8 -91.8	0.01 (1)	6.25			
E-F	0 / 15	-91.8 -91.8	0.03 (1)	10.00			
B-I	0 / 62	-18.5 -18.5	0.06 (1)	10.00			
J-H	0 / 62	-18.5 -18.5	0.07 (4)	10.00			
H-G	0 / 46	-18.5 -18.5	0.06 (4)	10.00			
G-K	0 / 49	-18.5 -18.5	0.06 (4)	10.00			
K-E	0 / 49	-18.5 -18.5	0.06 (1)	10.00			

TOTAL WEIGHT = 2 X 30 = 59 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.8 PSF
	DL	= 8.0 PSF
BOT CH.	LL	= 0.0 PSF
	DL	= 7.4 PSF
TOTAL LOAD		= 39.0 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 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.34/1.00 (C-D:1), BC=0.07/1.00 (H-I:4), WB=0.04/1.00 (D-G:1), SS=0.17/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

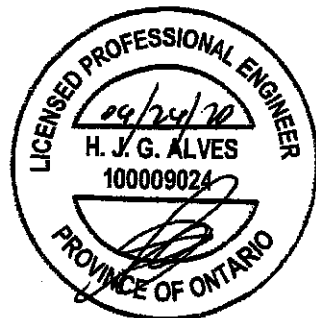
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1567 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (H) (INPUT = 1.00)

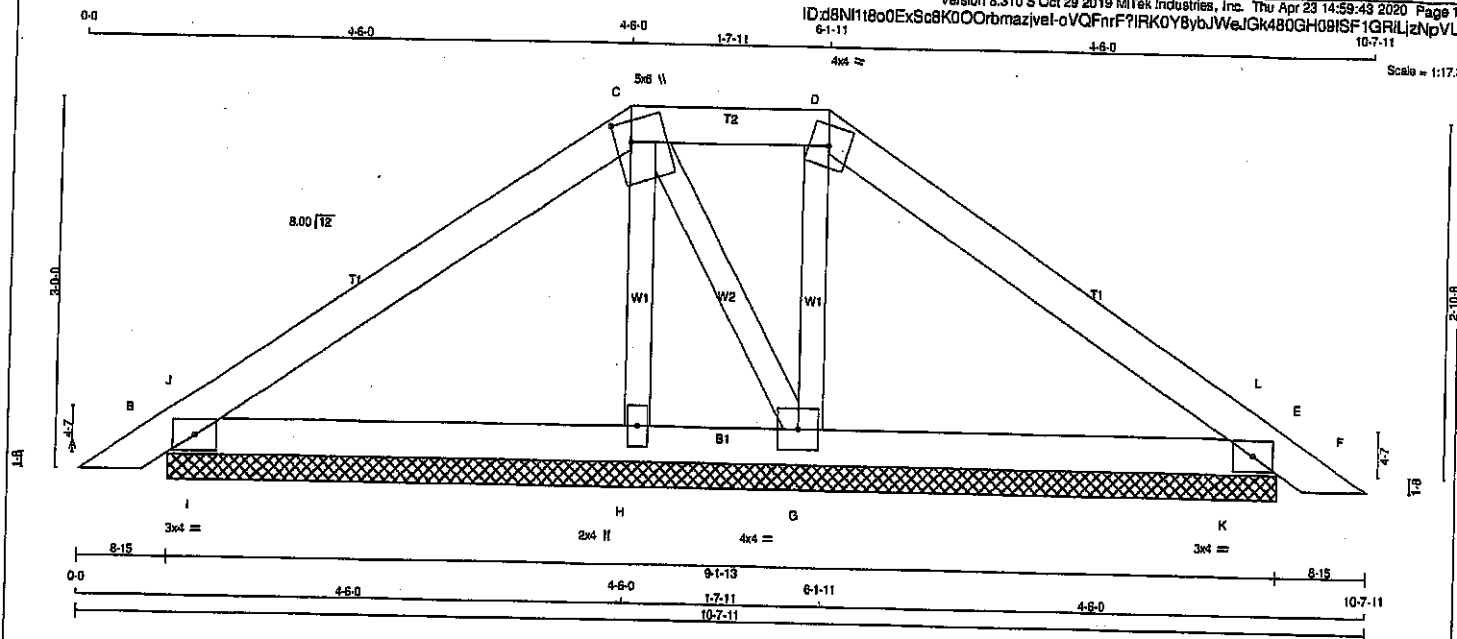


Structural component only
DWG# T-2006757

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408263	PB3	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 8 Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:43 2020 Page 1
ID: d8N118o0ExSc8K0OOrbmazjvel-oVQFnrf?IRK0YBybJWeJGk480GH09ISF1GRILjzNpVU
6-1-11 10-7-11 10-7-11
Scale = 1:17.3



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-J	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMWW1-I	MT20	4.0	4.0		
H	BMW1-w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
B	328	0	328	0	9-1-13	9-1-13
E	312	0	312	0	9-1-13	9-1-13
H	192	0	192	0	9-1-13	9-1-13
G	299	0	299	0	9-1-13	9-1-13

UNFACTORED REACTIONS

JT	1ST LOASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
B	230	163 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0
E	219	153 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0
H	138	80 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
G	211	140 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0 / 15	-91.8	-91.8	0.03 (1)	10.00	H-C	-105 / 0	0.02 (1)
B-J	-48 / 0	-91.8	-91.8	0.08 (1)	6.25	C-G	-52 / 0	0.01 (1)
J-C	-135 / 0	-91.8	-91.8	0.15 (1)	6.25	G-D	-156 / 0	0.03 (1)
C-D	-75 / 0	-91.8	-91.8	0.04 (1)	6.25	I-J	-309 / 0	0.00 (1)
D-L	-106 / 0	-91.8	-91.8	0.18 (1)	6.25	K-L	-312 / 0	0.00 (1)
L-E	-38 / 0	-91.8	-91.8	0.05 (1)	6.25			
E-F	0 / 15	-91.8	-91.8	0.03 (1)	10.00			
B-I	0 / 106	-18.5	-18.5	0.14 (1)	10.00			
I-H	0 / 106	-18.5	-18.5	0.14 (1)	10.00			
H-G	0 / 102	-18.5	-18.5	0.09 (1)	10.00			
G-K	0 / 82	-18.5	-18.5	0.14 (1)	10.00			
K-E	0 / 82	-18.5	-18.5	0.14 (1)	10.00			

TOTAL WEIGHT = 2 X 30 = 61 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	DL = 25.6 PSF
	DL = 6.0 PSF
BOT CH.	DL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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 NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.16/1.00 (C-J:1), BC=0.14/1.00 (B-I:1), WB=0.03/1.00 (D-G:1), SS=0.24/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

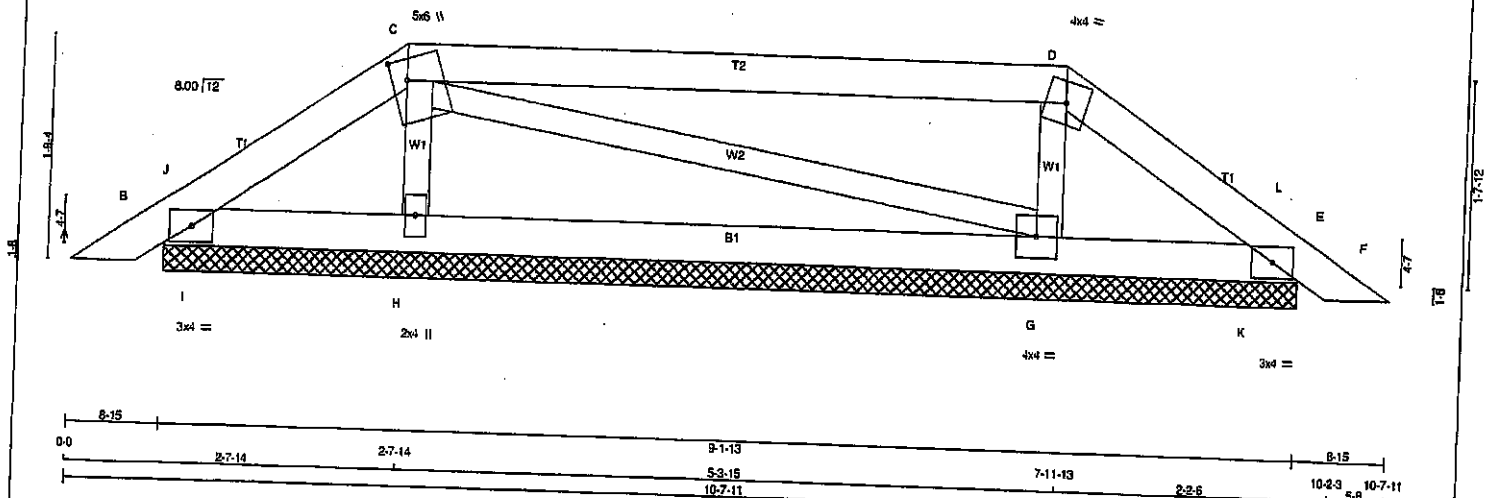
JSI GRIP = 0.27 (B) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006758

JOB NAME 408264	TRUSS NAME PB21	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 23 15:13:55 2020 Page 1
ID: SgUMMpxrEgZE5VLzZMvKzJdJcTpW2PWo_ODfXn9SLKcvm6R8W4lpBUZLnnzNpI9
7-11-13 10-7-11
Scale = 1:18.8



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY				TOTAL WEIGHT = 2 X 30 = 59 lb			
N. L. G. A. RULES				BUILDING DESIGNER							
CHORDS	SIZE	LUMBER	DESCR.	BEARINGS							
A - C	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	RECORD				
C - D	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG				
D - F	2x4	DRY	No.2	JT	VERT	HORZ	UPLIFT	IN-SX	IN-SX		
B - E	2x4	DRY	No.2	B	188	0	188	0	0	9-1-13	9-1-13
ALL WEBS 2x3 DRY SEASONED LUMBER.				E	182	0	182	0	0	9-1-13	9-1-13
				H	375	0	375	0	0	9-1-13	9-1-13
				G	386	0	386	0	0	9-1-13	9-1-13

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL = 25.6	PSF	
BOT CH.	LL = 8.0	PSF	
	DL = 0.0	PSF	
	DL = 7.4	PSF	
TOTAL LOAD	= 39.0	PSF	
SPACING = 24.0 IN. C/C			
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
THIS DESIGN COMPLIES WITH:			
- PART 9 OF CBC 2018, CBC 2012, ABC 2019			
- PART 9 OF CBC 2012 (2019 AMENDMENT)			
- CSA 086-09, CSA 086-14			
- TPIC 2011, TPIC 2014			
(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD			

