

8/12 roof pitch unless noted

46-00-00

3-02-00
1-00-00

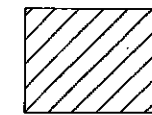
11/12

* 12" RAISED CEILING

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

HARDWARE:
LUS24 - (O)
LJS26DS - (V)
LUS26-2 - (VV)
HGUS26-2 - (XX)

DENOTES
CONV.
FRAMING



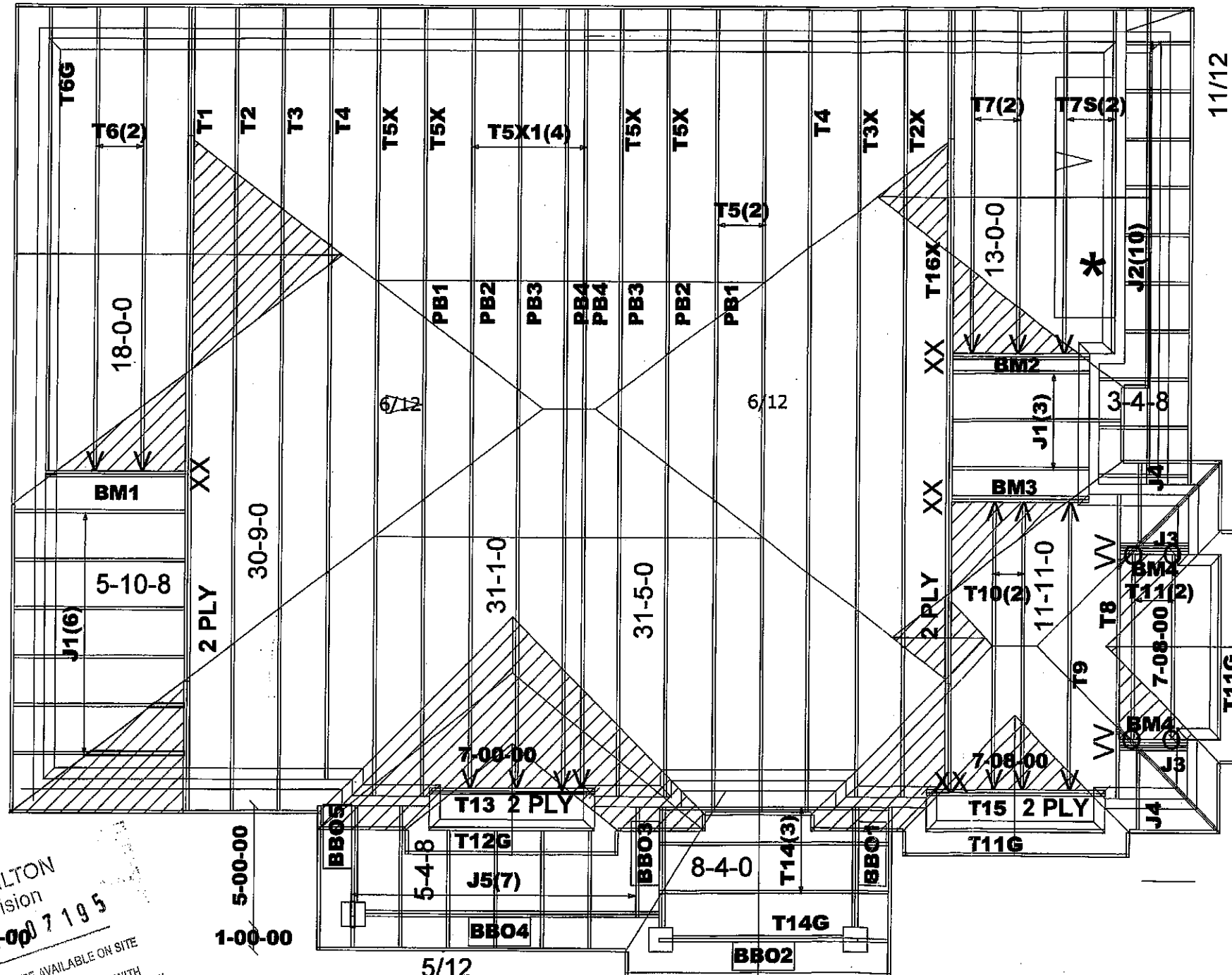
DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

BM1, BM2, BM3, BM4 = 2-2X10

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER TRUSSES
TO BE 2X4SPF @ 24" O.C. WITH A 2X4 VERT. POST TO THE TRUSS
UNDER NEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6"
TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN
END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6"

31-07-00
20-10-00
18-0-0

8-00
1-00-00



13-10-00
18-10-00
5-00-00
2-10-08
7-08-00
2-10-08
1-00-00
6-00-00

CITY OF HAMILTON
Building Division
Permit No. 21-0007195
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
JUL 06 2021
DATE
FOR CHIEF BUILDING OFFICIAL



Job Track: 51225
Plan Log: 202427
Layout ID: 408263

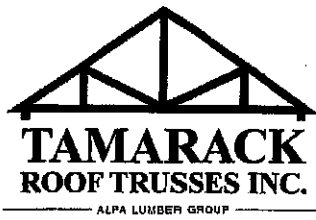
Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: RUSSELL GARDENS PH.3
Date: 2020-04-27 Sales: Mario DiCano Designer: AC/IG

Model / Elevation:
VALLEYCREEK 11/1

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.

Milek ver 8.3.1.215

LOT 287



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 11
 Lot #: 287
 Elevation: 1

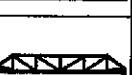
Job Track: 51225
 PlanLog: 202427
 Layout ID: 408263
 Ref #
 Page: 1 of 3
 Date: 04-27-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

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	T1 Hip Girder	8 / 12	30-09-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	279.28 171.33		
	1	T2 Hip	8 / 12	30-09-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	121.17 75.33		
	1	T2X Hip	8 / 12	30-09-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	121.46 75.67		
	1	T3 Hip	8 / 12	30-09-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	134.15 83.67		
	1	T3X Hip	8 / 12	30-09-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	134.53 84.00		
	2	T4 Hip	8 / 12	30-09-00	7-01-04	2 x 4	1-03-08	1-04-13 1-04-13	262.38 165.67		
	2	T5 Hip	8 / 12	30-09-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	278.53 174.00		
	4	T5X Hip	8 / 12	30-09-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	558.21 354.00		
	4	T5X1 Piggyback Base	8 / 12	30-09-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	555.49 349.33		
	2	T6 Common	8 / 12	18-00-00	7-04-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	158.58 100.67		
	1	T6G GABLE	8 / 12	18-00-00	7-04-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	81.47 52.17		
	2	T7 Common	8 / 12	13-00-00	5-08-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	113.51 72.67		
	2	T7S Roof Special	8 / 12	13-00-00	5-08-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	118.15 75.67		
	1	T8 Hip Girder	8 / 12	12-07-00	3-03-13	2 x 4 2 x 6		1-04-13 1-04-13	58.92 38.50		

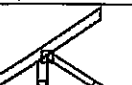
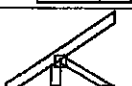
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.3 Location: WATERDOWN Model: VALLEYCREEK 11 Lot #: 287 Elevation: 1	Job Track: 51225 Plan Log: 202427 Layout ID: 408263 Ref #: Page: 2 of 3 Date: 04-27-2020 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	T9 Hip	8 /12	11-11-00	4-07-13	2 x 4		1-07-08 1-07-08	50.05 33.17		
	2	T10 Common	8 /12	11-11-00	5-07-02	2 x 4		1-07-08 1-07-08	92.68 59.67		
	2	T11 Common	8 /12	7-08-00	3-09-03	2 x 4	1-03-08 1-03-08	1-01-08 1-01-08	65.9 44.00		
	2	T11G GABLE	8 /12	7-08-00	3-09-03	2 x 4	1-03-08 1-03-08	1-01-08 1-01-08	60.27 40.00		
	1	T12G GABLE	8 /12	7-00-00	3-06-09	2 x 4	1-03-08 1-03-08	1-01-08 1-01-08	27.92 17.50		
	1 2-ply	T13 Common Girder	8 /12	7-00-00	3-05-08	2 x 4 2 x 6		1-01-08 1-01-08	63.69 40.33		
	3	T14 Common	8 /12	8-04-00	3-11-14	2 x 4	1-03-08 1-03-08	8-05 8-05	98.21 62.50		
	1	T14G GABLE	8 /12	8-04-00	3-11-14	2 x 4	1-03-08 1-03-08	8-05 8-05	30.31 20.17		
	1 2-ply	T15 Common Girder	8 /12	7-08-00	3-08-02	2 x 4 2 x 6		1-01-08 1-01-08	69.34 44.33		
	1 2-ply	T16X Hip Girder	8 /12	31-01-00	4-01-04	2 x 4 2 x 6	1-03-08	1-04-13 1-02-02	277.51 172.00		
	2	PB1 Piggyback	8 /12	10-07-11	1-00-00	2 x 4			47.94 32.33		
	2	PB2 Piggyback	8 /12	10-07-11	2-00-00	2 x 4			59.3 39.67		
	2	PB3 Piggyback	8 /12	10-07-11	3-00-00	2 x 4			60.98 41.00		
	2	PB4 Piggyback	8 /12	10-07-11	3-06-09	2 x 4			54.56 35.00		

 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.3 Location: WATERDOWN Model: VALLEYCREEK 11 Lot #: 287 Elevation: 1	Job Track: 51225 PlanLog: 202427 Layout ID: 408263 Ref #: Page: 3 of 3 Date: 04-27-2020 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
	9	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	151.15 96.00		
	10	J2 Jack-Open	11 /12	3-04-08	4-08-01	2 x 4	1-03-08	5-00 1-08-09	117.35 80.00		
	2	J3 Jack-Open	8 /12	2-10-08	2-08-02	2 x 4	1-03-08	1-04-13 3-03-13	21.21 14.00		
	2	J4 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 1-01	1-04-13 2-08-02	19.15 12.67		
	7	J5 Jack-Open	5 /12	5-04-08	3-01-02	2 x 4	1-03-08	4-01 1-09-15	101.52 65.33		

TOTAL # TRUSS= 82

TOTAL BFT OF ALL TRUSSES= 2822.35

BFT.

TOTAL WEIGHT OF ALL TRSSES 4444.87 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
15	Hardware	LJS26DS	
4	Hardware	LUS24	
2	Hardware	LUS26-2	
3	Hardware	HGUS26-2	

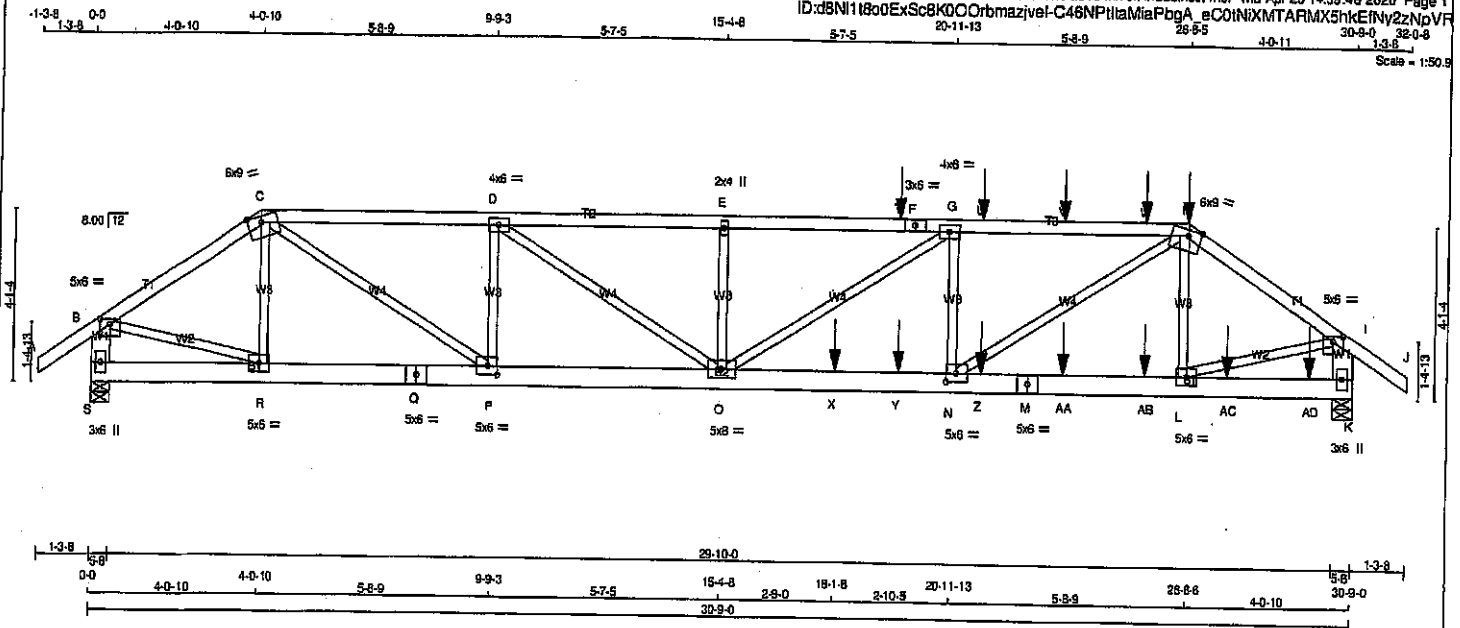
TOTAL NUMBER OF
ITEMS=

24

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T1	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:46 2020 Page 1
ID:8N11800ExSc8K00Orbmazjel-C46NPilaMiaPbgA_eCOINIXMTARMX5hkeINy2zNpVR
20-11-13 5-8-9 26-5-5 4-0-11 30-9-0 32-0-8
Scale = 1:50.8



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - Q	2x6	DRY 1650F 1.5E	SPF
O - M	2x6	DRY 1650F 1.5E	SPF
M - K	2x6	DRY 1650F 1.5E	SPF
ALL WEBS EXCEPT	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-C	12	TOP
C-F	12	SIDE(0.0)
F-H	12	SIDE(61.0)
H-J	12	SIDE(61.0)
S-B	12	TOP
K-I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-Q	12	TOP
Q-M	12	SIDE(0.0)
M-K	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 PLYS 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		REQRD BRG	
JT	VERT	JT	HORZ	JT	HORZ	JT	UPLIFT	JT	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	JT	COMBINED
S	1836	1234 / 0	0 / 0
K	2400	1605 / 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)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 35	-91.8	-91.8 0.07 (1)	R-C	-431 / 0
B-C	-3017 / 0	-91.8	-91.8 0.19 (1)	C-P	0 / 3123
C-D	-5112 / 0	-91.8	-91.8 0.40 (1)	P-D	-1778 / 0
D-E	-8908 / 0	-91.8	-91.8 0.52 (1)	D-O	0 / 2154
E-T	-6906 / 0	-91.8	-91.8 0.66 (1)	O-E	-461 / 0
T-F	-8906 / 0	-91.8	-91.8 0.66 (1)	O-G	0 / 427
F-G	-8906 / 0	-91.8	-91.8 0.66 (1)	G-N	-1129 / 0
G-U	-8950 / 0	-91.8	-91.8 0.64 (1)	N-H	0 / 3886
U-V	-8950 / 0	-91.8	-91.8 0.64 (1)	H-R	-765 / 0
V-W	-8950 / 0	-91.8	-91.8 0.64 (1)	R-B	0 / 2577
W-H	-8950 / 0	-91.8	-91.8 0.64 (1)	B-L	0 / 3399
H-I	-3978 / 0	-91.8	-91.8 0.22 (1)		
I-J	0 / 35	-91.8	-91.8 0.07 (1)		
S-B	-2592 / 0	0.0	0.0 0.09 (1)		
K-I	-3320 / 0	0.0	0.0 0.12 (1)		

S-R	0 / 0	-18.5	-18.5 0.03 (1)	10.00
R-Q	0 / 2494	-18.5	-18.5 0.15 (1)	10.00
Q-P	0 / 2494	-18.5	-18.5 0.15 (1)	10.00
P-O	0 / 5112	-18.5	-18.5 0.34 (1)	10.00
O-X	0 / 6550	-18.5	-18.5 0.67 (1)	10.00
X-Y	0 / 6550	-18.5	-18.5 0.67 (1)	10.00
Y-N	0 / 6550	-18.5	-18.5 0.67 (1)	10.00
N-Z	0 / 3284	-18.5	-18.5 0.27 (1)	10.00
Z-M	0 / 3284	-18.5	-18.5 0.27 (1)	10.00
M-AA	0 / 3284	-18.5	-18.5 0.27 (1)	10.00
AA-AB	0 / 3284	-18.5	-18.5 0.27 (1)	10.00
AB-L	0 / 3284	-18.5	-18.5 0.27 (1)	10.00
L-AC	0 / 0	-18.5	-18.5 0.03 (1)	10.00
AC-AD	0 / 0	-18.5	-18.5 0.03 (1)	10.00
AD-K	0 / 0	-18.5	-18.5 0.03 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)

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

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % 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 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/970 (0.38")

CSI: TC=0.66/1.00 (E-G:1), BC=0.67/1.00 (N-O:1), WB=0.48/1.00 (H-N:1), SS=0.28/1.00 (A-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

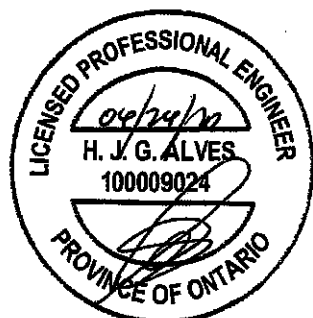
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.85 (R) (INPUT = 0.50)
JSI METAL=0.41 (R) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2006760

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T1	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Metek Industries, Inc. Thu Apr 23 14:59:46 2020 Page 2
ID:d8N11t8o0ExSc8K00Orbmazive-C46NP11aMiaPbqA eC0tNIXMTAPMXShKEfNv2zNpVF

PLATES (table is in inches)

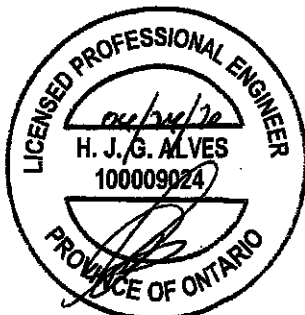
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TTWW-m	MT20	6.0	9.0	1.75	4.00
D	TMVW-t	MT20	4.0	6.0		
E	TMVW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	6.0		
H	TTWW-m	MT20	6.0	9.0	1.75	4.00
I	TMVW-p	MT20	5.0	6.0	1.50	3.00
K	BMV1-p	MT20	3.0	6.0		
L	BMVW-t	MT20	5.0	6.0		
M	BS-t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

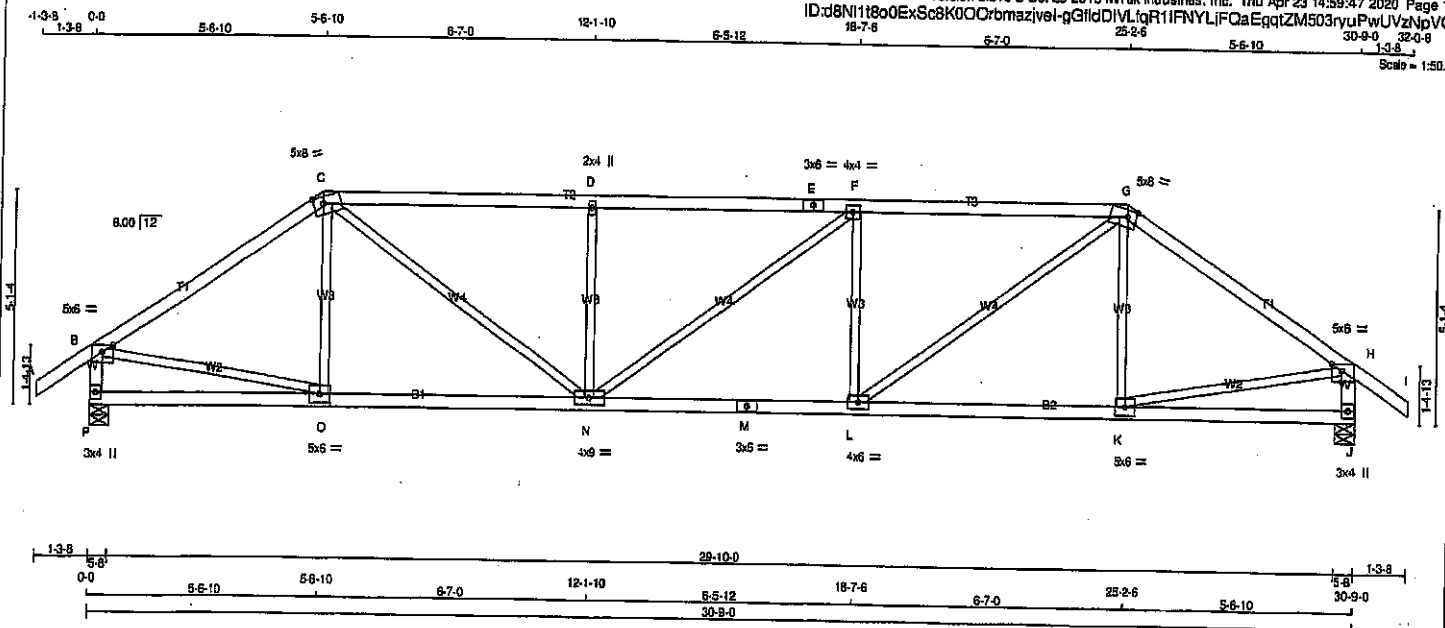


Structural component only
DWG# T-2006760 32

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408263	T2	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTak Industries, Inc. Thu Apr 23 14:59:47 2020 Page 1
ID: d8N118o0ExSc8K00Crbmazjvel-g3lfdIVLgr1IFNYLlFOaEqqIZM503ryuPwUVz4pVQ



LUMBER

N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - K	2x4	DRY	No.2	SPF
K - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge	
C TTWW-m	MT20	5.0	8.0	2.00	2.75
D TMVW-w	MT20	2.0	4.0		
E TS-l	MT20	3.0	6.0		
F TMVW-l	MT20	4.0	4.0		
G TTWW-m	MT20	5.0	8.0	2.00	2.75
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	6.0		
M BS-l	MT20	3.0	6.0		
N BMVWVW-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		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG	IN-SX	IN-SX	IN-SX	IN-SX
P	1821	0	1821	0	0	5-8	5-8	5-8	5-8
J	1821	0	1821	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	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) 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 (LBS)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO		FROM TO	LENGTH FR-TO	FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	O-C	-184 / 33	0.07 (1)
B-C	-1958 / 0	-91.8 -91.8	0.65 (1)	4.08	C-N	0 / 1302	0.29 (1)
C-D	-2875 / 0	-91.8 -91.8	0.80 (1)	3.43	N-D	-850 / 0	0.25 (1)
D-E	-2878 / 0	-91.8 -91.8	0.80 (1)	3.42	D-F	-2 / 0	0.00 (1)
E-F	-2878 / 0	-91.8 -91.8	0.80 (1)	3.42	F-G	-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)	4.08	K-G	-185 / 33	0.07 (1)
H-I	0 / 35	-91.8 -91.8	0.12 (1)	10.00	B-O	0 / 1857	0.37 (1)
P-B	-1780 / 0	0.0 0.0	0.18 (1)	6.28	K-H	0 / 1656	0.37 (1)
J-H	-1780 / 0	0.0 0.0	0.18 (1)	6.28			
P-O	0 / 0	-18.5 -18.5	0.18 (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	0.18 (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, 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 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (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)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

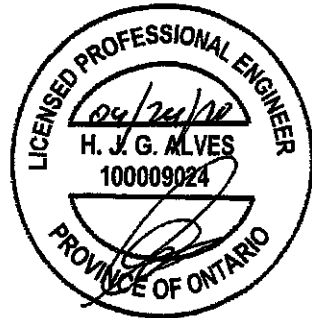
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	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 (G) (INPUT = 0.90)
JSI METAL= 0.87 (M) (INPUT = 1.00)

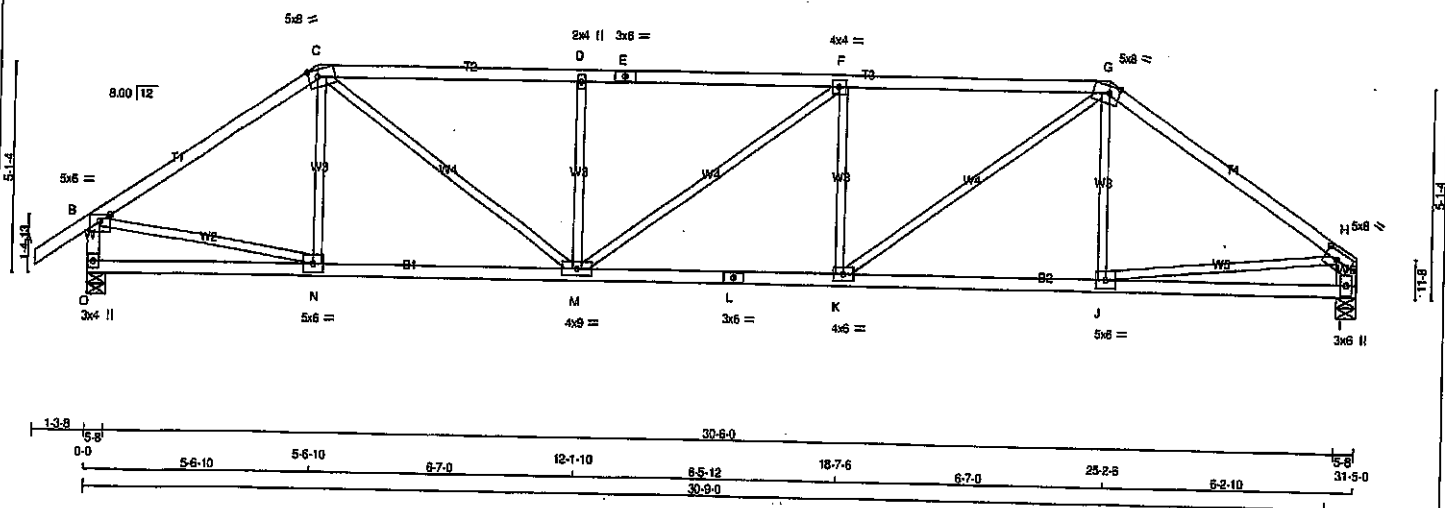


Structural component only
DWG# T-2006761

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408263	T2X	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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ID: d8N118o0ExSc8KGOOrbmazjval-8TD8qZJ76zyIfvqZ63EuzonrKHuOqSw_BY9T0xzNpVP
18-7-8 25-2-6 5-6-10 30-3-0 32-4-8
Scale = 1:31.7



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
O - B	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - I	2x4	DRY	No.2

ALL WEBS	2x3	DRY	No.2
EXCEPT			
I - H	2x6	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (Table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW-p	MT20	5.0	6.0	Edge	2.75
D TMW-m	MT20	5.0	8.0	2.00	2.75
D TMW-w	MT20	2.0	4.0		
E TS-t	MT20	3.0	6.0		
F TMW-w	MT20	4.0	4.0		
G TMW-m	MT20	5.0	8.0	2.00	3.00
H TMW-t	MT20	5.0	8.0	2.50	3.75
I BMW-t	MT20	3.0	6.0		
J BMW-t	MT20	5.0	6.0		
K BMW-t	MT20	4.0	6.0		
L BS-t	MT20	3.0	6.0		
M BMW-w	MT20	4.0	9.0		
N BMW-t	MT20	5.0	6.0		
O 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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UP
O	1845	0	1845	0
I	1719	0	1719	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
O	1303	258 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0
I	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	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LCI	MAX	MAX.	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LCI	MAX	MAX.
		(LBS)	(PLF)	(LBS)	(LBS)	(LBS)	(LBS)		(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
FR-TO								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	-2738 / 0	-91.8	-91.8	0.81	(1)	3.38	M-D	-650 / 0	0.25	(1)				
D-E	-2738 / 0	-91.8	-91.8	0.81	(1)	3.38	M-F	-42 / 0	0.06	(1)				
E-F	-2738 / 0	-91.8	-91.8	0.81	(1)	3.38	K-F	-626 / 0	0.24	(1)				
F-G	-2770 / 0	-91.8	-91.8	0.83	(1)	3.35	K-G	0 / 1261	0.28	(1)				
G-H	-2109 / 0	-91.8	-91.8	0.81	(1)	3.77	J-G	-98 / 68	0.04	(1)				
O-B	-1804 / 0	0.0	0.0	0.19	(1)	6.23	B-N	0 / 1685	0.38	(1)				
							J-H	0 / 1767	0.40	(1)				
							H-H	-1674 / 0	0.11	(1)				
O-N	0 / 0	-18.5	-18.5	0.16	(4)	10.00								
N-M	0 / 1651	-18.5	-18.5	0.35	(1)	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								

TOTAL WEIGHT = 121 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

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 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) = $L/360$ (1.04")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.14")
ALLOWABLE DEFL.(TL) = $L/360$ (1.04")
CALCULATED VERT. DEFL.(TL) = $L/899$ (0.28")

CSI: TC=0.89/1.00 (F-G:1), SC=0.51/1.00 (K-M:1),
WS=0.40/1.00 (H-J: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)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX	MIN	MAX
MT20	618	354
	1667	788
	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.90 (L) (INPUT = 1.00)

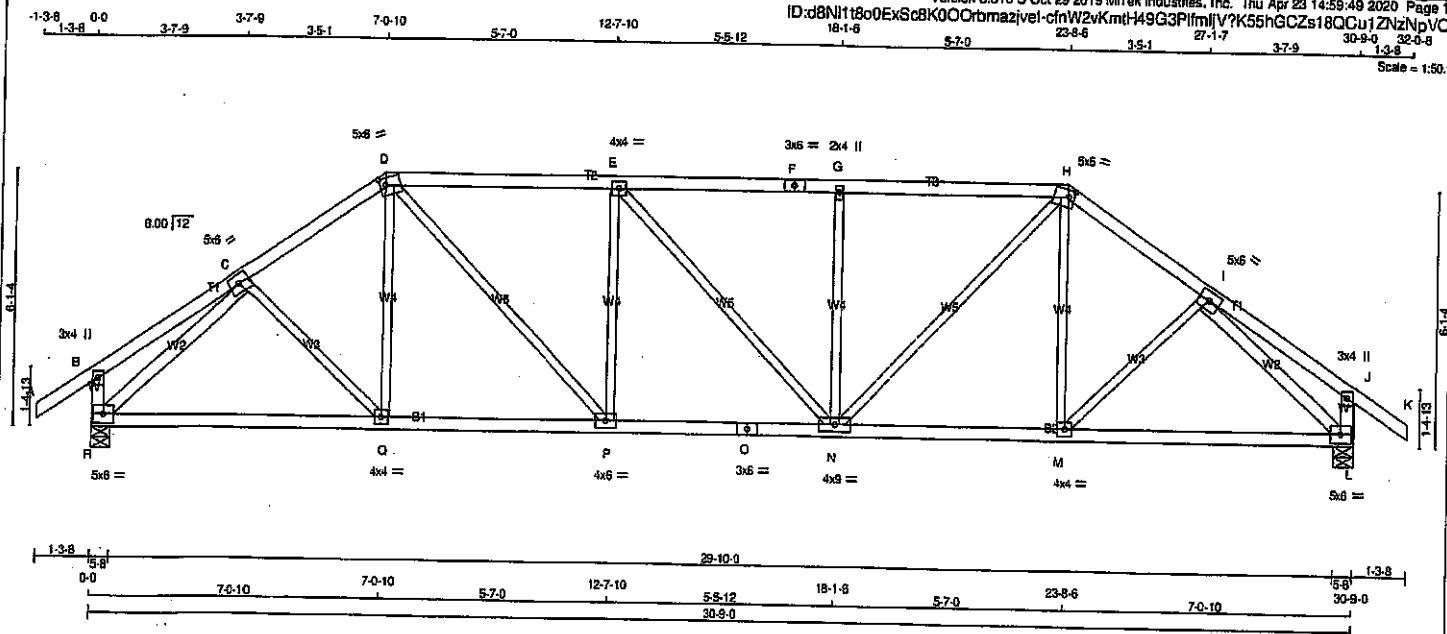


Structural component only
DWG# T-2006762

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408263	T3	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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ID: d8N1t8o0ExSc8K00Crbmazjel-cfnW2vKmtH49G3PflmIV7K55hGCZs18QCu1ZNzNpVO
30-9-0 32-0-8 1-3-8
Scale = 1:50.9



LUMBER			
N. L. G. A. RULES	SIZE	DRY	NO. 2
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

LUMBER			
ALL WEBS	SIZE	DRY	NO. 2
EXCEPT			
R - O	2x4	DRY	No. 2
I - L	2x4	DRY	No. 2

DRY: SEASONED LUMBER.

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMV+P	MT20	3.0	4.0	
C	TMVW+T	MT20	5.0	8.0	
D	TTVW+T	MT20	5.0	8.0	2.00 1.75
E	TS+I	MT20	4.0	4.0	
F	TMVW+T	MT20	3.0	8.0	
G	TMVW+T	MT20	2.0	4.0	
H	TTVW+T	MT20	5.0	8.0	2.00 1.75
I	TMVW+T	MT20	5.0	8.0	
J	TMV+P	MT20	3.0	4.0	
L	BMVW+T	MT20	5.0	8.0	
M	BMVW+T	MT20	4.0	4.0	
N	BMVW+T	MT20	4.0	4.0	
O	SS+T	MT20	3.0	6.0	
P	BMVW+T	MT20	4.0	4.0	
Q	BMVW+T	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		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
R	1821	0	1821	0	0	5-8	5-8		
L	1821	0	1821	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST LCASE		MAX MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND
R	1285	857 / 0	0 / 0	0 / 0	0 / 0
L	1285	857 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.06 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		MEMB.		FACTORED		VERT. LOAD		LC1		MAX.		UNBRAC		MEMB.		MAX. FACTORED	
FORCE		MEMB.		VERT. LOAD		LC1		MAX.		UNBRAC		MEMB.		MAX. FACTORED			
(LBS)		(LBS)		(LBS)		(LBS)		(LBS)		(LBS)		(LBS)		(LBS)			
FROM		TO		FROM		TO		FROM		TO		FROM		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	C-Q	0 / 108	0.04 (4)									
C-D	-1949 / 0	-91.8	-91.8	0.22 (1)	4.62	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	0.00 (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-N	0 / 889	0.20 (1)									
H-I	-1950 / 0	-91.8	-91.8	0.22 (1)	4.62	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	0.60 (1)									
R-B	-253 / 0	0.0	0.0	0.03 (1)	7.81	I-L	-2170 / 0	0.60 (1)									
L-J	-253 / 0	0.0	0.0	0.03 (1)	7.81												
R-Q	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												

TOTAL WEIGHT = 134 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 ECBC 2018, CBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- 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 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.50/1.00 (D-E-1), BC=0.41/1.00 (N-P-1),
WB=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 1657 788 1887 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (1) (INPUT = 0.90)
JSI METAL= 0.73 (2) (INPUT = 1.00)

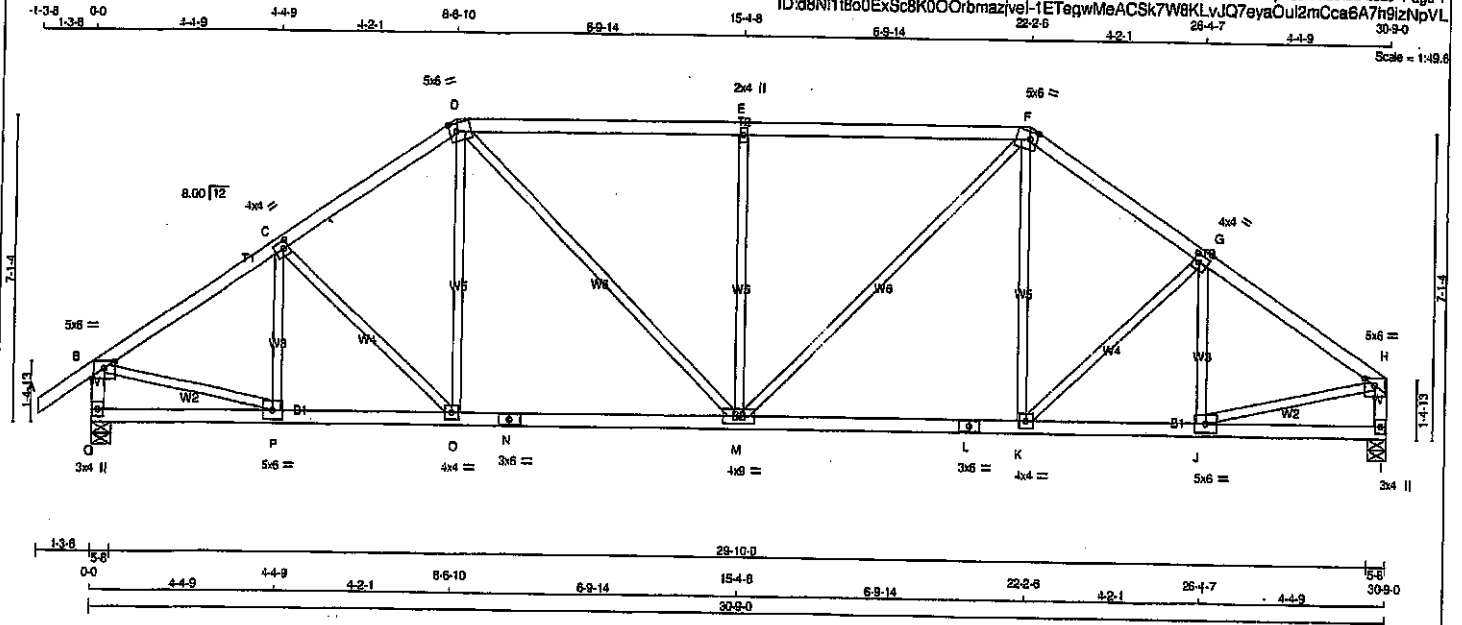


Structural component only
DWG# T-2006763

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408263	T4	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID: d8N118o0ExSc8K00Orbmazvel-1ETegwMeACSk7W8KLvJQ7eyaOul2mCca6A7h9izNpVL



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
H - J	2x4	DRY No.2
J - L	2x4	DRY No.2
L - N	2x4	DRY No.2
N - P	2x4	DRY No.2
P - R	2x4	DRY No.2
R - T	2x4	DRY No.2
T - V	2x4	DRY No.2
V - W	2x4	DRY No.2
W - Y	2x4	DRY No.2
Y - Z	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
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-t	MT20	3.0	6.0		
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	5.0	6.0		
Q BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
Q	1821	0	0	5-8
I	1695	0	0	5-8

UNFACTORED REACTIONS

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

CHORDS	WEBS
MEMB.	MEMB.
MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FR-TO
A-B	0 / 35
B-C	-1950 / 0
C-D	-1886 / 0
D-E	-1999 / 0
E-F	-1999 / 0
F-G	-1886 / 0
G-H	-1950 / 0
H-I	-1783 / 0
I-H	-1657 / 0
Q-P	0 / 0
P-O	0 / 1643
O-N	0 / 1549
N-M	0 / 1549
M-L	0 / 1549
L-K	0 / 1549
K-J	0 / 1643
J-I	0 / 0

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=0.63/1.00 (D-E:1), EC=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 (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1657 788 1587 1658

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)

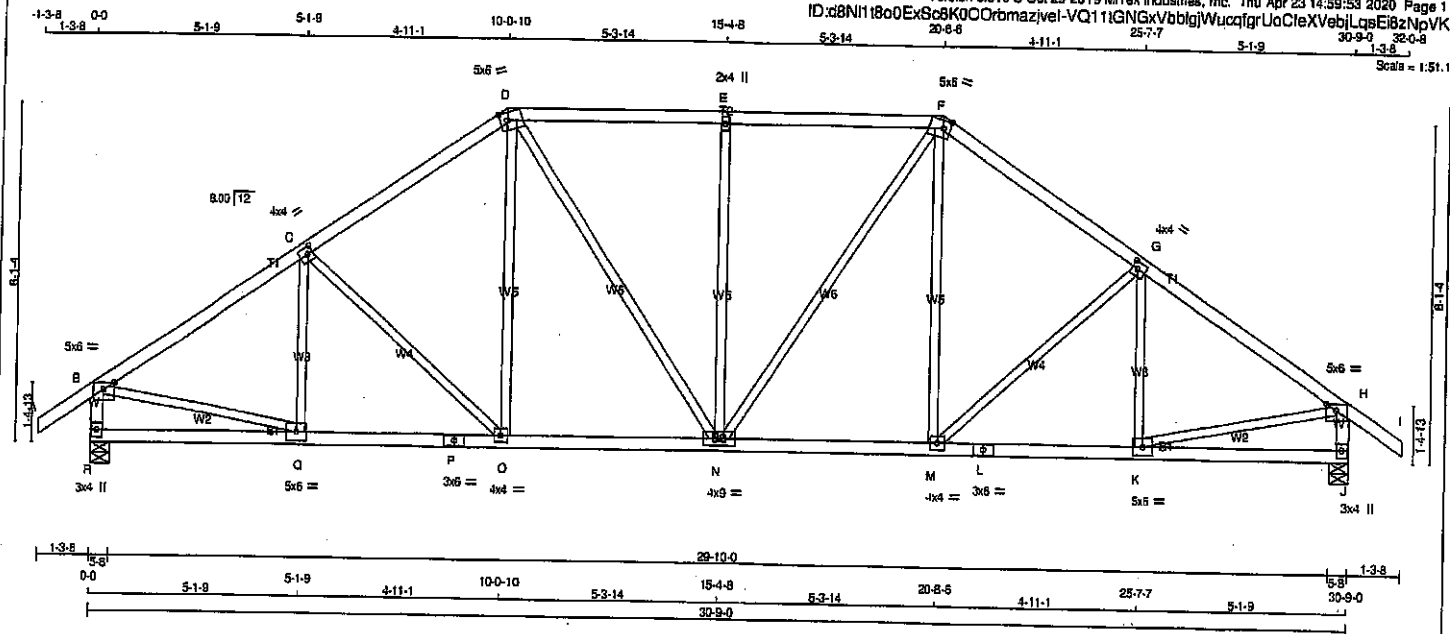


Structural component only
DWG# T-2006765

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408263	T5	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:08N11800ExSc8K0COrbmazjel-VQ111GNGxVbblgJWucqIgrUoCteXVebjLqsEib2NpVK
20-6-6 25-7-7 30-9-0 32-0-8
Scale = 1:51.1



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
I - B	2x4	DRY	No.2
B - H	2x4	DRY	No.2
H - 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 (tablets 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
J	BMV1-p	MT20	3.0	4.0	
K	BMVW-t	MT20	5.0	6.0	
L	BS-t	MT20	3.0	6.0	
M	BMVW-t	MT20	4.0	4.0	
N	BMVW-t	MT20	4.0	4.0	
O	BMVW-t	MT20	4.0	4.0	
P	BS-t	MT20	3.0	6.0	
Q	BMVW-t	MT20	5.0	6.0	
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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
R	1821 0	1821 0	5-8	5-8
J	1821 0	1821 0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
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 = 4.46 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)
PR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	Q-C	-254 / 0	0.09 (1)
B-C	-1887 / 0	-91.8	-91.8 0.36 (1)	4.46	C-D	-275 / 0	0.23 (1)
C-D	-1804 / 0	-91.8	-91.8 0.34 (1)	4.64	D-E	0 / 281	0.08 (1)
D-E	-1712 / 0	-91.8	-91.8 0.37 (1)	4.69	E-F	0 / 418	0.09 (1)
E-F	-1712 / 0	-91.8	-91.8 0.37 (1)	4.69	F-G	-595 / 0	0.75 (1)
F-G	-1804 / 0	-91.8	-91.8 0.34 (1)	4.64	G-H	0 / 418	0.09 (1)
G-H	-1987 / 0	-91.8	-91.8 0.38 (1)	4.46	H-I	0 / 281	0.08 (1)
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	I-J	-275 / 0	0.23 (1)
I-J	-1780 / 0	0.0	0.0 0.16 (1)	6.28	J-K	-254 / 0	0.09 (1)
J-K	-1780 / 0	0.0	0.0 0.16 (1)	6.28	K-L	0 / 1715	0.39 (1)
K-L	0 / 0	-18.5	-18.5 0.10 (4)	10.00	L-M	0 / 1715	0.39 (1)
L-M	0 / 1678	-18.5	-18.5 0.32 (1)	10.00	M-N	0 / 1678	0.32 (1)
M-N	0 / 1678	-18.5	-18.5 0.32 (1)	10.00	N-O	0 / 1477	-18.5 0.29 (1)
N-O	0 / 1477	-18.5	-18.5 0.29 (1)	10.00	O-P	0 / 1477	-18.5 0.29 (1)
O-P	0 / 1477	-18.5	-18.5 0.29 (1)	10.00	P-Q	0 / 1678	-18.5 0.32 (1)
P-Q	0 / 1678	-18.5	-18.5 0.32 (1)	10.00	Q-R	0 / 1678	-18.5 0.32 (1)
Q-R	0 / 0	-18.5	-18.5 0.10 (4)	10.00	R-S	0 / 0	-18.5 0.10 (4)

TOTAL WEIGHT = 2 X 139 = 279 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOR. 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, NBC 2010, NBC 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/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.