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)
A-B	0:15	-91.8	-91.8 0.01 (1)	H-C	-274:0	0.02 (1)	0.02 (1)
B-J	-52:0	-91.8	-91.8 0.01 (1)	C-G	-10:0	0.00 (1)	0.00 (1)
J-C	-70:0	-91.8	-91.8 0.02 (1)	G-D	-282:0	0.02 (1)	0.02 (1)
C-D	-24:0	-91.8	-91.8 0.22 (1)	D-L	-115:0	0.00 (1)	0.00 (1)
D-L	-59:0	-91.8	-91.8 0.01 (1)	L-E	-118:0	0.00 (1)	0.00 (1)
L-E	-41:3	-91.8	-91.8 0.01 (1)	E-F	0:15	-91.8	-91.8 0.01 (1)
E-F	0:15	-91.8	-91.8 0.01 (1)				
B-I	0:55	-18.5	-18.5 0.02 (1)				
I-H	0:55	-18.5	-18.5 0.04 (4)				
H-G	0:34	-18.5	-18.5 0.04 (4)				
G-K	0:46	-18.5	-18.5 0.04 (4)				
K-E	0:46	-18.5	-18.5 0.02 (1)				

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMB-I	MT20	3.0	4.0	
C	TTWW-m	MT20	5.0	6.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMB-I	MT20	3.0	4.0	
G	BMWW-I	MT20	4.0	4.0	
H	BMWW-I	MT20	2.0	4.0	

LOADING

TOTAL LOAD CASES: (4)

DESIGN CRITERIA

CS: TC=0.22/1.00 (C-D:1), BC=0.04/1.00 (H-I:4), WB=0.02/1.00 (D-G:1), SS=0.10/1.00 (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)	(PLI)
MT20	618	354	1667
	788	1987	1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (D) (INPUT = 0.90)

JSI METAL= 0.03 (H) (INPUT = 1.00)

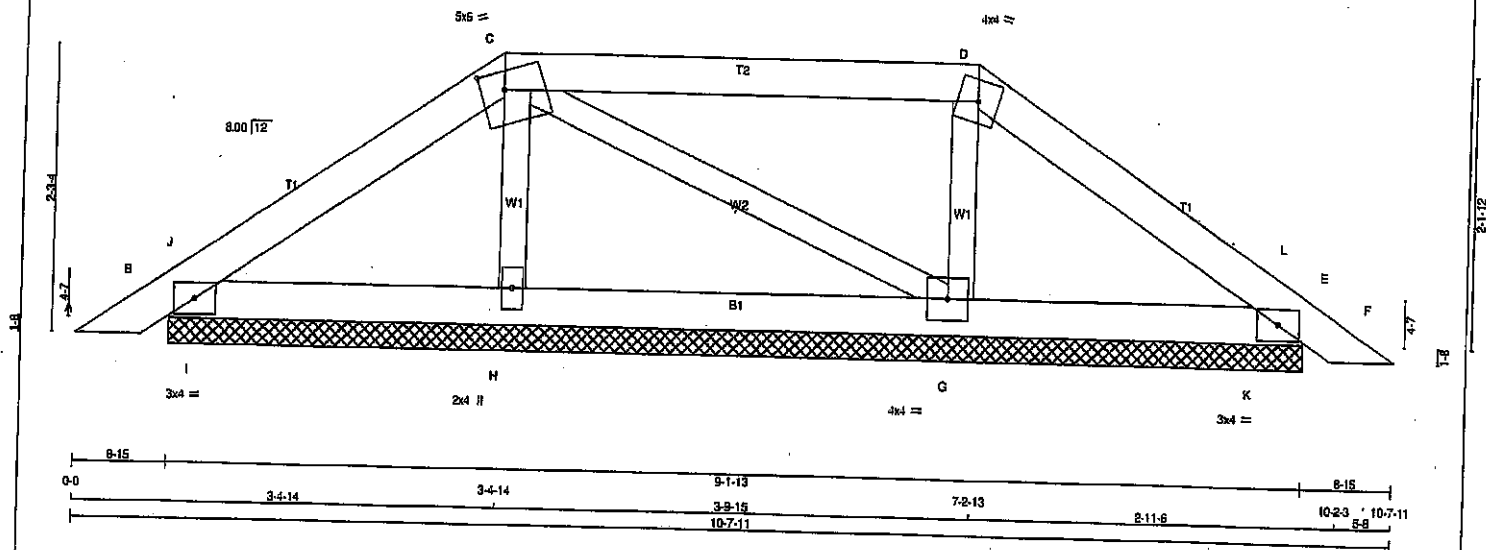
LICENSED PROFESSIONAL ENGINEER
H. J. G. ALVES
100009024
PROVINCE OF ONTARIO

Structural component only
DWG# T-2006790

JOB NAME 408264	TRUSS NAME PB22	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 23 15:13:57 2020 Page 1
ID: SgUMMpxrEgZEK5VLZzZMvKZjUjD-no050shAqwr?NEKLSzatqR3PWmqFXlyQ7JvKEzNp18

Scale = 1:16.0



LUMBER

N. L. G. A. RULES

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

DESCR.

SPF
SPF
SPF
SPF

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		
C TTWW-m	MT20	5.0	6.0	1.75	2.25
D TTW-m	MT20	4.0	4.0		
E TMB1-I	MT20	3.0	4.0		
G BMWW1-I	MT20	4.0	4.0		
H BMW1-w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	250	0	250	0	9-1-13	9-1-13
E	237	0	237	0	9-1-13	9-1-13
H	305	0	305	0	9-1-13	9-1-13
G	339	0	339	0	9-1-13	9-1-13

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS			
	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	175	128.0	0.0	0.0	46.0	0.0
E	185	121.0	0.0	0.0	45.0	0.0
H	217	134.0	0.0	0.0	83.0	0.0
G	240	153.0	0.0	0.0	87.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	LC1	MAX. CS1 (LC)	
FR-TO		FROM TO			FR-TO				
A-B	0 / 15	-91.8	-91.8	0.03 (1)	10.00	H-C	-218.0	0.03 (1)	
B-J	-65 / 0	-91.8	-91.8	0.02 (1)	10.00	C-G	-23.0	0.01 (1)	
J-C	-93 / 0	-91.8	-91.8	0.03 (1)	10.00	G-D	-241.0	0.04 (1)	
C-D	-41 / 0	-91.8	-91.8	0.23 (1)	10.00	F-J	-165.0	0.00 (1)	
D-L	-69 / 0	-91.8	-91.8	0.08 (1)	10.00	K-L	-167.0	0.00 (1)	
L-E	-41 / 0	-91.8	-91.8	0.02 (1)	10.00				
E-F	0 / 15	-91.8	-91.8	0.03 (1)	10.00				
B-I	0 / 74	-18.5	-18.5	0.06 (1)	10.00				
I-H	0 / 74	-18.5	-18.5	0.08 (1)	10.00				
H-G	0 / 62	-18.5	-18.5	0.05 (4)	10.00				
G-K	0 / 55	-18.5	-18.5	0.08 (1)	10.00				
K-E	0 / 55	-18.5	-18.5	0.08 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.23/1.00 (C-D:1), BC=0.08/1.00 (H-I:1), WB=0.04/1.00 (D-G:1), SS=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

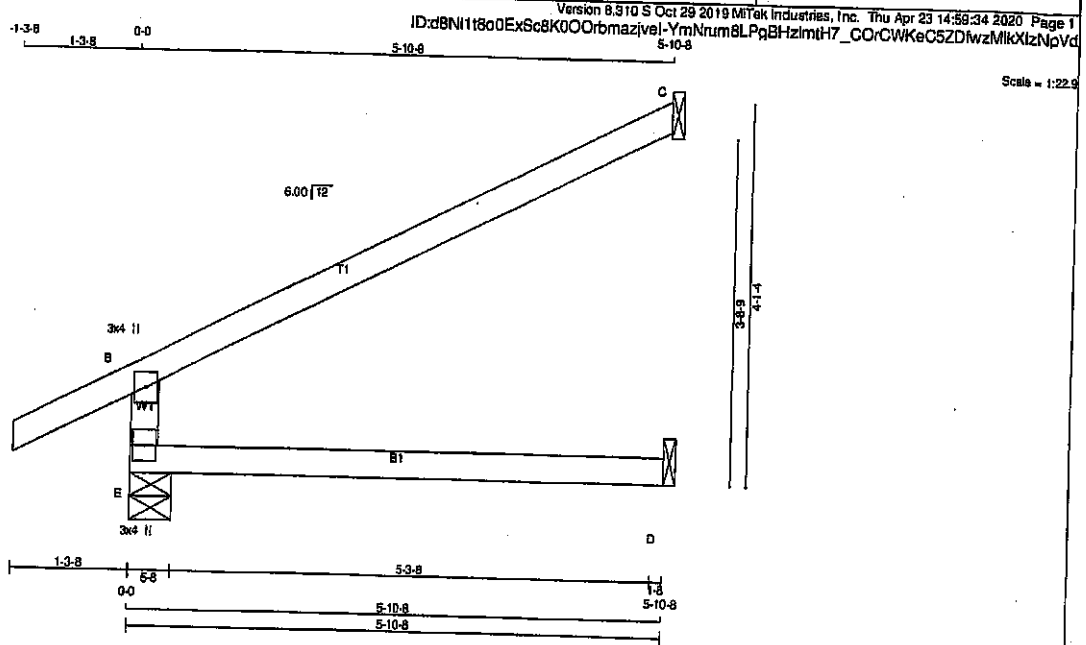
JSI GRIP = 0.20 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2006791

JOB NAME 408263	TRUSS NAME J1	QUANTITY 9	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
E	525 0	525 0	5-8	5-8
C	202 0	202 0	1-8	1-8
D	45 0	50 0	1-8	1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	389	257 / 0	0 / 0	0 / 0	111 / 0	0 / 0
C	139	113 / 0	0 / 0	0 / 0	28 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED			MAX. UNBRAC LENGTH	WEBS MAX. FACTORED FORCE (LBS)
		VERT. LOAD	LC1	MAX. CSI (LC)		
FR-TO						
E-B	-461 / 0	0.0	0.0	0.13 (4)	7.81	
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	
B-C	-30 / 0	-91.8	-91.8	0.54 (1)	6.25	
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-06, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.03")

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (W:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

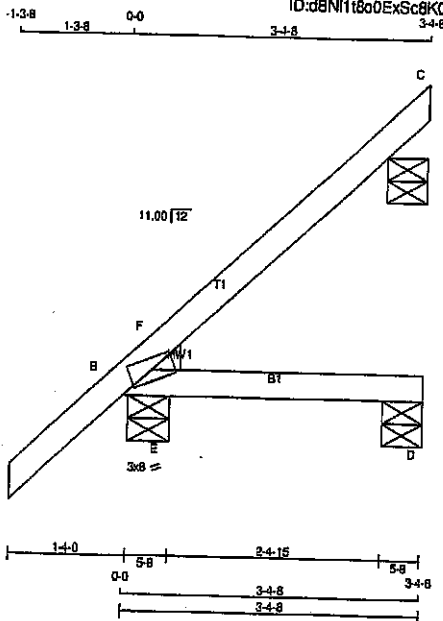
JSI GRIP = 0.19 (E) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006751

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408263	J2	10	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington



Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 28 14:59:35 2020 Page 1
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Scale = 1:23.8

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 TMBH1-m MT20 3.0 6.0

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	RECORD BRG IN-SX	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	131	0	131	0	5-8	5-8	
B	314	0	314	0	5-8	5-8	2x4 L
D	56	0	56	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	1ST LOASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
C	90	70/0	0/0	0/0	0/0	20/0	0/0
B	219	157/0	0/0	0/0	0/0	82/0	0/0
D	41	16/0	0/0	0/0	0/0	25/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. MEMB. FORCE (LBS)	WEBS		MAX. FACTORED FORCE (LBS)
	MAX. FORCE (LBS)	VERT. LOAD LC1	PLF	MAX. CSI (LC)		MAX. MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	
FR-TO								
A-B	0/42	-91.8	-91.8	0.14 (5)	10.00	E-F	-178/0	0.00 (1)
B-F	-16/15	-91.8	-91.8	0.02 (4)	6.25			
F-C	-2/2	-91.8	-91.8	0.13 (1)	10.00			
B-E	0/0	-18.5	-18.5	0.11 (1)	10.00			
E-D	0/0	-18.5	-18.5	0.11 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 10 X 12 = 117 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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) = $L/999$ (0.02")

CSI: TO=0.14/1.00 (A-B:5), BC=0.11/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SSI=0.14/1.00 (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

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 783 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.80)
JSI METAL= 0.04 (B) (INPUT = 1.00)

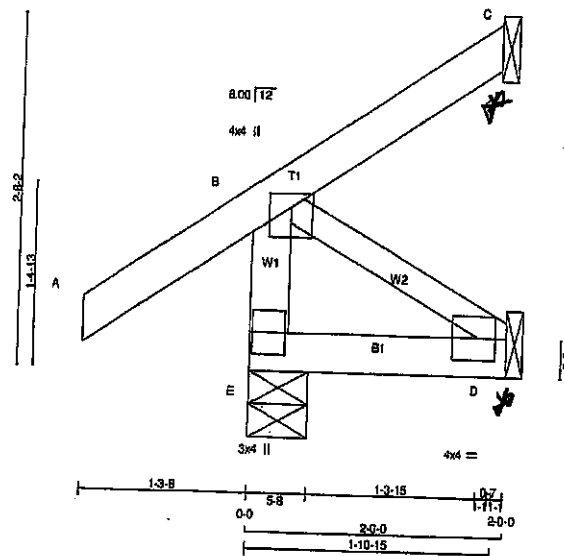


Structural component only
DWG# T-2006752

JOB NAME 408263	TRUSS NAME J4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:38 2020 Page 1
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1-10-15 2-0-0
1-10-15 2-0-0

Scale = 1:16.2



LUMBER	N. L. G. A. RULES	SIZE	LUMBER
CHORDS	2x4	DRY	No. 2
E - B	2x4	DRY	No. 2
A - C	2x4	DRY	No. 2
E - D	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	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV1-i	MT20	4.0	4.0	2.00	1.50
E	BMV1+p	MT20	3.0	4.0		

DESCR.	SPF	SPF	SPF	SPF
JT	FACTORED	MAXIMUM FACTORED	INPUT	REQD
E	GROSS REACTION	GROSS REACTION	BRG	BRG
C	VERT	DOWN	IN-SX	IN-SX
D	HORIZ	UP	IN-SX	IN-SX

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

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

UNFACTORED REACTIONS							
	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	192	144 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
C	29	24 / -25	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED LENGTH FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LENGTH FR-TO
E-B	-259 / 0	0.0	0.0	0.03 (1)	7.81	B-D	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00				
B-C	-25 / 0	-91.8	-91.8	0.12 (1)	8.25				
E-D	0 / 0	-18.5	-18.5	0.02 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 10 = 19 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



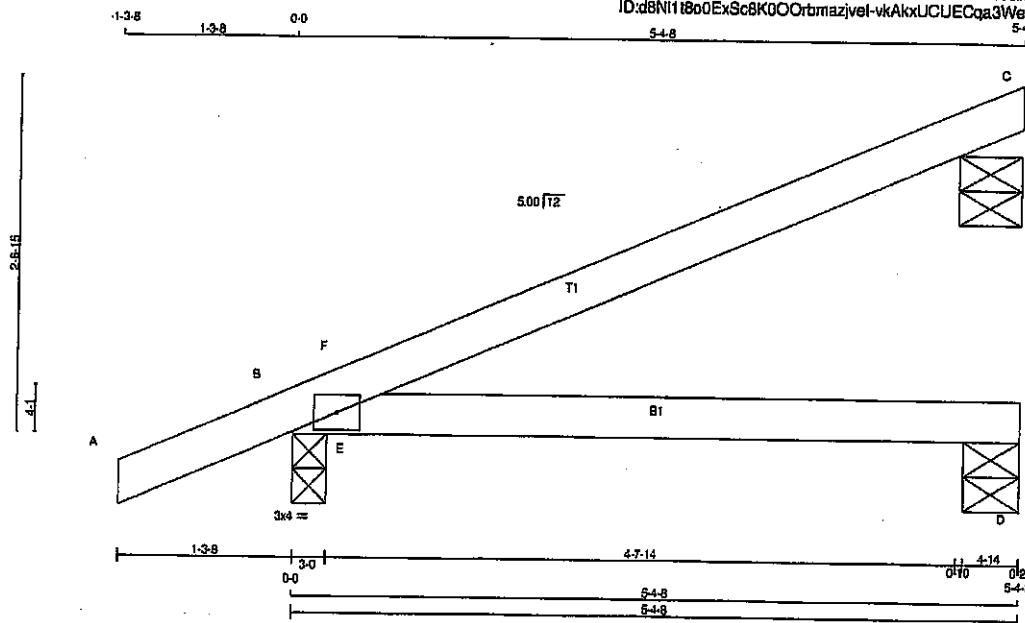
Structural component only
DWG# T-2006754

JOB NAME 408263	TRUSS NAME J5	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:38 2020 Page 1

ID: d8N11t8o0ExSc8K00Orbmazjel-vkAkxUCUECga3Waq4gaN5uvP6fuZDUuf7eTVQvzNpVY

Scale = 1:15.4



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 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	IN-SX	IN-SX	IN-SX	IN-SX
C	216	0	216	0	5-8	5-8		
B	420	0	420	0	3-0	3-0		
D	81	0	81	0	5-0	5-0		

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS					
	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
C	149	118 / 0	0 / 0	0 / 0	33 / 0	0 / 0		
B	295	206 / 0	0 / 0	0 / 0	88 / 0	0 / 0		
D	60	21 / 0	0 / 0	0 / 0	39 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED				WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO								
A-B	0 / 23	-91.8	-91.8	0.12 (1)	10.00	E-F	-341 / 11	0.00 (1)
B-F	-22 / 38	-91.8	-91.8	0.06 (1)	6.25			
F-C	-3 / 2	-91.8	-91.8	0.34 (1)	10.00			
B-E	0 / 0	-18.5	-18.5	0.24 (1)	10.00			
E-D	0 / 0	-18.5	-18.5	0.24 (1)	10.00			

TOTAL WEIGHT = 7 X 15 = 102 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/641 (0.10")

CSI: TC=0.34/1.00 (C-F:1), BC=0.24/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.28/1.00 (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)
MT20	618	354	1687
	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

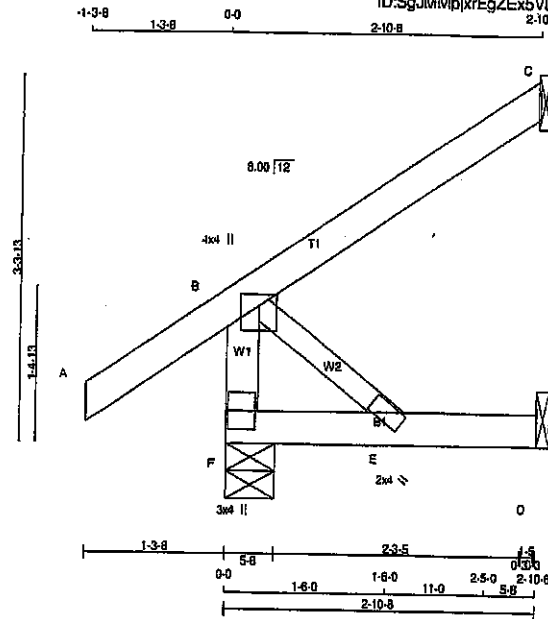


Structural component only
DWG# T-2006755

JOB NAME 408264	TRUSS NAME J21	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:13:49 2020 Page 1
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Scale = 1:19.3

LUMBER

N. L. G. A. RULES

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

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

DESCR.
SPF
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMVW+p	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
F	284	284	0	5-8
C	132	132	0	1-8
D	27	30	0	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	199	144 / 0	0 / 0	0 / 0	0 / 0	0 / 0	55 / 0	0 / 0
C	91	74 / 0	0 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	21	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
F-B		-258 / 0	0.0	0.0	0.03 (1)	7.81	B-E		0 / 0	0.00 (1)
A-B		0 / 35	-91.8	-91.8	0.13 (5)	10.00				
B-C		0 / 0	-91.8	-91.8	0.13 (1)	10.00				
F-E		0 / 0	-18.5	-18.5	0.04 (4)	10.00				
E-D		0 / 0	-18.5	-18.5	0.04 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 12 = 23 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/D

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, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B-S), BC=0.04/1.00 (E-F-4), WB=0.00/1.00 (B-E-1), SSI=0.09/1.00 (A-B-S)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