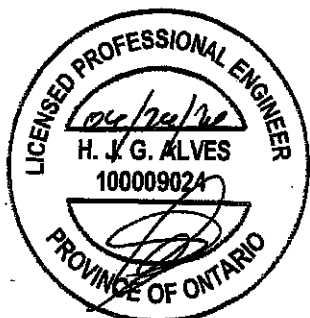
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1887 788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (B) (INPUT = 0.90)
JSI METAL = 0.49 (P) (INPUT = 1.00)

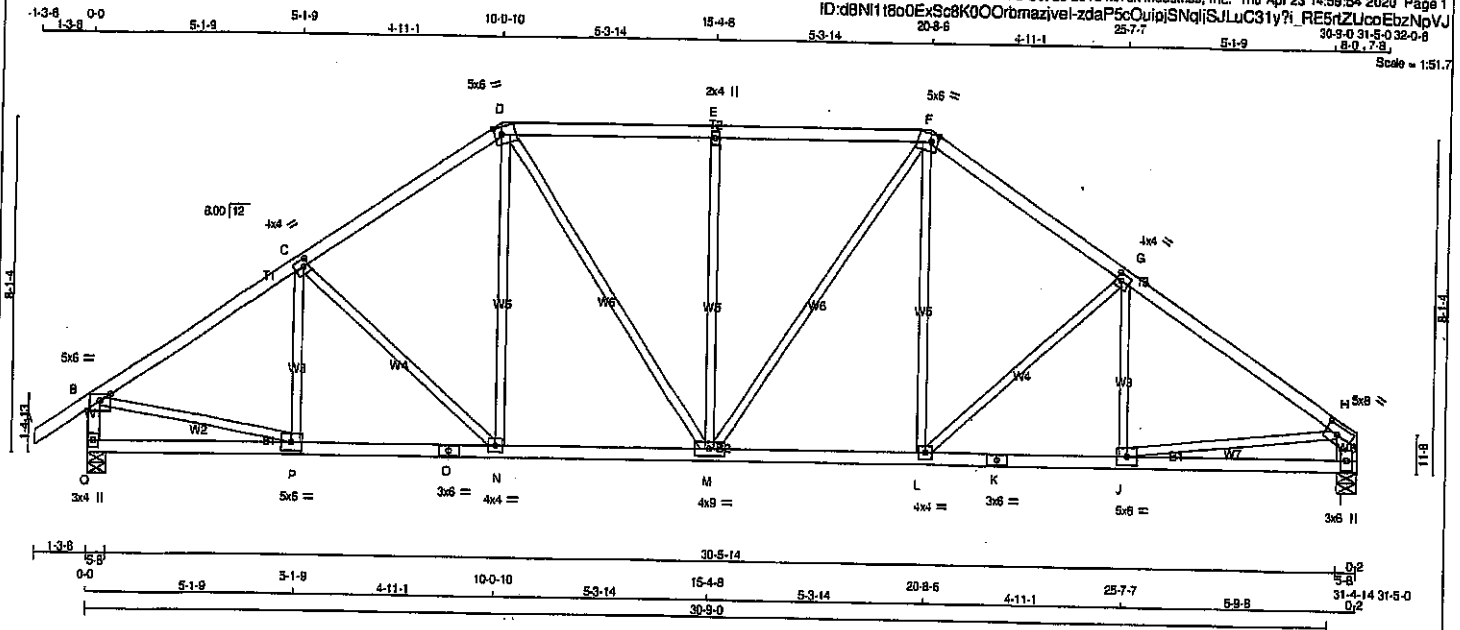


Structural component only
DWG# T-2006766

JOB NAME 408263	TRUSS NAME T5X	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:BN11800ExSc8K00Orbmazjel-zdaP5cOuipjSNqjISJLwC31y?i_RE5tZUcoEbZNPVJ
20-8-6 30-9-0 31-5-0 32-0-8
8-0 1-7-8
Scale = 1:51.7



LUMBER				DESIGN CRITERIA			
N. L. G. A. RULES				TOTAL WEIGHT = 4 X 140 = 558 LB			
CHORDS	SIZE	DRY	Lumber	SPECIFIED LOADS:			
A - D	2x4	DRY	No.2	TOP CH. LL = 25.6 PSF			
D - F	2x4	DRY	No.2	DL = 6.0 PSF			
F - H	2x4	DRY	No.2	BOT CH. LL = 0.0 PSF			
O - B	2x4	DRY	No.2	DL = 7.4 PSF			
O - O	2x4	DRY	No.2	TOTAL LOAD = 39.0 PSF			
O - K	2x4	DRY	No.2	SPACING = 24.0 IN. C/C			
K - I	2x4	DRY	No.2	LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
ALL WEBS	2x3	DRY	No.2	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015			
EXCEPT				THIS DESIGN COMPLIES WITH:			
I - H	2x6	DRY	No.2	- PART 9 OF BCBC 2018, OBC 2012, ABC 2019			
DRY: SEASONED LUMBER.				- 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			

PLATES (table is 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 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 TMWW-t	MT20	4.0	4.0	2.00	1.50
H TMWW-t	MT20	5.0	6.0	2.50	3.75
I BMVW-t	MT20	3.0	8.0		
J BMVW-t	MT20	5.0	6.0		
K BS-t	MT20	3.0	6.0		
L BMVW-t	MT20	4.0	4.0		
M BMVWW-t	MT20	4.0	9.0		
N BMVWW-t	MT20	4.0	4.0		
O BS-t	MT20	3.0	6.0		
P BMVW-t	MT20	5.0	6.0		
Q 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							
<u>BEARINGS</u>							
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Q	1845	0	1845	0	0	5-8	5-8
I	1719	0	1719	0	0	5-8	5-8
<u>UNFACTORED REACTIONS</u>							
	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1303	888 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0
I	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) Q, I
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.24 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	FACTORED	VERT. LOAD LC1	MAX	MAX.	MEMB.	MAX. FACTORED	MAX	
FR-TO	FORCE (LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH FR-TO	FORCE (LBS)	MAX	CSI (LC)	
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-C	-280 / 0	0.08 (1)	
B-C	-2020 / 0	-91.8	-91.8	0.36 (1)	4.43	C-N	-270 / 0	0.23 (1)	
C-D	-1841 / 0	-91.8	-91.8	0.34 (1)	4.61	N-D	0 / 277	0.06 (1)	
D-E	-1760 / 0	-91.8	-91.8	0.37 (1)	4.84	D-M	0 / 447	0.10 (1)	
E-F	-1760 / 0	-91.8	-91.8	0.37 (1)	4.84	M-E	-595 / 0	0.75 (1)	
F-G	-1882 / 0	-91.8	-91.8	0.36 (1)	4.52	M-F	0 / 389	0.09 (1)	
G-H	-2160 / 0	-91.8	-91.8	0.43 (1)	4.24	L-F	0 / 352	0.08 (1)	
H-I	-1604 / 0	0.0	0.0	0.19 (1)	6.23	L-G	-384 / 0	0.32 (1)	
						J-G	-154 / 36	0.05 (1)	
Q-P	0 / 0	-18.5	-18.5	0.10 (4)	10.00	B-P	0 / 1743	0.38 (1)	
P-D	0 / 1705	-18.5	-18.5	0.33 (1)	10.00	J-H	0 / 1840	0.41 (1)	
O-N	0 / 1705	-18.5	-18.5	0.33 (1)	10.00	I-H	-1674 / 0	0.11 (1)	
N-M	0 / 1509	-18.5	-18.5	0.30 (1)	10.00				
M-L	0 / 1541	-18.5	-18.5	0.30 (1)	10.00				
L-K	0 / 1822	-18.5	-18.5	0.34 (1)	10.00				
K-J	0 / 1822	-18.5	-18.5	0.34 (1)	10.00				
J-I	0 / 0	-18.5	-18.5	0.12 (4)	10.00				



Structural component only
DWG# T-2006767

ALLOWABLE DEFL.(LL) = L/360 (1.04")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.04")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")
CSI: TC=0.48/1.00 (G-H:1) , BC=0.34/1.00 (J-L:1) ,
WB=0.75/1.00 (E-M: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
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 1667 788 1937 1656
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)

JOB NAME 408263	TRUSS NAME T5X1	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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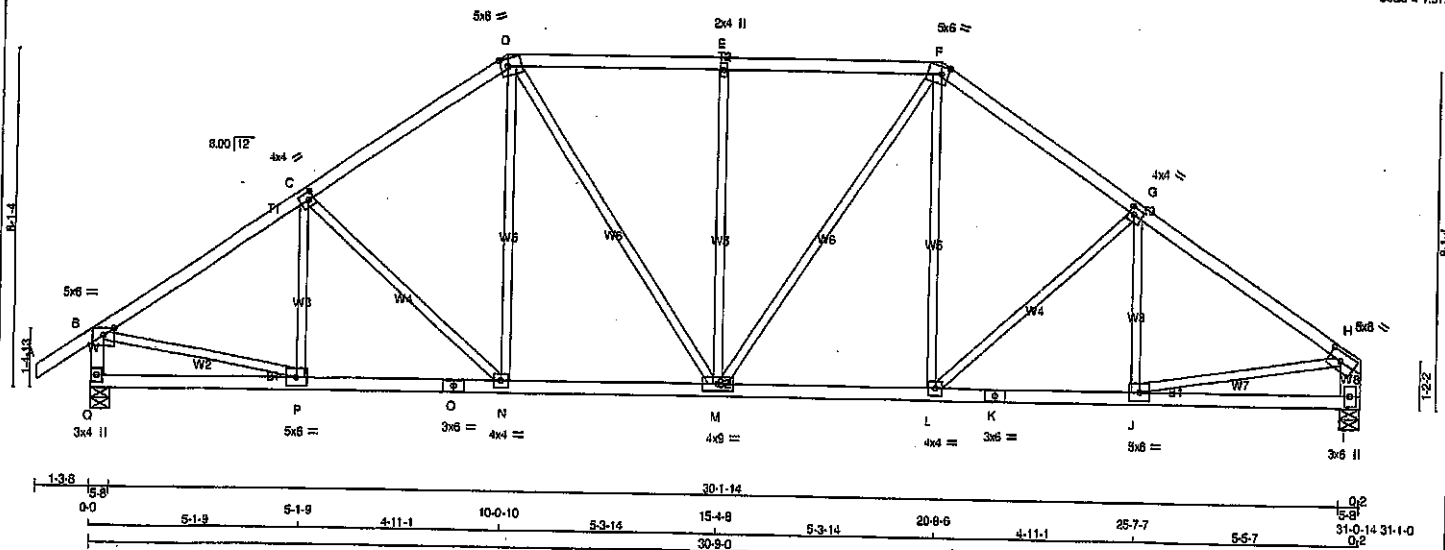
Tamareck Roof Truss, Burlington

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ID:d8N118o0ExSc8K00Crbmazvel-Rp8nlyPWT7rJ_tv01s7IGa8c6KwzY50c8LLm1zNpVl

1-3-8 0-0 5-1-9 5-1-9 4-11-1 10-0-10 5-3-14 15-4-8 5-3-14 20-8-6 4-11-1 25-7-7 5-1-9 30-9-0 31-1-0 32-0-8 8-8 11-8

Scale = 1/51.2



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

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-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-t	MT20	5.0	6.0 2.50 3.75
I	BMVW-t	MT20	3.0	6.0
J	BMVW-t	MT20	5.0	6.0
K	BS-t	MT20	3.0	6.0
L	BMVW-t	MT20	4.0	4.0
M	BMVW-t	MT20	4.0	9.0
N	BMVW-t	MT20	4.0	4.0
O	BS-t	MT20	3.0	6.0
P	BMVW-t	MT20	5.0	6.0
Q	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		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	IN-SX
Q	1827	0	0	1827	0	0	5-8	5-8	5-8
I	1701	0	0	1701	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
Q	1260	880 / 0	0 / 0	0 / 0	0 / 0
I	1203	783 / 0	0 / 0	0 / 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 = 4.40 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.		FACTORED		VERT. LOAD		MAX		UNBRAC		MEMB.		FACTORED		MAX	
FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)	FR-TO	MAX. FORCE (LBS)
A-B	0 / 35	A-B	0 / 35	A-B	0 / 35	A-B	0 / 35	A-B	0 / 35	A-B	0 / 35	A-B	0 / 35	A-B	0 / 35	A-B	0 / 35
B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0	B-C	-1995 / 0
C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0	C-D	-1813 / 0
D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0	D-E	-1723 / 0
E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0	E-F	-1723 / 0
F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0	F-G	-1822 / 0
G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0	G-H	-2028 / 0
H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0	H-I	-1786 / 0
I-J	0 / 0	I-J	0 / 0	I-J	0 / 0	I-J	0 / 0	I-J	0 / 0	I-J	0 / 0	I-J	0 / 0	I-J	0 / 0	I-J	0 / 0
J-K	0 / 0	J-K	0 / 0	J-K	0 / 0	J-K	0 / 0	J-K	0 / 0	J-K	0 / 0	J-K	0 / 0	J-K	0 / 0	J-K	0 / 0
K-L	0 / 0	K-L	0 / 0	K-L	0 / 0	K-L	0 / 0	K-L	0 / 0	K-L	0 / 0	K-L	0 / 0	K-L	0 / 0	K-L	0 / 0
L-M	0 / 0	L-M	0 / 0	L-M	0 / 0	L-M	0 / 0	L-M	0 / 0	L-M	0 / 0	L-M	0 / 0	L-M	0 / 0	L-M	0 / 0
M-N	0 / 0	M-N	0 / 0	M-N	0 / 0	M-N	0 / 0	M-N	0 / 0	M-N	0 / 0	M-N	0 / 0	M-N	0 / 0	M-N	0 / 0
N-O	0 / 0	N-O	0 / 0	N-O	0 / 0	N-O	0 / 0	N-O	0 / 0	N-O	0 / 0	N-O	0 / 0	N-O	0 / 0	N-O	0 / 0
O-P	0 / 0	O-P	0 / 0	O-P	0 / 0	O-P	0 / 0	O-P	0 / 0	O-P	0 / 0	O-P	0 / 0	O-P	0 / 0	O-P	0 / 0
P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0	P-Q	0 / 0
Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0	Q-R	0 / 0

TOTAL WEIGHT = 4 X 139 = 555 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

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, 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 9.4 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 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.37/1.00 (G-H:1), BC=0.33/1.00 (J-L:1), WB=0.75/1.00 (E-M: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 LEFT HEEL ONLY

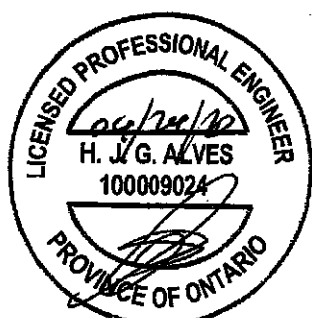
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (FLL) (FLL)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1667 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

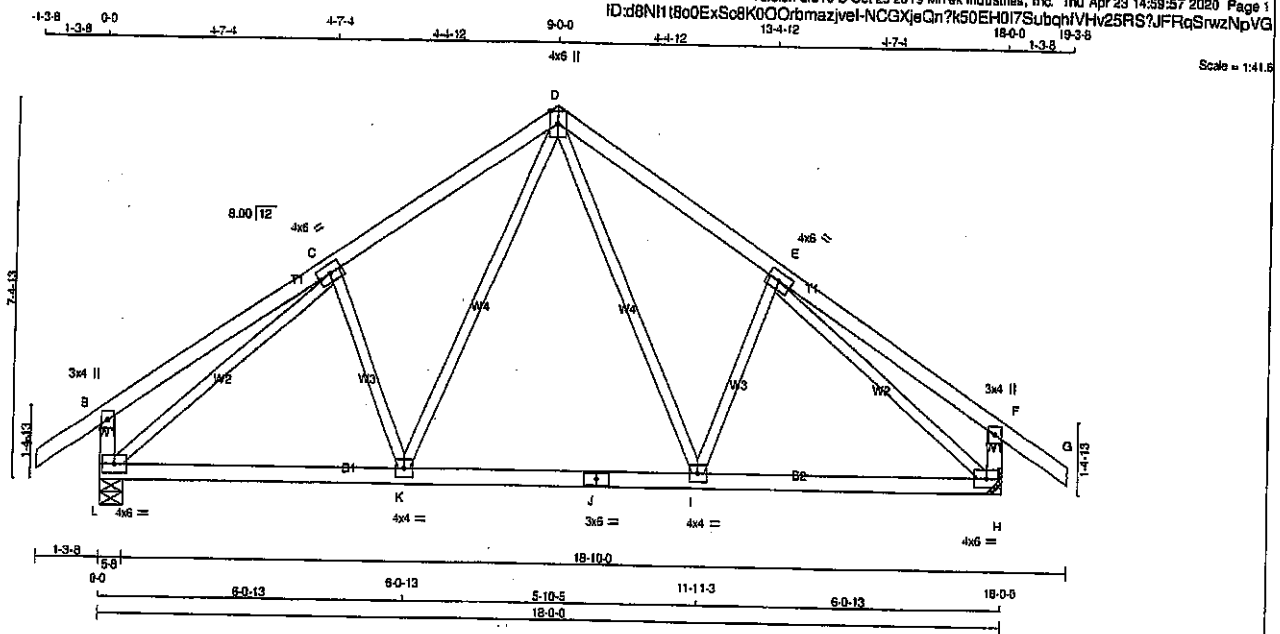
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (B) (INPUT = 0.90)
JSI METAL=0.52 (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	DRY	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		
EXCEPT						

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMV+p MT20	3.0	4.0		
C TMWW-1 MT20	4.0	8.0		
D TTWW+p MT20	4.0	8.0	Edge	
E TMWW-1 MT20	4.0	8.0		
F TMV+p MT20	3.0	4.0		
H BMVW1-1 MT20	4.0	8.0		
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 BMVW1-1 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	DOWN	DOWN	DOWN
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

1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
L	788 531 / 0 0 / 0 0 / 0 0 / 0 258 / 0 0 / 0
H	788 531 / 0 0 / 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	MEMB.	FORCE (LBS)	FACTORED	MAX. FACTORED	WEBS	MEMB.	FORCE (LBS)	MAX. FACTORED
			VERT. LOAD (PLF)	MAX. (LC)				MAX. (LC)
FR-TO			FROM TO	UNBRAC LENGTH	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	0.08 (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 (MIF)

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	= 38.0 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 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 (0.60")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.60")
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

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.

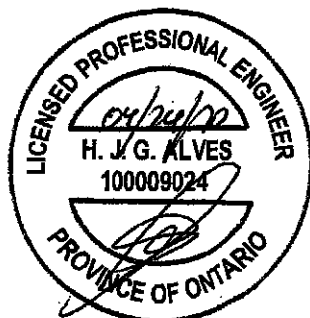
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(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.

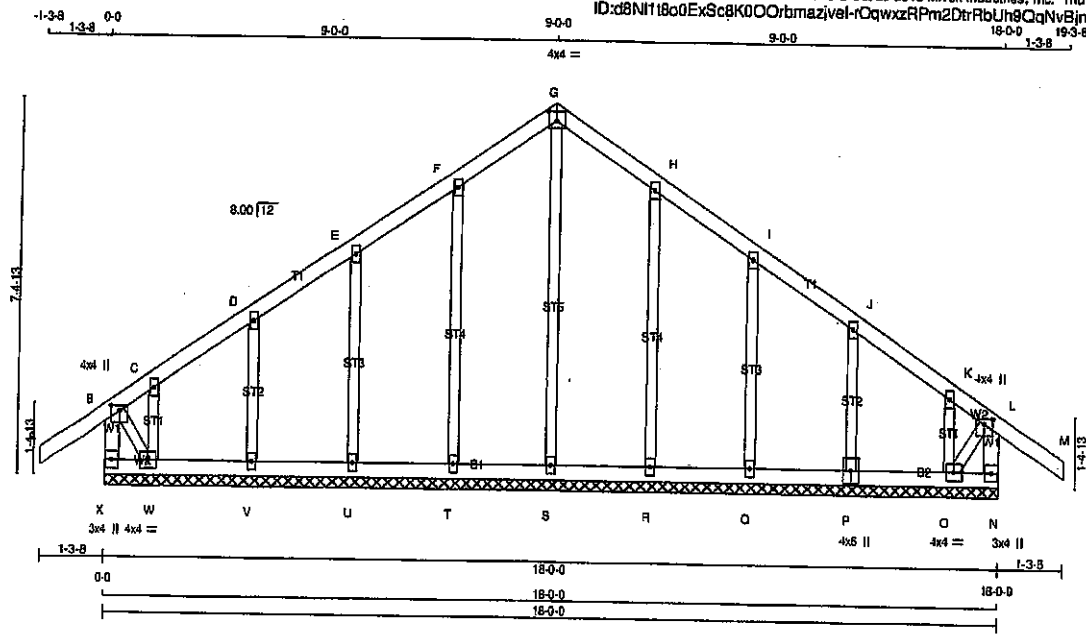
JSI GRIP= 0.82 (E) (INPUT = 0.90)
JSI METAL= 0.30 (C) (INPUT = 1.00)



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				TRUSS DESC.	

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Scale = 1/42.0

LUMBER

N. L. G. A. RULES

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

PLATES (tablets 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 TMW-w	MT20	2.0	4.0		
G TTW-p	MT20	4.0	4.0	2.25	2.00
L TMVW-p	MT20	4.0	4.0	1.25	2.00
N BMV1-p	MT20	3.0	4.0		
O BMW1-i	MT20	4.0	4.0		
P BSW1-i	MT20	4.0	6.0		
Q, R, S, T, U, V					
Q BMW1-w	MT20	2.0	4.0		
W BMW1-i	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		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
X-B	-282 / 0	0.0	0.0	0.03 (1)	7.81
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00
B-C	-89 / 0	-91.8	-91.8	0.12 (1)	8.25
C-D	-15 / 0	-91.8	-91.8	0.05 (1)	6.25
D-E	-16 / 0	-91.8	-91.8	0.05 (1)	6.25
E-F	-8 / 0	-91.8	-91.8	0.05 (1)	10.00
F-G	-18 / 0	-91.8	-91.8	0.05 (1)	6.25
G-H	-18 / 0	-91.8	-91.8	0.05 (1)	6.25
H-I	-8 / 0	-91.8	-91.8	0.05 (1)	6.25
I-J	-16 / 0	-91.8	-91.8	0.05 (1)	10.00
J-K	-15 / 0	-91.8	-91.8	0.05 (1)	6.25
K-L	-68 / 0	-91.8	-91.8	0.12 (1)	6.25
L-M	0 / 35	-91.8	-91.8	0.12 (1)	6.25
N-L	-282 / 0	0.0	0.0	0.03 (1)	7.81
X-W	0 / 0	-18.5	-18.5	0.01 (4)	10.00
W-V	0 / 17	-18.5	-18.5	0.02 (4)	10.00
V-U	0 / 12	-18.5	-18.5	0.02 (4)	10.00
U-T	0 / 9	-18.5	-18.5	0.01 (4)	10.00
T-S	0 / 6	-18.5	-18.5	0.01 (4)	10.00
S-R	0 / 6	-18.5	-18.5	0.01 (4)	10.00
R-Q	0 / 9	-18.5	-18.5	0.02 (4)	10.00
Q-P	0 / 12	-18.5	-18.5	0.02 (4)	10.00
P-O	0 / 17	-18.5	-18.5	0.02 (4)	10.00
O-N	0 / 0	-18.5	-18.5	0.02 (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 = 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 089-14
- 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=0.08/1.00 (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)
MT20	518	354	1867

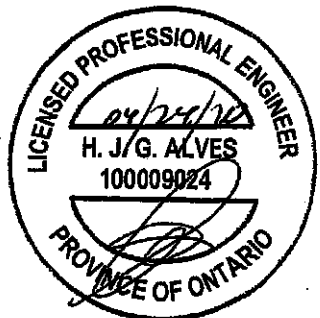
MAX MIN MAX MIN MAX MIN

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)

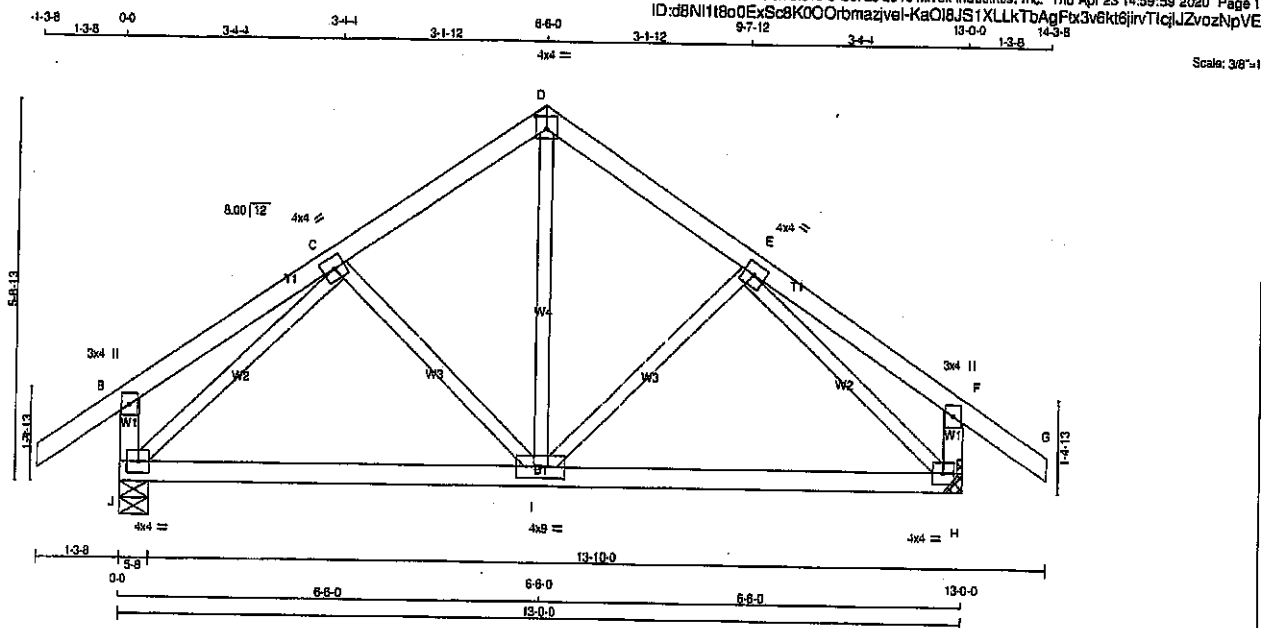


Structural component only
 DWG# T-2006770

JOB NAME 408263	TRUSS NAME T7	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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9-7-12 13-0-0 14-3-8



Scale: 3/8"=1'

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
H - F	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	TMWW-I	MT20	4.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMWW-I	MT20	4.0	4.0		
F	TMV+p	MT20	3.0	4.0		
H	BMWW-I	MT20	4.0	4.0		
I	BMWW-I	MT20	4.0	9.0		
J	BMWW-I	MT20	4.0	4.0		

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	843 0	843 0	5-8	5-8
H	843 0	843 0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	594	403 / 0	0 / 0	0 / 0	0 / 0	191 / 0	0 / 0
H	594	403 / 0	0 / 0	0 / 0	0 / 0	191 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	I-D	0 / 383	0.08 (1)	
B-C	0 / 18	-91.8	-91.8	0.15 (1)	10.00	I-E	-152 / 0	0.05 (1)	
C-D	-555 / 0	-91.8	-91.8	0.12 (1)	6.25	C-I	-152 / 0	0.05 (1)	
D-E	-555 / 0	-91.8	-91.8	0.12 (1)	8.25	J-C	-785 / 0	0.26 (1)	
E-F	0 / 18	-91.8	-91.8	0.15 (1)	10.00	E-H	-785 / 0	0.26 (1)	
F-G	0 / 35	-91.8	-91.8	0.12 (1)	10.00				
J-B	-241 / 0	0.0	0.0	0.02 (1)	7.81				
H-F	-241 / 0	0.0	0.0	0.02 (1)	7.81				
J-I	0 / 555	-18.5	-18.5	0.27 (4)	10.00				
I-H	0 / 555	-18.5	-18.5	0.27 (4)	10.00				

TOTAL WEIGHT = 2 X 57 = 114 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

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 (0.05")

CSI: TC=0.15/1.00 (E-F:1), BC=0.27/1.00 (H-I:4),
WB=0.28/1.00 (E-H:1), SS=0.12/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

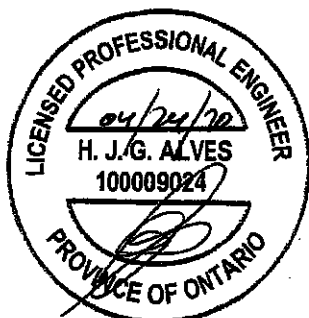
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	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.

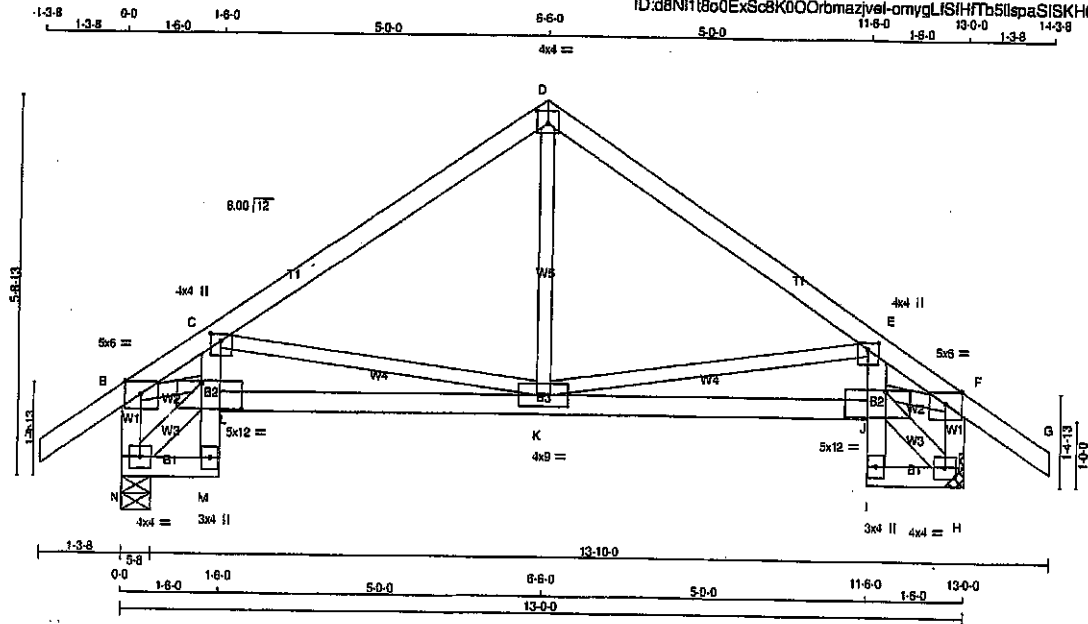
JSI GRIP= 0.69 (E) (INPUT = 0.50)
JSI METAL= 0.28 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006771

JOB NAME 408263	TRUSS NAME T7S	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID: d8N1t8o0ExSc8K00Orbmazvel-omvgLISH7b5llspaSISKH0072qevelyP38REzNpVD



Scale: 3/8"=1'

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

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+p	MT20	4.0	4.0	1.25	2.00
D	TTW+p	MT20	4.0	4.0	2.25	2.00
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
F	TMVW-p	MT20	5.0	6.0	Edge	
H	BMVW1-t	MT20	4.0	4.0		
I	BMV+p	MT20	3.0	4.0		
J	BMVWV1-t	MT20	5.0	12.0	4.50	7.50
K	BMVWV1-t	MT20	4.0	9.0		
L	BMVWV1-t	MT20	5.0	12.0	4.50	7.50
M	BMV+p	MT20	3.0	4.0		
N	BMVW1-t	MT20	4.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	DOWN	HORIZ	BRG	BRG
N	843	0	843	0	5-8
H	843	0	843	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	594	403 / 0	0 / 0	0 / 0	0 / 0	191 / 0	0 / 0
H	594	403 / 0	0 / 0	0 / 0	0 / 0	191 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 5.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 35	K-D	0 / 293
B-C	-1339 / 0	K-E	-727 / 0
C-D	-847 / 0	C-K	-727 / 0
D-E	-847 / 0	N-L	-80 / 0
E-F	-1338 / 0	B-L	0 / 1149
F-G	0 / 35	J-H	-80 / 0
N-B	-777 / 0	J-F	0 / 1149
H-F	-777 / 0		
N-M	0 / 59		
M-L	0 / 14		
L-C	0 / 151		
L-K	0 / 1237		
K-J	0 / 1237		
I-J	0 / 14		
J-E	0 / 151		
I-H	0 / 59		

TOTAL WEIGHT = 2 X 59 = 118 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

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 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TO=0.31/1.00 (C-D:1), BC=0.28/1.00 (K-L:1),
WB=0.34/1.00 (C-K:1), SSI=0.18/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

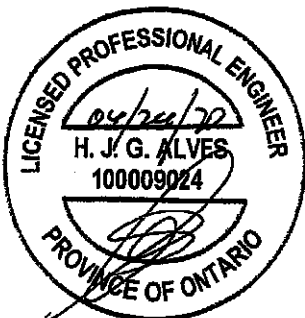
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1867 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (B) (INPUT = 0.90)
JSI METAL= 0.29 (L) (INPUT = 1.00)

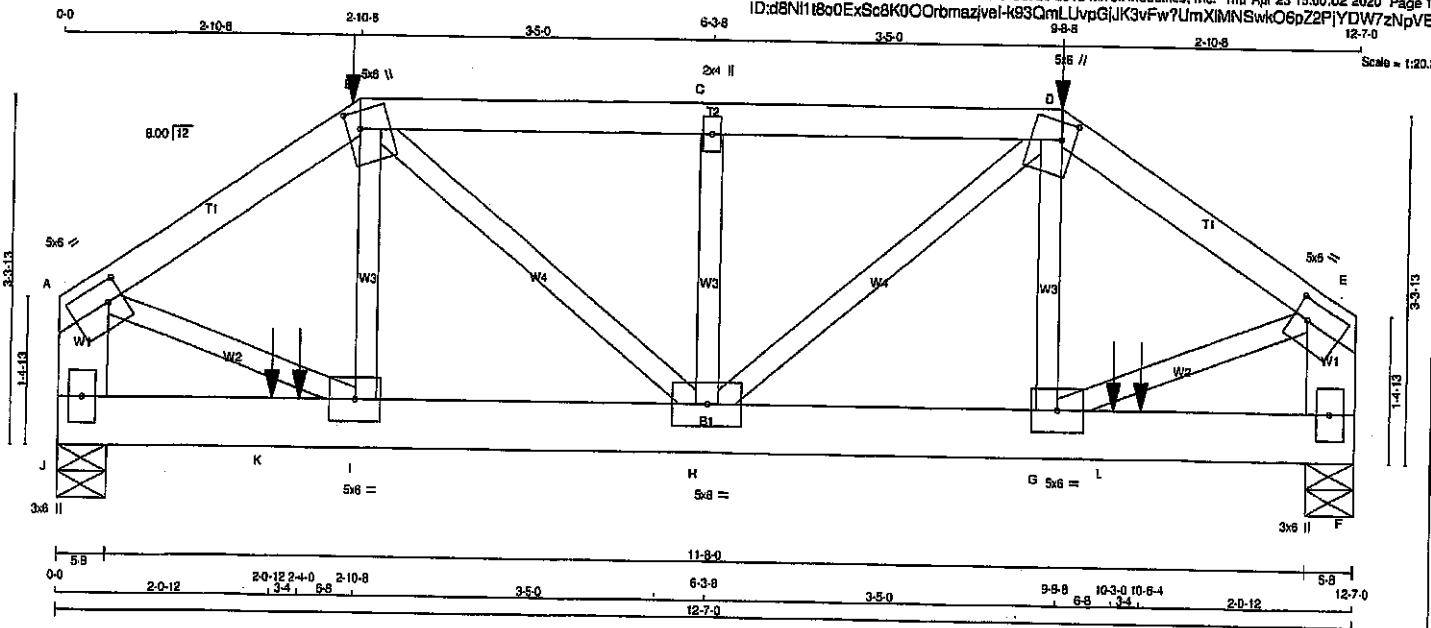


Structural component only
DWG# T-2006772

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

Tamarack Roof Truss, Burlington

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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-1	MT20	5.0	6.0	2.25	1.75
B	TTWW+m	MT20	5.0	6.0	2.00	1.50
C	TMVW-w	MT20	2.0	4.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW-1	MT20	5.0	6.0	2.25	1.75
F	BMV1+p	MT20	3.0	6.0		
G	BMVW-1	MT20	5.0	6.0		
H	BMVW-1	MT20	5.0	6.0		
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	1542	0	5-8	5-8
F	1512	0	5-8	5-8

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	1083	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)

MEMB.	FR-TO	CHORDS			MEMB.	FR-TO	WEBS		
		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)			MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)
A-B	-1461 / 0	-91.8	-91.8	0.18 (1)	B-H	0 / 265	0.07 (1)		
B-C	-1403 / 0	-91.8	-91.8	0.21 (1)	B-H	0 / 238	0.06 (1)		
C-D	-1403 / 0	-91.8	-91.8	0.21 (1)	H-D	-370 / 0	0.07 (1)		
D-E	-1488 / 0	-91.8	-91.8	0.18 (1)	H-D	0 / 207	0.05 (1)		
J-A	-1352 / 0	0.0	0.0	0.10 (1)	G-D	0 / 300	0.07 (1)		
F-E	-1375 / 0	0.0	0.0	0.10 (1)	A-I	0 / 1279	0.32 (1)		
J-K	0 / 0	-18.5	-18.5	0.26 (1)	G-E	0 / 1303	0.32 (1)		
K-I	0 / 0	-18.5	-18.5	0.26 (1)					
I-H	0 / 1222	-18.5	-18.5	0.26 (1)					
H-G	0 / 1246	-18.5	-18.5	0.25 (1)					
G-L	0 / 0	-18.5	-18.5	0.20 (1)					
L-F	0 / 0	-18.5	-18.5	0.20 (1)					

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
K	2-4-0	-689	-689	---	BACK	VERT	TOTAL	---	C1
L	10-3-0	-689	-689	---	BACK	VERT	TOTAL	---	C1
L	10-6-4	-9	-9	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 59 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, 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 086-08, CSA 085-14
- TPIC 2011, TPIC 2014

(5% 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 (G-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.