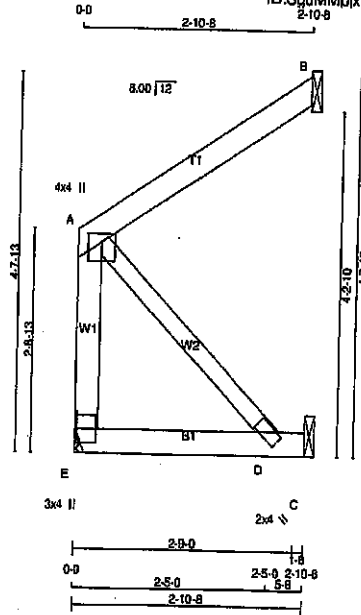
Structural component only
DWG# T-2006784

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	J22	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:13:50 2020 Page 1
ID: SqJMMpikrEgZE5VLzZMvKzjd-US5RYTVHqg2qgICORuLx5LukiO6MawpY61a7zNpIF

Scale = 1:28.1



LUMBER

N. L. G. A. RULES

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMVW+w	MT20	2.0	4.0		
E	BMVt+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	158	0	158	0	1-8	1-8
B	132	0	132	0	1-8	1-8
C	27	0	30	0	1-8	1-8

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

SEE MITEK STANDARD DETAIL 897791 H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
E	112	74/0	0/0	0/0	0/0	39/0	0/0
B	91	74/0	0/0	0/0	0/0	17/0	0/0
C	21	0/0	0/0	0/0	0/0	21/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED			MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
		VERT. LOAD	PLF	LC1				
E-A	-132/0	0.0	0.0	0.02 (1)	7.81	A-D	0/0	0.00 (1)
A-B	0/0	-91.8	-91.8	0.13 (1)	10.00			
E-D	0/0	-18.5	-18.5	0.04 (4)	10.00			
D-C	0/0	-18.5	-18.5	0.02 (4)	10.00			

TOTAL WEIGHT = 2 X 13 = 25 lb [MIF]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
	DL = 8.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: $TC=0.13/1.00$ (A-B:1), $BC=0.04/1.00$ (D-E:4),
 $WB=0.00/1.00$ (A-D:1), $SSI=0.09/1.00$ (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

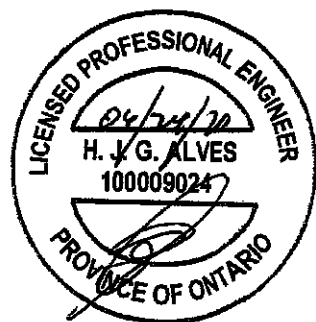
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	618	354	1887 798 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

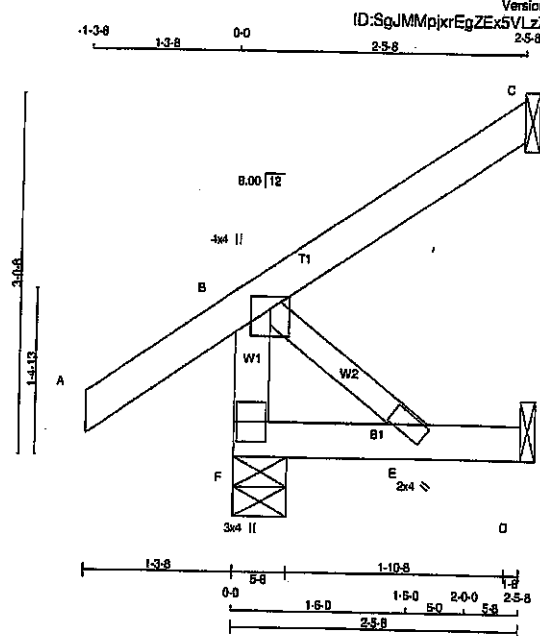
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (A) (INPUT = 0.90)
JSI METAL= 0.03 (A) (INPUT = 1.00)



Structural component only
DWG# T-2006785

JOB NAME 408264	TRUSS NAME J23	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV+p	MT20	4.0	4.0	1.25	2.00
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	261	0	261	0	5-8	5-8
C	113	0	113	0	1-8	1-8
D	23	0	25	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
F	183	133/0	0/0	0/0	0/0	49/0	0/0
C	78	63/0	0/0	0/0	0/0	15/0	0/0
D	18	0/0	0/0	0/0	0/0	18/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO				
F-B	-239 / 0	0.0	0.0 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8 (13)	10.00				
B-C	0 / 0	-91.8	-91.8 (9)	10.00				
F-E	0 / 0	-18.5	-18.5 (4)	10.00				
E-D	0 / 0	-18.5	-18.5 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 7 X 11 = 74 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B:5), BC=0.03/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	616 354	1867 788

PLATE PLACEMENT TOL. = 0.250 inches

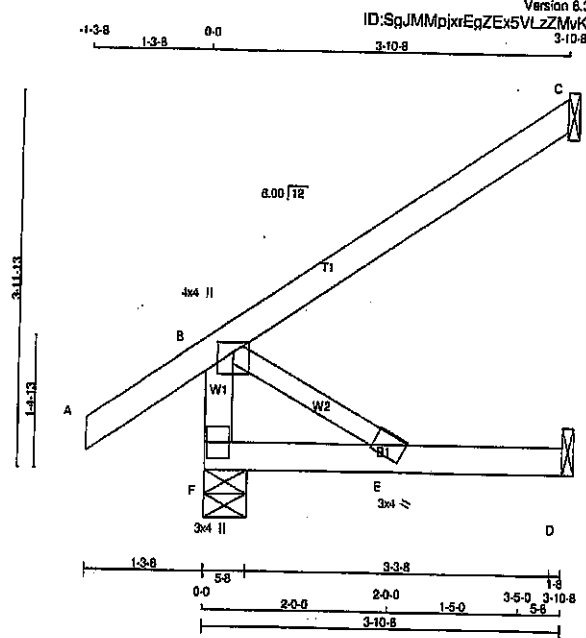
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.80)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006786

JOB NAME 408264	TRUSS NAME J24	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	No.2
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	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 TMVW+p	MT20	4.0	4.0	1.25	2.00
E BMW+w	MT20	3.0	4.0		
F BMV1+p	MT20	3.0	4.0		

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

WAS DESIGNER							
BEARINGS							
JT	FACTORED		MAXIMUM FACTORED		INPUT		RECORD
	GROSS REACTION		GROSS REACTION		BRG		BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	340	0	340	0	0	5-8	5-8
C	178	0	178	0	0	1-8	1-8
D	38	0	40	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	238	189.0	0.0	0.0	0.0	68.0	0.0
C	122	99.0	0.0	0.0	0.0	23.0	0.0
D	28	0.0	0.0	0.0	0.0	29.0	0.0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
F-B	-304.0	0.0	0.0	0.03 (1)	7.81		
A-B	0.35	-91.8	-91.8	0.14 (5)	10.00	0	0.00 (1)
B-C	0.0	-91.8	-91.8	0.23 (1)	10.00		
F-E	0.0	-18.5	-18.5	0.08 (4)	10.00		
E-D	0.0	-18.5	-18.5	0.08 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 15 = 87 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19')
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00')
ALLOWABLE DEFL.(TL) = $L/360$ (0.19')
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.01')

CSI: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

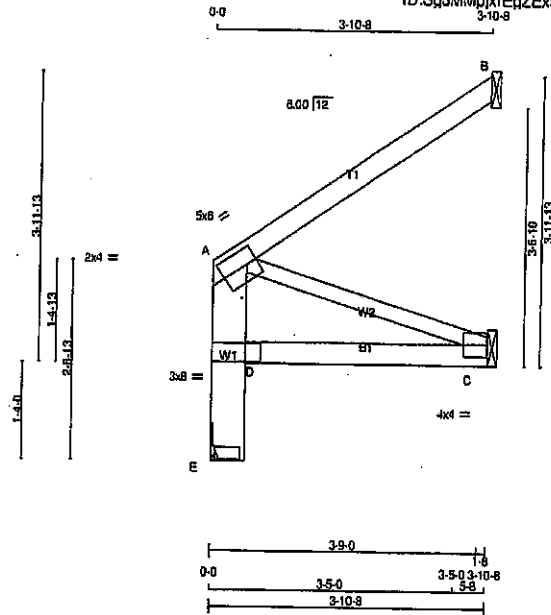
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.21 (B) (INPUT = 0.50)
JSI METAL=0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006787



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESC
E - A	2x8	DRY No.2	SPF
A - B	2x4	DRY No.2	SPF
D - C	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	6.0	2.50	1.75
A	TP-p	MT20	2.0	4.0	5.50	0.75
C	BMW1-1	MT20	4.0	4.0		
D	BVM-1	MT20	3.0	8.0	1.50	2.50

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
E	212	0	212	0	0	MECHANICAL
B	178	0	178	0	0	1-8
C	34	0	38	0	0	1-8

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

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	150	99/0	0/0	0/0	0/0	51/0	0/0
B	122	98/0	0/0	0/0	0/0	23/0	0/0
C	27	0/0	0/0	0/0	0/0	27/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBB			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
E-O	-212 / 0	0.0	0.0	0.02 (1)			
D-A	-176 / 0	0.0	0.0	0.01 (1)	A-C	0 / 0	0.00 (1)
A-B	0 / 0	-91.8	-91.8	0.23 (1)			
D-C	0 / 0	-18.5	-18.5	0.07 (4)			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	25.6	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD		=	39.0 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 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.23/1.00 (A-B:1), BC=0.07/1.00 (C-D:4),
WB=0.00/1.00 (A-C:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.05 (A) (INPUT = 0.90)

JSI METAL= 0.03 (D) (INPUT = 1.00)



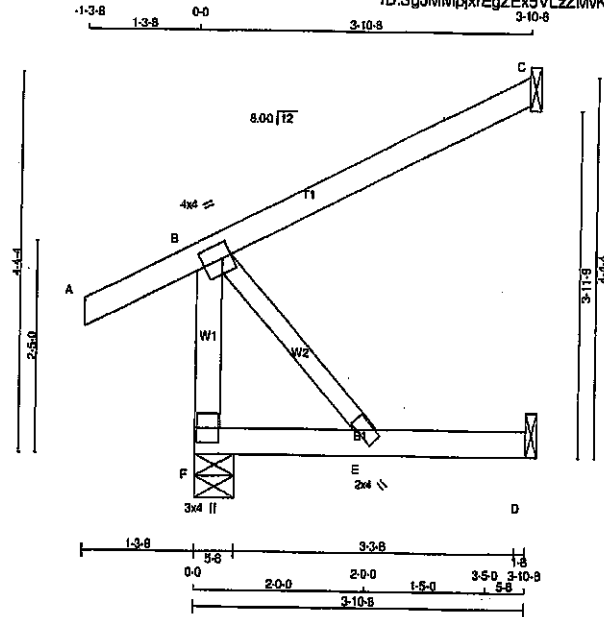
Structural component only
DWG# T-2006788