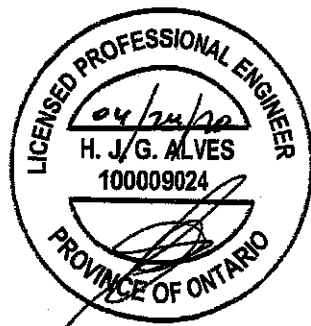
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)		
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= 0.89 (E) (INPUT = 0.80)
JSI METAL= 0.39 (A) (INPUT = 1.00)

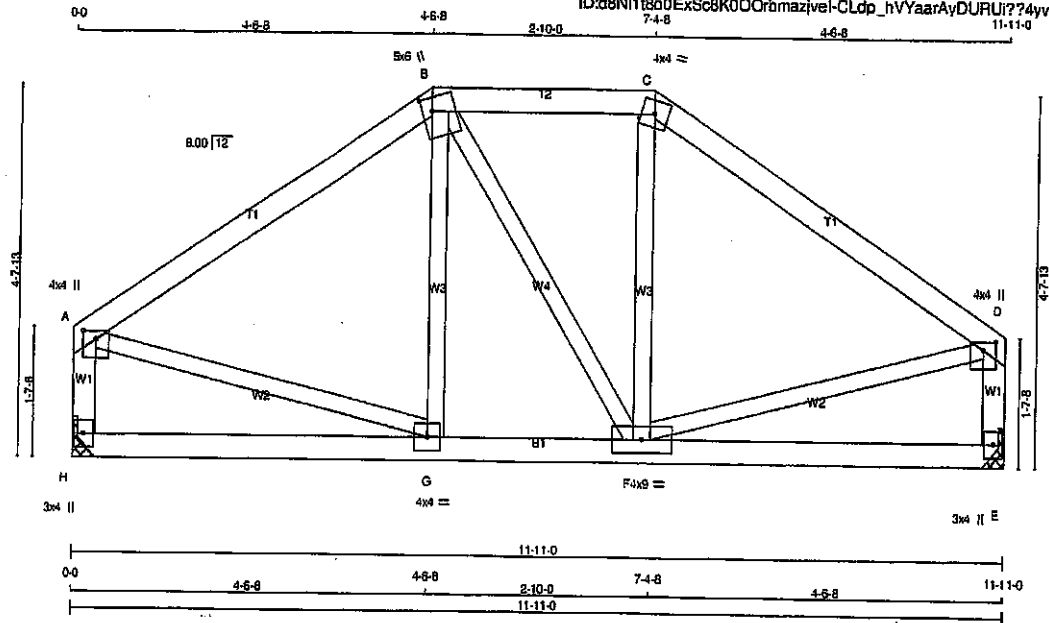


Structural component only
DWG# T-2006773

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

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Scale = 1:25.7

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		
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 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
B	TTWW+m	MT20	5.0	6.0	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	BMWWW-t	MT20	4.0	9.0		
G	BMWW-t	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	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	UPLIFT	IN-SX
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

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	485	305 / 0	0 / 0	0 / 0	0 / 0	160 / 0	0 / 0
E	485	305 / 0	0 / 0	0 / 0	0 / 0	160 / 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	MEMB.	FORCE	VERT. LOAD	LC1	MAX	UNBRAC	MEMB.	FORCE	MAX
FR-TO	(LBS)	(PLF)	FROM	TO	CSI (LC)	LENGTH	FR-TO	(LBS)	CSI (LC)		
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						

TOTAL WEIGHT = 50 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

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 C86-09, CSA C86-14
- 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)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1687
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

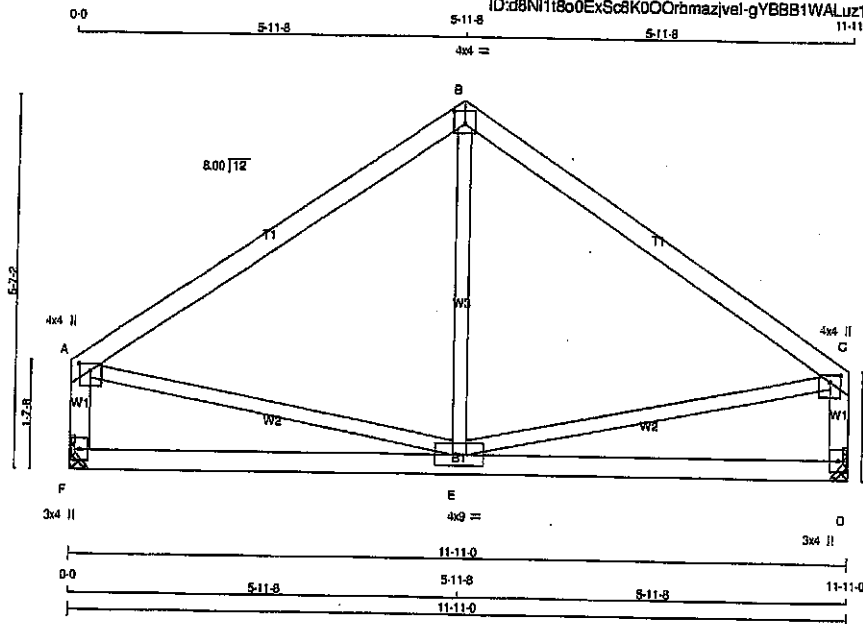
JSI GRIP = 0.54 (G) (INPUT = 0.90)

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

CHORDS	SIZE	LUMBER
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	BMVW-W-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

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

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
F	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
F	485	305 / 0 0 / 0 0 / 0 0 / 0 160 / 0 0 / 0
D	485	305 / 0 0 / 0 0 / 0 0 / 0 160 / 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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MAX. UNBRAC LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)
FR-TO			FROM TO			FR-TO			
A-B	-483 / 0	-91.8	-91.8	0.42 (1)	6.25	E-B	-33 / 91	0.03 (4)	
B-C	-483 / 0	-91.8	-91.8	0.42 (1)	6.25	A-E	0 / 395	0.09 (1)	
F-A	-515 / 0	0.0	0.0	0.07 (1)	7.81	E-C	0 / 395	0.09 (1)	
D-C	-515 / 0	0.0	0.0	0.07 (1)	7.81				
F-E	0 / 0	-18.5	-18.5	0.19 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00				

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, 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 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) = $L/999$ (0.03")

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), SS=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 (PSI)	SECTION (PLI)
MT20	618	354	1687 788 1987 1655

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)

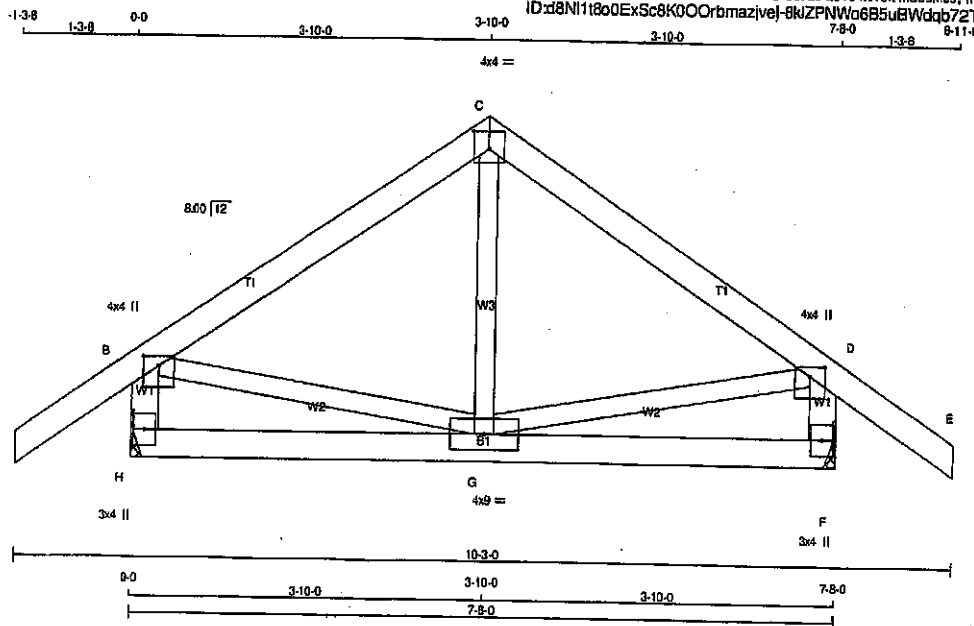


Structural component only
DWG# T-2006775

JOB NAME 408263	TRUSS NAME T11	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMVW+p	MT20	4.0	4.0	1.25	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW-t	MT20	4.0	9.0		
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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	549	0	549	0
F	549	0	549	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	386	286 / 0	0 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0
F	386	286 / 0	0 / 0	0 / 0	0 / 0	0 / 0	119 / 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	0 / 35	-91.8 -91.8	0.12 (1)	10.00	G-C	-19 / 59	0.02 (4)
B-C	-300 / 0	-91.8 -91.8	0.17 (1)	6.25	B-G	0 / 255	0.06 (1)
C-D	-300 / 0	-91.8 -91.8	0.17 (1)	6.25	G-D	0 / 255	0.06 (1)
D-E	0 / 35	-91.8 -91.8	0.12 (1)	10.00			
H-B	-521 / 0	0.0 0.0	0.05 (1)	7.81			
F-D	-521 / 0	0.0 0.0	0.05 (1)	7.81			
H-G	0 / 0	-18.5 -18.5	0.07 (4)	10.00			
G-F	0 / 0	-18.5 -18.5	0.07 (4)	10.00			

TOTAL WEIGHT = 2 X 33 = 66 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 088-09, 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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.17/1.00 (B-C:1), BC=0.07/1.00 (G-H:4), WB=0.08/1.00 (B-G:1), 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

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

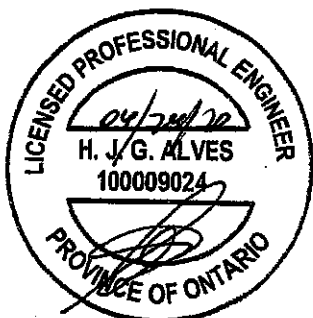
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.38 (B) (INPUT = 0.50)
JSI METAL= 0.11 (B) (INPUT = 1.00)

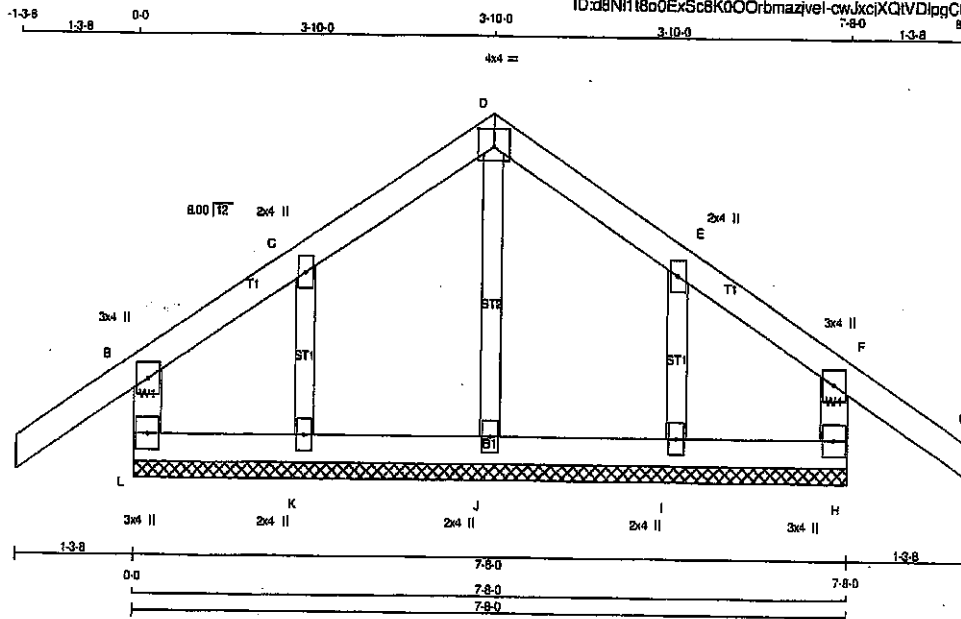


Structural component only
DWG# T-2006776

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

Tamarack Roof Truss, Burlington

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LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	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 PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

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

TOTAL WEIGHT = 2 X 30 = 60 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 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 25.6 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) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1657 788 1987 1656

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)

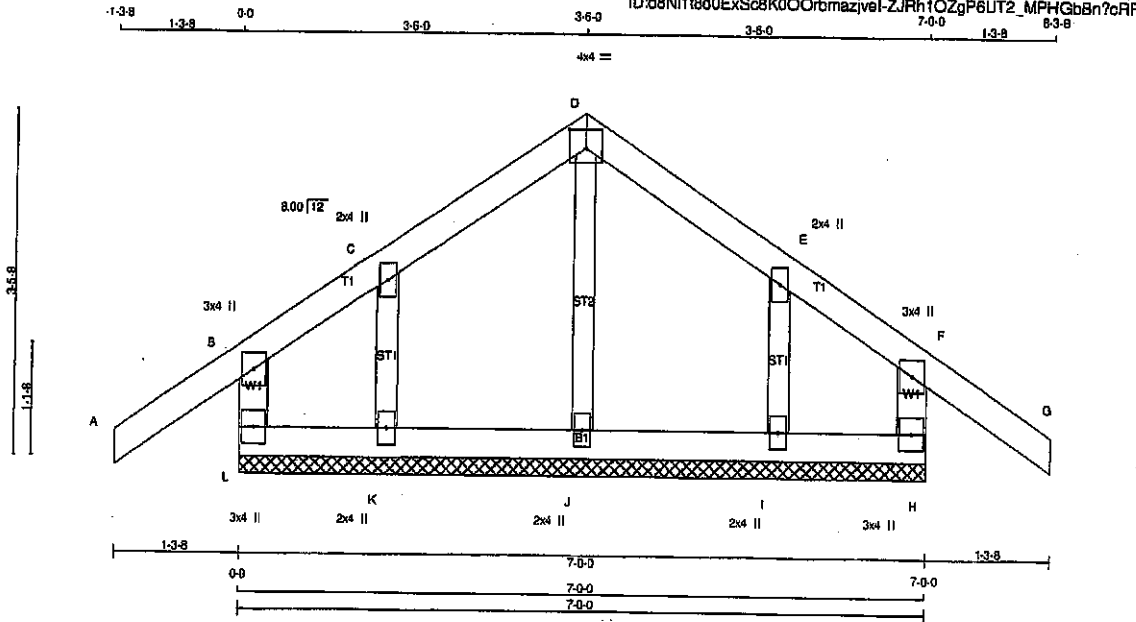


Structural component only
DWG# T-2008777

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T12G	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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Scale = 1:21.3

LUMBER

N. L. G. A. RULES

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

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMW+p	MT20	2.0	4.0	
D	TTW+p	MT20	4.0	4.0	2.25 2.00
E	TMW+p	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+p	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)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	MAX. FACTORED	FORCE
	(LBS)	(LBS)	(PLF)	CSI (LC)	LENGTH		(LBS)	MAX
FR-TO			FROM	TO		FR-TO		CSI (LC)
L-B	-189 / 0		0.0	0.0 0.05 (1)	7.81	J-D	-283 / 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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, 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 (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	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX MIN
MT20	518	354	1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (D) (INPUT = 0.90)

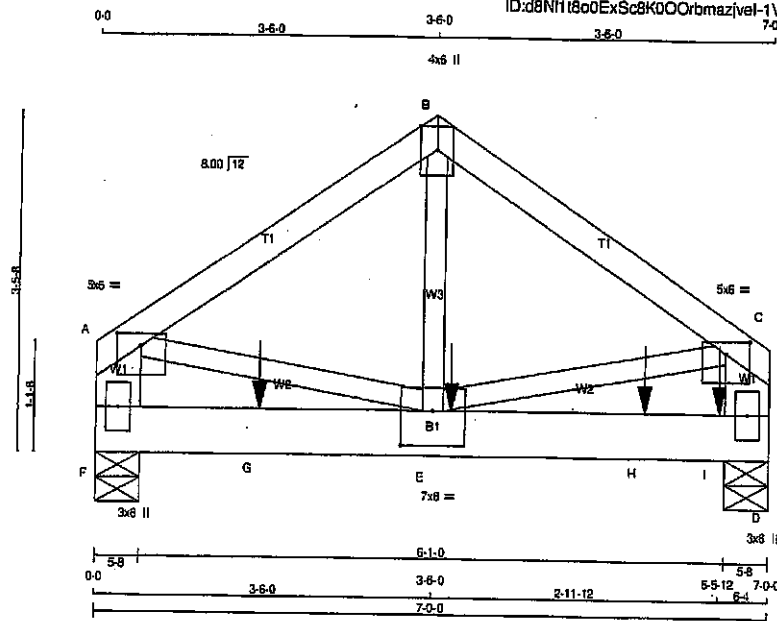
JSI METAL= 0.08 (D) (INPUT = 1.00)



Structural component only
DWG# T-2006778

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

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ID:d8NN16o0ExSc8K00Orbmazjvel-1V 4EkZIAQcJg8xbqz8QJD9ail2AFza40Jk4GDzNpV4



TOTAL WEIGHT = 2 X 32 = 64 lb

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER	DESC	
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	12	TOP
B - C	12	TOP
F - A	12	TOP
D - C	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	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 is 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	BMVW-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	DOWN	UP	IN-SX
F	2945	0	5-8	5-8
D	4561	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	1ST LOASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	2080	1380	0	0	0	0	700	0
D	3221	2135	0	0	0	0	1085	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)	FACTORED VERT. LOAD (LC1)	MAX. UNBRACED LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
A-B		-2975	0	-91.8	0.14 (1)	5.21	E-B	0 / 2980	0.37 (1)	
B-C		-2975	0	-91.8	0.14 (1)	5.21	A-E	0 / 2527	0.31 (1)	
F-A		-2319	0	0.0	0.08 (1)	7.81	E-C	0 / 2527	0.31 (1)	
D-C		-2319	0	0.0	0.08 (1)	7.81				
F-G		0	0	-18.5	0.38 (1)	10.00				
G-E		0	0	-18.5	0.38 (1)	10.00				
E-H		0	0	-18.5	0.59 (1)	10.00				
H-I		0	0	-18.5	0.59 (1)	10.00				
I-D		0	0	-18.5	0.59 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	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	6-5-12	-1687	-1687	---	TOP	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

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

CSH: TC=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 LB 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.

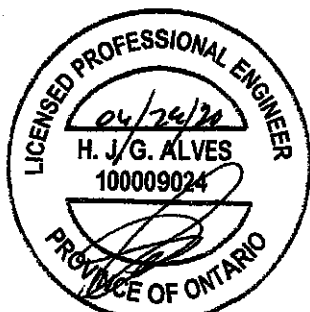
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(FL)
MAX	MIN	MAX
MIN	MIN	MIN
MT20	618	354
	1657	788
	1957	1656

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)

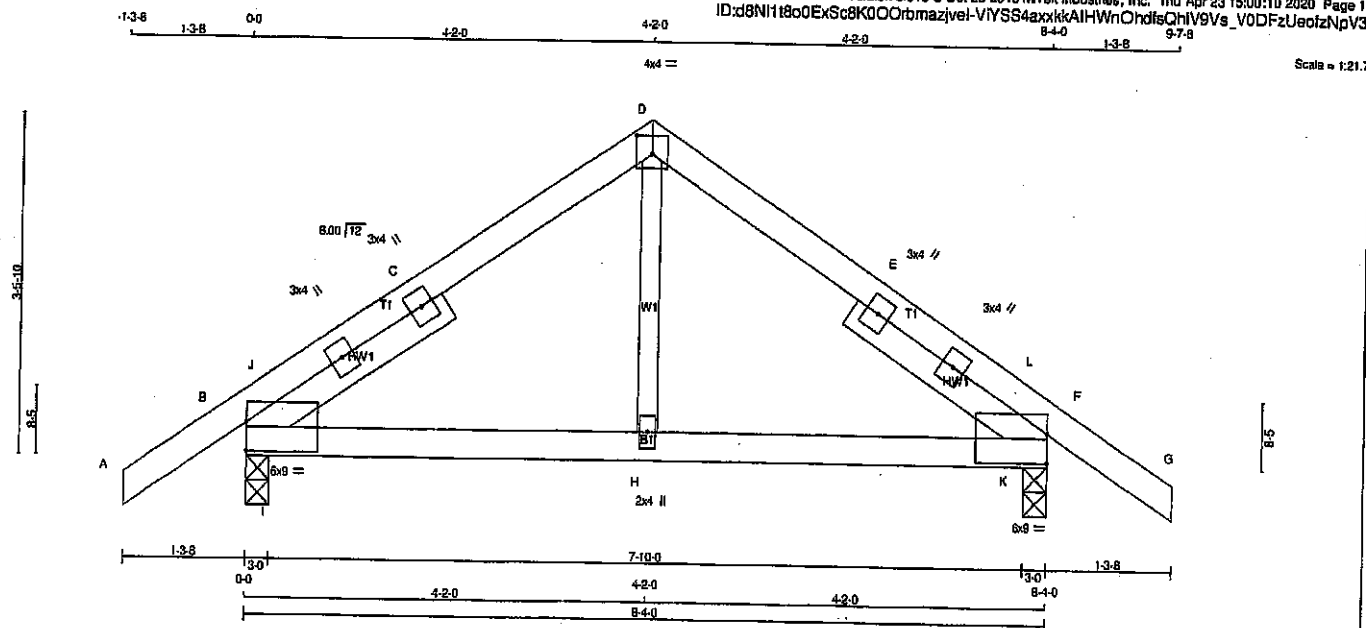


Structural component only
DWG# T-2006779

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

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8-4-0 9-7-8



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
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 (tab 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-t	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

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
	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)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 23	-91.8	-91.8 0.12 (1)	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	-308 / 0	-91.8	-91.8 0.14 (1)	I-C	-230 / 0	0.03 (1)	
C-D	-308 / 0	-91.8	-91.8 0.14 (1)	K-L	-97 / 52	0.00 (1)	
D-E	-308 / 0	-91.8	-91.8 0.14 (1)	K-E	-230 / 0	0.03 (1)	
E-L	-308 / 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 2010, 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 (0.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.28")
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), SS=0.20/1.00 (B-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (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)

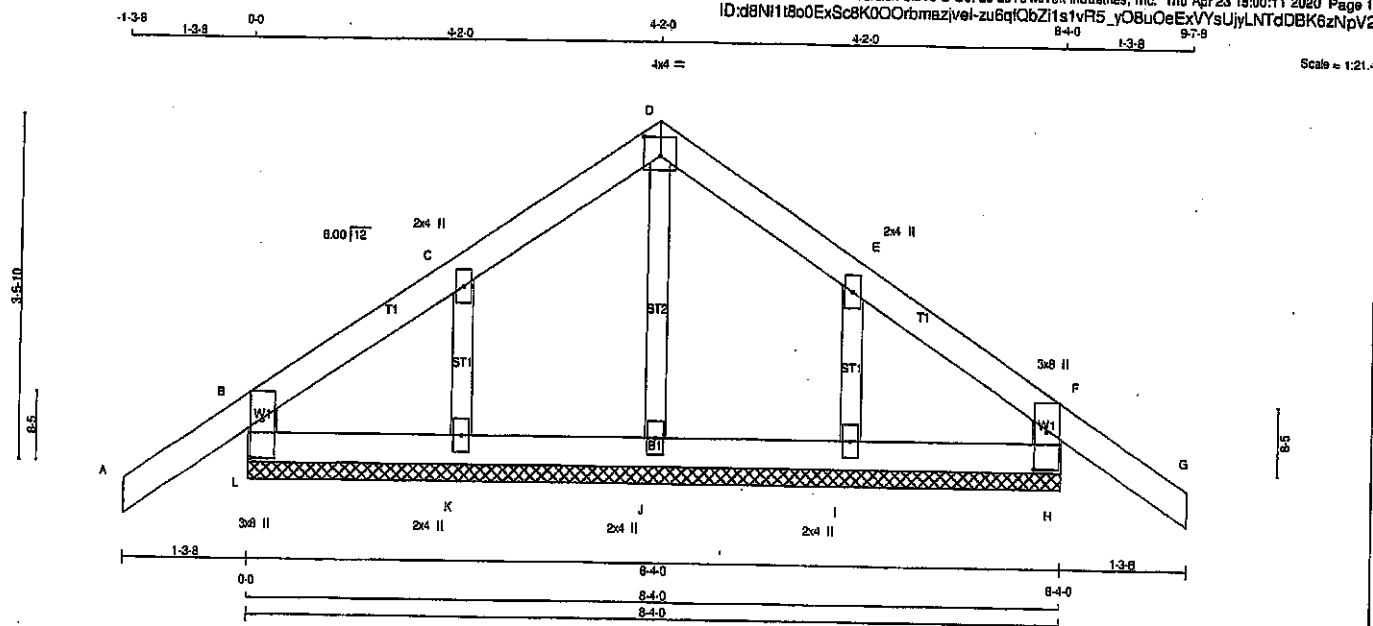


Structural component only
DWG# T-2006780

JOB NAME 408263	TRUSS NAME T14G	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID: d8NH18o0ExSc8K00Orbmazjvel-zu6qfQbZ1s1vR5_y0BU0eExVysUjyLNTdDBK6zNpV2



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 LG1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
L-B	-247 / 0	0.0	0.0 0.01 (4)	J-D	-153 / 0	0.08 (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 0.05 (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 (M)

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

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

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), SSI=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.

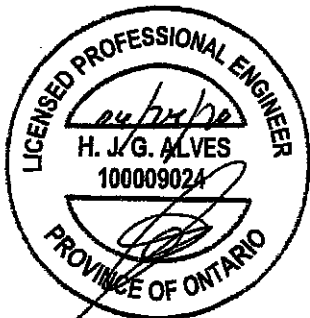
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1867 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)

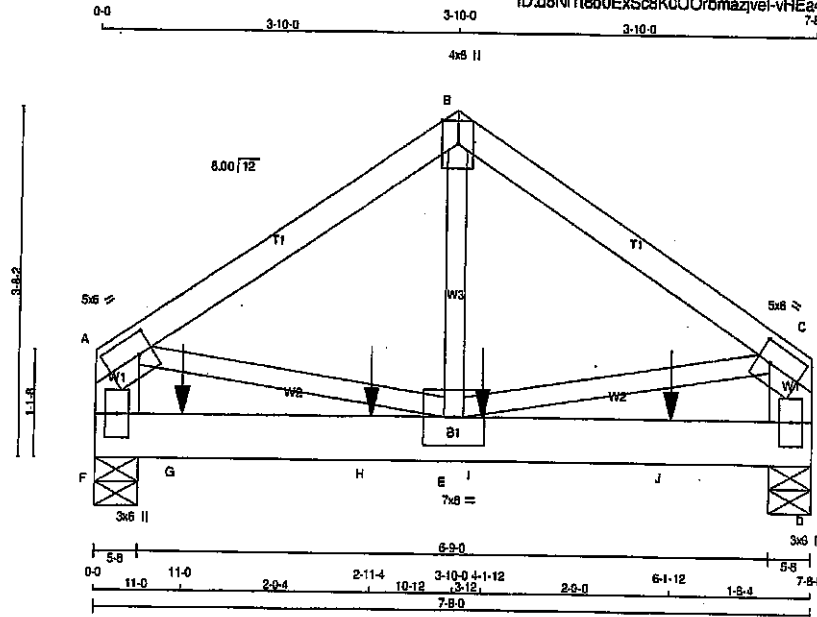


Structural component only
DWG# T-2006781

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408263	T15	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER

N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
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-4	M20	5.0	6.0	2.50 1.75
B	TTW-4p	M20	4.0	8.0	Edge

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
F	4115	0	5-8	5-8
D	1915	0	5-8	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	2902	1951 / 0	0 / 0	0 / 0	0 / 0	551 / 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)

	CHORDS	WEBS
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	MEMB. FORCE (LBS)	MEMB. FORCE (LBS)
A-B	-2163 / 0	-91.8 -91.8 0.15 (1)
B-C	-2163 / 0	-91.8 -91.8 0.15 (1)
F-A	-1713 / 0	0.0 0.0 0.06 (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.	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, 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 (0.28")
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), SSI=0.80/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LB 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 (PL)
MAX MIN	MAX MIN	MAX MIN
M20	618 354	1667 788
		1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.76 (C) (INPUT = 0.90)
JSI METAL = 0.28 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006782 1/2

CONTINUED ON PAGE 2

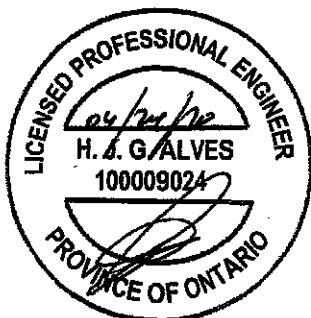
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T15	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 23 15:00:13 2020 Page 2
ID: d8N1i8p0ExSc8K00QOrbmazivel-vHEa46dpE6i9IFM3pBMU3JGaMMe8pMoxoIIP zNoV0

PLATES (Table is in inches)

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

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

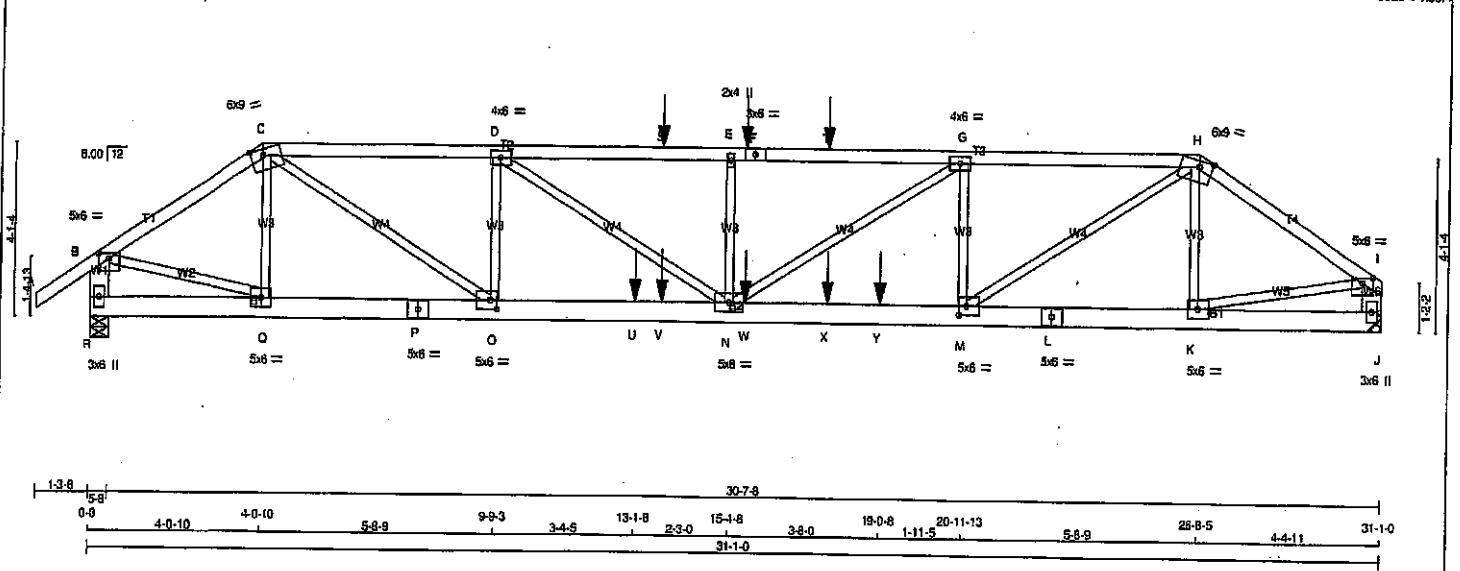


Structural component only
DWG# T-2006782 272

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T16X	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019
Mitek Industries, Inc.
Thu Apr 23 15:00:14 2020
Page 1
ID: d8N118o0ExSc8K0OorbmaZveI-NTozHSdR_yEcmvpZdWib0GsHdmkqWAGpAbSsxQzNpV?
20-8-5
20-11-13
31-1-0
Scale = 1:50.4



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	1850F 1.5E SPF
P - L	2x6	DRY	1850F 1.5E SPF
L - J	2x6	DRY	1850F 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

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

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

UNFACTORED REACTIONS							
	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	2393	1615 / 0	0 / 0	0 / 0	0 / 0	778 / 0	0 / 0
J	2320	1552 / 0	0 / 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		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD (PLF)	MAX.	CS1 (LC)	MEMB.	FORCE (LBS)	MAX.	CS1 (LC)
R-TO	0 / 35	-91.8	-91.8	0.07 (1)	10.00	Q-C	-803 / 0	0.10 (1)	
B-C	-4012 / 0	-91.8	-91.8	0.22 (1)	4.55	C-O	0 / 4808	0.60 (1)	
C-D	-7341 / 0	-91.8	-91.8	0.58 (1)	3.25	O-D	-1893 / 0	0.24 (1)	
D-S	-9289 / 0	-91.8	-91.8	0.74 (1)	2.75	D-N	0 / 2340	0.29 (1)	
S-E	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	N-E	-742 / 0	0.09 (1)	
E-F	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	N-G	0 / 2085	0.28 (1)	
F-T	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	M-G	-1778 / 0	0.23 (1)	
T-G	-9289 / 0	-91.8	-91.8	0.77 (1)	2.73	M-H	0 / 4724	0.58 (1)	
G-H	-7553 / 0	-91.8	-91.8	0.61 (1)	3.17	K-H	-585 / 0	0.07 (1)	
H-I	-4344 / 0	-91.8	-91.8	0.27 (1)	4.36	Q-Q	0 / 3427	0.42 (1)	
R-B	-3344 / 0	0.0	0.0	0.12 (1)	7.61	K-I	0 / 3662	0.45 (1)	
J-I	-3241 / 0	0.0	0.0	0.11 (1)	7.70				

FR-TO	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
R-Q	0 / 0	-18.5	-18.5	0.02 (1)
Q-P	0 / 3310	-18.5	-18.5	0.24 (1)
P-O	0 / 3310	-18.5	-18.5	0.24 (1)
O-U	0 / 7341	-18.5	-18.5	0.68 (1)
U-V	0 / 7341	-18.5	-18.5	0.68 (1)
V-N	0 / 7341	-18.5	-18.5	0.68 (1)
N-W	0 / 7553	-18.5	-18.5	0.58 (1)
W-X	0 / 7553	-18.5	-18.5	0.58 (1)
X-Y	0 / 7553	-18.5	-18.5	0.58 (1)
Y-M	0 / 7553	-18.5	-18.5	0.58 (1)
M-L	0 / 3592	-18.5	-18.5	0.21 (1)
L-K	0 / 3592	-18.5	-18.5	0.21 (1)
K-J	0 / 0	-18.5	-18.5	0.02 (4)

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX.	MAX+	BACK	VERT	TOTAL	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

BOT CH. LL = 6.0 PSF

LL = 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/959 (0.28')

ALLOWABLE DEFL.(TL) = L/360 (1.04')

CALCULATED VERT. DEFL.(TL) = L/805 (0.46')

CS1: TC=0.77/1.00 (E-G:1), BC=0.68/1.00 (N-C:1), WB=0.60/1.00 (C-O:1), SS1=0.37/1.00 (N-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 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 616 354 1887 788 1987 1656

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

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	T16X	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Thu Apr 23 15:00:14 2020 Page 2
ID:d8N118o0ExSc8K00Orbmazivel-NTozHSdR_vEcmvoZdWib0GsHdmkqwaAGpAbSrxQzNpV?

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	6.0		
E	TMW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	4.0	6.0		
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	SS-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	SS-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	6.0		
R	BMV1-p	MT20	3.0	6.0		

CONNECTION REQUIREMENTS

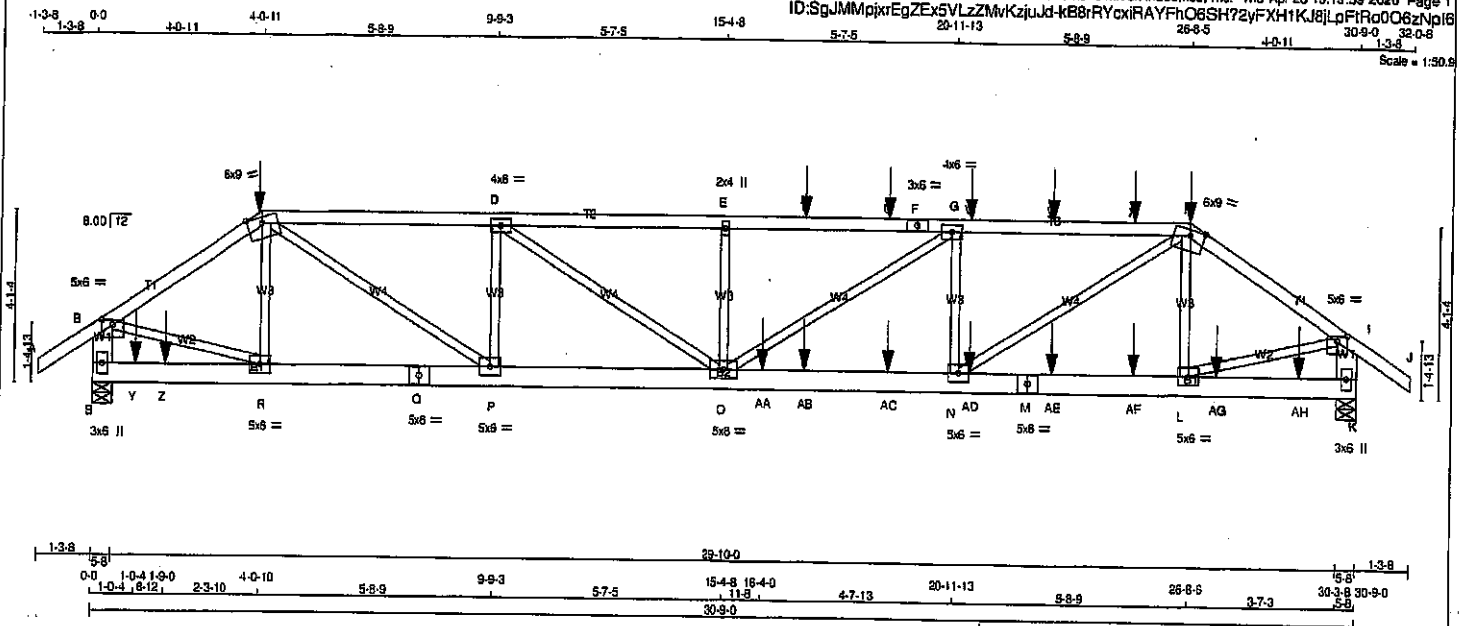
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2006783

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T21	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Thu Apr 23 15:13:59 2020 Page 1
ID: SgJMMpxrEgZEx5VLzZMvKzJd-kB8rYxIRAYFhO6SH72yFXH1KJ8JLpFtR006zNp16
20-11-13 26-8-5 4-0-11 1-3-8
Scale = 1:30.9



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR
A - C	2x4 DRY	No.2	SPF		
C - F	2x4 DRY	No.2	SPF		
F - 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	No.2	SPF		
Q - M	2x6 DRY	No.2	SPF		
M - K	2x6 DRY	No.2	SPF		
ALL WEBS EXCEPT	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-C	12	SIDE(61.0)
C-F	12	SIDE(61.0)
F-H	12	SIDE(61.0)
H-J	12	SIDE(61.0)
S-B	2	TOP
K-I	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-Q	2	SIDE(0.0)
Q-M	2	SIDE(0.0)
M-K	2	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.

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	DOWN	BRG	BRG
S	3933	0	5-8	5-8
K	3308	0	5-8	5-8

UNFACTORED REACTIONS	1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
S	2771	1875 / 0
K	2335	1558 / 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 = 3.05 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	MAX. FACTORED	FACTORED	MAX.	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	CS1 (LC)	MEMB.	FORCE
FR-TO	(LBS)	FROM TO	CS1 (LC)	FR-TO	(LBS)
A-B	0 / 35	-91.8 -91.8	0.07 (1)	R-C	-28 / 74
B-C	-3995 / 0	-91.8 -91.8	0.22 (1)	C-P	0 / 2788
C-D	-5663 / 0	-91.8 -91.8	0.42 (1)	P-D	-1615 / 0
D-E	-7238 / 0	-91.8 -91.8	0.54 (1)	D-O	0 / 1891
E-T	-7238 / 0	-91.8 -91.8	0.73 (1)	O-E	-554 / 0
T-U	-7238 / 0	-91.8 -91.8	0.73 (1)	O-G	0 / 1188
U-F	-7238 / 0	-91.8 -91.8	0.73 (1)	G-H	-1608 / 0
F-G	-7238 / 0	-91.8 -91.8	0.73 (1)	H-N	0 / 3815
G-V	-6249 / 0	-91.8 -91.8	0.85 (1)	N-H	-630 / 0
V-W	-6249 / 0	-91.8 -91.8	0.85 (1)	B-R	0 / 3413
W-X	-6249 / 0	-91.8 -91.8	0.85 (1)	L-I	0 / 3328
X-H	-6249 / 0	-91.8 -91.8	0.65 (1)		
H-I	-3896 / 0	-91.8 -91.8	0.22 (1)		
I-J	0 / 35	-91.8 -91.8	0.07 (1)		
S-B	-3332 / 0	0.0 0.0	0.12 (1)		
K-I	-3257 / 0	0.0 0.0	0.12 (1)		

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	4-0-11	-50	-56	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-263	-263	---	FRONT	VERT	DEAD	---	C1
H	26-8-5	-50	-56	---	FRONT	VERT	DEAD	---	C1
H	26-8-5	-263	-263	---	FRONT	VERT	DEAD	---	C1
T	17-4-4	-110	-110	---	FRONT	VERT	TOTAL	---	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 = 5.0 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, 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 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 (0.19")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.35")

CS1: TO=0.73/1.00 (E-G:1), RC=0.66/1.00 (N-O:1), WB=0.45/1.00 (H-N:1), SSI=0.34/1.00 (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
(P.S.I) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1655

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.41 (R) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2008792

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

Tamarack Roof Truss, Burlington

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ID: SqJMMpIxRqZE5VLzZMvKziJd-kB8rRYckIRAYFhOSSH?2vFXH1KJBLoFIRO0Q6zNpI6

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	Edge	4.25
D	TMWW-l	MT20	4.0	6.0		
E	TMW-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	Edge	4.25
I	TMVW-p	MT20	5.0	6.0	1.50	3.00
K	BMV1+p	MT20	3.0	6.0		
L, N, P, R						
L	BMWW-r	MT20	5.0	6.0		
M	BS-l	MT20	5.0	6.0		
O	BMWWW-l	MT20	5.0	6.0		
Q	BS-l	MT20	5.0	6.0		
S	BMV1+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	1-0-0	-1105	-1105	---	FRONT	VERT	TOTAL	---	C1
AA	18-4-0	-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.