JOB NAME 408264	TRUSS NAME J26	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

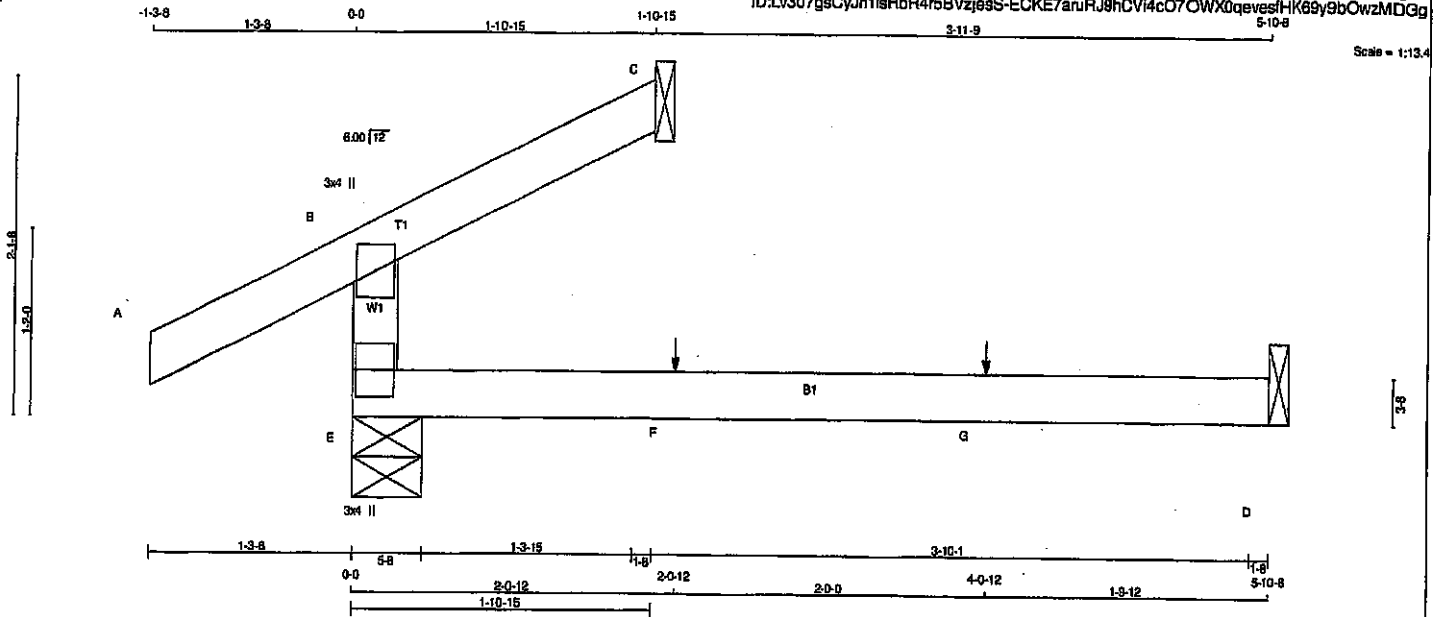
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 15:13:55 2020 Page 1
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JOB NAME 408265	TRUSS NAME J61	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:18:43 2020 Page 1
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5-10-8
Scale = 1:13.4



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	297	0	297	0	5-8	5-8
C	88	0	88	0	1-8	1-8
D	45	0	50	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LOASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
E	212	130/0	0/0	0/0	0/0	82/0	0/0
C	48	37/0	0/0	0/0	0/0	9/0	0/0
D	36	0/0	0/0	0/0	0/0	38/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD CSl (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED MAX CSl (LC)
FR-TO		FROM TO					
E-B	-234/0	0.0	0.0	0.13 (4)		7.81	
A-B	0/28	-91.8	-91.8	0.12 (1)		10.00	
B-C	-10/0	-91.8	-91.8	0.05 (1)		10.00	
E-F	0/0	-18.5	-18.5	0.13 (4)		10.00	
F-G	0/0	-18.5	-18.5	0.13 (4)		10.00	
G-D	0/0	-18.5	-18.5	0.13 (4)		10.00	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	1	1	1	FRONT	VERT	TOTAL	—	C1
G	4-0-12	1	1	1	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TG=0.12/1.00 (B-E-4), BC=0.13/1.00 (D-E-4), WB=0.00/1.00 (W-B-0), SSI=0.09/1.00 (A-B-1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1957 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



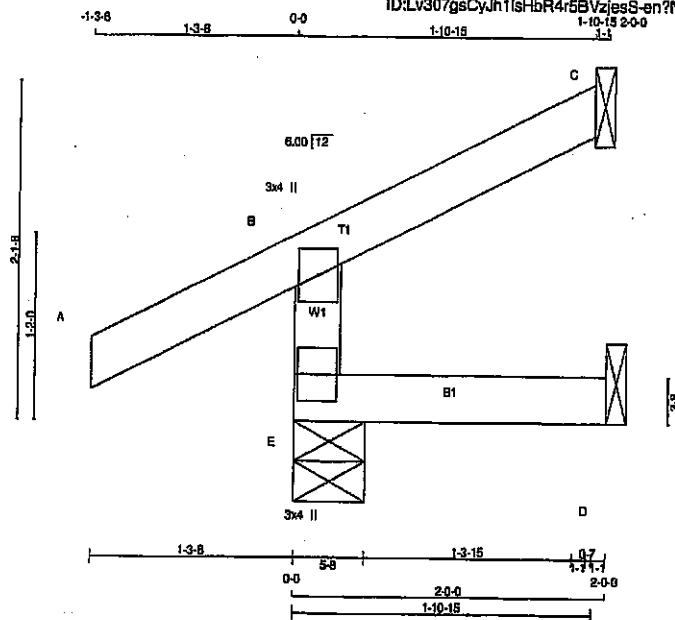
Structural component only
DWG# T-2007740

Structural component only
DWG# T-2007741

JOB NAME 408265	TRUSS NAME J63	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 25 2019, MITek Industries, Inc. Tue Apr 28 11:18:46 2020 Page 1
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Scale = 1:13.4



TOTAL WEIGHT = 7 X 7 = 51 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ		
E	254	0	254	0	5-8	5-8
C	86	0	86	0	1-8	1-8
D	16	0	16	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	177	130 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	46	37 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO				
E-B	-234 / 0	0.0	0.0	0.01 (4)	7.81	
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	
B-C	-10 / 0	-91.8	-91.8	0.06 (1)	10.00	
E-D	0 / 0	-18.5	-18.5	0.02 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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 NBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1867 768

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.50)
JSI METAL = 0.09 (B) (INPUT = 1.00)



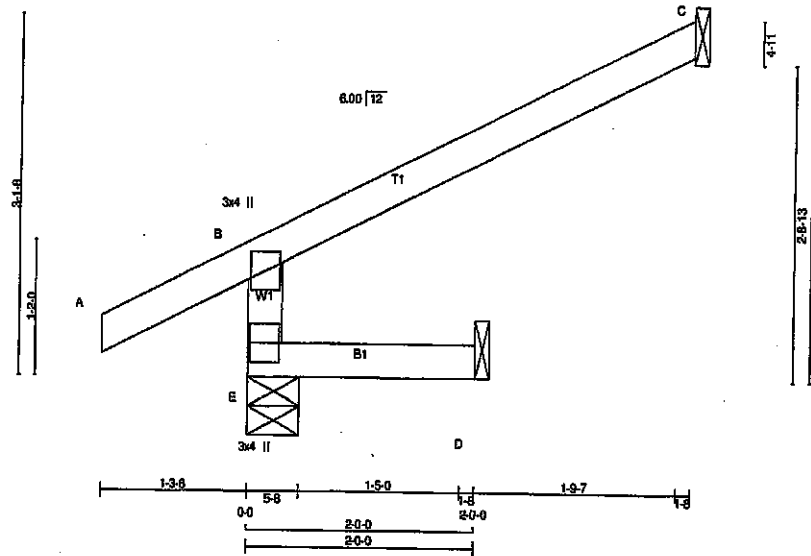
Structural component only
DWG# T-2007742

JOB NAME 408265	TRUSS NAME J64	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Tue Apr 28 11:18:47 2020 Page 1
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Scale = 1:18.5



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

BEARINGS							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	369	0	369	0	0	5-8	5-8
C	135	0	135	0	0	1-8	1-8
D	16	0	18	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL 897781 H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
E	256	194/0	0/0	0/0	0/0	82/0
C	93	75/0	0/0	0/0	0/0	18/0
D	13	0/0	0/0	0/0	0/0	13/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS			WEBB				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM TO			FR-TO		
E-B	-349/0	0.0	0.0	0.01 (4)			
A-B	0/28	-91.8	-91.8	0.13 (5)			
B-C	-20/0	-91.8	-91.8	0.24 (1)			
E-D	0/0	-18.5	-18.5	0.02 (4)			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 10 = 59 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.24/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

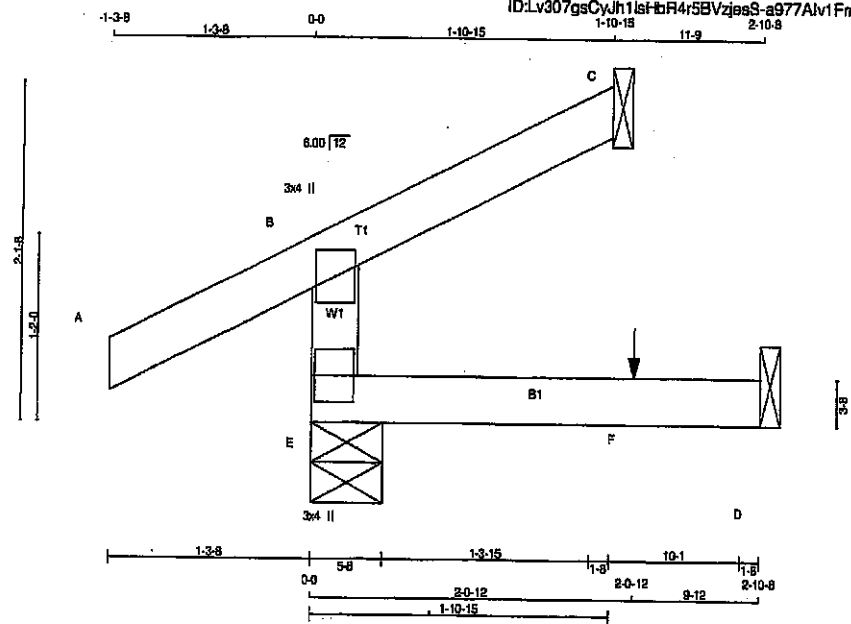
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (E) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007743