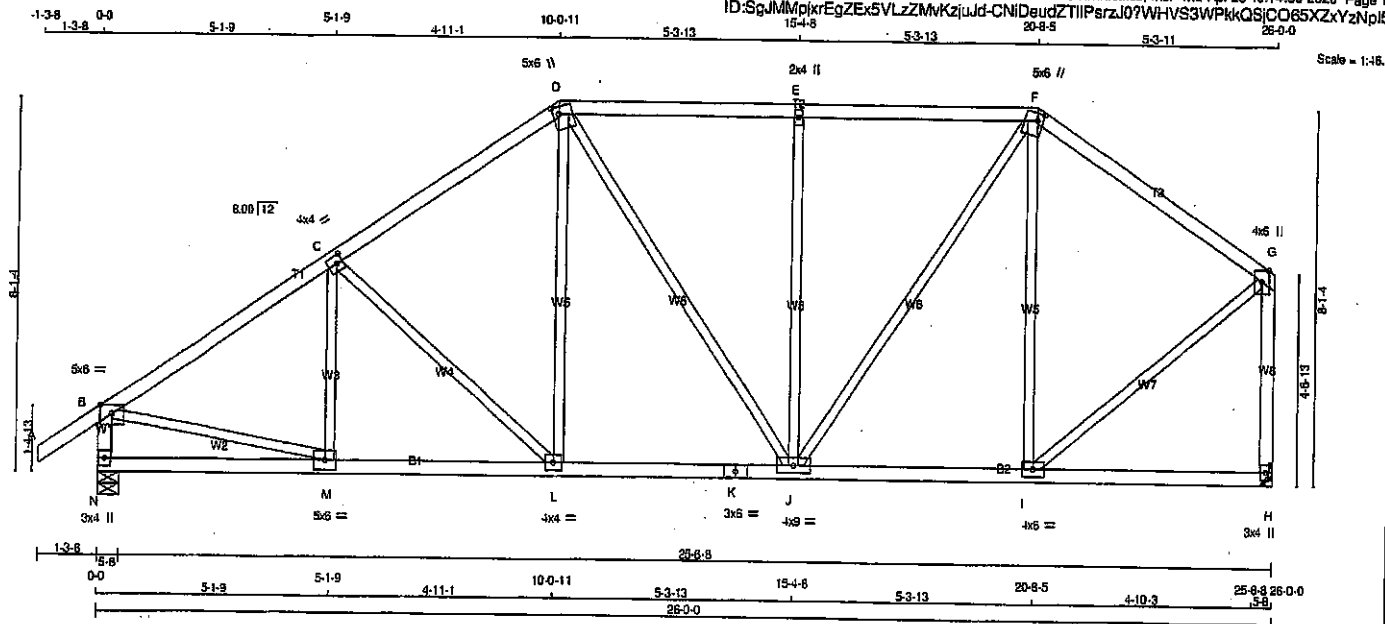


Structural component only
DWG# T-2006792

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	T22	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER

N. L. G. A. RULES

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

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-l	MT20	4.0	4.0	2.00	1.50
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW-w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.00	1.50
G	TMVW-p	MT20	4.0	6.0	Edge	
H	BMV1-p	MT20	3.0	4.0		
I	BMVW-l	MT20	4.0	6.0		
J	BMVWW-l	MT20	4.0	9.0		
K	BS-l	MT20	3.0	6.0		
L	BMVW-l	MT20	4.0	4.0		
M	BMVW-l	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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
H	1433	0	1433	0
N	1559	0	1559	0

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

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
H	1014 665.0 0.0 0.0 0.0 348.0 0.0
N	1100 735.0 0.0 0.0 0.0 365.0 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 = 4.85 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. UNBRAC 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	M-C	-191.18	0.07 (1)
B-C	-1629.0	-91.8 -91.8	0.34 (1)	4.85	C-L	-330.0	0.28 (1)
C-D	-1397.0	-91.8 -91.8	0.32 (1)	5.16	D-J	0/318	0.07 (1)
D-E	-1198.0	-91.8 -91.8	0.35 (1)	5.43	L-D	0/101	0.02 (1)
E-F	-1196.0	-91.8 -91.8	0.35 (1)	5.43	J-F	-599.0	0.76 (1)
F-G	-952.0	-91.8 -91.8	0.35 (1)	5.91	E-F	0/731	0.18 (1)
H-I	-1518.0	0.0 0.0	0.16 (1)	6.87	I-F	-507.0	0.64 (1)
I-G	-1394.0	0.0 0.0	0.50 (1)	6.90	B-M	0.1411	0.32 (1)
					L-G	0.1006	0.23 (1)
N-M	0/0	-18.5 -18.5	0.11 (4)	10.00			
M-L	0/1381	-18.5 -18.5	0.28 (1)	10.00			
L-K	0/1139	-18.5 -18.5	0.24 (1)	10.00			
K-J	0/1139	-18.5 -18.5	0.24 (1)	10.00			
J-I	0/784	-18.5 -18.5	0.20 (1)	10.00			
I-H	0/0	-18.5 -18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 6 X 122 = 731 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

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 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 (0.87")
CALCULATED VERT. DEFL.(LL) = L/989 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.87")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.50/1.00 (G-H:1), BC=0.28/1.00 (L-M:1), WB=0.78/1.00 (E-J: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

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

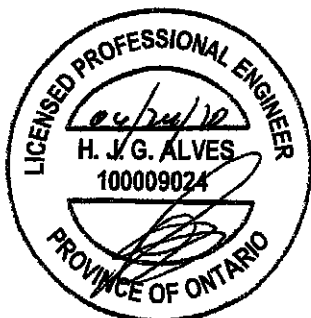
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1867 783

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.50 (B) (INPUT = 0.90)
JSI METAL = 0.50 (G) (INPUT = 1.00)

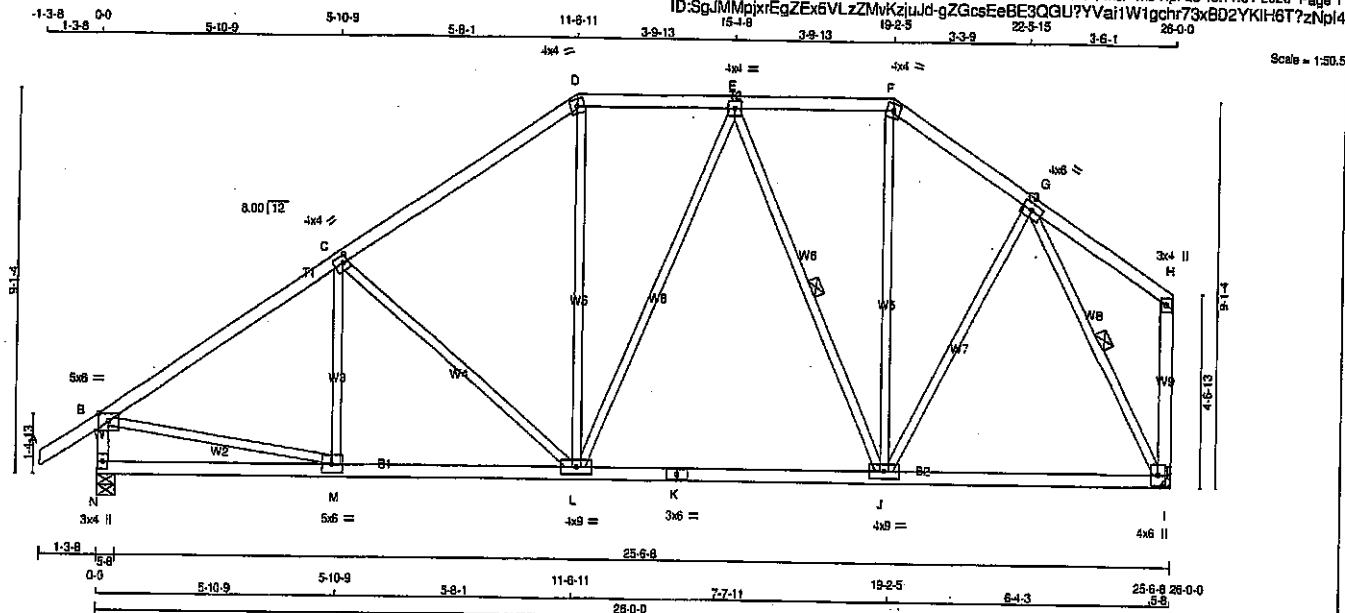


Structural component only
DWG# T-2006793

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

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

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
N - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
N - K	2x4	DRY	No.2
K - I	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
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	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVW-t	MT20	4.0	6.0		
H	TMV-p	MT20	3.0	4.0		
I	BMVW1+p	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	6.0		
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	6.0		
M	BMVW-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	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
N	1589	0	1559	0	5-8
I	1433	0	1433	0	5-8

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	0 / 0	0 / 0	385 / 0	0 / 0
I	1014	665 / 0	0 / 0	0 / 0	0 / 0	348 / 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 = 4.59 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	M-C	-141 / 45	0.08 (1)
B-C	-1633 / 0	-91.8	-91.8 0.46 (1)	4.69	C-L	-449 / 0	0.53 (1)
C-D	-1298 / 0	-91.8	-91.8 0.42 (1)	5.16	L-D	0 / 368	0.08 (1)
D-E	-1053 / 0	-91.8	-91.8 0.17 (1)	5.94	E-J	0 / 50	0.02 (4)
E-F	-838 / 0	-91.8	-91.8 0.17 (1)	6.25	E-J	-510 / 0	0.33 (1)
F-G	-1022 / 0	-91.8	-91.8 0.14 (1)	6.05	J-F	0 / 301	0.07 (1)
G-H	0 / 19	-91.8	-91.8 0.16 (1)	10.00	J-G	0 / 352	0.08 (1)
H-B	-1513 / 0	0.0	0.0 0.16 (1)	6.88	B-M	0 / 1411	0.32 (1)
I-H	-124 / 0	0.0	0.0 0.04 (1)	7.81	G-I	-1424 / 0	0.51 (1)
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			

TOTAL WEIGHT = 126 lb

(MIF)

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

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 (0.87")
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 (PSI)	SECTION (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= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.39 (K) (INPUT = 1.00)



Structural component only
DWG# T-2006794

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

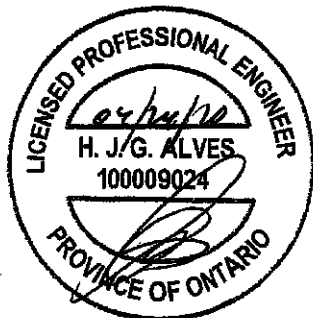
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PLATES (table is in inches)

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

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



Structural component only
DWG# T-2006795 42

CONTINUED ON PAGE 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

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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	TMWW-I	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	6.0	2.00	2.00
E	TMW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	1.75	2.25
G	TMWW-I	MT20	5.0	6.0	2.50	1.25
H	TMWW-I	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-I	MT20	6.0	9.0		
M	BS-t	MT20	5.0	6.0		
N	BMWWW-I	MT20	5.0	8.0		
O	BMWW-I	MT20	5.0	6.0		
P	BMWW-I	MT20	5.0	6.0		
Q	BMV1-p	MT20	3.0	6.0		

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

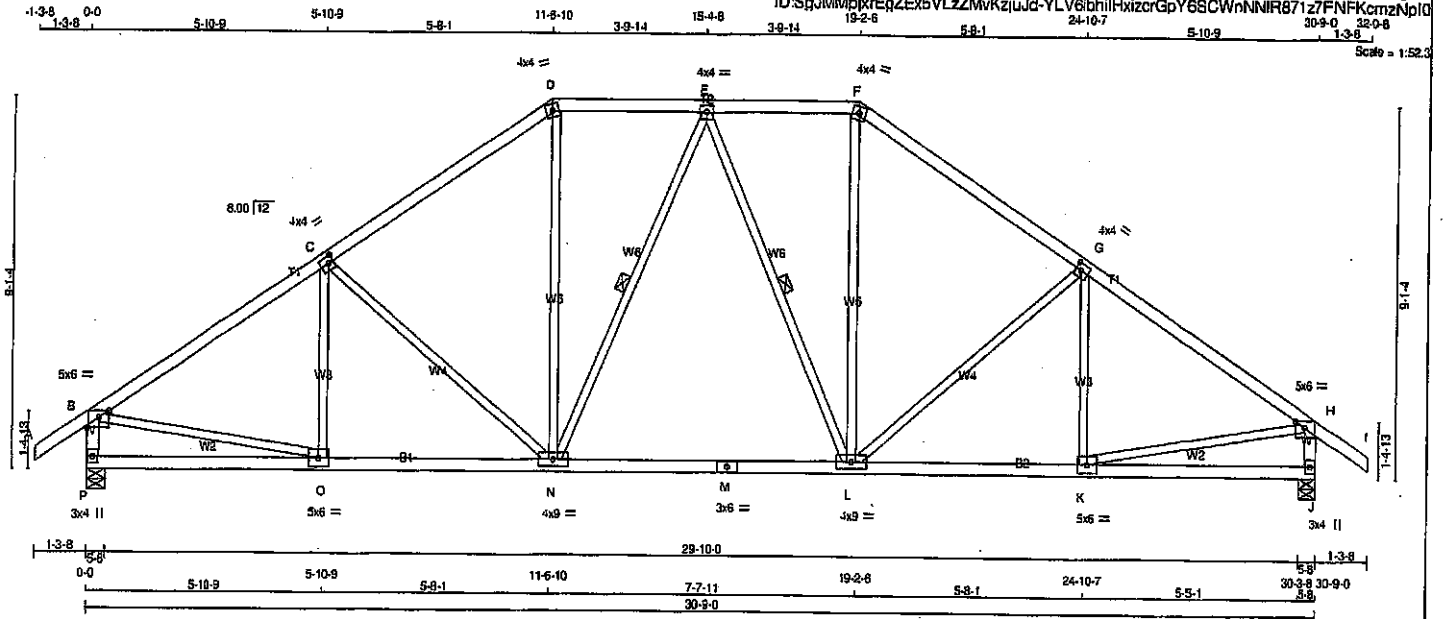


Structural component only
DWG# T-2006796 42

JOB NAME 408264	TRUSS NAME T26	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 139 lb
(M.F.)

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	UPLIFT		
P	1821	0	1821	0	5-8	5-8
J	1821	0	1821	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	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) 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)

MEMB.	FR-TO	CHORDS		MAX. UNBRACED LENGTH	MEMB.	WEBS	
		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)			MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	C-C	-201 / 23	0.08 (1)
B-C	-2002 / 0	-91.8	-91.8 0.48 (1)	4.29	C-N	-397 / 0	0.47 (1)
C-D	-1713 / 0	-91.8	-91.8 0.45 (1)	4.60	N-D	0 / 596	0.13 (1)
D-E	-1401 / 0	-91.8	-91.8 0.18 (1)	5.33	N-E	-226 / 0	0.15 (1)
E-F	-1401 / 0	-91.8	-91.8 0.18 (1)	5.33	E-L	-226 / 0	0.15 (1)
F-G	-1713 / 0	-91.8	-91.8 0.45 (1)	4.60	L-F	0 / 596	0.13 (1)
G-H	-2002 / 0	-91.8	-91.8 0.48 (1)	4.29	L-G	-397 / 0	0.47 (1)
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	K-G	-201 / 23	0.08 (1)
P-B	-1774 / 0	0.0	0.0 0.18 (1)	6.27	B-O	0 / 1723	0.39 (1)
J-H	-1774 / 0	0.0	0.0 0.18 (1)	6.27	K-H	0 / 1723	0.39 (1)
P-O	0 / 0	-18.5	-18.5 0.13 (4)	10.00			
O-N	0 / 1694	-18.5	-18.5 0.37 (1)	10.00			
N-M	0 / 1488	-18.5	-18.5 0.34 (1)	10.00			
M-L	0 / 1488	-18.5	-18.5 0.34 (1)	10.00			
L-K	0 / 1694	-18.5	-18.5 0.37 (1)	10.00			
K-J	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	= 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 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 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (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), WS=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

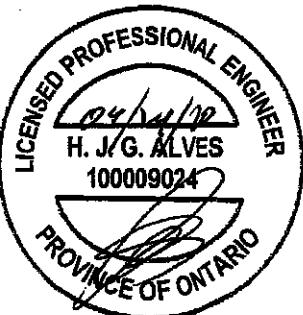
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

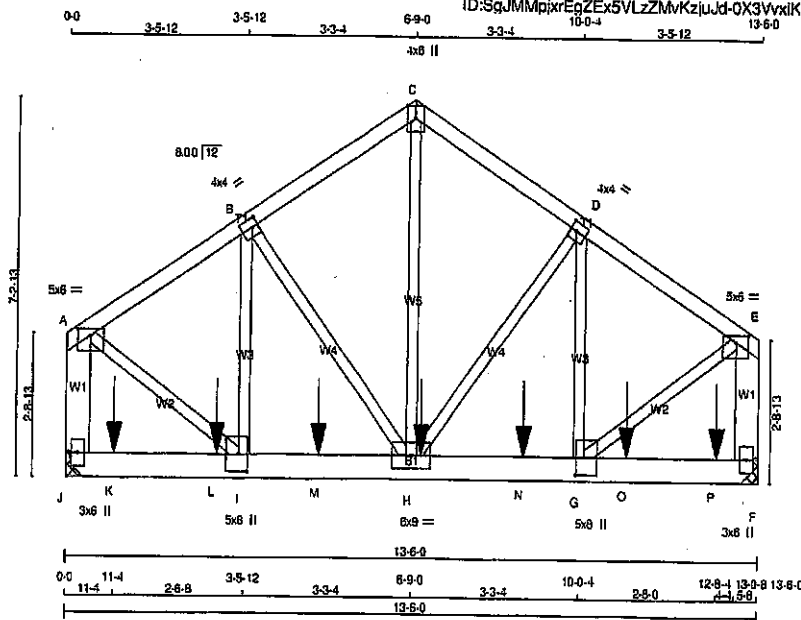
JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.58 (M) (INPUT = 1.00)



Structural component only
DWG# T-2006797

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

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

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
J - A	2x6	DRY	No.2	SPF
F - E	2x6	DRY	No.2	SPF
J - F	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 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	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	6.0	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	5605	5605	0	0
JT HORZ	0	0	0	0
F VERT	5789	5789	0	0
F HORZ	0	0	0	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

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	2631.0	0.0	PERM LIVE WIND DEAD SOIL
J	3958	2631.0	0.0 0.0 0.0 0.0 1327.0 0.0
F	4088	2717.0	0.0 0.0 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 HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-3952.0	-91.8 -91.8 0.14 (1)	4.66	H-C	0.73535	0.44 (1)	
B-C	-3431.0	-91.8 -91.8 0.11 (1)	4.96	H-D	-788.0	0.21 (1)	
C-D	-3431.0	-91.8 -91.8 0.11 (1)	4.96	G-D	0.594	0.07 (1)	
D-E	-3952.0	-91.8 -91.8 0.14 (1)	4.66	B-H	-787.0	0.21 (1)	
J-A	-4548.0	0.0 0.0 0.22 (1)	6.76	I-B	0.595	0.07 (1)	
F-E	-4548.0	0.0 0.0 0.22 (1)	6.76	A-I	0.73989	0.49 (1)	
				G-E	0.3968	0.49 (1)	
J-K	0.0	-18.5 -18.5 0.36 (1)	10.00				
K-L	0.0	-18.5 -18.5 0.36 (1)	10.00				
L-I	0.0	-18.5 -18.5 0.36 (1)	10.00				
I-M	0.3297	-18.5 -18.5 0.51 (1)	10.00				
M-H	0.3297	-18.5 -18.5 0.51 (1)	10.00				
H-N	0.3297	-18.5 -18.5 0.53 (1)	10.00				
N-G	0.3297	-18.5 -18.5 0.53 (1)	10.00				
G-O	0.0	-18.5 -18.5 0.37 (1)	10.00				
O-P	0.0	-18.5 -18.5 0.37 (1)	10.00				
P-F	0.0	-18.5 -18.5 0.37 (1)	10.00				

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	= 25.6 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

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

CSI: TO=0.22/1.00 (A-I:1), BC=0.53/1.00 (G-H:1), WB=0.49/1.00 (A-I:1), SSI=0.51/1.00 (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)	PLATES	W	LEN	Y	X
MT20	618	354	1667	768	1987	1668

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

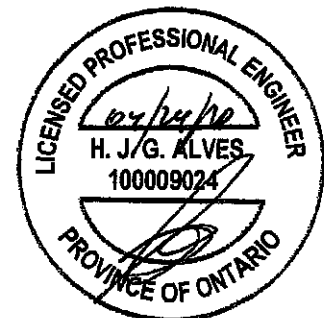
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T27	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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	8.0	1.50	3.00
F	BMV1+p	MT20	3.0	6.0		
G	BMWW-H	MT20	5.0	8.0	4.00	2.00
H	BMWWW-t	MT20	6.0	9.0		
I	BMWW-H	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 4/2

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Scale: 3/8" = 1'-0"

Structural drawing of a roof truss system. The drawing shows a truss with various members labeled (T1, T2, W1, W2, W3, W4) and supports (A, B, C, D, E, F, G, H, J, K, L). Dimensions are provided for spans and heights. A scale of 3/8" = 1'-0" is indicated.

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	ITVW+m	MT20	5.0	6.0	2.00 1.50
C	TW-m	MT20	4.0	4.0	
D	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BWV1+p	MT20	3.0	4.0	
F	BMWVW-t	MT20	4.0	9.0	
G	BMWV-t	MT20	4.0	6.0	
H	BMV1+p	MT20	3.0	4.0	

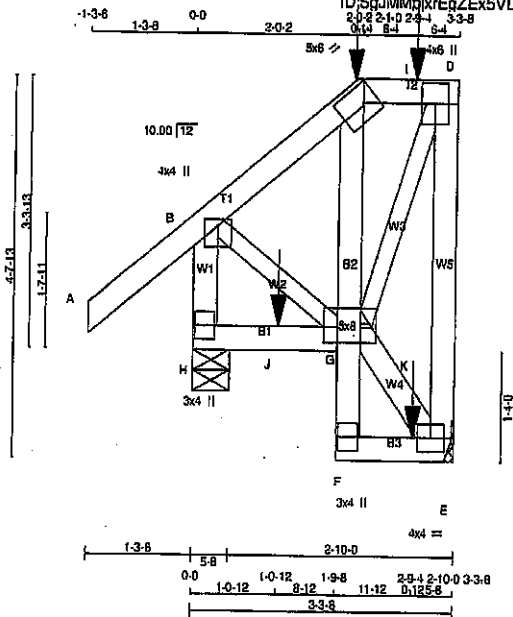
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	8-11-4	-163	-163	---	FRONT	VERT	TOTAL	---	C1
J	2-11-4	-253	-253	---	FRONT	VERT	TOTAL	---	C1
K	4-11-4	-163	-163	---	FRONT	VERT	TOTAL	---	C1
J	6-11-4	-163	-163	---	FRONT	VERT	TOTAL	---	C1
L	10-6-12	-253	-253	---	FRONT	VERT	TOTAL	---	C1

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T29	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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Scale = 1/25.0

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	MTVW+p	MT20	4.0	4.0	1.00 2.00
C	TTV+p	MT20	5.0	5.0	2.50 Edge
D	MTVW+p	MT20	4.0	6.0	
E	BMVW1-p	MT20	4.0	4.0	
F	BMV+p	MT20	3.0	4.0	
G	BMVWVW1-p	MT20	5.0	8.0	2.25 2.00
H	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
E	271	0	271	0
H	335	0	335	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	192	128/0	0/0	0/0	0/0	68/0	0/0
H	235	168/0	0/0	0/0	0/0	70/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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)	VERT. LOAD (PL)	MAX. FACTORED LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LOAD (LC)	
FR-TO				FR-TO			
A-B	0/41	-91.8	-91.8 0.18 (5)	G-E	-7/0	0.00 (1)	
B-C	-79/0	-91.8	-91.8 0.07 (1)	G-D	0/160	0.04 (1)	
C-I	-65/0	-90.8	-90.8 0.06 (1)	B-G	0/73	0.02 (1)	
I-D	-65/0	-90.8	-90.8 0.08 (1)				
E-D	-245/0	0.0	0.0 0.08 (1)				
H-B	-314/0	0.0	0.0 0.04 (1)				
H-J	0/0	-18.3	-18.3 0.03 (4)				
J-G	0/0	-18.3	-18.3 0.03 (4)				
F-G	0/20	0.0	0.0 0.01 (1)				
G-C	-151/0	0.0	0.0 0.01 (1)				
F-K	0/5	-18.3	-18.3 0.02 (4)				
K-E	0/5	-18.3	-18.3 0.02 (4)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-1-0	-19	-19	---	FRONT	VERT	TOTAL	---	C1
I	2-9-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
J	1-0-12	-9	-9	---	FRONT	VERT	TOTAL	---	C1
K	2-9-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 27 = 54 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

*** NON STANDARD GIRDER ***

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 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(56 % 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 (0.18")
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.18")
CALCULATED VERT. DEFL.(TL) = L/959 (0.00")

CSI: TC=0.18/1.00 (A-B:5), BC=0.03/1.00 (G-H:4), WB=0.04/1.00 (D-G:1), SS=0.11/1.00 (A-B:5)

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
(PS)	(PL)	(PL)	
MAX MIN	MAX MIN	MAX MIN	
MT20	818	354	1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

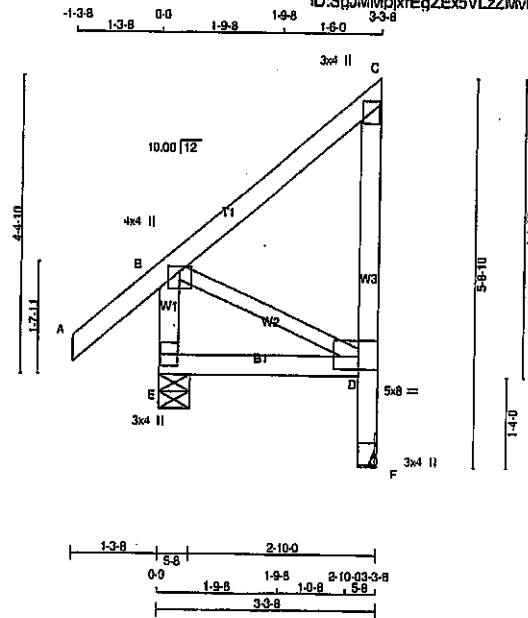


Structural component only
DWG# T-2006800

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

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Scale = 1:31.4

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF	
A - C	2x4	DRY	No.2	SPF	
F - C	2x4	DRY	No.2	SPF	
E - D	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	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	15.250	0.25
E	BMV1+p	MT20	3.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED	MAXIMUM FACTORED	INPUT	REQD					
JT	GROSS REACTION	GROSS REACTION	BRG	BRG					
E	309	0	309	0	0	5-8	5-8		
F	181	0	181	0	0	MECHANICAL			

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

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	216	155 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0
F	128	84 / 0	0 / 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
E-B	-278 / 0	0.0	0.0 0.03 (1)	7.81	B-D	0 / 0	0.00 (1)
A-B	0 / 41	-91.8	-91.8 0.14 (5)	10.00			
B-C	0 / 0	-91.8	-91.8 0.17 (1)	10.00			
F-D	-181 / 0	0.0	0.0 0.02 (1)	7.81			
D-C	-151 / 0	0.0	0.0 0.05 (1)	7.81			
E-D	0 / 0	-18.5	-18.5 0.08 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 20 = 61 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 2019, 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) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/989$ (0.01")

CSI: TC=0.17/1.00 (B-C:1), BC=0.06/1.00 (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 (PSI)	SECTION (PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1987 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006801

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

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ID:ScJMMpjrEpZE5VLzZMvKziUd-NUIOvemT17hrXJQ9pDsRn0P19QIXhs0eJleoQzNpHw

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	6.0		
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	6.0		
M	BMWW-t	MT20	5.0	8.0	2.50	2.00
N	BMWW-t	MT20	5.0	6.0		
O	BMWWW+t	MT20	7.0	8.0	4.25	2.00
P	BS-t	MT20	5.0	6.0		
Q	BMWWW+t	MT20	7.0	8.0	4.25	2.50
R	BMWW-t	MT20	5.0	6.0		
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.

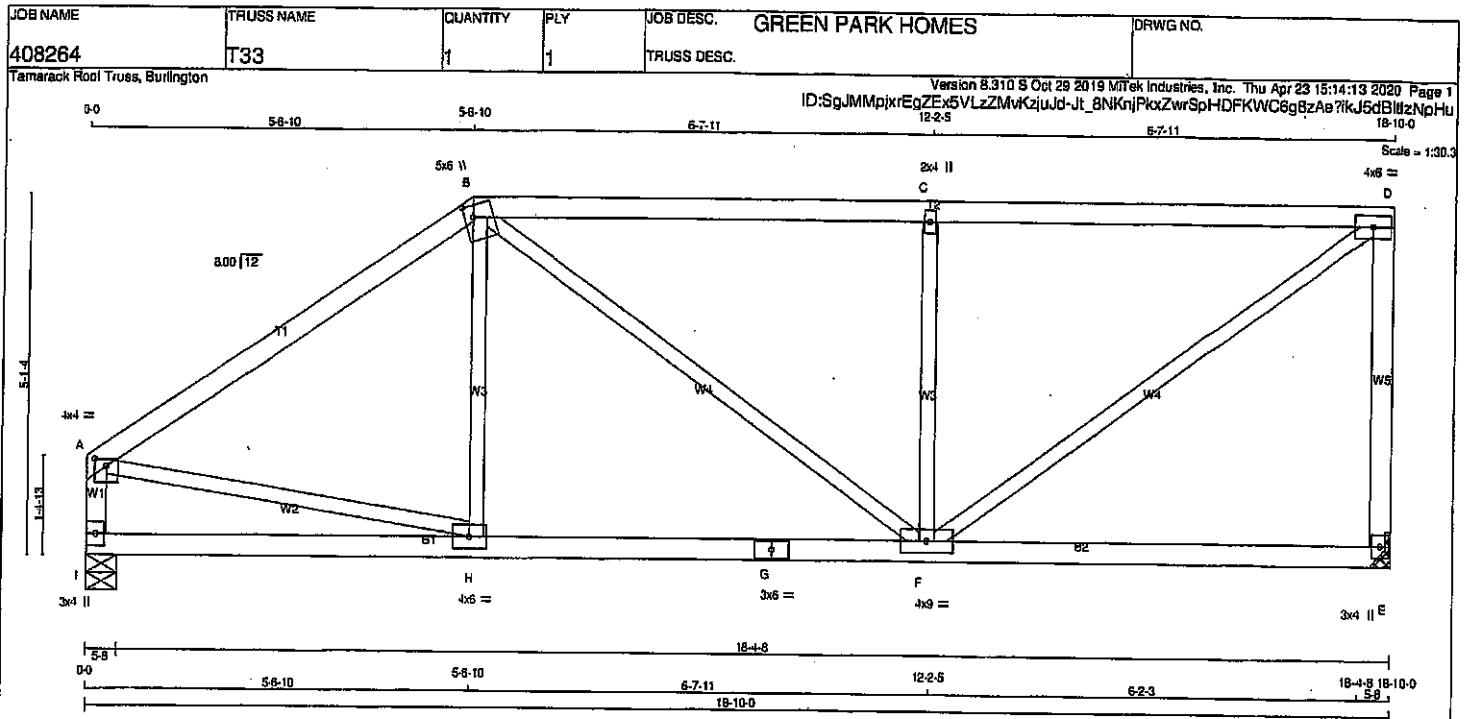
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2006802 4/2

Structural component only
DWG# T-2006803



LUMBER

N. L. G. A. RULES

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

EXCEPT

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - TMVW-p	MT20	4.0	4.0	1.25	2.00
B - TTWW-m	MT20	5.0	6.0	2.00	1.50
C - TMW-w	MT20	2.0	4.0		
D - TMVW-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 - BMWV-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

FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
E 1038 0	1038 0	0	MECHANICAL
I 1038 0	1038 0	0	5-8

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

<u>UNFACTORED REACTIONS</u>							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	734	482 / 0	0 / 0	0 / 0	0 / 0	252 / 0	0 / 0
I	734	482 / 0	0 / 0	0 / 0	0 / 0	252 / 0	0 / 0

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

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)

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	DL	PSF
	25.6	5.0	
BOT CH.	LL	DL	PSF
	0.0	7.4	
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 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.63")

CALCULATED VERT. DEFL.(LL) = L/999 (0.03")

ALLOWABLE DEFL.(TL) = L/360 (0.63")

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)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	PLI
MAX	MIN	MAX	MIN
MT20	618	354	1667
	788	1987	1666

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)

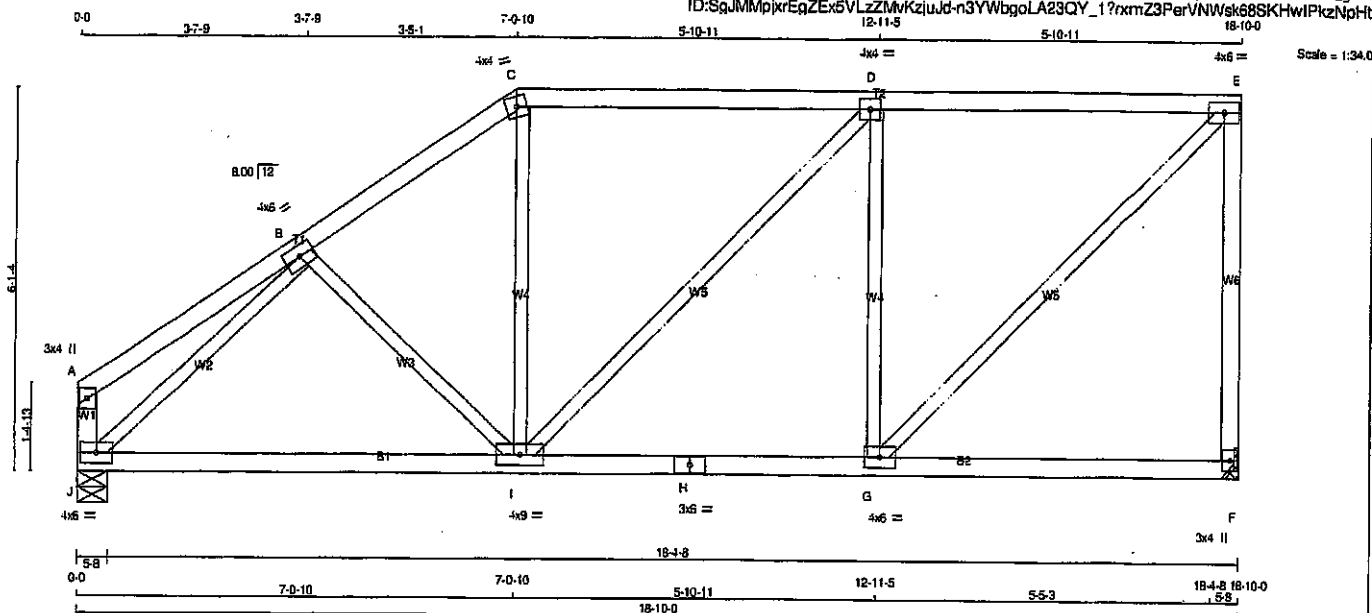


Structural component only
DWG# T-2006804

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

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TOTAL WEIGHT = 81 lb

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		
F - E	2x4	DRY	No.2	SPF		
J - A	2x4	DRY	No.2	SPF		
J - H	2x4	DRY	No.2	SPF		
H - F	2x4	DRY	No.2	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
EXCEPT						

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMV-p	MT20	3.0	4.0		
B	TMWV-1	MT20	4.0	6.0		
C	TTW-m	MT20	4.0	4.0		
D	TMWV-1	MT20	4.0	4.0		
E	TMWV-1	MT20	4.0	6.0		
F	BMV1-p	MT20	3.0	4.0		
G	BMWV-1	MT20	4.0	6.0		
H	BS-1	MT20	3.0	6.0		
I	BMWVW-1	MT20	4.0	9.0		
J	BMVW1-1	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	HORZ	DOWN	UPLIFT
F	1038	0	1038	0
J	1038	0	1038	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	734	482 / 0	0 / 0	0 / 0	0 / 0	252 / 0	0 / 0
J	734	482 / 0	0 / 0	0 / 0	0 / 0	252 / 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 = 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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 / 20	-91.8 -91.8 0.17 (1)	B-I	-109 / 11
B-C	-984 / 0	-91.8 -91.8 0.19 (1)	I-C	0 / 207
C-D	-805 / 0	-91.8 -91.8 0.57 (1)	D	0 / 24
D-E	-801 / 0	-91.8 -91.8 0.57 (1)	G-D	-674 / 0
E-F	-992 / 0	0.0 0.0 0.72 (1)	G-E	0 / 1122
J-A	-126 / 0	0.0 0.0 0.01 (1)	J-B	-1229 / 0
J-I	0 / 881	-18.5 -18.5 0.27 (4)		
I-H	0 / 801	-18.5 -18.5 0.27 (4)		
H-G	0 / 801	-18.5 -18.5 0.27 (4)		
G-F	0 / 0	-18.5 -18.5 0.13 (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. CG

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 (0.63")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

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

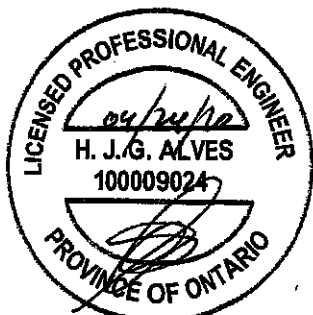
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

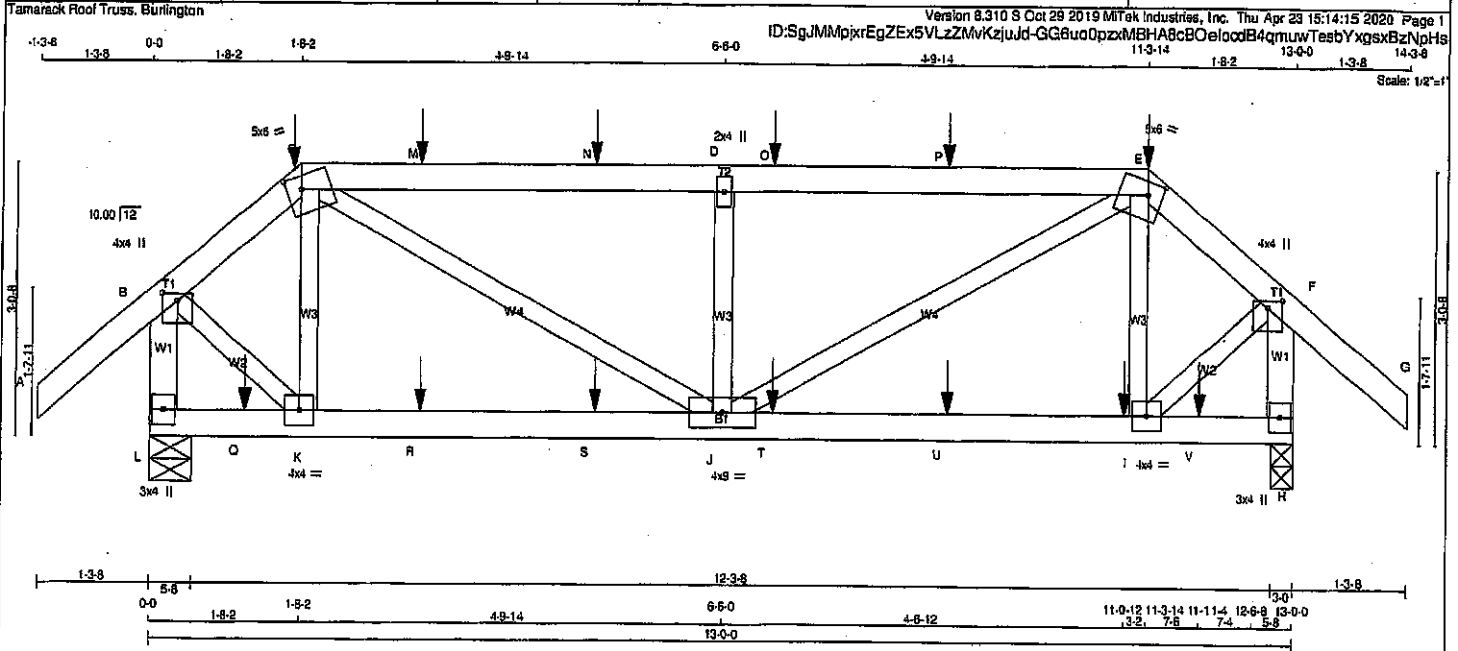
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006805

JOB NAME 408264	TRUSS NAME T35	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			



LUMBER N. L. G. A. RULES **DESIGN CRITERIA**

CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
A - C	2x4	DRY	No.2	SPF		JT	GROSS REACTION	GROSS REACTION	BRG	BRG
C - E	2x4	DRY	No.2	SPF		L	VERT	DOWN	IN-SX	IN-SX
E - G	2x4	DRY	No.2	SPF		H	977 0	977 0	5-8	5-8
G - I	2x4	DRY	No.2	SPF		H	993 0	993 0	3-0	3-0
I - K	2x4	DRY	No.2	SPF						
K - L	2x4	DRY	No.2	SPF						
L - H	2x4	DRY	No.2	SPF						

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTWW+m	MT20	5.0	6.0	1.75	2.00
D	TMVW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	1.75	2.00
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
H	BMV1+p	MT20	3.0	4.0		
I	BMVW+t	MT20	4.0	4.0		
J	BMVW+t	MT20	4.0	9.0		
K	BMVW+t	MT20	4.0	4.0		
L	BMV1+p	MT20	3.0	4.0		

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

MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. FACTORED (LBS)	MAX. UNBRAC (LBS)	MAX. FACTORED (LBS)	MAX. UNBRAC (LBS)
FR-TO						
A-B	0 / 41	-91.8	-91.8 0.14 (1)	10.00	K-C	-237 / 0
B-C	-635 / 0	-91.8	-91.8 0.14 (1)	8.25	C-J	0 / 755
C-M	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	J-D	-842 / 0
M-N	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	E-E	0 / 744
N-D	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	I-E	-243 / 0
D-O	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	B-K	0 / 588
O-P	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	I-F	0 / 588
P-E	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27		
E-F	-647 / 0	-91.8	-91.8 0.14 (1)	6.25		
F-G	0 / 41	-91.8	-91.8 0.14 (1)	10.00		
L-B	-980 / 0	0.0	0.0 0.11 (1)	7.81		
H-F	-998 / 0	0.0	0.0 0.12 (1)	7.80		

UNFACTORED REACTIONS
1ST CASE
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
L 699 494 / 0 0 / 0 0 / 0 225 0 0 / 0
H 701 470 / 0 0 / 0 0 / 0 231 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, H
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.27 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.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. FACTORED (LBS)	MAX. UNBRAC (LBS)	MAX. FACTORED (LBS)	MAX. UNBRAC (LBS)
FR-TO						
A-B	0 / 41	-91.8	-91.8 0.14 (1)	10.00	K-C	-237 / 0
B-C	-635 / 0	-91.8	-91.8 0.14 (1)	8.25	C-J	0 / 755
C-M	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	J-D	-842 / 0
M-N	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	E-E	0 / 744
N-D	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	I-E	-243 / 0
D-O	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	B-K	0 / 588
O-P	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27	I-F	0 / 588
P-E	-1107 / 0	-99.4	-99.4 0.49 (1)	5.27		
E-F	-647 / 0	-91.8	-91.8 0.14 (1)	6.25		
F-G	0 / 41	-91.8	-91.8 0.14 (1)	10.00		
L-B	-980 / 0	0.0	0.0 0.11 (1)	7.81		
H-F	-998 / 0	0.0	0.0 0.12 (1)	7.80		
L-Q	0 / 0	-20.0	-20.0 0.08 (4)	10.00		
Q-K	0 / 0	-20.0	-20.0 0.08 (4)	10.00		
K-R	0 / 450	-20.0	-20.0 0.15 (4)	10.00		
R-S	0 / 450	-20.0	-20.0 0.15 (4)	10.00		
S-J	0 / 450	-20.0	-20.0 0.15 (4)	10.00		
J-T	0 / 459	-20.0	-20.0 0.15 (4)	10.00		
T-U	0 / 459	-20.0	-20.0 0.15 (4)	10.00		
U-I	0 / 459	-20.0	-20.0 0.15 (4)	10.00		
I-V	0 / 0	-20.0	-20.0 0.08 (4)	10.00		
V-H	0 / 0	-20.0	-20.0 0.08 (4)	10.00		

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	11-3-14	-25	-25	---	FRONT	VERT	TOTAL	---	C1
E	11-3-14	-27	-27	---	BACK	VERT	TOTAL	---	C1
I	11-0-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
M	3-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
N	5-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
O	7-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
P	9-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
Q	1-0-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
R	3-0-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
S	5-0-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
T	7-0-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
U	9-0-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
V	11-11-4	-4	-4	---	BACK	VERT	TOTAL	---	C1



Structural component only
DWG# T-2006806

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

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

*** NON STANDARD GIRDER ***
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 8 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 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/999 (0.04")

CSI: TC=0.49/1.00 (C-D:1), BC=0.15/1.00 (I-J:4),
WB=0.19/1.00 (C-J:1), SI=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

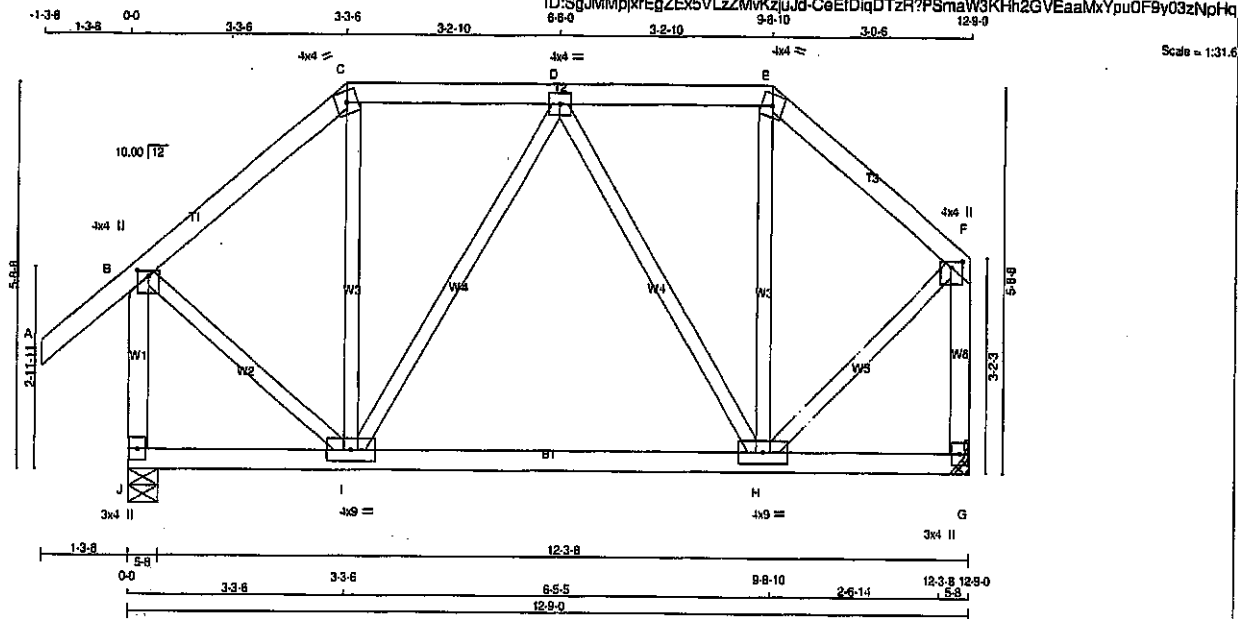
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.78 (E) (INPUT = 0.90)
JSI METAL = 0.21 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T36	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 64 lb

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
EXCEPT

DRY: SEASONED LUMBER.

PLATES (Tables in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	4.0	4.0	1.00	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMW-w	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMW+p	MT20	4.0	4.0	1.00	2.00
G	BMV1-p	MT20	3.0	4.0		
H	BMWVW-1	MT20	4.0	9.0		
I	BMWVW-1	MT20	4.0	9.0		
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	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
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 CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
J	595 387.0 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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PL)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	0.41	-91.8 -91.8 0.13 (1)	I-C	0.51
B-C	-432.0	-91.8 -91.8 0.17 (1)	I-D	-192.0
C-D	-330.0	-91.8 -91.8 0.16 (1)	D-H	-224.0
D-E	-314.0	-91.8 -91.8 0.16 (1)	H-E	0.48
E-F	-411.0	-91.8 -91.8 0.15 (1)	B-I	0.419
J-B	-813.0	0.0 0.0 0.13 (1)	I-F	0.425
G-F	-689.0	0.0 0.0 0.12 (1)		
J-I	0.0	-18.5 -18.5 0.12 (4)		
I-H	0.427	-18.5 -18.5 0.15 (4)		
H-G	0.0	-18.5 -18.5 0.12 (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 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 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.171/1.00 (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 (PL)	SECTION (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.

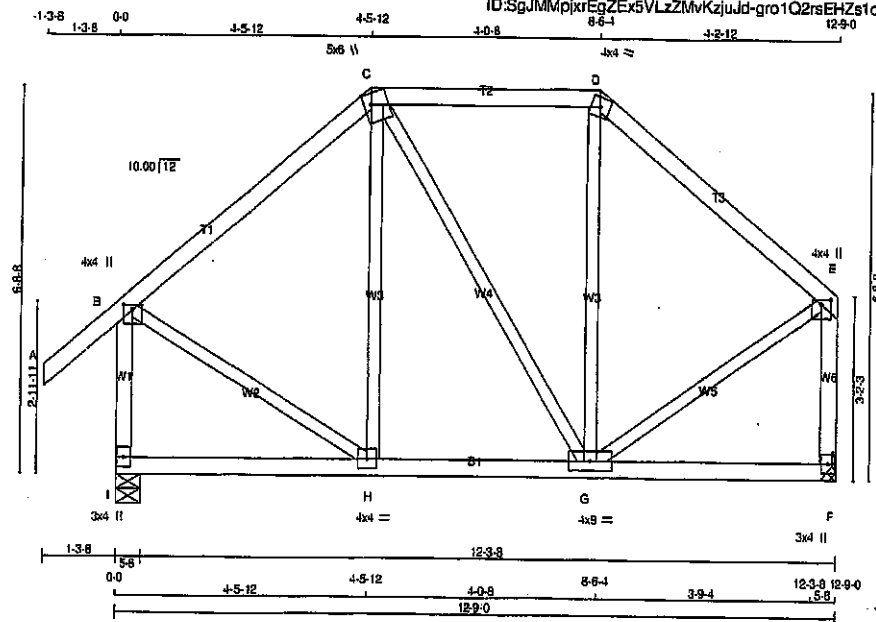
JSI GRIP = 0.58 (B) (INPUT = 0.90)
JSI METAL = 0.17 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006807

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

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ID: SgJMMpJrEgZE5VLzZMvKzjUld-gr01Q2rsEHZstcLm4nrVDFply_xGg0A2FvuWYwZnpHp



Scale = 1:37.0

TOTAL WEIGHT = 84 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER
A - C	2x4	DRY	No.2		
C - D	2x4	DRY	No.2		
D - E	2x4	DRY	No.2		
E - F	2x4	DRY	No.2		
F - G	2x4	DRY	No.2		
G - H	2x4	DRY	No.2		
H - I	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	BMWWW-t	MT20	4.0	8.0		
H	BMWW-t	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 LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	585	397 / 0	0 / 0	0 / 0	0 / 0	187 / 0	0 / 0
F	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) 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	FR-TO		
A-B	0 / 41	-91.8 -91.8 0.13 (1)	10.00	H-C	-102 / 30
B-C	-426 / 0	-91.8 -91.8 0.24 (1)	6.25	C-G	-18 / 0
C-D	-316 / 0	-91.8 -91.8 0.19 (1)	6.25	G-D	-113 / 24
D-E	-415 / 0	-91.8 -91.8 0.21 (1)	6.25	B-H	0 / 377
E-F	-795 / 0	0.0 0.0 0.13 (1)	7.81	G-E	0 / 380
F-E	-869 / 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		

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, 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 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 25.8 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")

CSK: TC=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)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.62 (B) (INPUT = 0.90)
JSI METAL= 0.17 (B) (INPUT = 1.00)



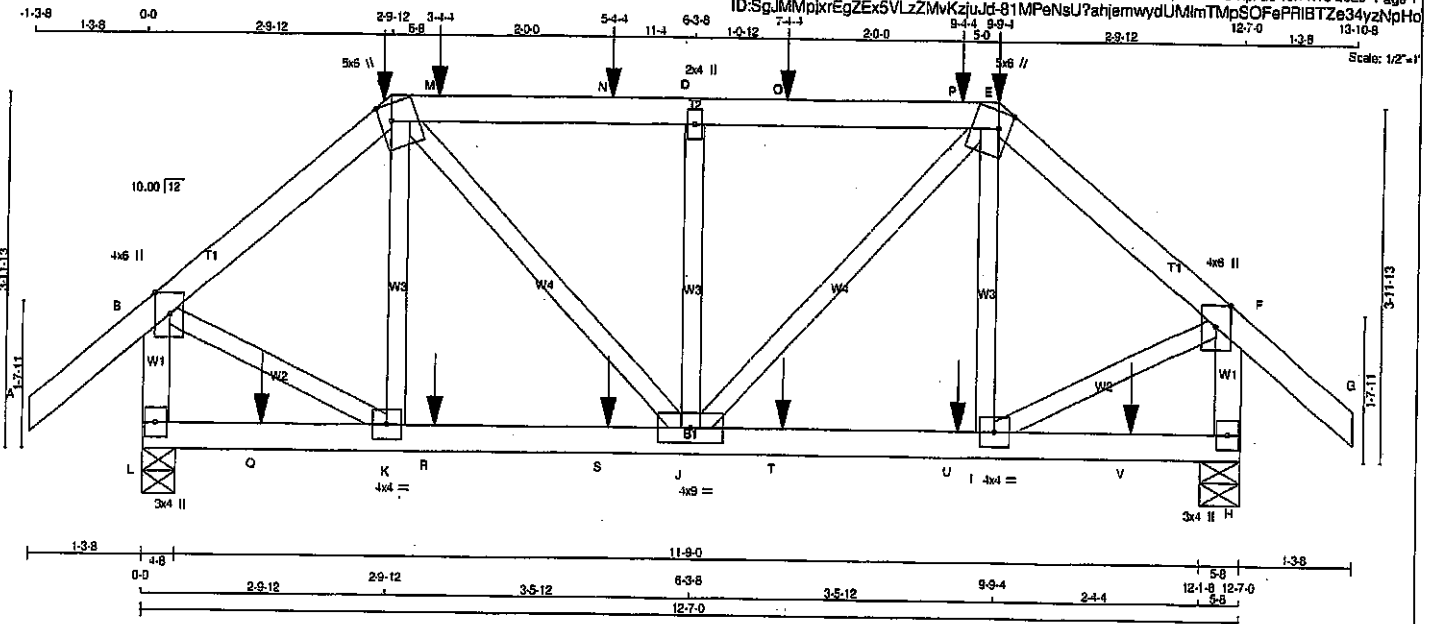
Structural component only
DWG# T-2006808

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	T38	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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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 - G	2x4	DRY	No.2	SPF
L - F	2x4	DRY	No.2	SPF
L - H	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	4.0	6.0	Edge	
C	TTWW+m	MT20	5.0	8.0	2.25	1.50
D	TMW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	2.25	1.50
F	TMW+p	MT20	4.0	6.0	Edge	
H	BMV1+p	MT20	3.0	4.0		
I	BMVW-1	MT20	4.0	4.0		
J	BMVWW-1	MT20	4.0	8.0		
K	BMVW-1	MT20	4.0	4.0		
L	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	RECORD BRG
JT	VERT	DOWN	UP	IN-SX
L	1190	0	0	4-8
H	1198	0	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	838	570.0	0.0	0.0	0.0	269.0	0.0
H	843	574.0	0.0	0.0	0.0	269.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.76 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LO1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0.141	-91.8	-91.8	0.14 (1)	10.00	K-C	-218.1	0.06 (1)	
B-C	-920.0	-91.8	-91.8	0.15 (1)	6.53	C-J	0.453	0.11 (1)	
C-M	-1009.0	-91.8	-91.8	0.32 (1)	5.76	J-D	-573.0	0.15 (1)	
M-N	-1009.0	-91.8	-91.8	0.32 (1)	5.76	J-E	0.445	0.11 (1)	
N-D	-1009.0	-91.8	-91.8	0.32 (1)	5.76	I-E	-220.0	0.06 (1)	
D-O	-1009.0	-91.8	-91.8	0.32 (1)	5.78	B-K	0.772	0.18 (1)	
O-P	-1009.0	-91.8	-91.8	0.32 (1)	5.78	I-F	0.777	0.19 (1)	
P-E	-1009.0	-91.8	-91.8	0.32 (1)	5.78				
E-F	-927.0	-91.8	-91.8	0.15 (1)	6.22				
F-G	0.41	-91.8	-91.8	0.14 (1)	10.00				
L-B	-1184.0	0.0	0.0	0.14 (1)	7.35				
H-F	-1170.0	0.0	0.0	0.14 (1)	7.34				
L-Q	0.0	-18.5	-18.5	0.07 (4)	10.00				
Q-K	0.0	-18.5	-18.5	0.07 (4)	10.00				
K-R	0.698	-18.5	-18.5	0.15 (1)	10.00				
R-S	0.698	-18.5	-18.5	0.16 (1)	10.00				
S-J	0.698	-18.5	-18.5	0.16 (1)	10.00				
J-T	0.703	-18.5	-18.5	0.16 (1)	10.00				
T-U	0.703	-18.5	-18.5	0.16 (1)	10.00				
U-I	0.703	-18.5	-18.5	0.16 (1)	10.00				
I-V	0.0	-18.5	-18.5	0.07 (4)	10.00				
V-H	0.0	-18.5	-18.5	0.07 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-9-12	-25	-28	---	FRONT	VERT	DEAD	---	C1
C	2-9-12	-105	-105	---	FRONT	VERT	SNOW	---	C1
E	9-9-4	-25	-28	---	FRONT	VERT	DEAD	---	C1
E	9-9-4	-105	-105	---	FRONT	VERT	SNOW	---	C1
M	3-4-4	-107	-107	---	FRONT	VERT	TOTAL	---	C1
N	5-4-4	-96	-98	---	FRONT	VERT	TOTAL	---	C1
O	7-4-4	-88	-88	---	FRONT	VERT	TOTAL	---	C1
P	9-4-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
Q	1-4-4	-16	-16	---	FRONT	VERT	TOTAL	---	C1
R	3-4-4	-16	-16	---	FRONT	VERT	TOTAL	---	C1
S	5-4-4	-16	-16	---	FRONT	VERT	TOTAL	---	C1
T	7-4-4	-16	-16	---	FRONT	VERT	TOTAL	---	C1
U	9-4-4	-16	-16	---	FRONT	VERT	TOTAL	---	C1
V	11-4-4	-16	-16	---	FRONT	VERT	TOTAL	---	C1

TOTAL WEIGHT = 2 X 56 = 116 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	= 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

*** 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF CBC 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 (0.42")

CALCULATED VERT. DEFL.(LL) = L/999 (0.02")

ALLOWABLE DEFL.(TL) = L/360 (0.42")

CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.32(1.00) (D-E:1), BC=0.16(1.00) (J-K:1), WB=0.19(1.00) (F-I:1), SS=0.25(1.00) (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (I) (INPUT = 0.90)
JSI METAL = 0.45 (B) (INPUT = 1.00)

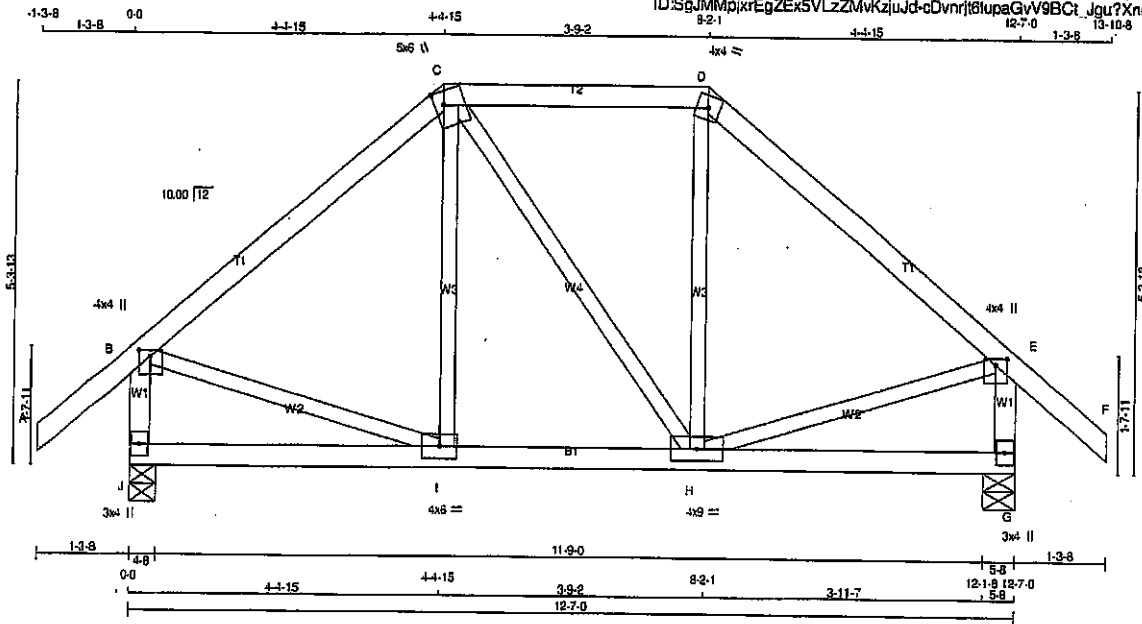
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Structural component only
DWG# T-2006809

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	T39	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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12-7-0 12-7-0 13-10-8
Scale = 1:29.7



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

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	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	BMWWW-t	MT20	4.0	9.0
I	BMWW-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	RECORD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
J	821	0	821	0	0
G	821	0	821	0	0

UNFACTORED REACTIONS		1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
J	578	393 / 0	0 / 0
G	578	393 / 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		MAX. FACTORED	FACTORED	MEMB.	FORCE	MAX. FACTORED	WEBS	MAX. FACTORED	MEMB.	FORCE	MAX. FACTORED
FR-TO	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	FORCE (LBS)	MAX. CSI (LC)
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	-403 / 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 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 (0.42")
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), SI=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

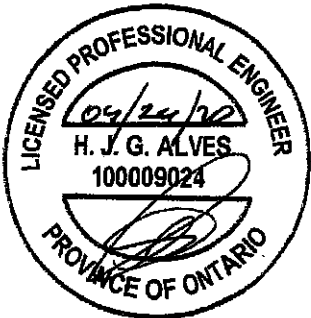
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

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)

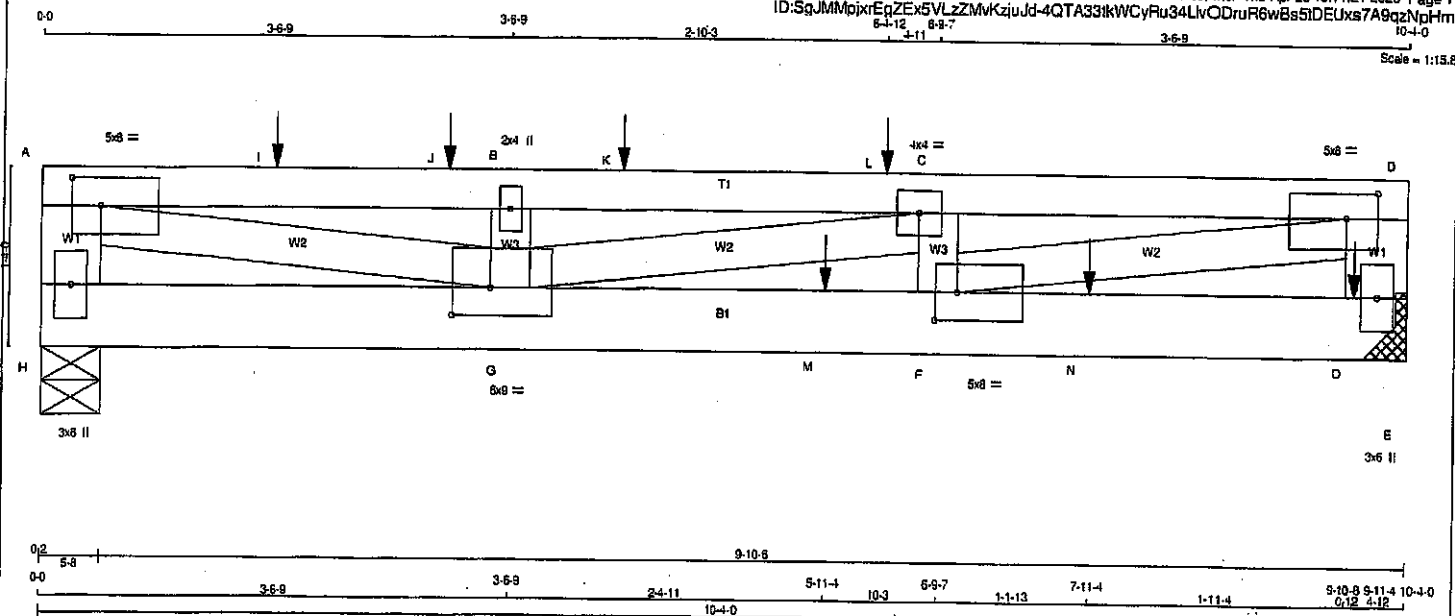


Structural component only
DWG# T-2006810

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

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LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
H - A	2x4	DRY	No.2	SPF	
A - D	2x4	DRY	No.2	SPF	
E - D	2x4	DRY	No.2	SPF	
H - E	2x4	DRY	No.2	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 in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	8.0	2.50	2.75
B	TMVW-1	MT20	2.0	4.0		
C	TMVW-1	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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
H	3832	0	5-8	5-8
E	5088	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	2706	1799	0	0	0	907	0
E	3578	2384	0	0	0	1194	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	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	FORCE	MAX
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	FORCE	MAX	MAX
FR-TO	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	(LBS)	CSI (LC)		
H-A	-3454	0	0.0	0.0	0.07 (1)	7.81	F-D	0	13174	0.71 (1)
A-I	-10970	0	-91.8	-91.8	0.51 (1)	3.18	A-G	0	11363	0.61 (1)
I-J	-10970	0	-91.8	-91.8	0.51 (1)	3.18	F-C	-785	0	0.08 (1)
J-B	-10970	0	-91.8	-91.8	0.51 (1)	3.18	G-B	-2277	0	0.08 (1)
B-K	-10970	0	-91.8	-91.8	0.39 (1)	3.33	G-C	-1823	0	0.09 (1)
K-L	-10970	0	-91.8	-91.8	0.39 (1)	3.33				
L-C	-10970	0	-91.8	-91.8	0.39 (1)	3.33				
C-D	-12719	0	-91.8	-91.8	0.30 (1)	3.23				
E-D	-3617	0	0.0	0.0	0.08 (1)	7.81				
H-G	0	0	-18.5	-18.5	0.15 (1)	10.00				
G-M	0	12719	-18.5	-18.5	0.46 (1)	10.00				
M-F	0	12719	-18.5	-18.5	0.46 (1)	10.00				
F-N	0	0	-18.5	-18.5	0.17 (1)	10.00				
N-O	0	0	-18.5	-18.5	0.17 (1)	10.00				
O-E	0	0	-18.5	-18.5	0.17 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
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	= 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, 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 (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")

CS: 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)	(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= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.79 (D) (INPUT = 1.00)



Structural component only
DWG# T-2006811 1/2

CONTINUED ON PAGE 2

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

Tamarack Roof Truss, Burlington

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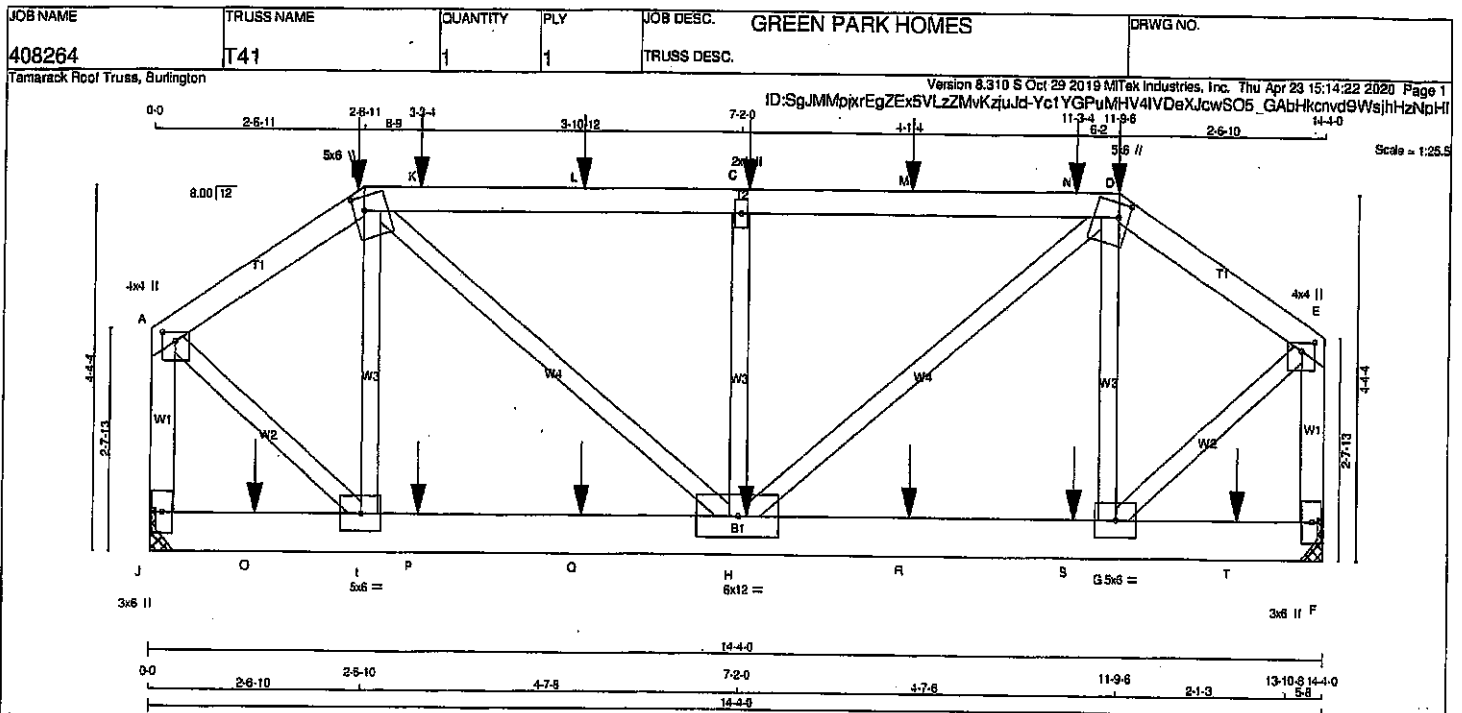
PLATES (table in inches)

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



Structural component only
DWG# T-2006811

7/2



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - B 2x4 DRY No.2

B - C 2x4 DRY No.2

D - E 2x4 DRY No.2

J - A 2x4 DRY No.2

F - E 2x4 DRY No.2

J - F 2x6 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT TYPE PLATES W LEN Y X

A TMVW+p MT20 4.0 4.0 1.25 2.00

B TMVW+m MT20 5.0 6.0 2.00 1.50

C TMVW+w MT20 2.0 4.0

D TMVW+m MT20 5.0 6.0 2.00 1.50

E TMVW+p MT20 4.0 4.0 1.25 2.00

F BMV1+p MT20 3.0 6.0

G BMVW-t MT20 5.0 6.0

H BMVW-t MT20 6.0 12.0

I BMVW-t 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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
J	1200	0	1200	0
F	1212	0	1212	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J, F. MINIMUM BEARING LENGTH AT JOINT J = 3'-6", JOINT F = 3'-8".

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
J	847	562 / 0	0 / 0	0 / 0	0 / 0	286 / 0	0 / 0	
F	858	568 / 0	0 / 0	0 / 0	0 / 0	286 / 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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO	FROM	TO	FROM	TO	FR-TO	FROM	TO	FROM	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 / 663	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 / 654	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)	6.25				
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 / 692	-18.5	-18.5	0.14 (1)	10.00				
P-Q	0 / 692	-18.5	-18.5	0.14 (1)	10.00				
Q-H	0 / 692	-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.	LOC	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
2-6-11	-20	-22	---	---	FRONT	VERT	DEAD	---	C1
2-6-11	-102	-102	---	---	FRONT	VERT	SNOW	---	C1
7-3-4	-86	-86	---	---	FRONT	VERT	TOTAL	---	C1
11-9-6	-20	-22	---	---	FRONT	VERT	DEAD	---	C1
11-9-6	-102	-102	---	---	FRONT	VERT	SNOW	---	C1
7-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1
3-3-4	-99	-99	---	---	FRONT	VERT	TOTAL	---	C1
5-3-4	-86	-86	---	---	FRONT	VERT	TOTAL	---	C1
9-3-4	-86	-86	---	---	FRONT	VERT	TOTAL	---	C1
11-3-4	-109	-109	---	---	FRONT	VERT	TOTAL	---	C1
1-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1
3-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1
5-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1
9-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1
11-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1
13-3-4	-17	-17	---	---	FRONT	VERT	TOTAL	---	C1

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 2010, NBC 2012, A8C 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-08, 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 (0.46")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.54/1.00 (C-D-1), BC=0.14/1.00 (H-I-1), WS=0.23/1.00 (E-G-1), SSI=0.30/1.00 (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

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
618	354	1867
788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

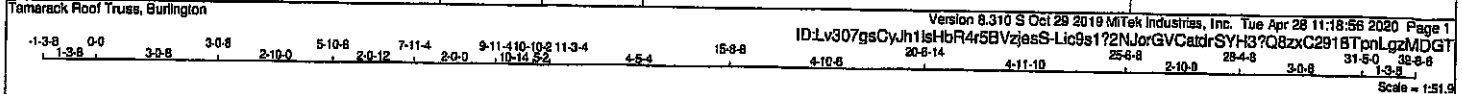
JSI GRIP= 0.84 (A) (INPUT = 0.90)
JSI METAL= 0.24 (A) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2006812

JOB NAME 408265	TRUSS NAME T61	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Tue Apr 28 11:38:56 2020 Page 1	



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER		DESCR
A - D	2x6	DRY	No.2	SPF
D - G	2x6	DRY	No.2	SPF
G - I	2x6	DRY	No.2	SPF
I - L	2x6	DRY	No.2	SPF
B - O	2x6	DRY	No.2	SPF
O - K	2x6	DRY	No.2	SPF
REINFORCING MEMBERS				
HW1	2x6	DRY	No.2	SPF
HW2	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	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS	SPACING (IN)	
A-D 2	12	SIDE (122.0)
D-G 2	12	SIDE (61.0)
G-I 2	12	TOP
I-L 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
B-O 2	12	SIDE (183.1)
O-K 2	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE (450.8)
E-P 1	4	
H-N 1	4	
2x6 2	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.

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
B	4103	0	0	5-8
K	2995	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD
B	2893	1949 / 0	0 / 0	0 / 0	943 / 0	0 / 0
K	2111	1425 / 0	0 / 0	0 / 0	686 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.66 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

CHORDS	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	UNBRAC	LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED	FACTORED	FORCE	MAX
FR-TO																
A-B	0 / 0	-91.8	-91.8	0.03 (1)	10.00						C-Q	0 / 999	0.12 (1)			
B-S	-4222 / 0	-91.8	-91.8	0.12 (1)	5.45						Q-D	-300 / 40	0.04 (1)			
S-C	-2496 / 0	-91.8	-91.8	0.11 (1)	6.25						D-P	0 / 4341	0.54 (1)			
C-D	-6817 / 0	-91.8	-91.8	0.12 (1)	4.56						P-E	-728 / 0	0.09 (1)			
D-V	-9618 / 0	-91.8	-91.8	0.38 (1)	3.66						N-H	-505 / 0	0.06 (1)			
V-W	-9618 / 0	-91.8	-91.8	0.38 (1)	3.66						M-I	0 / 3592	0.44 (1)			
W-X	-9618 / 0	-91.8	-91.8	0.38 (1)	3.66						N-I	-207 / 0	0.02 (1)			
X-E	-9618 / 0	-91.8	-91.8	0.38 (1)	3.66						M-J	0 / 622	0.08 (1)			
E-F	-9618 / 0	-91.8	-91.8	0.21 (1)	3.82						P-F	0 / 1455	0.18 (1)			
F-G	-7206 / 0	-91.8	-91.8	0.14 (1)	4.40						F-N	-1841 / 0	0.44 (1)			
G-H	-7206 / 0	-91.8	-91.8	0.14 (1)	4.40						R-S	0 / 2245	0.00 (1)			
H-I	-7206 / 0	-91.8	-91.8	0.22 (1)	4.33						R-C	-3899 / 0	0.23 (1)			
I-J	-4636 / 0	-91.8	-91.8	0.08 (1)	5.30						J-T	-2757 / 0	0.16 (1)			
J-U	-1793 / 0	-91.8	-91.8	0.08 (1)	6.25						T-U	0 / 1574	0.00 (1)			
U-K	-3029 / 0	-91.8	-91.8	0.08 (1)	6.23											
K-L	0 / 0	-91.8	-91.8	0.03 (1)	10.00											

MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	UNBRAC	LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED	FACTORED	FORCE	MAX
B-R	0 / 2169	-18.5	-18.5	0.20 (1)	10.00										
R-Y	0 / 5129	-18.5	-18.5	0.40 (1)	10.00										
Y-Z	0 / 5129	-18.5	-18.5	0.40 (1)	10.00										
Z-Q	0 / 5129	-18.5	-18.5	0.40 (1)	10.00										
Q-AA	0 / 5919	-18.5	-18.5	0.45 (1)	10.00										
AA-AB	0 / 5919	-18.5	-18.5	0.45 (1)	10.00										
AB-AC	0 / 5919	-18.5	-18.5	0.45 (1)	10.00										
AC-P	0 / 5919	-18.5	-18.5	0.45 (1)	10.00										
P-O	0 / 8553	-18.5	-18.5	0.84 (1)	10.00										
O-N	0 / 8553	-18.5	-18.5	0.84 (1)	10.00										
N-M	0 / 4145	-18.5	-18.5	0.31 (1)	10.00										
M-T	0 / 3653	-18.5	-18.5	0.28 (1)	10.00										
T-K	0 / 1560	-18.5	-18.5	0.14 (1)	10.00										

FACTORED CONCENTRATED LOADS (LBS)																	
JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.								
D	5-10-8	-459	-459		BACK	VERT	TOTAL		C1								
P	11-9-8	-2430	-2430		BACK	VERT	TOTAL		C1								
Q	5-11-4	-26	-26		BACK	VERT	TOTAL		C1								
V	7-11-4	-110	-110		BACK	VERT	TOTAL		C1								
W	9-11-4	-110	-110		BACK	VERT	TOTAL		C1								
X	11-3-4	-110	-110		BACK	VERT	TOTAL		C1								
Y	2-0-12	-26	-26		BACK	VERT	TOTAL		C1								
Z	4-0-12	-26	-26		BACK	VERT	TOTAL		C1								
AA	7-11-4	-26	-26		BACK	VERT	TOTAL		C1								
AB	9-11-4	-26	-26		BACK	VERT	TOTAL		C1								

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 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 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSI: TC=0.38/1.00 (D-E:1), BC=0.64/1.00 (N-P:1),
WB=0.54/1.00 (D-P:1), SSI=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.89)
JSI METAL= 0.83 (O) (INPUT = 1.00)



Structural component only
DWG# T-2007750 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408265	T61	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:Lv307qsCyJh1sHbR4r5BVziesS-Lic9s172NjorGVCatdrSYH37Q8zxC2918TpnLqzMDGT

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMW-1	MT20	8.0	9.0	2.75	
C	TMWW-1	MT20	5.0	8.0		
D	TTWW-m	MT20	6.0	9.0	2.75	2.75
E	TMWW-w	MT20	3.0	6.0		
F	TMWW-1	MT20	5.0	8.0		
G	TS-1	MT20	5.0	8.0		
H	TMWW-w	MT20	3.0	6.0		
I	TTWW-m	MT20	6.0	9.0	2.75	2.75
J	TMWW-1	MT20	5.0	8.0		
K	TMBMW-1	MT20	8.0	9.0	2.75	1.50
M	BMWW-1	MT20	5.0	6.0		
N	BMWW-1	MT20	7.0	8.0	4.25	2.00
O	BS-1	MT20	5.0	6.0		
P	BMWW-1	MT20	7.0	8.0	4.25	3.50
Q	BMWW-1	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.