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	J66	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 28 2019 MITek Industries, Inc. Tue Apr 28 11:18:48 2020 Page 1					
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Scale = 1:13.4					



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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQD	
JT	COMBINED	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG
E	284	0	284	0	0	5-8	5-8		
C	66	0	66	0	0	1-8	1-8		
D	24	0	24	0	0	1-8	1-8		

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
E	185	130 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0				
C	46	37 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0				
D	19	0 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0				

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MEMB.
FR-TO		FROM TO		FR-TO			
E-B	-234 / 0	0.0	0.0 (4)	7.81			
A-B	0 / 28	-91.8	-91.8 (5)	10.00			
B-C	-10 / 0	-91.8	-91.8 (1)	10.00			
E-F	0 / 0	-18.5	-18.5 (4)	10.00			
F-D	0 / 0	-18.5	-18.5 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	-1	-1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	25.8	PSF
DL =	6.0	PSF	
BOT CH.	LL =	0.0	PSF
DL =	7.4	PSF	
TOTAL LOAD =	39.0	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 NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA D89-09, CSA D86-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(66 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/898$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/898$ (0.00")

CSI: TC=0.13/1.00 (A-B-5), BC=0.03/1.00 (D-E-4),
WB=0.00/1.00 (n/a-0), SS=0.10/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1667
	788	1987	1956

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



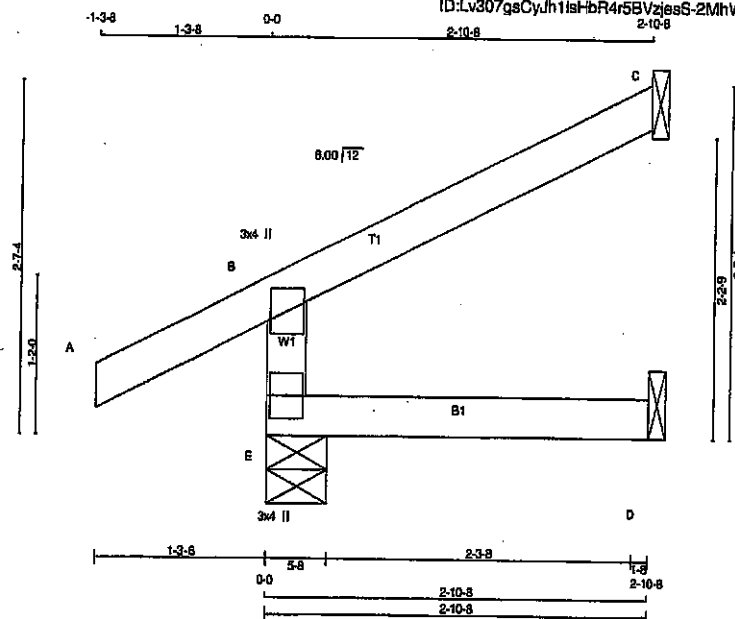
Structural component only
DWG# T-2007744

JOB NAME 408265	TRUSS NAME J67	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:18:49 2020 Page 1
ID:1.v307qsCylh1shBr4r5BVzjesS-2MhWQewI09vqwQ9EzfDpmoGs9Kjn3?p?XktvczMDGa

Scale = 1:15.7



TOTAL WEIGHT = 2 X 10 = 19 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	319	0	319	0
C	99	0	99	0
D	23	0	23	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	223	181/0	0/0	0/0	0/0	62/0	0/0
C	68	55/0	0/0	0/0	0/0	13/0	0/0
D	18	0/0	0/0	0/0	0/0	18/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	FACTORED HORZ. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS MAX. FACTORED FORCE (LBS)
FR-TO					
E-B	-269/0	0.0	0.0	0.02 (4)	7.81
A-B	0/28	-91.8	-91.8	0.13 (5)	10.03
B-C	-15/0	-91.8	-91.8	0.13 (1)	6.25
E-D	0/0	-18.5	-18.5	0.03 (4)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 5.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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 NBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (B-C:1), BC=0.09/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354
	1667	788
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.12 (E) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)

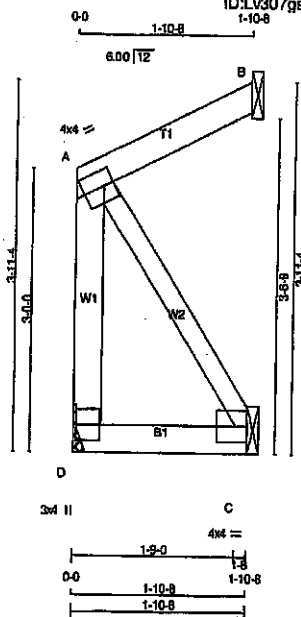


Structural component only
DWG# T-2007745

JOB NAME 408265	TRUSS NAME J68	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:18:51 2020 Page 1
ID:1v307geCydJh1sHbR4r5BVzjesS-7kpGpJywYm9YAkJc44GHrDLEp7PVXvJt_B50gSzMDGY



Scale = 1:22.5

LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	4.0	4.0	2.00	1.25
C	BMV1-1	MT20	4.0	4.0		Edge
D	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
D	103	103	0	MECHANICAL
B	88	88	0	1-8
C	17	19	0	1-8

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

SEE MITEK STANDARD DETAIL, S97781H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	73	48/0	0/0	0/0	0/0	25/0	0/0
B	59	48/0	0/0	0/0	0/0	11/0	0/0
C	13	0/0	0/0	0/0	0/0	13/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CS1 (LC)	MAX. CS1 (LC)
FR-TO				
D-A	-86/0	0.0	0.0	0.01 (1)
A-B	0/0	-91.8	-91.8	0.05 (1)
D-C	0/0	-18.5	-18.5	0.02 (4)

TOTAL WEIGHT = 10 lb

(M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
	DL = 8.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 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 COMPLES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL) = L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CS1: TC=0.05/1.00 (A-B:1), BC=0.02/1.00 (C-D:4), WB=0.00/1.00 (A-C:1), SS=0.06/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.05 (A) (INPUT = 0.90)
JSI METAL= 0.01 (A) (INPUT = 1.00)



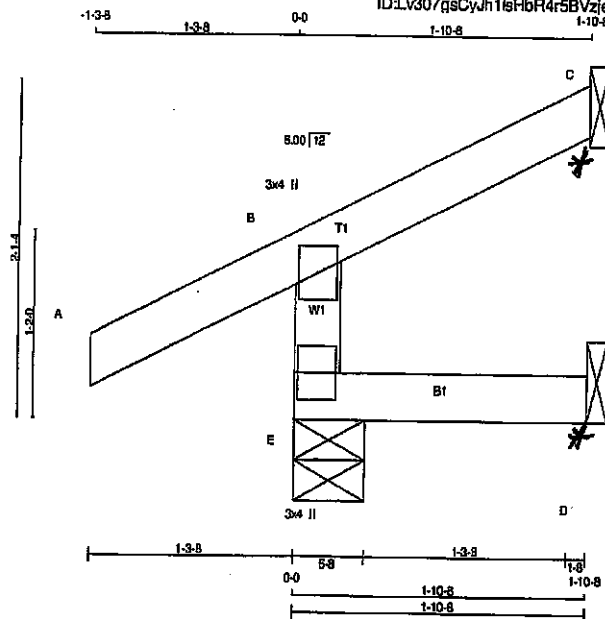
Structural component only
DWG# T-2007746

JOB NAME 408265	TRUSS NAME J69	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:18:52 2020 Page 1
ID: Lv307gsCyjh1bHbR4r5BVziesS-TxNe0fyYJ4HPnuupennWNRuOYXIQGMZRDnZCvzMDGX

Scale = 1:13.3



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
E	278	273	5-8	5-8
C	50	50	1-8	1-8
D	8	17	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H 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	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
E	190	143 / 0	0 / 0	47 / 0	0 / 0
C	35	27 / -17	0 / 0	7 / 0	0 / 0
D	8	0 / -8	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED MAX. CS (LC)	WIND UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. CS (LC)
E-B		-247 / 0	0.0	0.0	0.04 (5)	7.31		
A-B		0 / 28	-91.8	-91.8	0.12 (1)	10.00		
B-C		-16 / 0	-91.8	-91.8	0.09 (1)	6.25		
E-D		0 / 0	-18.5	-18.5	0.04 (5)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.8	PSF
	OL	= 6.0	PSF
BOT CH.	LL	= 0.0	PSF
	OL	= 7.4	PSF
TOTAL LOAD		= 39.0	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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 085-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
WB=0.00/1.00 (A-B:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1587

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

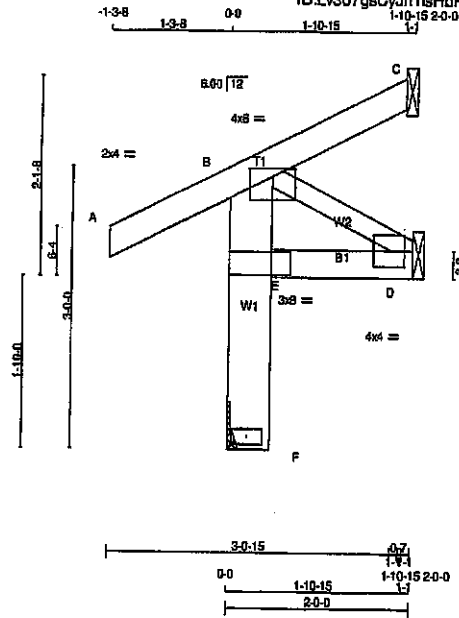


Structural component only
DWG# T-2007747

JOB NAME 408265	TRUSS NAME J71	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 28 2019 MTEK Industries, Inc. Tue Apr 28 11:18:54 2020 Page 1
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Scale = 1:22.7



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR
F - B	2x6	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	4.0	6.0	1.00	3.00
B TP-p	MT20	2.0	4.0		
D BMW1-t	MT20	4.0	4.0	2.00	1.75
E BVM-t	MT20	3.0	8.0	1.50	2.50

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
F	230	0	230	0
C	88	0	88	0
D	17	0	20	0

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

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	160	118/0	0/0	0/0	0/0	42/0	0/0
C	60	49/0	0/0	0/0	0/0	11/0	0/0
D	14	0/0	0/0	0/0	0/0	14/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED MAX. UNI-AXIAL STRESS (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. UNI-AXIAL STRESS (LC)
F-E	-230/0	0.0	0.0	0.02 (1)	F-D	0/0	0.00 (1)	
E-B	-212/0	0.0	0.0	0.01 (1)				
A-B	0/28	-91.8	-91.8	0.12 (1)				
B-C	0/0	-91.8	-91.8	0.06 (1)				
E-D	0/0	-18.5	-18.5	0.02 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 13 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 8.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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) = $L/999$ (0.00")

CSI: $TC=0.12/1.00$ (A-B:1), $BC=0.02/1.00$ (D-E:4),
 $WB=0.00/1.00$ (B-D:1), $SSI=0.09/1.00$ (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (B) (INPUT = 0.90)
JSI METAL = 0.03 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007749

LUL/LUS/LJS/HUS/HHUS/HGUS

SIMPSON
Strong-Tie

Standard and Double-Shear Joist Hangers



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

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

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

Material: See table on pp. 258–259.

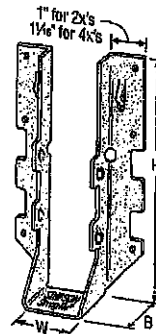
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

Installation:

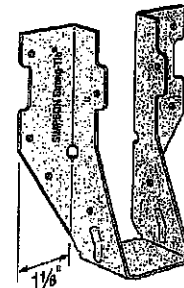
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for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

Options:

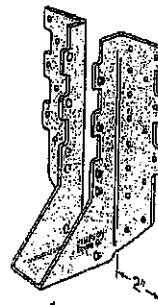
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



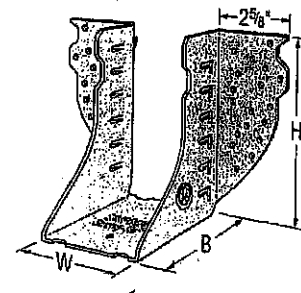
LUS28



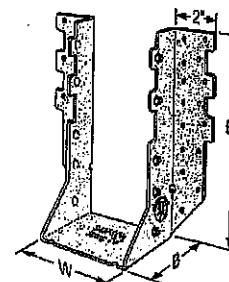
LU26L



HUS210
(HUS26, HUS28,
and HHUS similar)



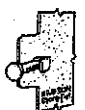
HGUS28-2



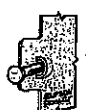
HHUS210-2



Double-Shear
Nailing
Top View

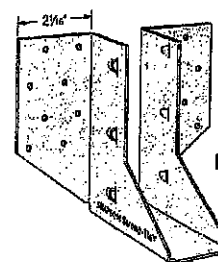
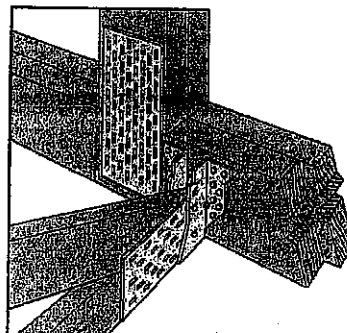


Double-Shear
Nailing
Side View;
Do not
bend tab



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

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



LJS26DS

Plated Truss Connectors

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

See Hanger Options information on pp. 125-127.

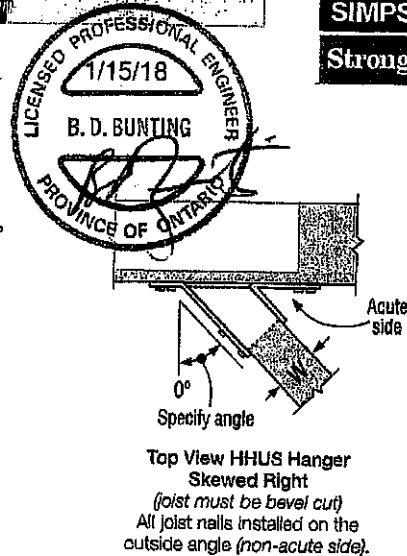
HHUS — Sloped and/or Skewed Seat

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

HGUS — Skewed Seat

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

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

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

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ³	Header	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15) lb.	(K _D = 1.00) kN	(K _D = 1.15) lb.	(K _D = 1.00) kN
Single 2x Sizes											
LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
								346	723	287	514
								360	1020	320	725
LU24L	22	1 1/8	3	1 1/4	2 1/8	(4) 10d	(2) 10d x 1 1/2"	1,60	4,54	1,42	3,22
								720	1605	645	1140
								3,20	7,14	2,87	5,07
LUS26	18	1 1/8	4 1/4	1 1/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
								6,32	9,85	5,74	7,25
								2705	4940	2065	3875
HUS26	16	1 1/8	5 3/8	3	3 1/8	(14) 16d	(6) 16d	11,30	21,97	9,20	17,24
								2055	4265	1460	4115
								9,14	18,97	6,49	18,31
LJS26DS	18	1 1/8	5	3 1/2	4 1/8	(16) 16d	(6) 16d	2685	6625	2685	5700
								11,96	29,51	11,96	25,35
								1140	2185	1020	1550
HGUS26	12	1 1/8	5 3/8	5	4 1/8	(20) 16d	(8) 16d	5,07	9,72	4,54	6,89
								1420	2520	1290	1790
								6,32	11,21	5,74	7,96
LU28L	20	1 1/8	6 3/4	1 1/4	5 1/8	(8) 10d	(6) 10d x 1 1/2"	3605	5365	2675	4345
								16,04	23,86	11,90	19,33
								3310	7675	3310	6900
SS LUS28	18	1 1/8	6 3/4	1 1/4	3 3/4	(6) 10d	(4) 10d	14,74	34,19	14,74	30,73
								1140	2495	1020	1770
								5,07	11,10	4,54	7,87
HUS28	16	1 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	1420	2785	1290	2210
								6,32	12,39	5,74	9,83

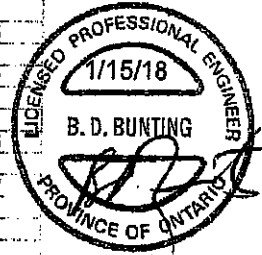
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_g is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSON and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27-28 for other nail sizes and information.

Face-Mount Hangers

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _h	Header	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _g = 1.15)	(K _g = 1.00)	(K _g = 1.15)	(K _g = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/4	(4) 16d	(2) 16d	835	2020	590	1435
								3.71	8.99	2.62	6.38
SS LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(8) 16d	2850	7335	2065	5205
								12.68	32.63	9.20	23.15
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
SS LUS28-2	18	3 1/8	7	2	4	(8) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS28-2	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
								20.77	42.07	18.84	31.14
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Triple 2x Sizes											
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	4670	9670	4235	6965
								20.77	43.02	18.84	30.54
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.60	46.26
Quadruple 2x Sizes											
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
HHUS210-4	14	8 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	4670	10155	4235	7210
								20.77	45.17	18.84	32.07
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.60	46.26
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
LUS46	18	3 1/8	4 1/8	2	3 1/8	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
HHUS46	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	2540	7335	2065	5205
								11.30	32.63	9.20	23.15
HGUS46	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
LUS48	18	3 1/8	6 1/8	2	3 1/8	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
LUS410	18	3 1/8	8 1/8	2	5 1/8	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HGUS410	12	3 1/8	9	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

TC - Truss Connectors

SIMPSON
Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

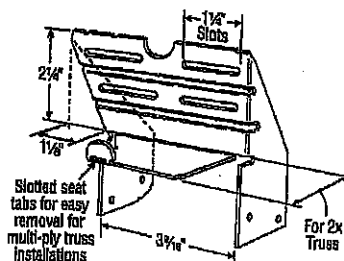
Design: Factored resistances are in accordance with CSA 086-14

Installation:

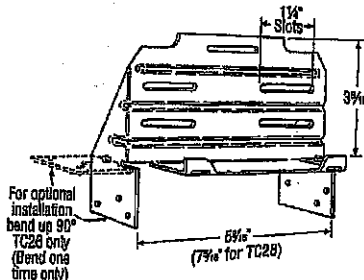
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

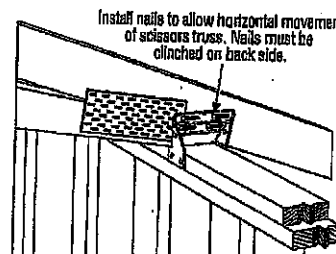
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



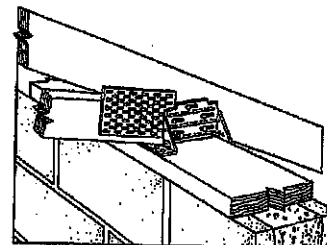
TC24
U.S. Patent 4,932,173



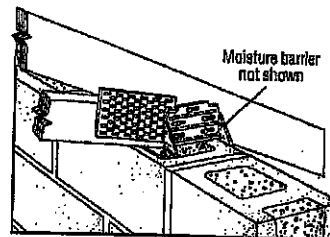
TC26
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC26 Installation for Grouted Concrete Block using Titen-Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D-Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(5) 10d	1015	720
TC28	(5) 10d	(5) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D-Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC26	(5) 10d	(6) 10d x 1½"	810	660
	(5) 10d	(6) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.

2. Grout strength is 15 MPa minimum.

3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.

4. TC26 fastened to grouted concrete block with (8) - ¾" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



UNITED STATES
DESIGN

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H/TSP

SIMPSON
Strong-Tie

Seismic and Hurricane Ties (cont.)