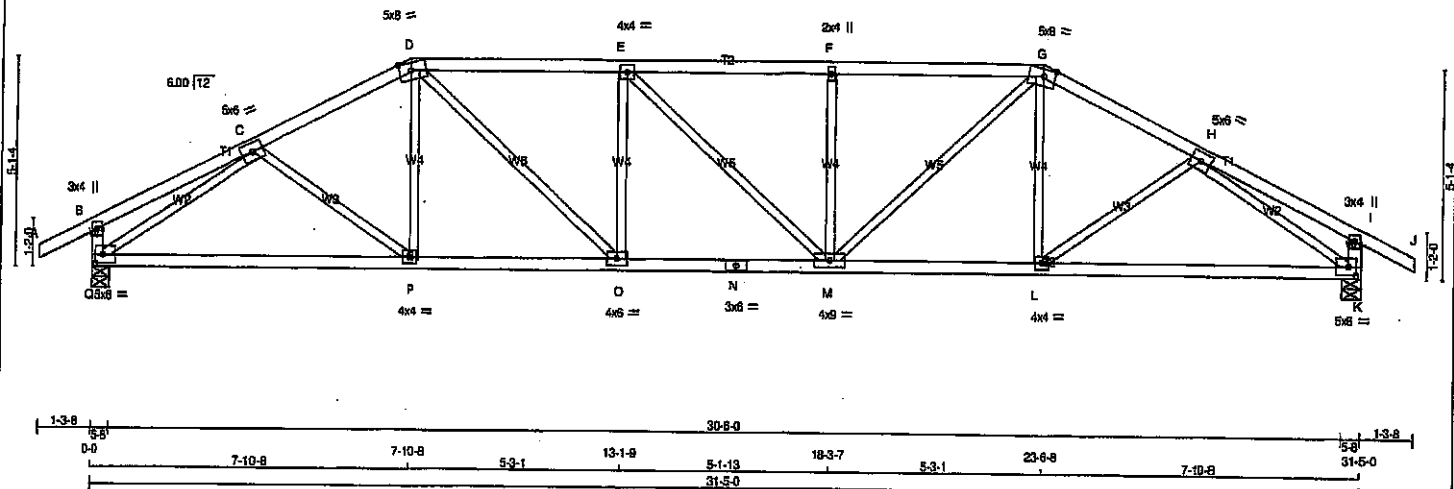
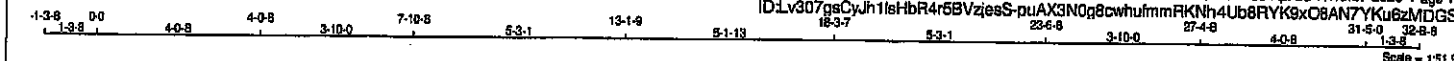
Structural component only
DWG# T-2007750 *yr*

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

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 125 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMW+w	MT20	5.0	6.0		
D TTWW-m	MT20	5.0	6.0	2.25	3.50
E TMW+w	MT20	4.0	4.0		
F TMW+w	MT20	2.0	4.0		
G TTWW-m	MT20	5.0	6.0	2.25	3.50
H TMW+w	MT20	5.0	6.0		
I TMV+p	MT20	3.0	4.0		
K BMWV1-t	MT20	5.0	6.0	2.50	2.25
L BMWV1-t	MT20	4.0	4.0		
M BMWV1-t	MT20	4.0	4.0		
N BS-t	MT20	3.0	6.0		
O BMWV1-t	MT20	4.0	6.0		
P BMWV1-t	MT20	4.0	4.0		
Q BMWV1-t	MT20	5.0	6.0	2.50	2.25

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
Q	1858	0	1858	0
K	1858	0	1858	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMILIVE	WIND	DEAD	SOIL
Q	1310	873 / 0	0 / 0	0 / 0	0 / 0	437 / 0	0 / 0
K	1310	873 / 0	0 / 0	0 / 0	0 / 0	437 / 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 = 3.70 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-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	-2802 / 0	-91.8	-91.8 0.48 (1)	3.70	O-E	-517 / 0	0.20 (1)
E-F	-2802 / 0	-91.8	-91.8 0.48 (1)	3.70	E-M	-2 / 0	0.00 (1)
F-G	-2802 / 0	-91.8	-91.8 0.48 (1)	3.70	M-F	-516 / 0	0.20 (1)
G-H	-2417 / 0	-91.8	-91.8 0.28 (1)	4.17	M-G	0 / 895	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 / 29	-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	-2616 / 0	1.00 (1)
K-I	-270 / 0	0.0	0.0 0.03 (1)	7.81	H-K	-2616 / 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			

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		=	38.0	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 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) = $L/360$ (1.05")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.15")
ALLOWABLE DEFL.(TL) = $L/360$ (1.05")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.29")

CSI: TC=0.49/1.00 (D-E:1), BC=0.51/1.00 (M-O:1),
WB=1.00/1.00 (H-K:1), SS=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 (PL)
(PSB)
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 (K) (INPUT = 0.80)
JSI METAL = 0.91 (N) (INPUT = 1.00)

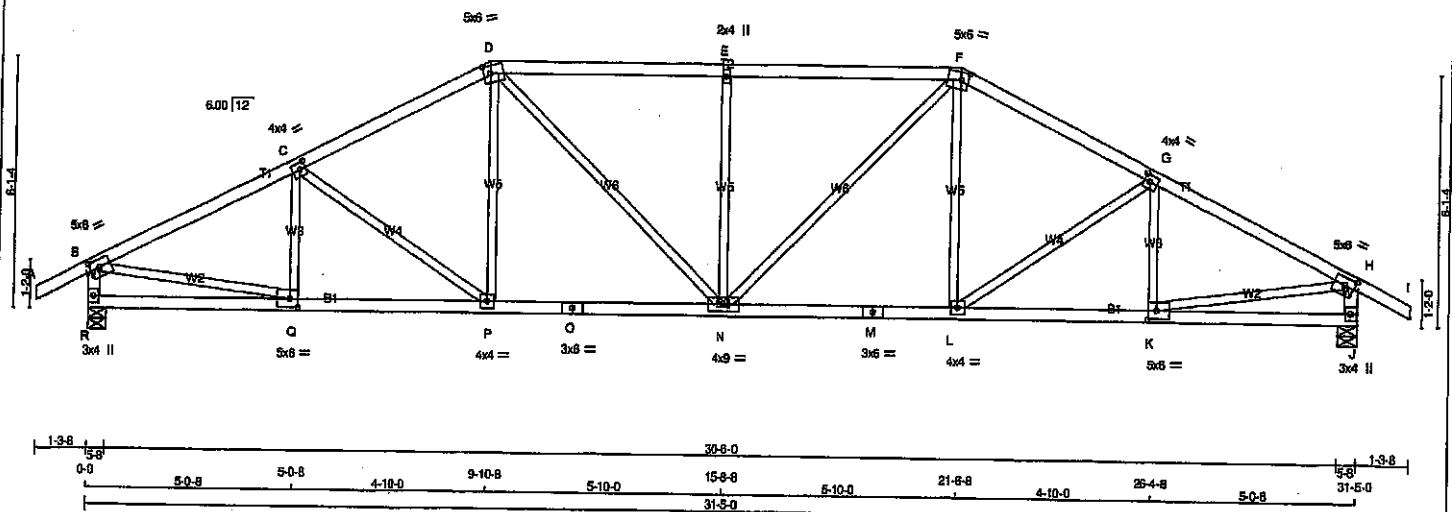


Structural component only
DWG# T-2007751

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

Tamareck Roof Truss, Burlington

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ID:Lv307gsCyJh1stHbR4r5BVzjesS-15kvHj1Jvw2YVpLy_2uwdl8JH-yinx1KcnLuQY2MDGR
21-6-8 26-4-8 31-5-0 1-3-8
Scale = 1:51.9



LUMBER	N. L. G. A. RULES	SIZE	LUMBER
CHORDS			
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 - O	2x4	DRY	No.2
O - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table in inches)	W	LEN	Y	X
JT TYPE				
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 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 1.75
H TMVW-t	MT20	5.0	6.0	2.25 2.75
J BMV1-p	MT20	3.0	4.0	
K BMVW-t	MT20	5.0	6.0	2.50 2.50
L BMVW-t	MT20	4.0	4.0	
M BS-t	MT20	3.0	6.0	
N BMVW-t	MT20	4.0	9.0	
O BS-t	MT20	3.0	6.0	
P BMVW-t	MT20	4.0	4.0	
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	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
R	1856	0	1856	0
J	1856	0	1856	0

UNFACTORED REACTIONS	1ST LOASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERMLIVE WIND DEAD SOIL
R	1310	873 / 0 0 / 0 0 / 0 0 / 0 437 / 0 0 / 0
J	1310	873 / 0 0 / 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	CHORDS	WEBS
TOTAL LOAD CASES: (4)		
	MEMB. MAX. FACTORED FORCE (LBS)	MEMB. MAX. FACTORED FORCE (LBS)
	FR-TO	FR-TO
	A-B	0 / 28
	B-C	-2483 / 0
	C-D	-2289 / 0
	D-E	-2411 / 0
	E-F	-2411 / 0
	F-G	-2289 / 0
	G-H	-2483 / 0
	H-I	0 / 28
	I-J	-1813 / 0
	J-K	-1813 / 0
	K-L	0 / 0
	L-M	0 / 2250
	M-N	0 / 2029
	N-O	0 / 2029
	O-P	0 / 2029
	P-Q	0 / 2029
	Q-R	0 / 2029
	R-S	0 / 2029
	S-T	0 / 2029
	T-U	0 / 2029
	U-V	0 / 2029
	V-W	0 / 2029
	W-X	0 / 2029
	X-Y	0 / 2029
	Y-Z	0 / 2029
	Z-A	0 / 2029

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, 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/999 (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), SS=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)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1695

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.66 (H) (INPUT = 1.00)



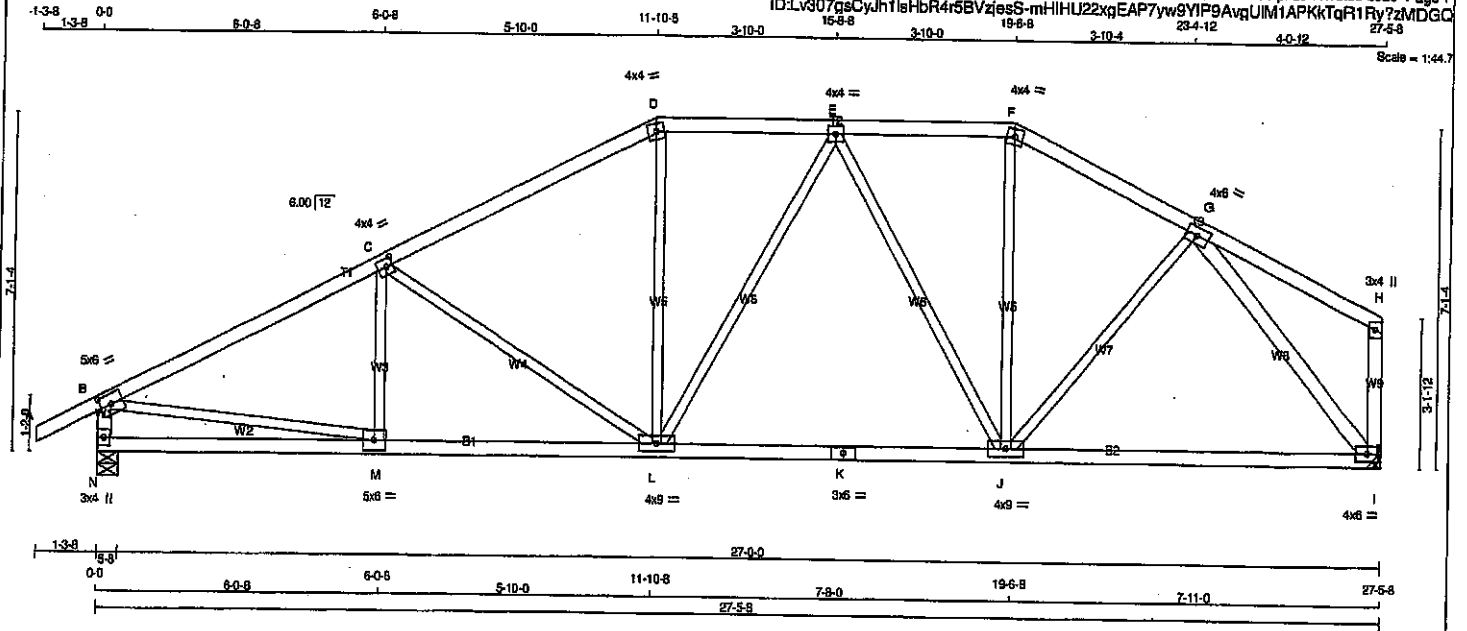
Structural component only
DWG# T-2007752

JOB NAME 408265	TRUSS NAME T64A	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:Lv307gsCyJh1eHbR4r5BVziesS-mHlHU22xgEAP7yw9VIP9AvqUIM1APKkTqR1RyZzMDGCG



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
N - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
N - K	2x4	DRY	No.2
K - I	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
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	6.0	2.50 2.75
C	TMVW-t	MT20	4.0	4.0	2.00 1.75
D	TTW-m	MT20	4.0	4.0	
E	TMVW-t	MT20	4.0	4.0	
F	TTW-m	MT20	4.0	4.0	
G	TMVW-t	MT20	4.0	6.0	
H	TMV-p	MT20	3.0	4.0	
I	BMVW-t	MT20	4.0	6.0	
J	BMVW-t	MT20	4.0	9.0	
K	BS-t	MT20	3.0	6.0	
L	BMVW-t	MT20	4.0	9.0	
M	BMVW-t	MT20	5.0	6.0	
N	BMV-t	MT20	3.0	4.0	

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	IN-SX
N	1638	0	1638	0	0	5-8	5-8
I	1514	0	1514	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX	MIN	COMPONENT REACTIONS
N	1155	772 / 0	0 / 0	PERM. LIVE WIND DEAD SOIL
I	1070	705 / 0	0 / 0	384 / 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 = 4.13 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	M-C	-161 / 42	0.04 (1)	
B-C	-2151 / 0	-91.8	-91.8 0.51 (1)	C-L	-534 / 0	0.51 (1)	
C-D	-1710 / 0	-91.8	-91.8 0.46 (1)	L-D	0 / 413	0.05 (1)	
D-E	-1509 / 0	-91.8	-91.8 0.19 (1)	L-E	-3 / 30	0.01 (4)	
E-F	-1276 / 0	-91.8	-91.8 0.18 (1)	E-J	-483 / 0	0.60 (1)	
F-G	-1443 / 0	-91.8	-91.8 0.20 (1)	J-F	0 / 361	0.08 (1)	
G-H	0 / 19	-91.8	-91.8 0.23 (1)	J-G	0 / 238	0.07 (1)	
H-B	-1580 / 0	0.0	0.0 0.16 (1)	B-M	0 / 1969	0.44 (1)	
I-H	-140 / 0	0.0	0.0 0.02 (1)	G-I	-1702 / 0	0.80 (1)	
N-M	0 / 0	-18.5	-18.5 0.14 (4)				
M-L	0 / 1949	-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)				

TOTAL WEIGHT = 119 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

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 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 5.4 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: TC=0.51/1.00 (B-C:1), 8C=0.41/1.00 (J-L:4), WB=0.80/1.00 (G-I: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

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 (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 789 1867 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.67 (M) (INPUT = 0.50)
JSI METAL = 0.58 (B) (INPUT = 1.00)



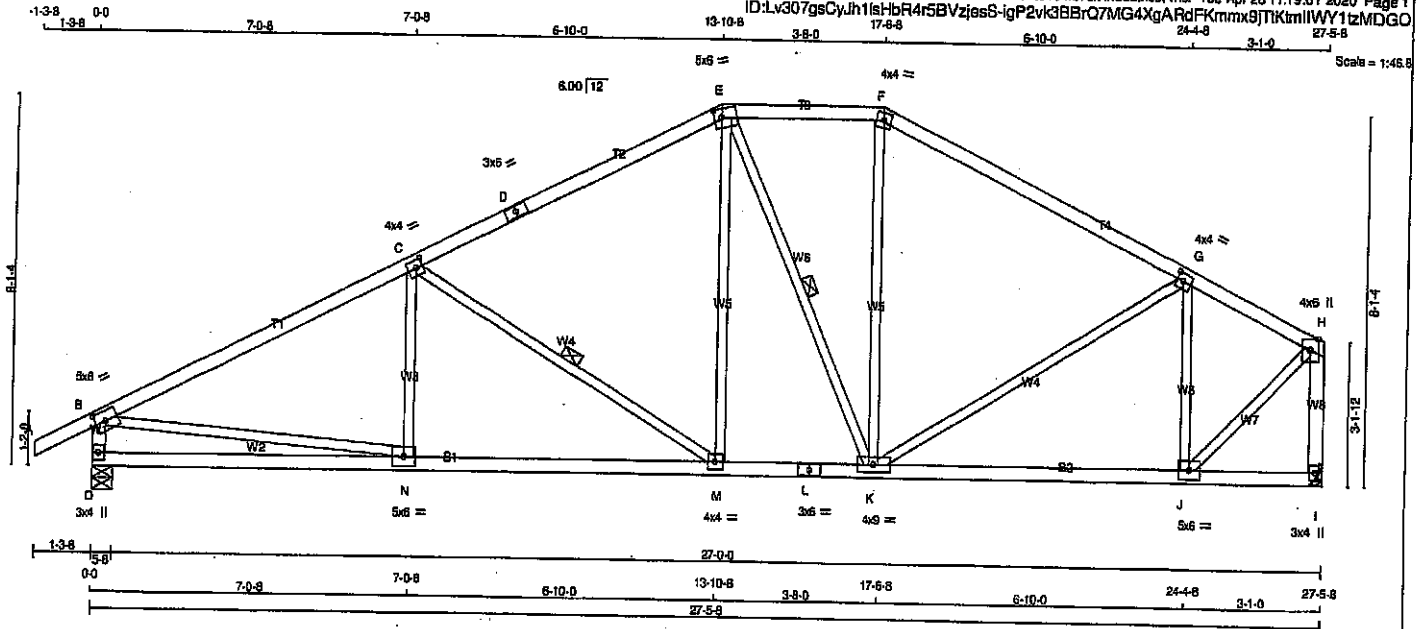
Structural component only
DWG# T-2007753

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

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ID:1v307gsCyJh1sHbR4r5BVzjesS-igP2vk3BBQ7MG4XgARdFKmmx8JTKmlIWy1zMDGO



LUMBER	N.L.G. A. RULES	SIZE	DRY	LUMBER	DESCR.
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 EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-1	MT20	5.0	8.0	2.50	2.75
C TMVW-1	MT20	4.0	4.0	2.00	1.75
D TS-1	MT20	3.0	6.0		
E TTWW-m	MT20	5.0	6.0	2.25	2.00
F TTW-m	MT20	4.0	4.0		
G TMVW-1	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-1	MT20	5.0	6.0		
K BMVW-1	MT20	4.0	9.0		
L BS-1	MT20	3.0	6.0		
M BMVW-1	MT20	4.0	4.0		
N BMVW-1	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
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

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE		
O	1158	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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	10.00	FR-TO		
A-B	0 / 28	-91.8	-91.8	0.12 (1)	N-C	-91 / 89	0.03 (4)
B-C	-2147 / 0	-91.8	-91.8	0.72 (1)	C-M	-784 / 0	0.34 (1)
C-D	-1523 / 0	-91.8	-91.8	0.83 (1)	M-E	0 / 476	0.11 (1)
D-E	-1523 / 0	-91.8	-91.8	0.83 (1)	E-K	-234 / 0	0.12 (1)
E-F	-1238 / 0	-91.8	-91.8	0.17 (1)	K-F	0 / 198	0.05 (4)
F-G	-1408 / 0	-91.8	-91.8	0.56 (1)	K-G	0 / 223	0.05 (1)
G-H	-1115 / 0	-91.8	-91.8	0.42 (1)	J-G	-854 / 0	0.28 (1)
O-B	-1586 / 0	0.0	0.0	0.16 (1)	B-N	0 / 1985	0.44 (1)
I-H	-1503 / 0	0.0	0.0	0.26 (1)	J-H	0 / 1424	0.32 (1)
O-N	0 / 0	-18.5	-18.5	0.23 (4)			
N-M	0 / 1951	-18.5	-18.5	0.42 (1)			
M-L	0 / 1337	-18.5	-18.5	0.29 (1)			
L-K	0 / 1337	-18.5	-18.5	0.29 (1)			
K-J	0 / 1048	-18.5	-18.5	0.25 (1)			
J-I	0 / 0	-18.5	-18.5	0.14 (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 FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

(85 % 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=0.23/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
MT20	618 354	1667 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL=0.59 (B) (INPUT = 1.00)

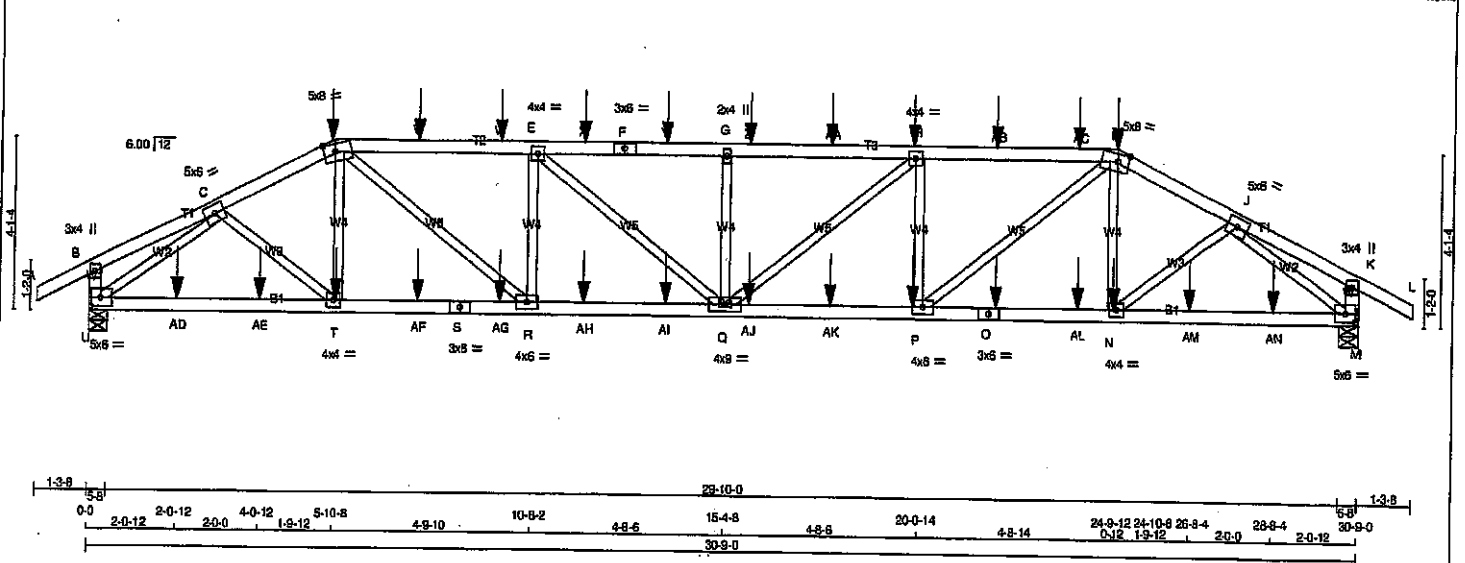


Structural component only
DWG# T-2007754

Structural component only
DWG# T-2007755

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T67	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID: Lv307gsCvJh1shHbR4r5BVzjsS-6E5AXm84UmoIDkp6L17KtzOMeNjM4rC_jiCdCzMDGL
Scale = 1:50.9



CHORDS	SIZE	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
I - L	2x4	DRY No.2	SPF
U - B	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
U - S	2x4	DRY No.2	SPF
S - O	2x4	DRY No.2	SPF
O - M	2x4	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-D	12	SIDE(61.0)
D-F	12	SIDE(61.0)
F-I	12	SIDE(61.0)
I-L	12	SIDE(61.0)
U-B	12	TOP
M-K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
U-S	12	SIDE(61.0)
S-O	12	SIDE(61.0)
O-M	12	SIDE(61.0)
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 PILES 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		RECORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
U	2951	0	2951	0	0	5-8	5-8	5-8	5-8
M	2999	0	2999	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN	COMPONENT REACTIONS	PERM/LIVE	WIND	DEAD	SOIL
U	2086	1375 / 0	0 / 0	0 / 0	0 / 0	711 / 0	0 / 0
M	2119	1397 / 0	0 / 0	0 / 0	0 / 0	723 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 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		W E B S	
MEMB.	FORCE (LBS)	VERT. (PLF)	MAX. (LC)	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 28	-91.8	-91.8 0.07 (1)	C-T	0 / 661
B-C	0 / 5	-91.8	-91.8 0.06 (1)	T-D	-205 / 80
C-D	-4322 / 0	-91.8	-91.8 0.13 (1)	D-E	0 / 2127
D-V	-5518 / 0	-91.8	-91.8 0.41 (1)	E-Q	-1188 / 0
V-W	-5518 / 0	-91.8	-91.8 0.41 (1)	Q-H	0 / 853
W-E	-5518 / 0	-91.8	-91.8 0.41 (1)	H-Q	-835 / 0
E-X	-6025 / 0	-91.8	-91.8 0.43 (1)	Q-H	0 / 586
X-F	-6025 / 0	-91.8	-91.8 0.43 (1)	P-I	-1162 / 0
F-Y	-6025 / 0	-91.8	-91.8 0.43 (1)	I-P	0 / 2089
Y-G	-6025 / 0	-91.8	-91.8 0.43 (1)	P-I	-203 / 71
G-Z	-6025 / 0	-91.8	-91.8 0.42 (1)	I-P	0 / 679
Z-AA	-6025 / 0	-91.8	-91.8 0.42 (1)	N-J	-4248 / 0
AA-H	-6025 / 0	-91.8	-91.8 0.42 (1)	J-N	-4325 / 0
H-AB	-5563 / 0	-91.8	-91.8 0.39 (1)		
AB-AC	-5563 / 0	-91.8	-91.8 0.39 (1)		
AC-I	-5563 / 0	-91.8	-91.8 0.39 (1)		
I-J	-4404 / 0	-91.8	-91.8 0.13 (1)		
J-K	0 / 5	-91.8	-91.8 0.06 (1)		
K-L	0 / 28	-91.8	-91.8 0.07 (1)		
U-B	-249 / 0	0.0	0.0 0.01 (1)		
M-K	-249 / 0	0.0	0.0 0.01 (1)		

U-AD	0 / 3332	-18.5	-18.5 0.37 (1)	10.00
AD-AE	0 / 3332	-18.5	-18.5 0.37 (1)	10.00
AE-T	0 / 3332	-18.5	-18.5 0.37 (1)	10.00
T-AF	0 / 8851	-18.5	-18.5 0.40 (1)	10.00
AF-S	0 / 3851	-18.5	-18.5 0.40 (1)	10.00
S-AG	0 / 3851	-18.5	-18.5 0.40 (1)	10.00
AG-R	0 / 3851	-18.5	-18.5 0.40 (1)	10.00
R-AH	0 / 5518	-18.5	-18.5 0.53 (1)	10.00
AH-AI	0 / 5518	-18.5	-18.5 0.53 (1)	10.00
AI-Q	0 / 5518	-18.5	-18.5 0.53 (1)	10.00
Q-AJ	0 / 5563	-18.5	-18.5 0.54 (1)	10.00
AJ-AK	0 / 5563	-18.5	-18.5 0.54 (1)	10.00
AK-P	0 / 5563	-18.5	-18.5 0.54 (1)	10.00
P-O	0 / 3925	-18.5	-18.5 0.41 (1)	10.00
O-AL	0 / 3925	-18.5	-18.5 0.41 (1)	10.00
AL-N	0 / 3925	-18.5	-18.5 0.41 (1)	10.00
N-AM	0 / 3392	-18.5	-18.5 0.37 (1)	10.00
AM-AN	0 / 3392	-18.5	-18.5 0.37 (1)	10.00
AN-M	0 / 3392	-18.5	-18.5 0.37 (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 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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TO=0.49/1.00 (E-G:1), BC=0.54/1.00 (P-Q:1), WB=0.58/1.00 (J-M:1), SSI=0.18/1.00 (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 (PLI)	SECTION (PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.85 (D) (INPUT=0.90)
JSI METAL=0.61 (S) (INPUT=1.00)



Structural component only
DWG# T-2007756 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T67	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:1v307gsCylh1stHbR4r5BVzieS-6E5AXm64UmpIDkp8L7KtzQMeNIM4tC iICdCzMDGL

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	8.0	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	8.0	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	BMWW-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	18-11-4	-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

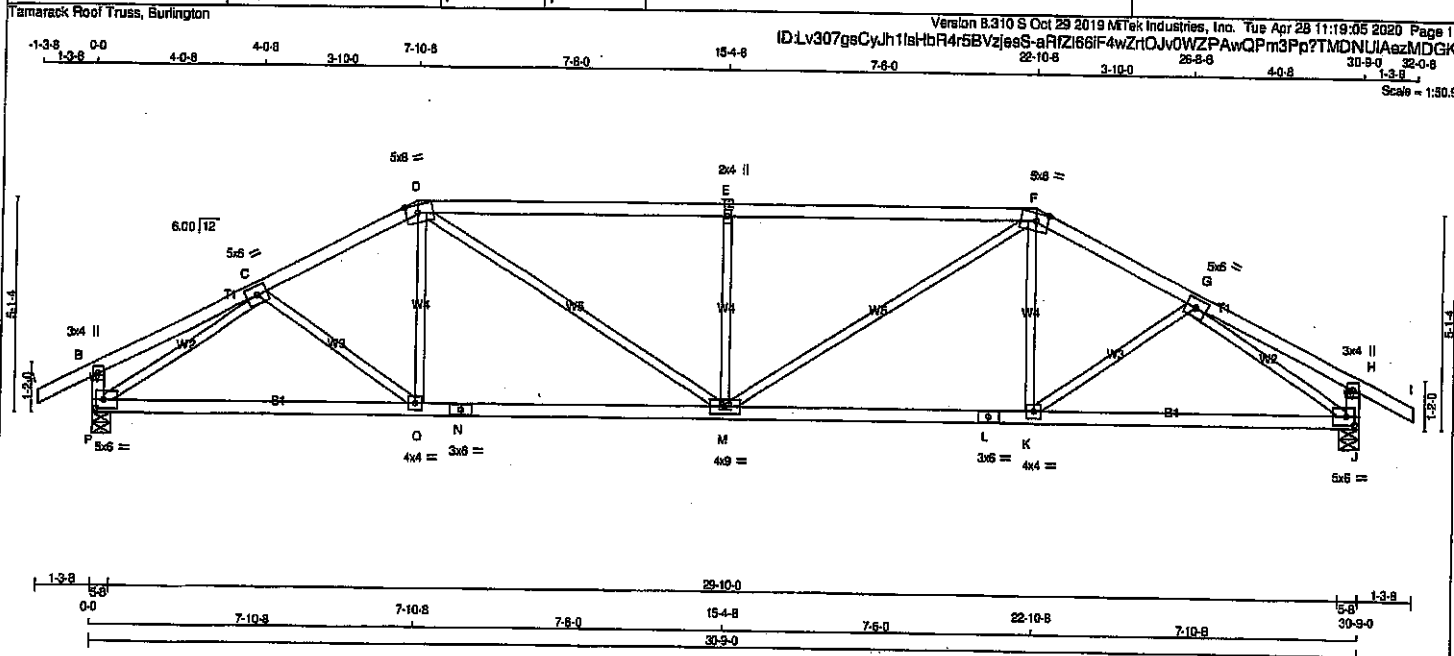
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007756 1/2

JOB NAME 408265	TRUSS NAME T68	QUANTITY 1	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 - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
I - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

PLATE TYPE	W	LEN	Y	X
B TMV-p	MT20	3.0	4.0	
C TMVW-t	MT20	5.0	6.0	
D TMW-m	MT20	5.0	6.0	2.25 3.50
E TMW-m	MT20	2.0	4.0	
F TMW-m	MT20	5.0	6.0	2.25 3.50
G TMW-m	MT20	5.0	6.0	
H TMV-p	MT20	3.0	4.0	
J BMVW-t	MT20	5.0	6.0	2.50 2.25
K BMW-t	MT20	4.0	4.0	
L BS-t	MT20	3.0	6.0	
M BMW-t	MT20	4.0	4.0	
N BS-t	MT20	3.0	6.0	
O BMW-t	MT20	4.0	4.0	
P BMVW-t	MT20	5.0	6.0	2.50 2.25

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	1820	0	5-8	5-8
P DOWN	1820	0	5-8	5-8
J UPLIFT	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	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) P, J

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.06 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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	C-O	0 / 69	0.02 (4)
B-C	0 / 16	-91.8	-91.8 0.20 (1)	10.00	O-D	0 / 157	0.05 (4)
C-D	-2354 / 0	-91.8	-91.8 0.22 (1)	4.30	D-M	0 / 897	0.20 (1)
D-E	-2848 / 0	-91.8	-91.8 0.88 (1)	3.06	M-F	-848 / 0	0.33 (1)
E-F	-2848 / 0	-91.8	-91.8 0.88 (1)	3.06	F-G	0 / 897	0.20 (1)
F-G	-2354 / 0	-91.8	-91.8 0.22 (1)	4.30	K-F	0 / 157	0.05 (4)
G-H	0 / 16	-91.8	-91.8 0.20 (1)	10.00	K-G	0 / 69	0.02 (4)
H-I	0 / 28	-91.8	-91.8 0.12 (1)	10.00	P-C	-2557 / 0	0.98 (1)
P-B	-270 / 0	0.0	0.0 0.03 (1)	7.81	G-J	-2557 / 0	0.98 (1)
J-H	-270 / 0	0.0	0.0 0.03 (1)	7.81			
P-O	0 / 2078	-18.5	-18.5 0.49 (1)	10.00			
O-N	0 / 2082	-18.5	-18.5 0.49 (1)	10.00			
N-M	0 / 2082	-18.5	-18.5 0.49 (1)	10.00			
M-L	0 / 2082	-18.5	-18.5 0.49 (1)	10.00			
L-K	0 / 2082	-18.5	-18.5 0.49 (1)	10.00			
K-J	0 / 2078	-18.5	-18.5 0.49 (1)	10.00			

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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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 (0.14")

ALLOWABLE DEFL.(TL) = L/360 (1.03")

CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.89/1.00 (D-E-1), BC=0.48/1.00 (M-O-1), WS=0.98/1.00 (C-F-1), SS=0.33/1.00 (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

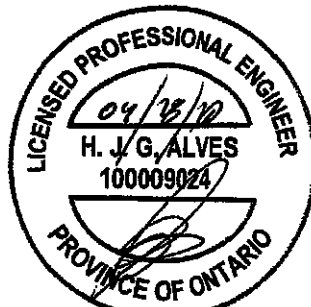
PLATE GRIP (DRY)	SHEAR (PLI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20 618 354	1887 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (P) (INPUT = 0.90)

JSI METAL = 0.71 (N) (INPUT = 1.00)



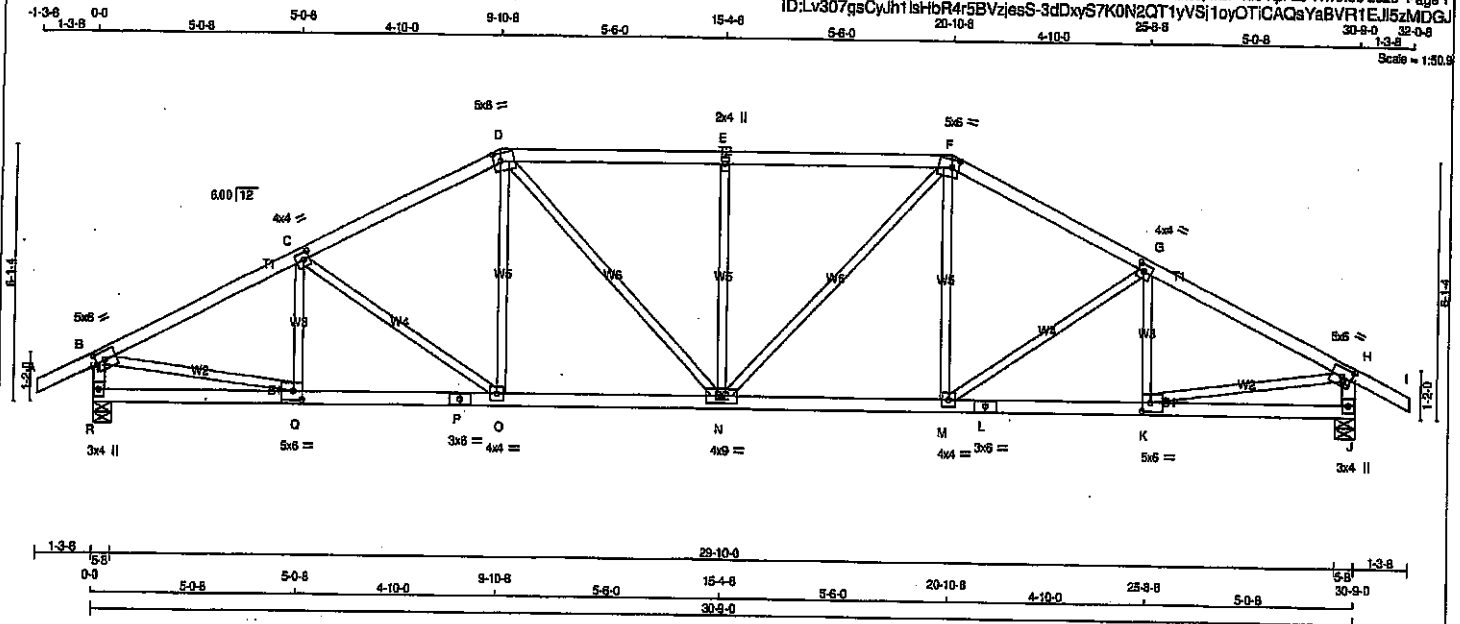
Structural component only
DWG# T-2007757

JOB NAME 408265	TRUSS NAME T69	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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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
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	TMWV-1	MT20	5.0	6.0 2.50 2.75
C	TMWV-1	MT20	4.0	4.0 2.00 1.75
D	TTWV-m	MT20	5.0	6.0 2.25 2.00
E	TMWV-w	MT20	2.0	4.0
F	TTWV-m	MT20	5.0	6.0 2.25 2.00
G	TMWV-1	MT20	4.0	4.0 2.00 1.75
H	TMWV-1	MT20	5.0	6.0 2.50 2.75
J	BMV1-p	MT20	3.0	4.0
K	BMWV-1	MT20	5.0	6.0 2.50 2.50
L	BS-1	MT20	3.0	6.0
M	BMWV-1	MT20	4.0	4.0
N	BMWVW-1	MT20	4.0	9.0
O	BMWV-1	MT20	4.0	4.0
P	BS-1	MT20	3.0	6.0
Q	BMWV-1	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		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	HORIZ	IN-SX	BRG	IN-SX	BRG
R	1820	0	1820	0	0	5-8	5-8	5-8	5-8
J	1820	0	1820	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX/MIN. COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW
R	1284	856 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
J	1284	856 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 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)

CHORDS				FACTORED				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX CSl (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSl (LC)			
FR-TO		FROM	TO		FR-TO						
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	Q-C	-282 / 0	0.06 (1)			
B-C	-2432 / 0	-91.8	-91.8	0.36 (1)	4.10	C-D	-283 / 0	0.18 (1)			
C-D	-2218 / 0	-91.8	-91.8	0.34 (1)	4.27	C-D	0 / 282	0.06 (1)			
D-E	-2304 / 0	-91.8	-91.8	0.43 (1)	4.09	D-N	0 / 492	0.14 (1)			
E-F	-2304 / 0	-91.8	-91.8	0.43 (1)	4.09	N-E	-617 / 0	0.36 (1)			
F-G	-2218 / 0	-91.8	-91.8	0.34 (1)	4.27	N-F	0 / 492	0.11 (1)			
G-H	-2432 / 0	-91.8	-91.8	0.36 (1)	4.10	M-F	0 / 262	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	0.06 (1)			
J-H	-1777 / 0	0.0	0.0	0.18 (1)	6.26	B-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 / 1955	-18.5	-18.5	0.37 (1)	10.00						
N-M	0 / 1955	-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						

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 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 25.6 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), SS=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 SECTION
(PSI)	(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 (H) (INPUT = 0.90)
JSI METAL = 0.85 (H) (INPUT = 1.00)

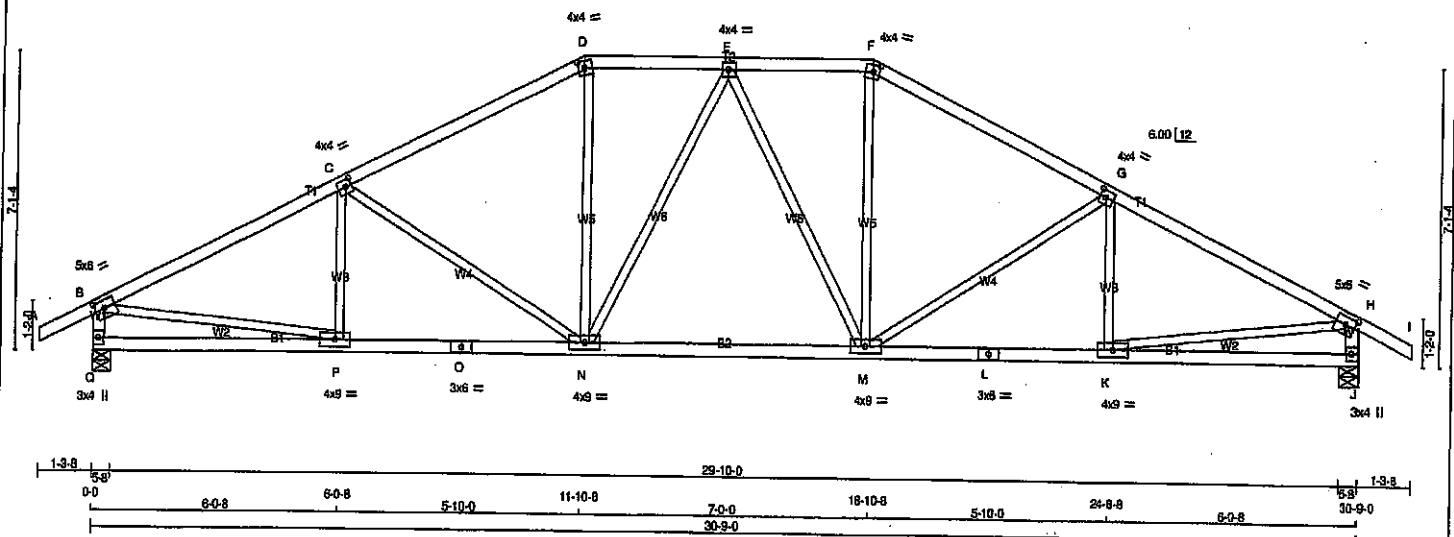


Structural component only
DWG# T-2007758

JOB NAME 408265	TRUSS NAME T70	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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ID:lv307gsCyJh1sHbR4r5BVzjesS-XpnJAn8YnAH4Bxh0RY1Ub0rGamaH1MeghzsEXzMDGI
Scale = 1:50.0