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

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

Model No.	Ga.	Fasteners			Factored Resistance ($K_D = 1.15$)					
					D.Fir-L			S-P-F		
		To Rafters/ Truss	To Plates	To Studs	Uplift	Lateral		Uplift	Lateral	
						F ₁	F ₂		F ₁	F ₂
					lb.	lb.	lb.	lb.	lb.	lb.
					kN	kN	kN	kN	kN	kN
H1	18	(6) 8d x 1 1/2"	(4) 8d	—	740	685	300	680	485	215
					3.29	3.05	1.33	3.02	2.16	0.96
SS H2A	18	(5) 8d x 1 1/2"	(2) 8d x 1 1/2"	(5) 8d x 1 1/2"	830	220	75	590	155	55
					3.69	0.98	0.33	2.62	0.69	0.24
SS H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
					3.68	0.71	0.71	3.36	0.71	0.71
H2.5T	18	(5) 8d	(5) 8d	—	835	175	210	740	160	210
					3.71	0.78	0.93	3.29	0.71	0.93
SS H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
					3.29	0.80	1.18	2.74	0.56	0.85
H6	16	—	(8) 8d	(8) 8d	1585	1085	—	1125	770	—
					7.05	4.83	—	5.00	3.43	—
H7Z	16	(4) 8d	(2) 8d	(8) 8d	1390	670	—	990	475	—
					6.18	2.98	—	4.40	2.11	—
SS H8 ²	18	(5) 10d x 1 1/2"	(5) 10d x 1 1/2"	—	1120	—	—	1025	—	—
					4.98	—	—	4.56	—	—
SS H10A ¹	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1735	795	410	1505	565	290
					7.72	3.54	1.82	6.69	2.51	1.29
H10AR	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1485	690	430	1220	570	305
					6.61	3.07	1.91	5.43	2.64	1.36
H10A-2	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1835	1275	430	1645	880	305
					8.16	5.67	1.91	7.32	3.91	1.36
H10S ^{2,3}	18	(8) 8d x 1 1/2"	(8) 8d x 1 1/2"	(8) 8d	1465	795	315	1040	565	225
					6.52	3.54	1.40	4.63	2.51	1.00
H11Z	18	(6) 16d x 2 1/2"	(6) 16d x 2 1/2"	—	1095	920	545	780	855	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	[1] (12) 8d x 1 1/2"	(13) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
		[2] (12) 8d x 1 1/2"	(15) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
TSP ¹	16	(9) 10d x 1 1/2"	(6) 10d x 1 1/2"	—	1295	440	—	920	310	—
					5.76	1.96	—	4.09	1.38	—
		(9) 10d x 1 1/2"	(6) 10d	—	1560	440	—	1105	310	—
					6.94	1.96	—	4.92	1.38	—

1. Factored resistances have been increased 15% for short term loading; no further increase is allowed.
2. Factored resistances are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
3. H8 factored uplift resistances for stud-to-bottom plate installations are 595 lb. (2.65 kN) for D.Fir-L and 390 lb. (1.74 kN) for S-P-F.
4. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
5. Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of the wall must be on the same side of the wall (see technical bulletin T-HTECONPATH).
6. Factored resistances in the F₁ direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

7. H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D.Fir-L and 1015 lb. (4.51 kN) S-P-F.
8. H10S nails to plates are optional for uplift but required for lateral loads.
9. H10A may be field-bent up to a slope of 6/12. Multiply the tabulated uplift value x 0.75. Full tabulated lateral resistances apply.
10. The factored resistances of stainless-steel connectors match carbon-steel connectors when installed with Simpson Strong-Tie® stainless-steel, SCNR ring-shank nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
11. D.Fir-L/S-P-F factored uplift resistances for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using (5) 8d x 1 1/2" nails into the top plates and (3) 8d x 1 1/2" nails into the lowest three flange holes into the truss bottom chord is 495 lb. (2.20 kN).
12. Nails: 16d x 2 1/2" = 0.182" dia. x 2 1/2" long, 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long, 8d = 0.131" dia. x 2 1/2" long, 8d x 1 1/2" = 0.131" dia. x 1 1/2" long. See pp. 27-28 for other nail sizes and information.

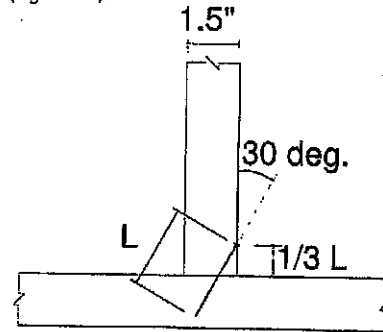
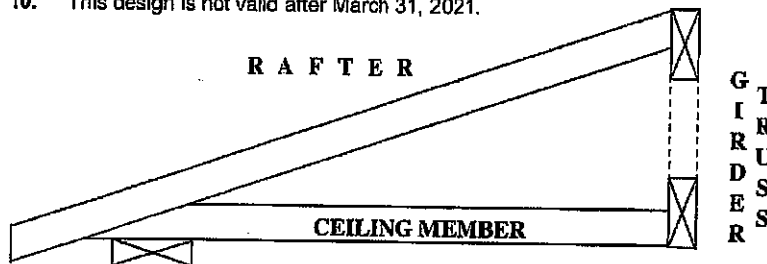
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.

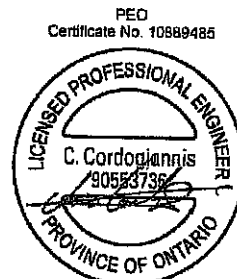


TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

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December 2, 2019



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

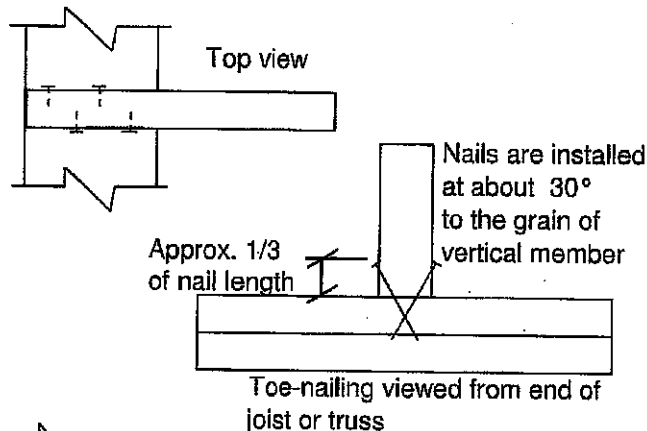
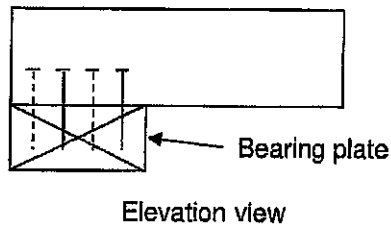
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

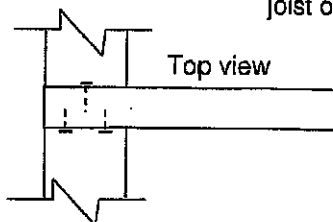
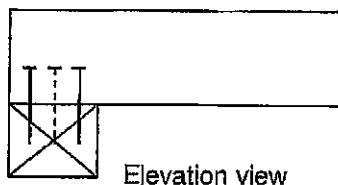
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate

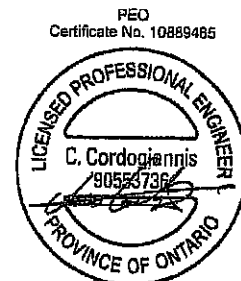


Toe-nailing on 2x4 Bearing Plate



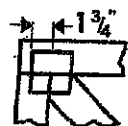
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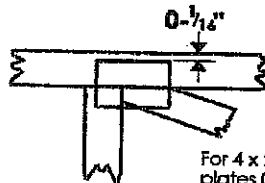


Symbols

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 0-1/4\" 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

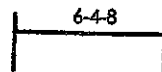


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

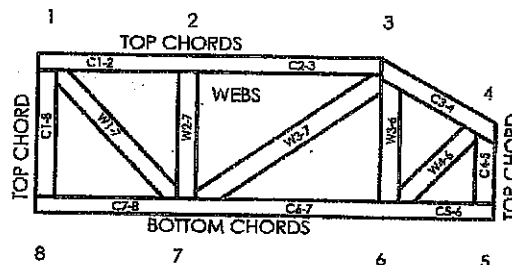
Industry Standards:

- 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

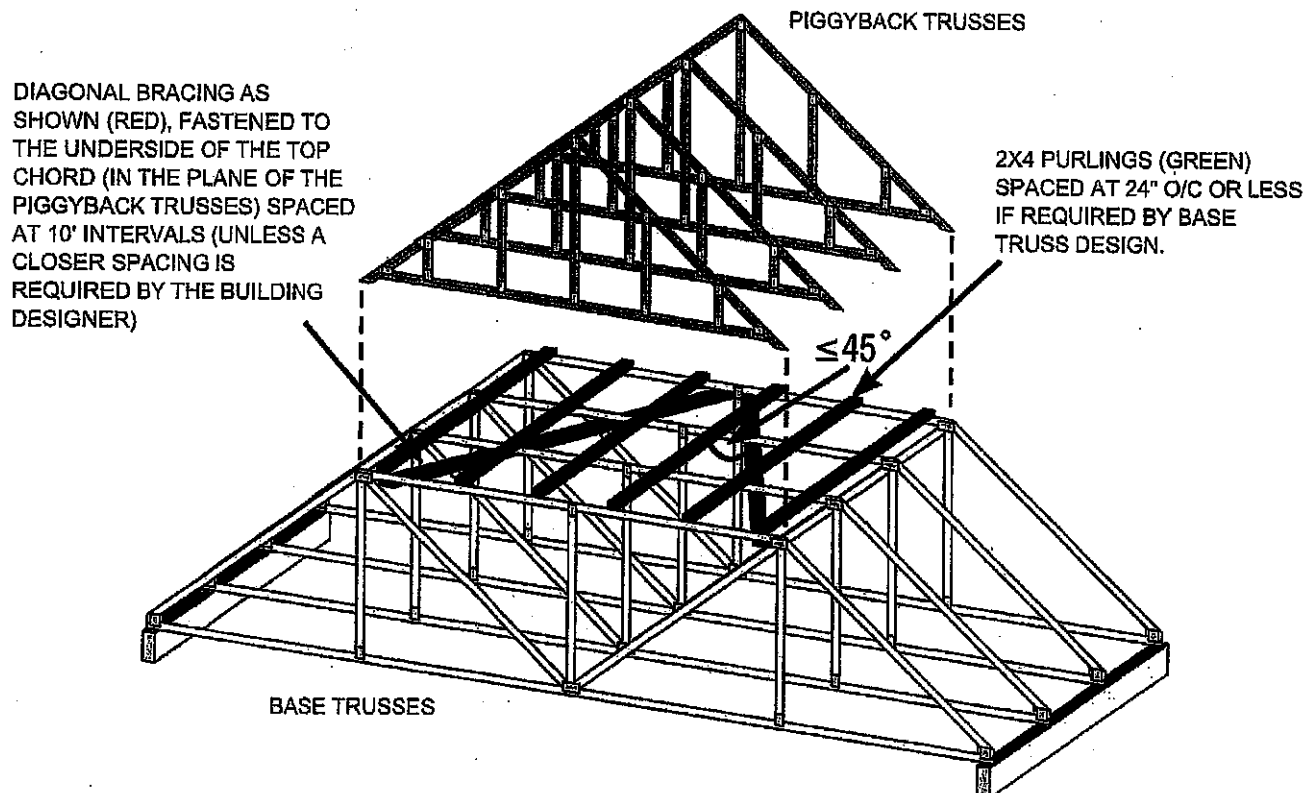
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
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 of 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.

Overview:

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

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

Detail:



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

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

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



Alves Engineering Services Inc.

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(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 M117473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1800218

Feb 09, 2018