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
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
L - J	2x4	DRY	No.2
L - L	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		
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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
Q	1820	0	1820	0	5-8	5-8	
J	1820	0	1820	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
F-G	-2065 / 0	-91.8	-91.8 0.48 (1)	4.22	K-G	-202 / 27	0.05 (1)
G-H	-2485 / 0	-91.8	-91.8 0.53 (1)	3.88	M-G	-490 / 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	-2485 / 0	-91.8	-91.8 0.53 (1)	3.88	C-N	-490 / 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 / 1924	-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

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 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) = $L/999$ (0.10")
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 (PS)	SECTION (PL)
MT20	618	354	1867
			1867

PLATE PLACEMENT TOL. = 0.250 inches

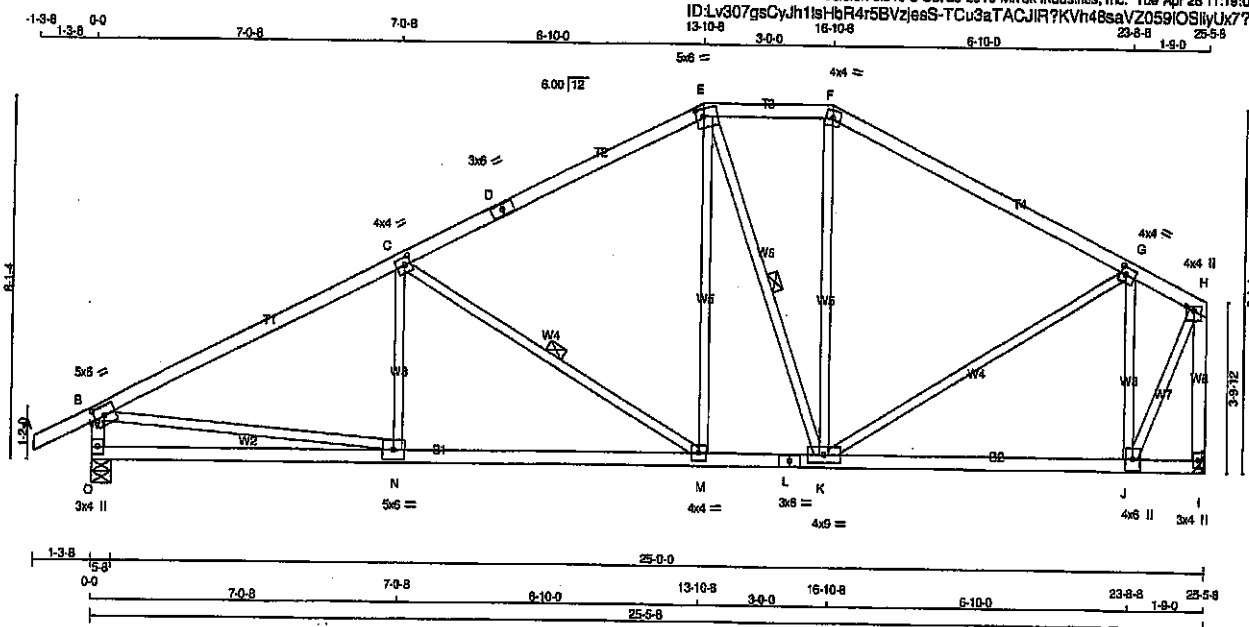
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (D) (INPUT = 0.80)
JSI METAL = 0.71 (O) (INPUT = 1.00)



Structural component only
DWG# T-2007759

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T71A	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:19:08 2020 Page 1					
ID:1v307gsCyJh1stHbR4r5BVzjesS-TCu3aTACJIR7KVh48saVZ059IOSllyUk77SzJPzMDGG					
13-10-8 16-10-8 23-8-8 25-5-8					
Scale: 1/4"=1'					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
O - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - I	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
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 2.00 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	6.0
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		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
O	1526	0	1526	0	0	5-8	5-8		
I	1403	0	1403	0	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
O	1078	721 / 0	0 / 0	0 / 0	0 / 0
I	992	651 / 0	0 / 0	0 / 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)

MAX. FACTORED		FACTORED		MEMB.		MAX. FACTORED	
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	N-C	-88 / 96	0.03 (4)
B-C	-1949 / 0	-91.8	-91.8 0.69 (1)	4.00	C-M	-757 / 0	0.35 (1)
C-D	-1303 / 0	-91.8	-91.8 0.61 (1)	4.81	M-E	0 / 480	0.11 (1)
D-E	-1303 / 0	-91.8	-91.8 0.61 (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)
H-I	-1419 / 0	0.0	0.0 0.34 (1)	6.85	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 0.26 (1)	10.00			
L-K	0 / 1140	-18.5	-18.5 0.26 (1)	10.00			
K-J	0 / 690	-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

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	= 38.0 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, NBCG 2010, NBCG 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 (0.85")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.85")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=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 (PSI)	SECTION (PL)	(PL)
		MAX MIN	MAX MIN
MT20	618	354	1667 1656

PLATE PLACEMENT TOL. = 0.250 inches

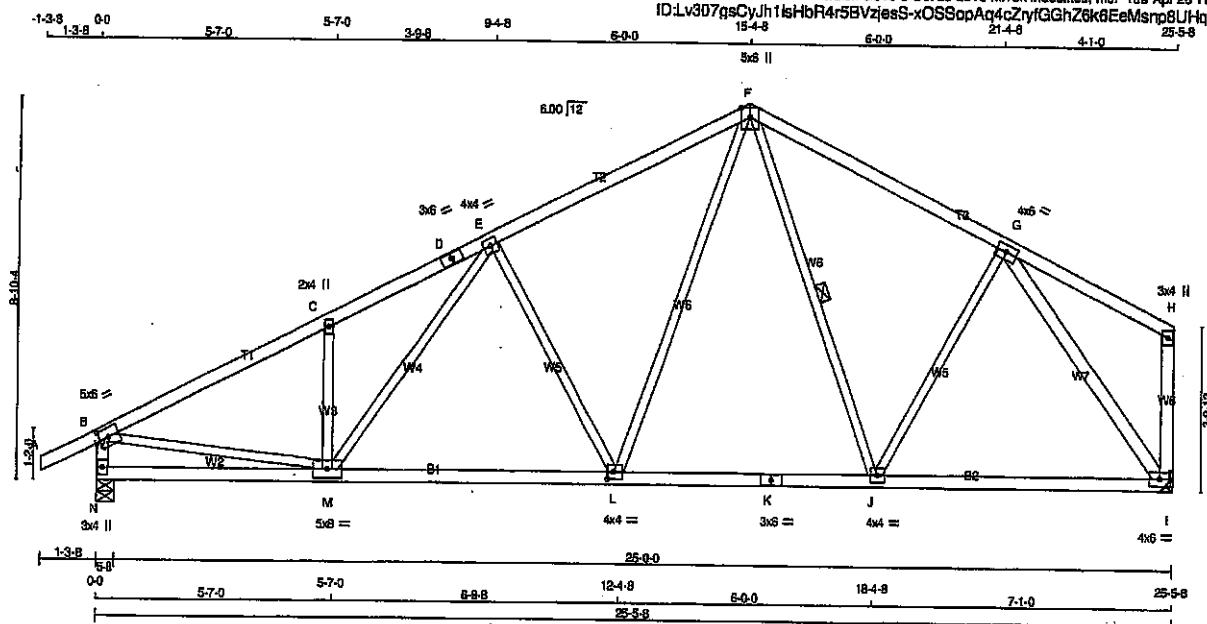
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.54 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007760

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T72A	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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
N - S	2x4	DRY	No.2
I - K	2x4	DRY	No.2
N - K	2x4	DRY	No.2
K - I	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
G - I	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN
B	TMVW-1	MT20	5.0	6.0
C	TMVW-1	MT20	2.0	4.0
D	TS-1	MT20	3.0	6.0
E	TMVW-1	MT20	4.0	4.0
F	TTVW-1	MT20	5.0	6.0
G	TMVW-1	MT20	4.0	6.0
H	TMV-1	MT20	3.0	4.0
I	BMVW-1	MT20	4.0	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
M	BMVW-1	MT20	5.0	8.0
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					
FACTORED	MAXIMUM FACTORED	INPUT	REQD		
GROSS REACTION	GROSS REACTION	BRG	BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
N	1528	0	1528	0	0
I	1403	0	1403	0	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
N	1078	721/0	0/0	0/0	0/0	357/0
I	992	651/0	0/0	0/0	0/0	341/0

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 PERIMETER 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO		FROM TO		FR-TO			
A-B	0/28	-91.8 -91.8	0.12 (1)	L-F	0/716	0.16 (1)	
B-C	-1944/0	-91.8 -91.8	0.41 (1)	F-J	-18/44	0.02 (4)	
C-D	-1830/0	-91.8 -91.8	0.34 (1)	J-G	0/177	0.05 (4)	
D-E	-1830/0	-91.8 -91.8	0.34 (1)	G-I	-1541/0	0.91 (1)	
E-F	-1406/0	-91.8 -91.8	0.45 (1)	E-L	-638/0	0.45 (1)	
F-G	-1139/0	-91.8 -91.8	0.41 (1)	M-C	-428/0	0.10 (1)	
G-H	0/35	-91.8 -91.8	0.44 (1)	M-E	0/336	0.08 (1)	
H-B	-1468/0	0.0 0.0	0.15 (1)	B-M	0/1773	0.40 (1)	
I-H	-105/0	0.0 0.0	0.02 (1)				
N-M	0/0	-18.5 -18.5	0.16 (4)				
M-L	0/1546	-18.5 -18.5	0.32 (1)				
L-K	0/998	-18.5 -18.5	0.29 (4)				
K-J	0/998	-18.5 -18.5	0.29 (4)				
J-I	0/907	-18.5 -18.5	0.28 (4)				

TOTAL WEIGHT = 4 X 112 = 446 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, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
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), SSI=0.29/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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	1887	788
			1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

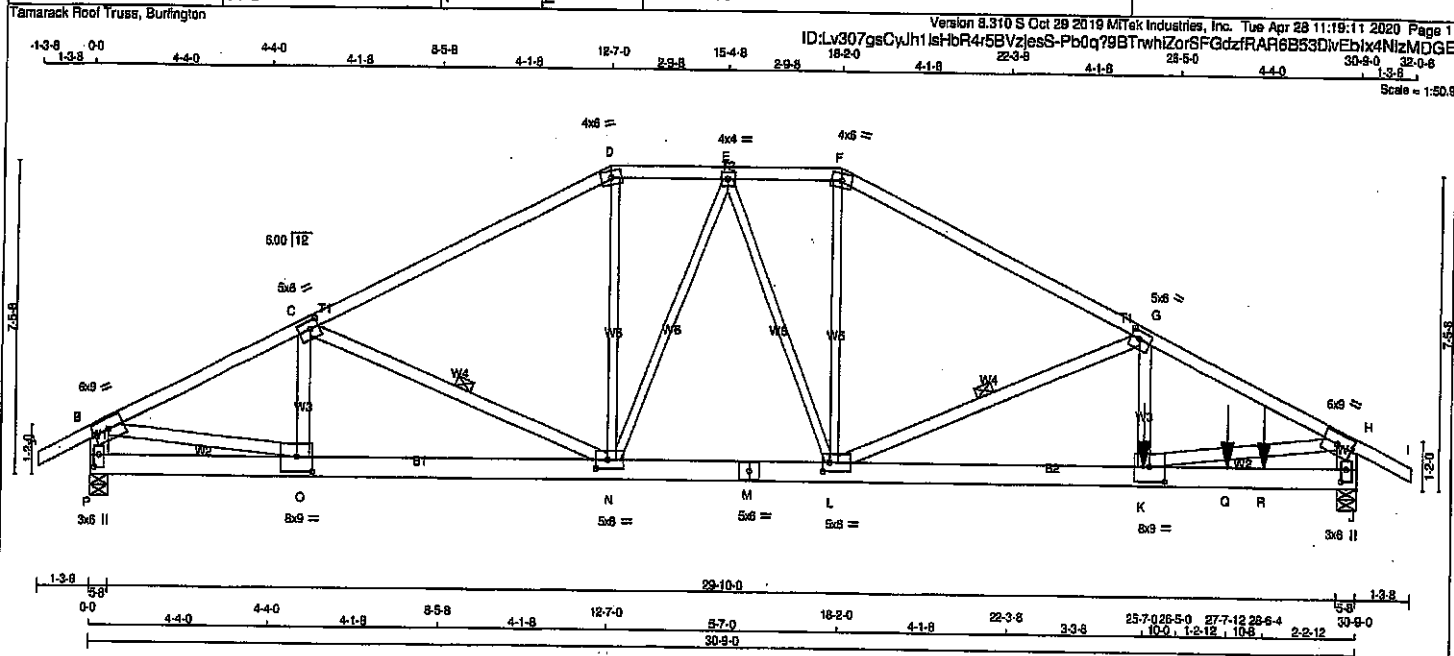
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (L) (INPUT = 0.90)
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.
Tamarack Roof Truss, Burlington					



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
P - B	2x6	DRY No.2	SPF
J - H	2x6	DRY No.2	SPF
P - M	2x6	DRY No.2	SPF
M - J	2x6	DRY No.2	SPF
ALL WEBS EXCEPT	2x4	DRY No.2	SPF
N - D	2x3	DRY No.2	SPF
N - E	2x3	DRY No.2	SPF
E - L	2x3	DRY No.2	SPF
L - F	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-F 1	12	TOP
F-I 1	12	TOP
P-B 2	12	TOP
J-H 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
P-M 2	12	SIDE(183.1)
M-J 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(901.5)
G-K 2	3	SIDE(901.5)
2x4 2	3	SIDE(901.5)
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

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT VERT 2626	DOWN 2626	5-8	5-8
P 2626	0	5-8	5-8
J 8261	0	5-8	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	1853	SNOW 1239 / 0
P	4414	LIVE 2975 / 0
J		PERMIVE 0 / 0
		WIND 0 / 0
		DEAD 814 / 0
		SOIL 1439 / 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	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	0 / 28	-91.8	O-C	-440 / 0
B-C	-3912 / 0	-91.8	C-N	-341 / 0
C-D	-3835 / 0	-91.8	N-D	0 / 1215
D-E	-3242 / 0	-91.8	E-F	-990 / 0
E-F	-3844 / 0	-91.8	F-G	0 / 708
F-G	-4300 / 0	-91.8	G-H	0 / 1506
G-H	-9440 / 0	-91.8	H-I	-5095 / 0
H-I	0 / 28	-91.8	I-J	0 / 3686
P-B	-2569 / 0	0.0	B-O	0 / 3575
J-H	-5769 / 0	0.0	K-H	0 / 8570
P-O	0 / 0	-18.5		
O-N	0 / 3535	-18.5		
N-M	0 / 3593	-18.5		
M-L	0 / 3593	-18.5		
L-K	0 / 8475	-18.5		
K-Q	0 / 0	-18.5		
Q-R	0 / 0	-18.5		
R-J	0 / 0	-18.5		

FACTORED CONCENTRATED LOADS (LBS)	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.

TOTAL WEIGHT = 2 X 157 = 315 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, 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 084-09, 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 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TO=0.88/1.00 (G-H:1), BC=0.60/1.00 (K-L:1), WB=0.80/1.00 (G-L:1), SSI=0.24/1.00 (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 798 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

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.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	9.0		
C	TMVW-t	MT20	5.0	6.0	2.25	2.50
D	TTW-m	MT20	4.0	6.0		
E	TMVW-t	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	6.0		
G	TMVW-t	MT20	5.0	6.0	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	BMVW-t	MT20	8.0	9.0	4.25	4.50
L	BMVW-t	MT20	5.0	8.0	2.50	2.00
M	BS-t	MT20	5.0	6.0		
N	BMVW-t	MT20	5.0	8.0	2.50	3.50
O	BMVW-t	MT20	8.0	9.0	4.25	4.50
P	BMV1+p	MT20	3.0	6.0	3.50	1.50



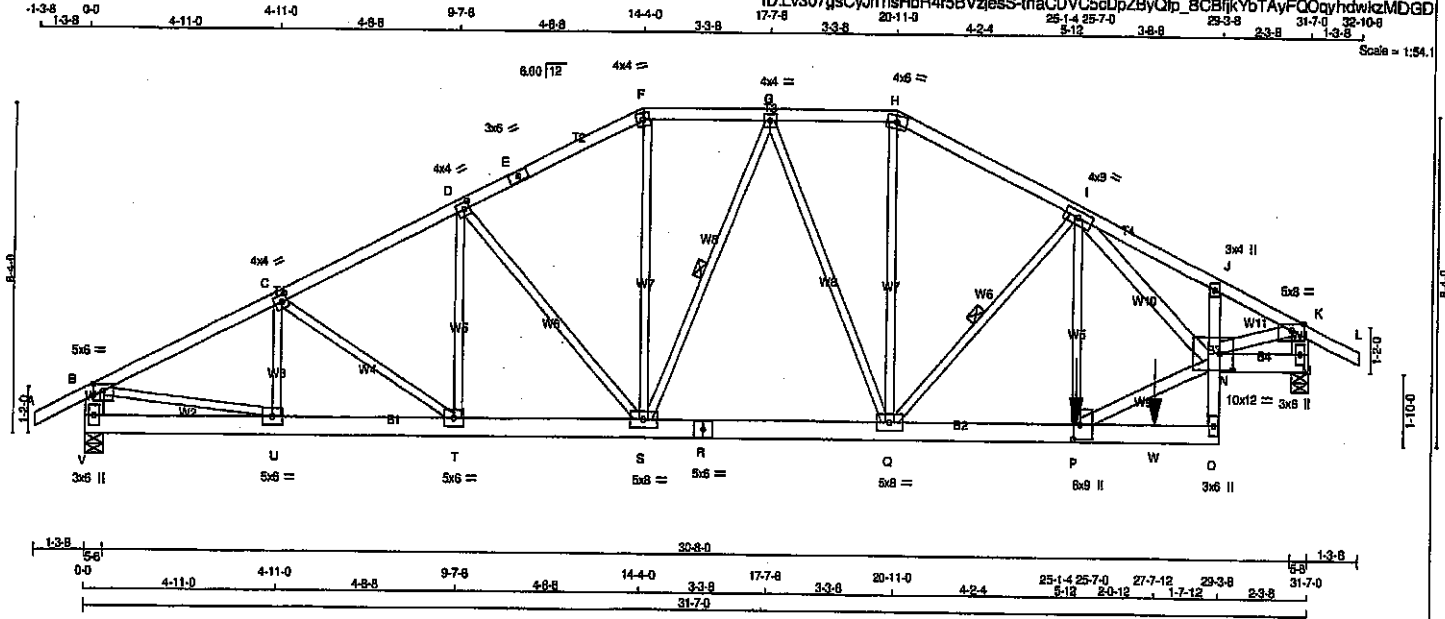
Structural component only
DWG# T-2007762 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T74	1	2	GREEN PARK HOMES	
TRUSS DESC.					

Tamareck Roof Truss, Burlington

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ID: L307gsCyJh1sHbR4r5BVziesS-tnaCVCScDpZyQfp_8CBjkYbTAyFOOqyhdwizMDGD



LUMBER	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES				
CHORDS				
A - E	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
M - K	2x6	DRY	No.2	SPF
N - O	2x6	DRY	No.2	SPF
P - R	2x6	DRY	No.2	SPF
S - T	2x6	DRY	No.2	SPF
U - V	2x6	DRY	No.2	SPF
W - X	2x6	DRY	No.2	SPF
Y - Z	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
I - N	2x4	DRY	No.2	SPF
P - R	2x4	DRY	No.2	SPF
N - K	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 - E	12	TOP
F - H	12	TOP
I - L	12	TOP
M - K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V - R	12	TOP
S - T	12	TOP
U - V	12	TOP
W - X	12	TOP
Y - Z	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
I - P	3	SIDE (837.5)
2x3	6	
2x4	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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	JT VERT	DOWN	UP
V 2745	2745	0	5-8
M 5994	5994	0	5-8

UNFACTORED REACTIONS

1ST LOASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM LIVE WIND DEAD SOIL
V 1937	1298 / 0 0 / 0 0 / 0 642 / 0 0 / 0
M 4226	2846 / 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	MAX. FACTORED	FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED	FACTORED	FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX
FR-TO						FR-TO			
A-B	0 / 28	-91.8	-91.8	0.07 (1)	10.00	U-C	-518 / 0	0.06 (1)	
B-C	-4008 / 0	-91.8	-91.8	0.24 (1)	4.55	C-T	0 / 38	0.00 (1)	
C-D	-4059 / 0	-91.8	-91.8	0.23 (1)	4.53	T-D	0 / 89	0.02 (1)	
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 / 1349	0.17 (1)	
F-G	-3320 / 0	-91.8	-91.8	0.10 (1)	5.04	Q-H	0 / 1616	0.20 (1)	
G-H	-3856 / 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 / 1868	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	-2880 / 0	0.0	0.0	0.09 (1)	7.81	N-K	0 / 7315	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 / 3831	-18.5	-18.5	0.26 (1)	10.00				
S-R	0 / 3856	-18.5	-18.5	0.25 (1)	10.00				
R-Q	0 / 3856	-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.	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.

TOTAL WEIGHT = 2 X 174 = 347 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. 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, 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 (1.05')

CALCULATED VERT. DEFL.(LL) = L/989 (0.09')

ALLOWABLE DEFL.(TL) = L/360 (1.05')

CALCULATED VERT. DEFL.(TL) = L/989 (0.16')

OSI: TC=0.37/1.00 (H-I:1), BC=0.42/1.00 (P-Q:1),

WB=0.65/1.00 (K-N:1), SSI=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 MAX MIN

MT20 616 354 1587 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (B) (INPUT = 0.50)

JSI METAL= 0.82 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007763 1/2

CONTINUED ON PAGE 2

JOB NAME 408265	TRUSS NAME T74	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVV-p	MT20	5.0	6.0	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	TMWW-t	MT20	4.0	9.0		
J	TMV-p	MT20	3.0	4.0		
K	TMVV-p	MT20	5.0	8.0	Edge	
M	BMV1-p	MT20	3.0	6.0		
N	BMWW-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	BMWW-t	MT20	5.0	8.0		
R	BS-t	MT20	3.0	6.0		
S	BMWW-t	MT20	6.0	8.0		
T	BMWW-t	MT20	5.0	6.0		
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.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID: Lv307qsCvJh1shbR4r5BVziesS-qAiveBDL7r3HQGa1wPAgG4o0VP8dQAapHGAK 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-I	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-I	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-I	MT20	10.0	12.0	Edge	4.75
L	BMV-p	MT20	3.0	6.0		
M	BMWW-I	MT20	5.0	6.0	2.50	2.00
N, Q, R						
N	BMWW-I	MT20	5.0	6.0		
O	BMWWW-I	MT20	5.0	6.0		
P	BS-I	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

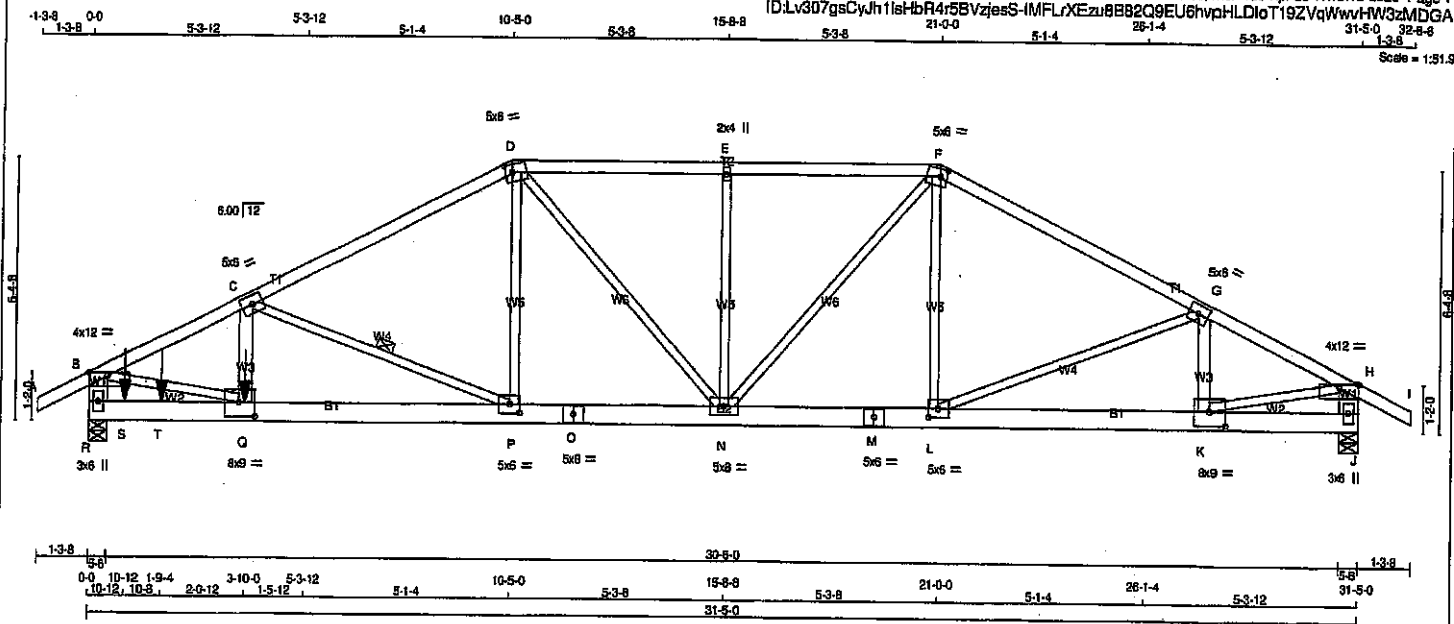
JOB NAME 408265	TRUSS NAME T76	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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Scale = 1:31.9



TOTAL WEIGHT = 2 X 149 = 297 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
R - 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	2x3	DRY No.2	SPF
EXCEPT			
Q - C	2x4	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
R-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 IN-SX	REQD BRG IN-SX
JT VERT	5710	0	5-8	5-8
R	2323	0	5-8	5-8
J	2323	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS					
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	4024	2720 / 0	0 / 0	0 / 0	1304 / 0	0 / 0
J	1840	1085 / 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 = 3.16 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.

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	MAX. FACTORED	FACTORED	MAX.	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	0 / 28	-91.8 -91.8 0.07 (1)	10.00	Q-C	0 / 2407
B-C	-7764 / 0	-91.8 -91.8 0.46 (1)	3.16	C-P	-3588 / 0
C-D	-4096 / 0	-91.8 -91.8 0.47 (1)	4.32	P-D	0 / 1533
D-E	-3533 / 0	-91.8 -91.8 0.30 (1)	4.69	D-N	-209 / 0
E-F	-3533 / 0	-91.8 -91.8 0.30 (1)	4.69	N-E	-587 / 0
F-G	-3198 / 0	-91.8 -91.8 0.38 (1)	4.85	N-F	0 / 1045
G-H	-3234 / 0	-91.8 -91.8 0.31 (1)	4.82	L-F	0 / 198
H-I	0 / 28	-91.8 -91.8 0.07 (1)	10.00	L-G	-97 / 0
R-B	-5124 / 0	0.0 0.0 0.18 (1)	6.44	K-G	-542 / 0
J-H	-2266 / 0	0.0 0.0 0.08 (1)	7.81	B-Q	0 / 7115
				K-H	0 / 2987
R-S	0 / 0	-18.5 -18.5 0.30 (1)	10.00		
S-T	0 / 0	-18.5 -18.5 0.30 (1)	10.00		
T-Q	0 / 0	-18.5 -18.5 0.30 (1)	10.00		
Q-P	0 / 6874	-18.5 -18.5 0.53 (1)	10.00		
P-O	0 / 3672	-18.5 -18.5 0.29 (1)	10.00		
O-N	0 / 3672	-18.5 -18.5 0.28 (1)	10.00		
N-M	0 / 2841	-18.5 -18.5 0.22 (1)	10.00		
M-L	0 / 2841	-18.5 -18.5 0.22 (1)	10.00		
L-K	0 / 2828	-18.5 -18.5 0.23 (1)	10.00		
K-J	0 / 0	-18.5 -18.5 0.03 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	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	-616	-616	--	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 086-08, 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 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.47/1.00 (C-D:1), BC=0.53/1.00 (P-Q:1), WB=0.88/1.00 (B-Q:1), SS=0.19/1.00 (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 (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354 1057 788 1987 1656	

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.87 (L) (INPUT = 0.80)
JSI METAL = 0.83 (B) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007765 1/2

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

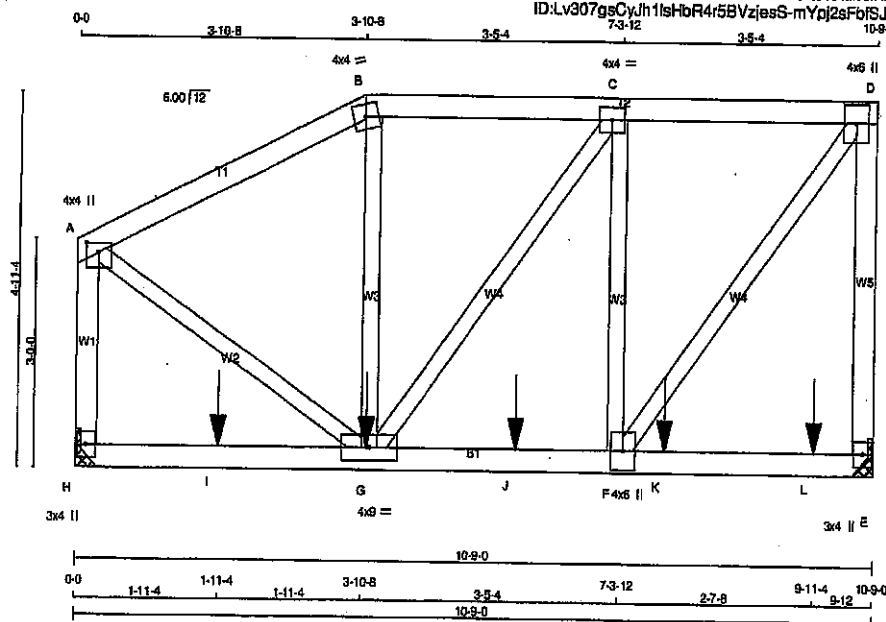
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PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	4.0	12.0	1.00 5.50
C	TMWW-t	MT20	5.0	6.0	
D	TTWW-m	MT20	5.0	6.0	2.25 2.00
E	TMW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	6.0	2.25 2.00
G	TMWW-t	MT20	5.0	6.0	
H	TMVW-p	MT20	4.0	12.0	1.00 5.50
J	BMV1-p	MT20	3.0	6.0	
K	BMWW-t	MT20	6.0	9.0	4.25 4.50
L	BMWW-t	MT20	5.0	6.0	2.50 2.75
M	BS-t	MT20	5.0	6.0	
N	BMWW-t	MT20	5.0	6.0	
O	BS-t	MT20	6.0	6.0	
P	BMWW-t	MT20	5.0	6.0	2.50 2.75
Q	BMWW-t	MT20	6.0	9.0	4.25 4.50
R	BMV1-p	MT20	3.0	6.0	



Structural component only
DWG# T-2007765 3/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T77	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - D	2x4	DRY	No.2
E - D	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	TMVW+p	MT20	4.0	4.0	1.50	2.00
B	TTW-m	MT20	4.0	4.0		
C	TMVW-t	MT20	4.0	4.0		
D	TMVW+p	MT20	4.0	6.0		
E	BMV1+p	MT20	3.0	4.0		
F	BMVW-t	MT20	4.0	6.0		
G	BMVW-t	MT20	4.0	9.0		
H	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	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

JT	1ST CASE COMBINED	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	783	540 / 0	0 / 0	0 / 0	243 / 0	0 / 0
H	719	493 / 0	0 / 0	0 / 0	226 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO					FR-TO		
A-B	-897 / 0	-91.8	-91.8	0.27 (1)	G-B	0 / 42	0.02 (4)
B-C	-623 / 0	-91.8	-91.8	0.19 (1)	G-C	0 / 25	0.01 (4)
C-D	-609 / 0	-91.8	-91.8	0.19 (1)	F-C	-405 / 0	0.15 (1)
E-D	-837 / 0	0.0	0.0	0.39 (1)	F-D	0 / 1015	0.25 (1)
H-A	-912 / 0	0.0	0.0	0.15 (1)	A-G	0 / 752	0.19 (1)
H-I	0 / 0	-18.5	-18.5	0.27 (1)			
I-G	0 / 0	-18.5	-18.5	0.27 (1)			
G-J	0 / 609	-18.5	-18.5	0.30 (1)			
J-F	0 / 609	-18.5	-18.5	0.30 (1)			
F-K	0 / 0	-18.5	-18.5	0.21 (1)			
K-L	0 / 0	-18.5	-18.5	0.21 (1)			
L-E	0 / 0	-18.5	-18.5	0.21 (1)			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
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 =	25.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	39.0	PSF

SPACING = 24.0 IN. 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 6.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.35")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.35")
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 (PSI)	SECTION (PL)
MT20	618	354
	1667	788
	1987	1658

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)

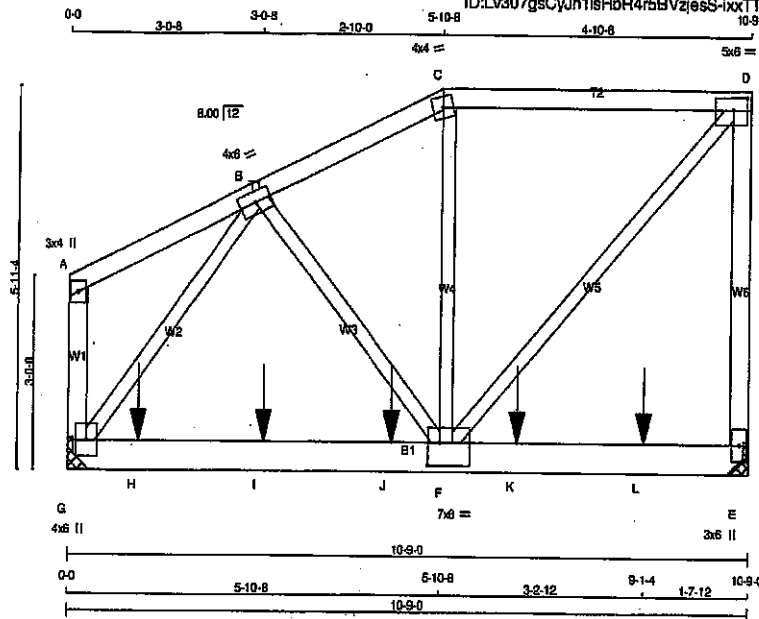


Structural component only
DWG# T-2007766

JOB NAME 408265	TRUSS NAME T78	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 58 = 117 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
G - A	2x4	DRY	No.2
G - E	2x6	DRY	2100F 1.8E
ALL WEBS	2x3	DRY	No.2
EXCEPT	E - D	2x4	DRY
		No.2	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-C	1	TOP
C-D	1	TOP
G-A	1	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
G-E	2	SIDE (0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
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.

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	TMV+p	MT20	3.0	4.0		
B	TMW+I	MT20	4.0	6.0		

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	3931	0	3931	0
G	4176	0	4176	0

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

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	2776	1846 / 0	0 / 0	0 / 0	929 / 0	0 / 0
G	2949	1960 / 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 = 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	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	FORCE (LBS)
FR-TO								
A-B	0 / 10	-91.8	-91.8	0.05 (1)	10.00	E-D	-3159 / 0	0.59 (1)
B-C	-2721 / 0	-91.8	-91.8	0.08 (1)	5.47	B-F	0 / 1117	0.14 (1)
C-D	-2438 / 0	-91.8	-91.8	0.24 (1)	5.50	F-C	0 / 878	0.11 (1)
G-A	-113 / 0	0.0	0.0	0.01 (1)	7.81	F-D	0 / 3572	0.48 (1)
G-H	0 / 1756	-18.5	-18.5	0.55 (1)	10.00	G-B	-2998 / 0	0.80 (1)
H-I	0 / 1756	-18.5	-18.5	0.55 (1)	10.00			
I-J	0 / 1756	-18.5	-18.5	0.55 (1)	10.00			
J-F	0 / 1756	-18.5	-18.5	0.55 (1)	10.00			
F-K	-89 / 0	-18.5	-18.5	0.50 (1)	6.25			
K-L	-89 / 0	-18.5	-18.5	0.50 (1)	6.25			
L-E	-89 / 0	-18.5	-18.5	0.50 (1)	6.25			

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

SPACING = 24.0 N.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 088-09, 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/380 (0.35")
CALCULATED VERT. DEFL.(LL) = L/989 (0.08")
ALLOWABLE DEFL.(TL) = L/380 (0.35")
CALCULATED VERT. DEFL.(TL) = L/805 (0.18")

OSI: 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)

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
MT20	618	354	1657
	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	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T78	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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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	BMW1+w	MT20	3.0	6.0		
F	BMWW-t	MT20	7.0	8.0	4.25	2.25
G	BMVW1+p	MT20	4.0	6.0		

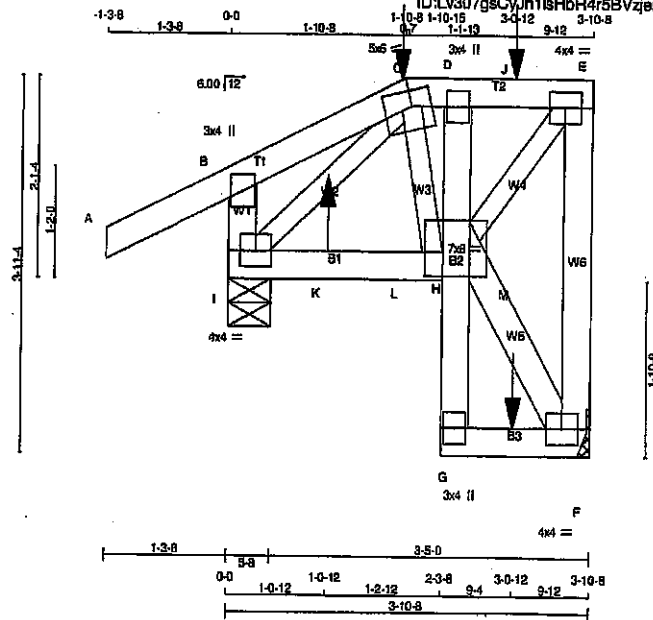


Structural component only
DWG# T-2007767 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408265	T79	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 26 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	2.50
D	TMV-p	MT20	3.0	4.0		
E	TMVW-i	MT20	4.0	4.0		
F	BMVW-i	MT20	4.0	4.0		
G	BMV-p	MT20	3.0	4.0		
H	BVMWW-i	MT20	7.0	8.0	3.00	2.25
I	BMVW-i	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	219	0	219	0
I	340	0	340	0

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

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL		
F	155	101/0	0/0	0/0	0/0	54/0	0/0		
F	155	101/0	0/0	0/0	0/0	54/0	0/0		

HORIZONTAL REACTIONS

JT	155	101/0	0/0	0/0	0/0	54/0	0/0
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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 = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (8)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO									
A-B	0/28	-91.8	-91.8	0.17 (5)	10.00	H-F	-8/0	0.00 (1)	
B-C	0/0	-91.8	-91.8	0.06 (1)	10.00	H-E	0/178	0.04 (1)	
C-D	-114/0	-88.9	-88.9	0.01 (1)	6.25	C-H	-8/10	0.00 (4)	
D-J	-110/0	-88.9	-88.9	0.03 (1)	6.25	I-C	-159/0	0.03 (1)	
J-E	-110/0	-88.9	-88.9	0.03 (1)	6.25				
F-E	-200/0	0.0	0.0	0.05 (1)	7.81				
I-B	-212/0	0.0	0.0	0.02 (1)	7.81				
I-K	0/115	-17.9	-17.9	0.04 (4)	10.00				
K-L	0/115	-17.9	-17.9	0.04 (4)	10.00				
L-H	0/115	-17.9	-17.9	0.04 (4)	10.00				
G-H	0/17	0.0	0.0	0.01 (1)	10.00				
H-D	-105/0	0.0	0.0	0.01 (1)	7.81				
G-M	0/3	-17.9	-17.9	0.02 (4)	10.00				
M-F	0/3	-17.9	-17.9	0.02 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	1-10-15	-15	-15	---	FRONT	VERT	TOTAL	C1
J	3-0-12	-3	-3	---	BACK	VERT	TOTAL	C1
K	1-0-12	6	1	12	BACK	VERT	TOTAL	C1
M	3-0-12	-3	-3	---	BACK	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	=	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

*** NON STANDARD GIRDER ***

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 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.18")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.18")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TG=0.17/1.00 (A-B-5), BC=0.04/1.00 (H-I-4),
WB=0.04/1.00 (E-F-1), SS=0.12/1.00 (A-B-5)

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)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (H) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007768

Tamarack Roof Truss, Burlington



DRY: SEASONED LUMBER

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

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

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)

FACTORED CONCENTRATED LOADS (LBS)

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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 086-08, 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/380 (0.29")
CALCULATED VERT. DEFL.(LL)= L/899 (0.01")
ALLOWABLE DEFL.(TL)= L/380 (0.29")
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")

CSI: TC=0.16/1.00 (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)	(PSI)	(PLI)	(PSI)	(PLI)
MT20	818	354	1667	788	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

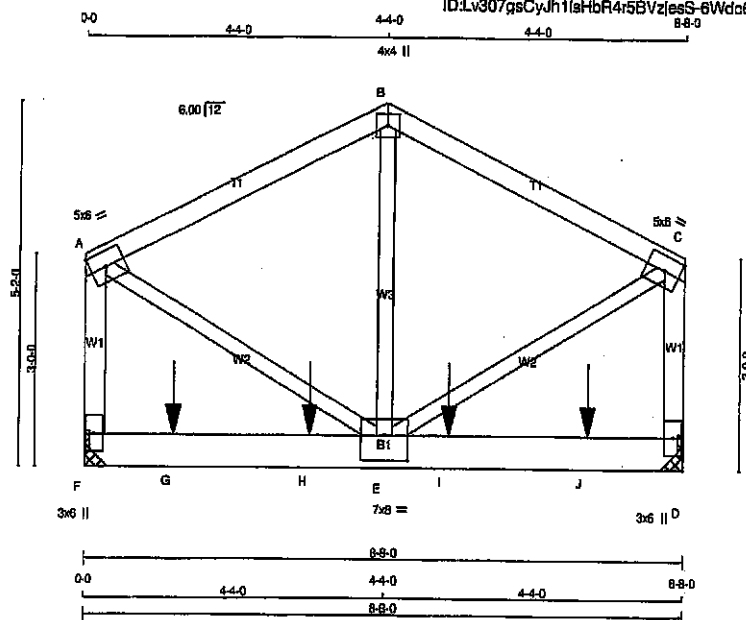
JSI GRIP= 0.75 (G) (INPUT = 0.90)
JSI METAL= 0.23 (G) (INPUT = 1.00)



JOB NAME 408265	TRUSS NAME T81	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:30.3



TOTAL WEIGHT = 2 X 43 = 87 lb

LUMBER				DESCR.	
N.L.G.A. RULES					
CHORDS	SIZE	LUMBER			
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	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	8.0		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

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	2480	1647 / 0	0 / 0	0 / 0	833 / 0	0 / 0
D	2419	1607 / 0	0 / 0	0 / 0	612 / 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		FACTORED		WEBS	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	-2294 / 0	-91.8 -91.8	0.19 (1)	E-B	0 / 1654
B-C	-2294 / 0	-91.8 -91.8	0.19 (1)	A-E	0 / 2394
F-A	-2459 / 0	0.0 0.0	0.19 (1)	E-C	0 / 2394
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.

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, 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 (0.29")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.29")
CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TC=0.19/1.00 (A-F:1), BC=0.66/1.00 (D-E:1),
WB=0.50/1.00 (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 (PL)
MT20	618	354
	1687	788
	1987	1656

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)



Structural component only
DWG# T-2007770 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T81	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMVW-1	MT20	5.0	6.0		Edge
D	BMV1+p	MT20	3.0	6.0		
E	BMVWW-1	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.

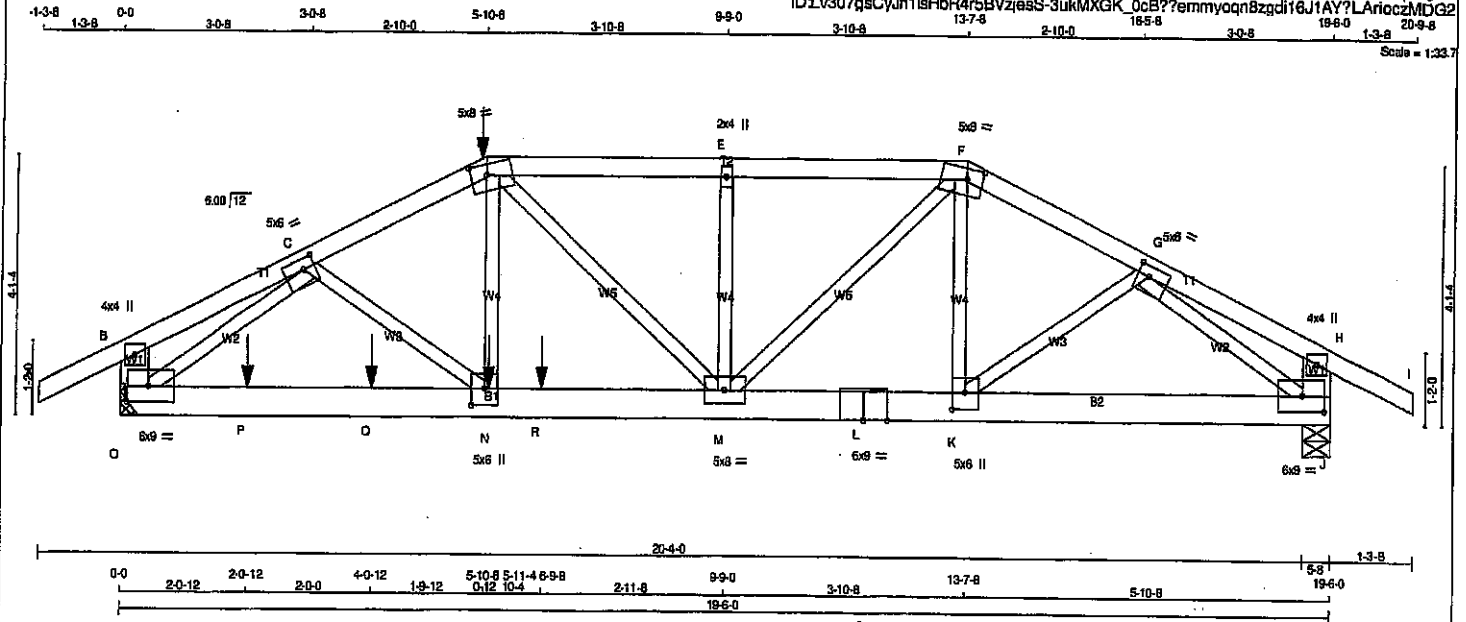


Structural component only
DWG# T-2007770 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T82	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 92 lb

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	4.0	4.0	
C	TMVW-1	MT20	5.0	6.0	2.00 2.25
D	TTWW-m	MT20	5.0	8.0	2.00 3.00
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	2.00 3.00
G	TMVW-1	MT20	5.0	6.0	2.00 2.25
H	TMV-p	MT20	4.0	4.0	
J	BMVW-1	MT20	6.0	9.0	3.00 4.25
K	BMVW-1	MT20	5.0	6.0	3.25 2.50
L	BS-1	MT20	6.0	9.0	
M	BMVW-1	MT20	5.0	6.0	
N	BMVW-1	MT20	5.0	6.0	3.25 2.50
O	BMVW-1	MT20	6.0	9.0	3.00 4.25

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	UP/LIFT	IN-SX	IN-SX
O	2518	0	2518	0	0
J	1854	0	1854	0	5-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1774	1204 / 0	0 / 0	0 / 0	0 / 0	570 / 0	0 / 0
J	1305	890 / 0	0 / 0	0 / 0	0 / 0	415 / 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 = 3.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.13 (1)	10.00	C-N	0 / 462	0.11 (1)
B-C	0 / 8	-91.8	-91.8 0.12 (1)	10.00	N-D	0 / 1057	0.26 (1)
C-D	-3689 / 0	-91.8	-91.8 0.31 (1)	3.38	D-M	-180 / 0	0.08 (1)
D-E	-3197 / 0	-91.8	-91.8 0.38 (1)	3.54	M-E	-415 / 0	0.11 (1)
E-F	-3197 / 0	-91.8	-91.8 0.38 (1)	3.54	M-F	0 / 1360	0.34 (1)
F-G	-2493 / 0	-91.8	-91.8 0.19 (1)	4.17	K-F	-87 / 43	0.02 (1)
G-H	0 / 9	-91.8	-91.8 0.11 (1)	10.00	K-G	0 / 218	0.05 (1)
H-I	0 / 28	-91.8	-91.8 0.13 (1)	10.00	O-C	-3681 / 0	0.88 (1)
O-B	-246 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-2570 / 0	0.61 (1)
J-H	-239 / 0	0.0	0.0 0.02 (1)	7.81			
O-P	0 / 2927	-18.5	-18.5 0.58 (1)	10.00			
P-Q	0 / 2927	-18.5	-18.5 0.58 (1)	10.00			
Q-N	0 / 2927	-18.5	-18.5 0.58 (1)	10.00			
N-R	0 / 3327	-18.5	-18.5 0.98 (1)	10.00			
R-M	0 / 3327	-18.5	-18.5 0.98 (1)	10.00			
M-L	0 / 2216	-18.5	-18.5 0.41 (1)	10.00			
L-K	0 / 2216	-18.5	-18.5 0.41 (1)	10.00			
K-J	0 / 2044	-18.5	-18.5 0.33 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-459	-459	---	BACK	VERT	TOTAL	---	C1
N	5-11-4	-26	-26	---	BACK	VERT	TOTAL	---	C1
P	2-0-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
Q	4-0-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
R	8-9-8	-1435	-1435	---	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, 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 (0.85")
CALCULATED VERT. DEFL.(LL) = L/989 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/899 (0.19")

CSI: TC=0.39/1.00 (E-F:1), BC=0.98/1.00 (M-N:1), WB=0.68/1.00 (C-O:1), SS=0.78/1.00 (M-N: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
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618	354
	1667	785
	1987	1659

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (O) (INPUT = 0.90)

JSI METAL = 0.96 (C) (INPUT = 1.00)



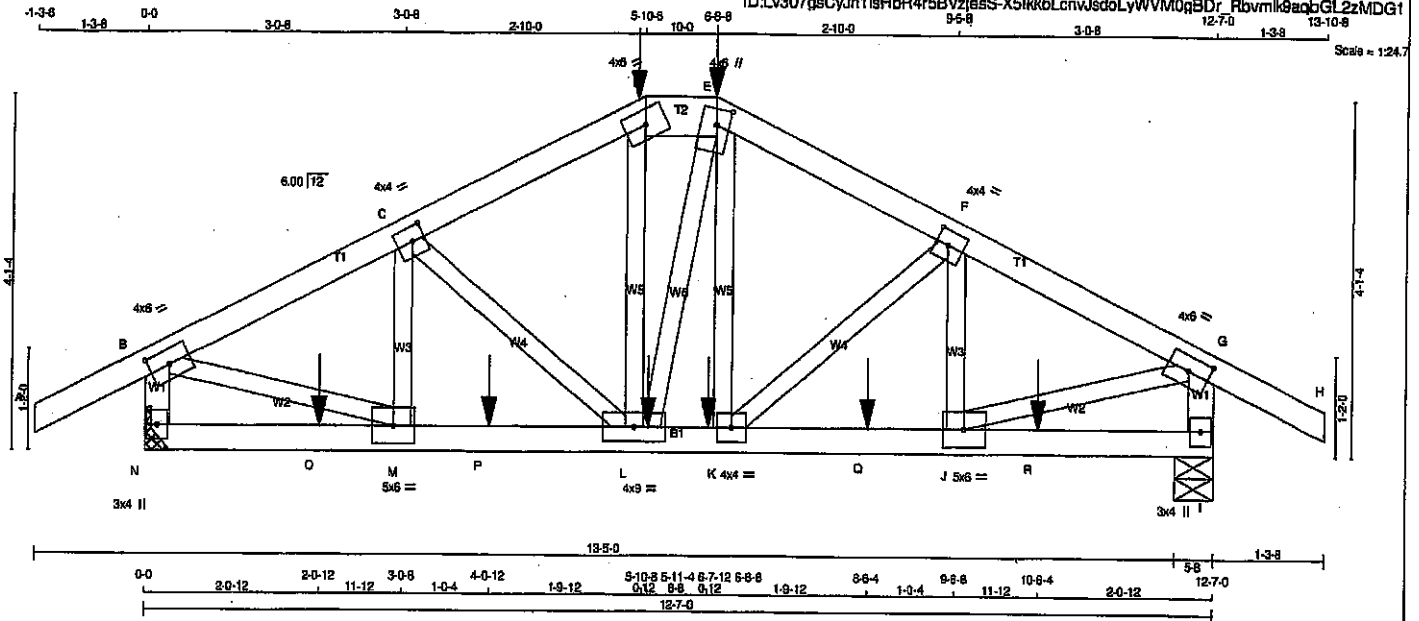
Structural component only
DWG# T-2007771

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	T83	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:Lv307gsCyJht1stHbR4r5BVzjesS-X5HkblcnwJwVwM0gBDr Rbvmk8aobGL2zMDG1



TOTAL WEIGHT = 58 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
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
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table in notes)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	2.00	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-h	MT20	4.0	6.0		
E	TTWW-t	MT20	4.0	6.0	2.25	1.75
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TMVW-t	MT20	4.0	6.0	2.00	3.00
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	BMVW-t	MT20	4.0	9.0		
M	BMVW-t	MT20	5.0	6.0		
N	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
N	1393	0	0	MECHANICAL
I	1393	0	0	5-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	982	664/0	0/0	0/0	0/0	318/0	0/0
I	982	664/0	0/0	0/0	0/0	318/0	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 = 5.04 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)

FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
A-B	0/28	-91.8	-91.8	0.13 (1)	10.00	M-C	-314/0	0.06 (1)	
B-C	-1580/0	-91.8	-91.8	0.15 (1)	5.07	C-L	-28/10	0.01 (4)	
C-D	-1613/0	-91.8	-91.8	0.15 (1)	5.04	L-D	0/94	0.04 (4)	
D-E	-1497/0	-91.8	-91.8	0.02 (1)	6.25	E-E	0/6	0.00 (4)	
E-F	-1612/0	-91.8	-91.8	0.15 (1)	5.04	K-E	0/87	0.03 (4)	
F-G	-1580/0	-91.8	-91.8	0.15 (1)	5.07	J-F	-32/7	0.01 (4)	
G-H	0/28	-91.8	-91.8	0.13 (1)	10.00	J-F	-312/0	0.06 (1)	
N-B	-1359/0	0.0	0.0	0.15 (1)	6.93	B-M	0/1488	0.37 (1)	
I-G	-1359/0	0.0	0.0	0.15 (1)	6.93	J-G	0/1488	0.37 (1)	
N-O	0/0	-18.5	-18.5	0.06 (4)	10.00				
O-M	0/0	-18.5	-18.5	0.06 (4)	10.00				
M-P	0/1432	-18.5	-18.5	0.29 (1)	10.00				
P-L	0/1432	-18.5	-18.5	0.29 (1)	10.00				
L-K	0/1436	-18.5	-18.5	0.27 (1)	10.00				
K-Q	0/1432	-18.5	-18.5	0.29 (1)	10.00				
Q-J	0/1432	-18.5	-18.5	0.29 (1)	10.00				
J-R	0/0	-18.5	-18.5	0.06 (4)	10.00				
R-I	0/0	-18.5	-18.5	0.06 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-496	-496		BACK	VERT	TOTAL		C1
E	6-8-8	-496	-496		BACK	VERT	TOTAL		C1
K	6-7-12	-26	-26		BACK	VERT	TOTAL		C1
L	5-11-4	-26	-26		BACK	VERT	TOTAL		C1
O	2-0-12	-26	-26		BACK	VERT	TOTAL		C1
P	4-0-12	-26	-26		BACK	VERT	TOTAL		C1
Q	8-8-4	-26	-26		BACK	VERT	TOTAL		C1
R	10-6-4	-26	-26		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
BDT 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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2018 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.15/1.00 (F-G:1), BC=0.29/1.00 (J-K:1), WS=0.37/1.00 (G-J:1), SSI=0.13/1.00 (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)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618	354
	1867	789
	1987	1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.84 (G) (INPUT = 0.90)
JSI METAL= 0.43 (G) (INPUT = 1.00)



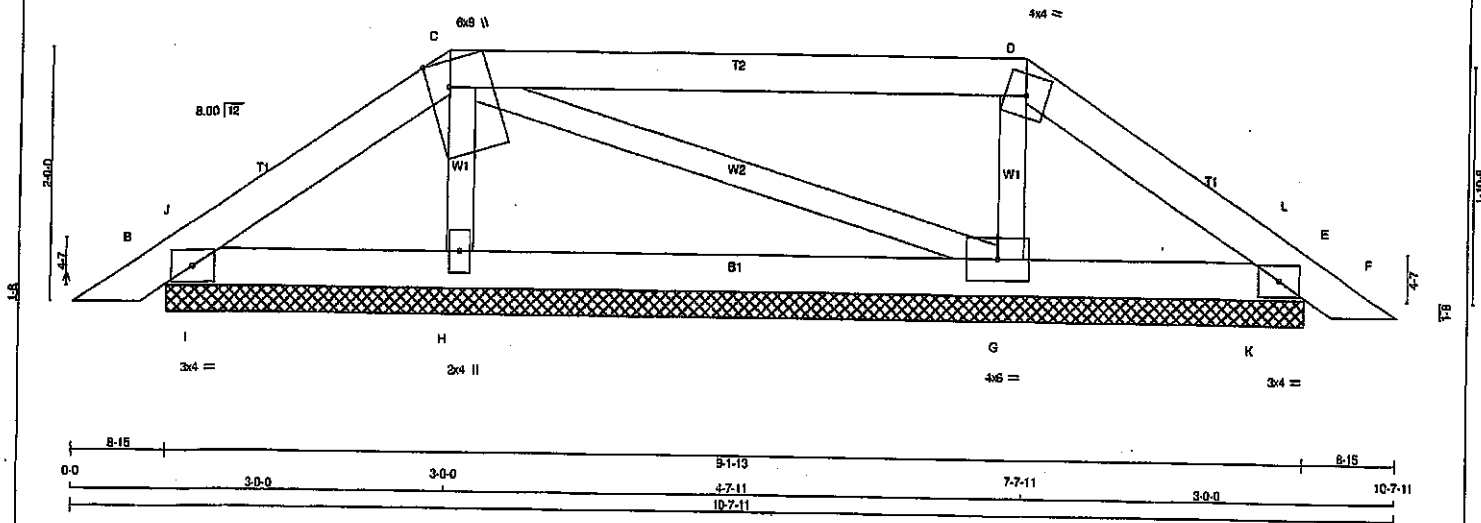
Structural component only
DWG# T-2007772

JOB NAME 408263	TRUSS NAME PB2	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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7-7-11 10-7-11

Scale = 1:16.8



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
B - E	2x4	DRY	No.2

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (table is 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	TTWW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMW1-I	MT20	4.0	6.0		
H	BMW1-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

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		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. CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (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)	6.25	G-D	-285/0	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)	8.25	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	0.08 (1)	10.00			
I-H	0/62	-18.5	-18.5	0.07 (4)	10.00			
H-G	0/46	-18.5	-18.5	0.05 (4)	10.00			
G-K	0/49	-18.5	-18.5	0.05 (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 = 25.6 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

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)	(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= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (H) (INPUT = 1.00)

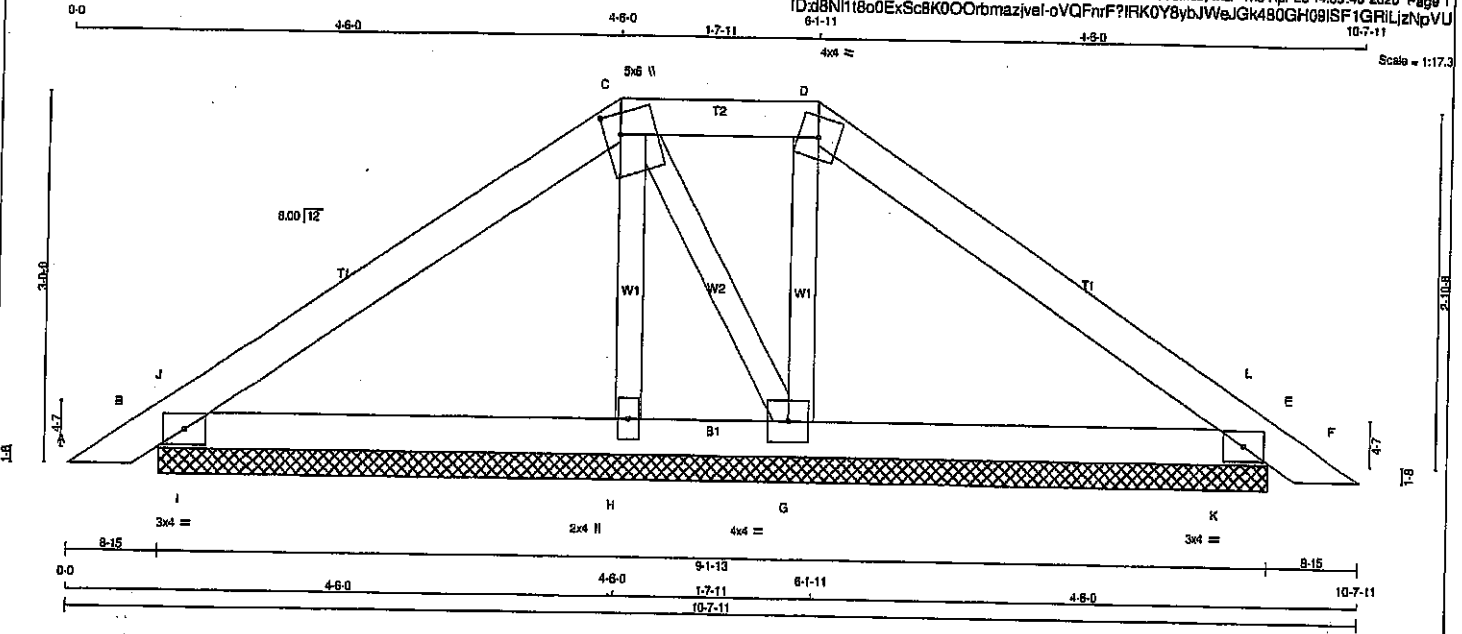


Structural component only
DWG# T-2006757

JOB NAME 408263	TRUSS NAME PB3	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 14:59:43 2020 Page 1
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10-7-11
Scale = 1:17.3



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
D - F	2x4	DRY	No.2	SPF
B - E	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (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	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMW1-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	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 CASE COMBINED		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	DOWN			
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 = 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. LOCAL CSI (LC)	MAX. UNBRAC 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	0.06 (1)	6.25	C-G	-52 / 0	0.01 (1)
J-C	-135 / 0	-91.8	-91.8	0.16 (1)	6.25	G-D	-168 / 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	0.06 (1)	6.25			
E-F	0 / 15	-91.8	-91.8	0.03 (1)	10.00			
B-I	0 / 108	-18.5	-18.5	0.14 (1)	10.00			
I-H	0 / 108	-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.	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. 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 2010, 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.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 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

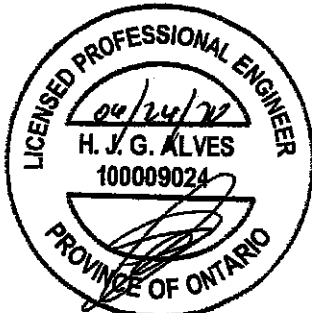
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES	PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354	1667 788 1987 1658

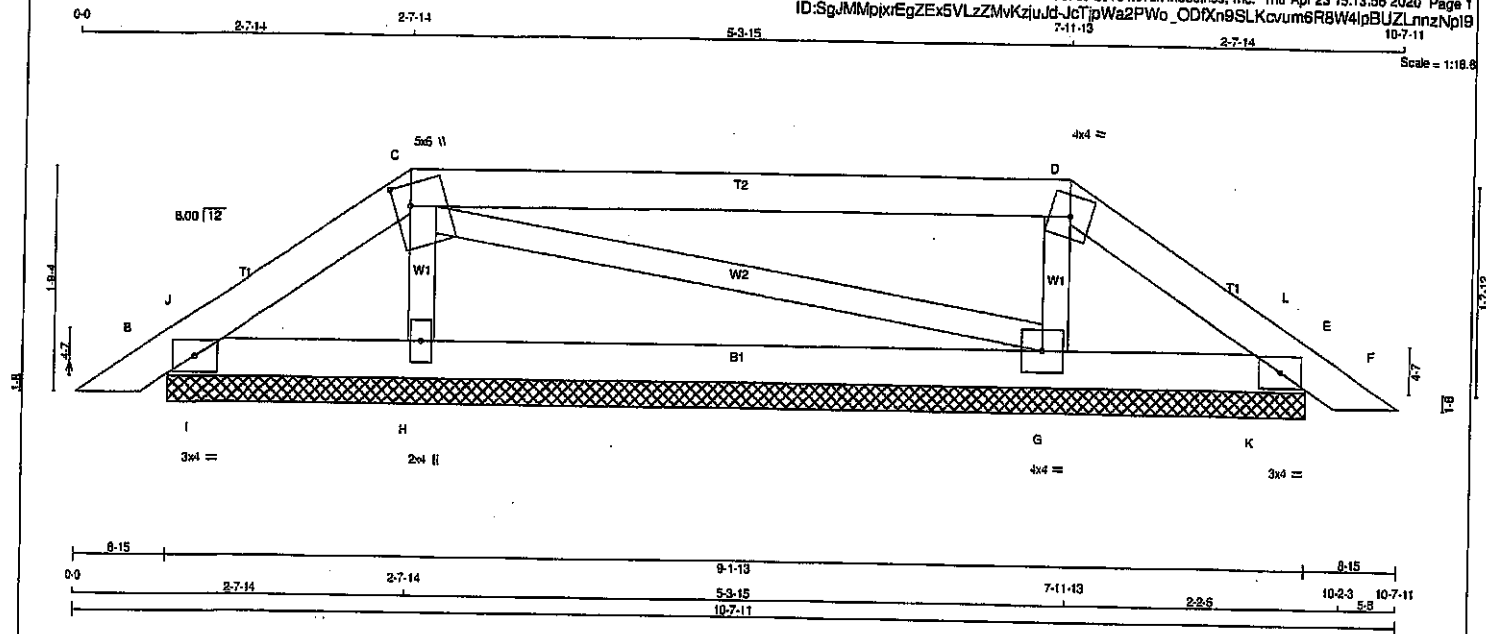
PLATE PLACEMENT TOL. = 0.250 inches

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



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
D - F	2x4	DRY	No.2	SPF
B - E	2x4	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 - C 1	12	TOP
C - D 1	12	TOP
D - F 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B - E 1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	8	

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
B - TMB1-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 - 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	188	0	188	0	9-1-13	9-1-13
E	182	0	182	0	9-1-13	9-1-13
H	375	0	375	0	9-1-13	9-1-13
G	386	0	386	0	9-1-13	9-1-13

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	130	105.0	0.0	0.0	0.0	25.0	0.0
E	125	101.0	0.0	0.0	0.0	24.0	0.0
H	267	182.0	0.0	0.0	0.0	105.0	0.0
G	275	168.0	0.0	0.0	0.0	107.0	0.0

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

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0.15	-91.8	-91.8	0.01 (1)	10.00	H-C	-274.0	0.02 (1)	
B-J	-52.0	-91.8	-91.8	0.01 (1)	6.25	C-G	-10.0	0.00 (1)	
J-C	-70.0	-91.8	-91.8	0.02 (1)	6.25	G-D	-282.0	0.02 (1)	
C-D	-24.0	-91.8	-91.8	0.02 (1)	6.25	F-J	-115.0	0.00 (1)	
D-L	-59.0	-91.8	-91.8	0.02 (1)	6.25	K-L	-118.0	0.00 (1)	
L-E	-41.3	-91.8	-91.8	0.01 (1)	6.25				
E-F	0.15	-91.8	-91.8	0.01 (1)	10.00				
B-I	0.55	-18.5	-18.5	0.02 (1)	10.00				
I-H	0.55	-18.5	-18.5	0.04 (4)	10.00				
H-G	0.34	-18.5	-18.5	0.04 (4)	10.00				
G-K	0.46	-18.5	-18.5	0.04 (4)	10.00				
K-E	0.46	-18.5	-18.5	0.02 (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, NBC 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

CSI: TC=0.22/1.00 (C-D:1), BC=0.04/1.00 (H-I:4), WB=0.02/1.00 (D-G:1), SSI=0.10/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

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)

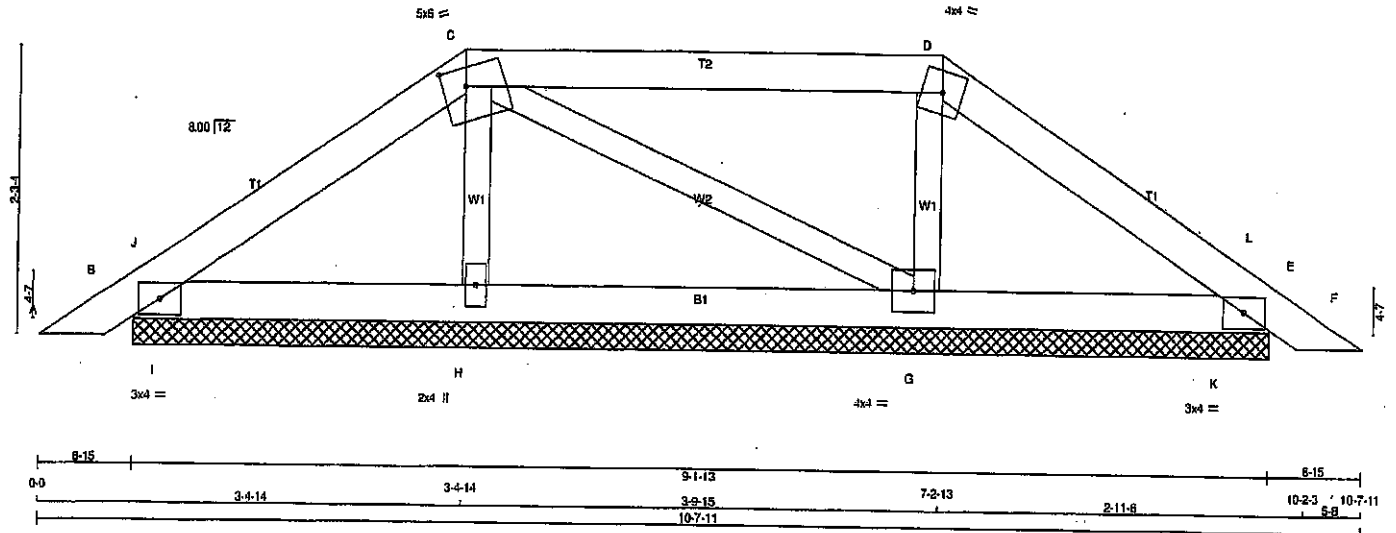


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408264	PB22	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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0-0 3-4-14 3-4-14 3-9-15 7-2-13 3-4-14 10-7-11
Scale = 1:16.8



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

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	TTWW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMWW1-t	MT20	4.0	4.0		
H	BMWW1-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	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	175	128 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0
E	165	121 / 0	0 / 0	0 / 0	0 / 0	45 / 0	0 / 0
H	217	134 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0
G	240	153 / 0	0 / 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 = 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. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO	LENGTH	FR-TO		FROM TO	LENGTH
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)	6.25	C-G	-23 / 0	0.01 (1)
J-C	-93 / 0	-91.8 -91.8	0.08 (1)	6.25	G-D	-241 / 0	0.04 (1)
C-D	-41 / 0	-91.8 -91.8	0.23 (1)	6.25	D-J	-165 / 0	0.00 (1)
D-L	-89 / 0	-91.8 -91.8	0.08 (1)	6.25	K-L	-187 / 0	0.00 (1)
L-E	-41 / 0	-91.8 -91.8	0.02 (1)	6.25			
E-F	0 / 15	-91.8 -91.8	0.03 (1)	10.00			
B-I	0 / 74	-18.5 -18.5	0.08 (1)	10.00			
I-H	0 / 74	-18.5 -18.5	0.05 (4)	10.00			
H-G	0 / 55	-18.5 -18.5	0.08 (1)	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			

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

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, NSCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA C88-09, CSA C88-14
- 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

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
(FS)	(PL)	(PL)	(PL)
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.

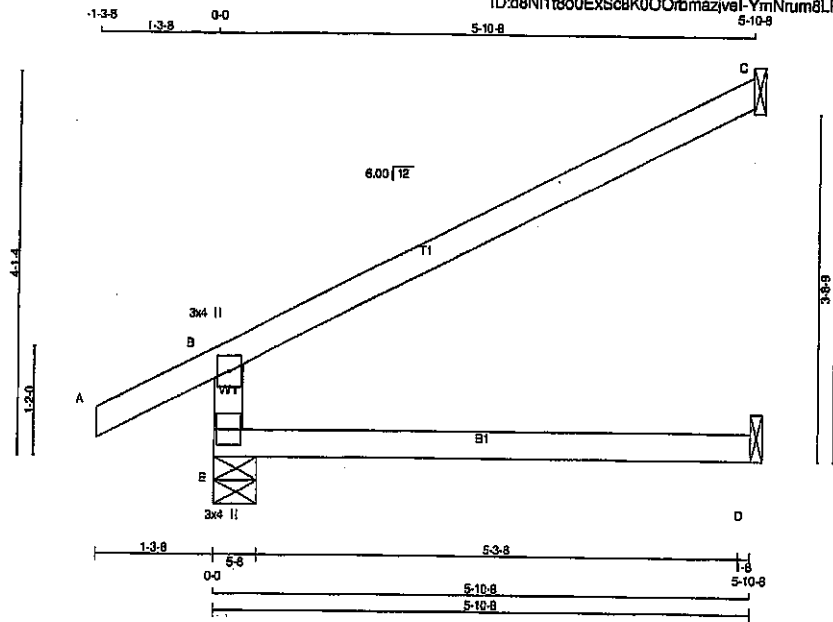
JSI GRIP= 0.20 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2006791

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	J1	9	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:59:34 2020 Page 1					
ID: d8N11t8o0ExSc8K00Orbmazivel-YmNum8LPqBH7mH7_CO-CWKeC5ZDhwzMIkIzNpVd					
Scale = 1:22.5					



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
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

DESCR.	FACTORED		MAXIMUM FACTORED		INPUT		RECRD	
	GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
E	525	0	525	0	0	5-8	5-8	
C	202	0	202	0	0	1-8	1-8	
D	45	0	50	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
E	369	257 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0	
C	139	113 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0	
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 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 = 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)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. LOAD (PLF)	MAX. CSI (LC)	MEMB. FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FORCE (LBS)	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			

TOTAL WEIGHT = 9 X 17 = 151 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 NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 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) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/939$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/939$ (0.03")

CSI: TC=0.54/1.00 (B-C:1), 8C=0.13/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), 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 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)	(PLI)	(PLI)
	MAX	MIN	MAX	MIN
MT20	818	354	1667	788

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)



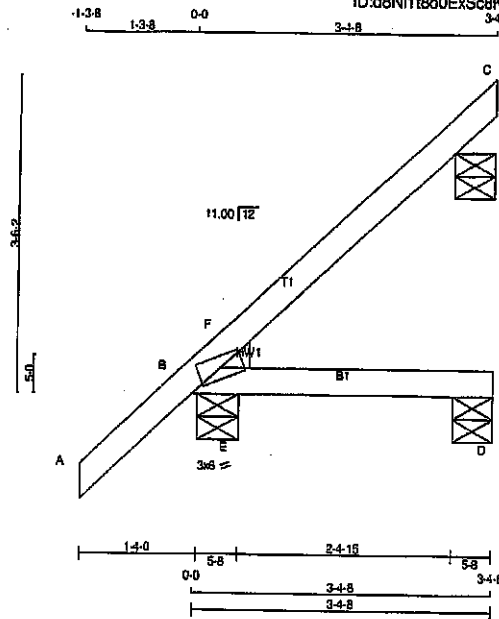
Structural component only
DWG# T-2006751

JOB NAME 408263	TRUSS NAME J2	QUANTITY 10	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:23.6



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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	HEEL WEDGE
JT	VERT	DOWN	UP/LIFT	IN-SX	
C	131	0	0	5-8	
B	314	0	0	5-8	
D	56	0	0	5-8	2x4 L

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
C	90	70 / 0	0 / 0	0 / 0	0 / 0	20 / 0
B	219	157 / 0	0 / 0	0 / 0	0 / 0	62 / 0
D	41	16 / 0	0 / 0	0 / 0	0 / 0	25 / 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)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)
MEMB.					MEMB.		
FR-TO					FR-TO		
A-B	0 / 42	-91.8	-91.8	0.14 (5)	10.00	E-F	-178 / 0
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, 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 21.3 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) = $L/360$ (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: TC=0.14/1.00 (A-B-5), BC=0.11/1.00 (B-E-1),
WB=0.00/1.00 (E-F-1), SS=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 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.15 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)

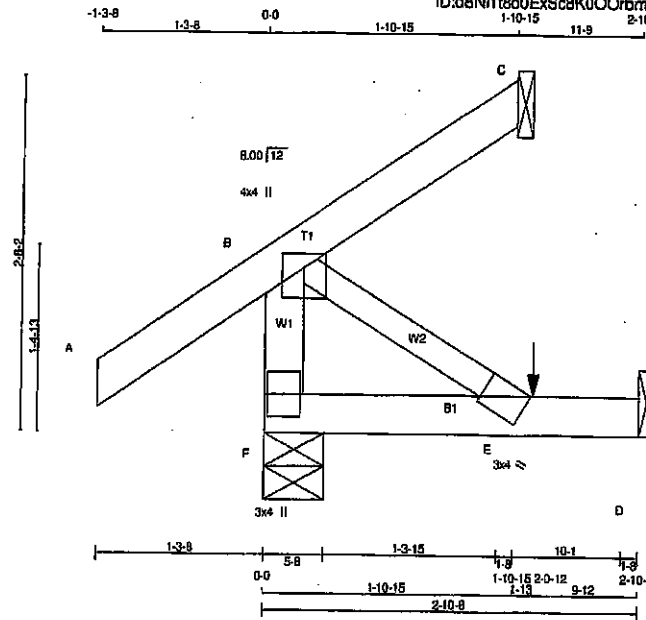


Structural component only
DWG# T-2006752

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	J3	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:d8NH1t8o0ExSc8K00Orbmazivel-zL3zWoBEbasqDUSyFv0Tq6rG7laPNIK_074znPvA

Scale: 3/4"=1'



TOTAL WEIGHT = 2 X 11 = 21 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMV+w	MT20	3.0	4.0		Edge
F	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 RECD
	VERT	DOWN	BRG
F	286	0	5-8
C	42	0	1-8
D	27	0	1-8

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE	
F	200	144 / 0	0 / 0	0 / 0	55 / 0
C	29	24 / -25	0 / 0	0 / 0	6 / 0
D	22	0 / 0	0 / 0	0 / 0	22 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
F-B	-259 / 0	0.0	0.0 0.03 (1)	7.81	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8 0.14 (5)	10.00			
B-C	-25 / 0	-91.8	-91.8 0.13 (5)	6.25			
F-E	0 / 0	-18.5	-18.5 0.05 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.04 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-0-12	-1	-	-	BACK	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	= 25.6	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, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-08, 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) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.14/1.00 (A-B:5), BC=0.05/1.00 (E-F:4),
WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (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 1658

PLATE PLACEMENT TOL. = 0.250 inches

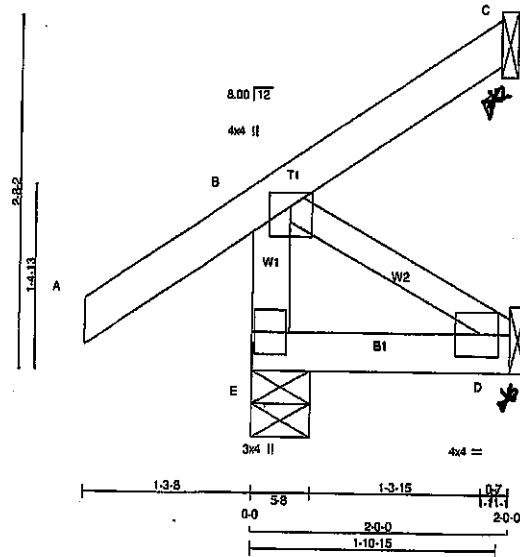
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006753

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408263	J4	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 23 14:58:38 2020 Page 1					
ID: d8N1112o0ExSc8K00Orbmazjel-RYdMk8BsTuijSN3eWy38ZhMlqFcmU1RWu_jgWzNpVZ					
1-3-8 1-3-8 0-0 1-10-15 1-10-15 2-0-0 1-10-15 1-10-15					
Scale = 1:16.2					



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
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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
E	276	0	276	0	5-8
C	42	0	42	0	1-8
D	18	0	20	0	1-8

SEE MITEK STANDARD DETAIL B97781H 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
E	192	144 / 0	0 / 0
C	29	24 / -25	0 / 0
D	14	0 / 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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO			
E-B	-259 / 0	0.0	0.03 (1)
A-B	0 / 35	-91.8	0.12 (1)
B-C	-25 / 0	-91.8	0.12 (1)
E-D	0 / 0	-18.5	0.02 (4)

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

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 OSC 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. (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)

DDL 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.

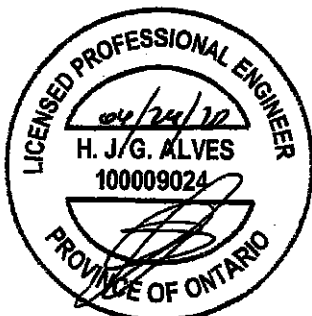
NAIL VALUES

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= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

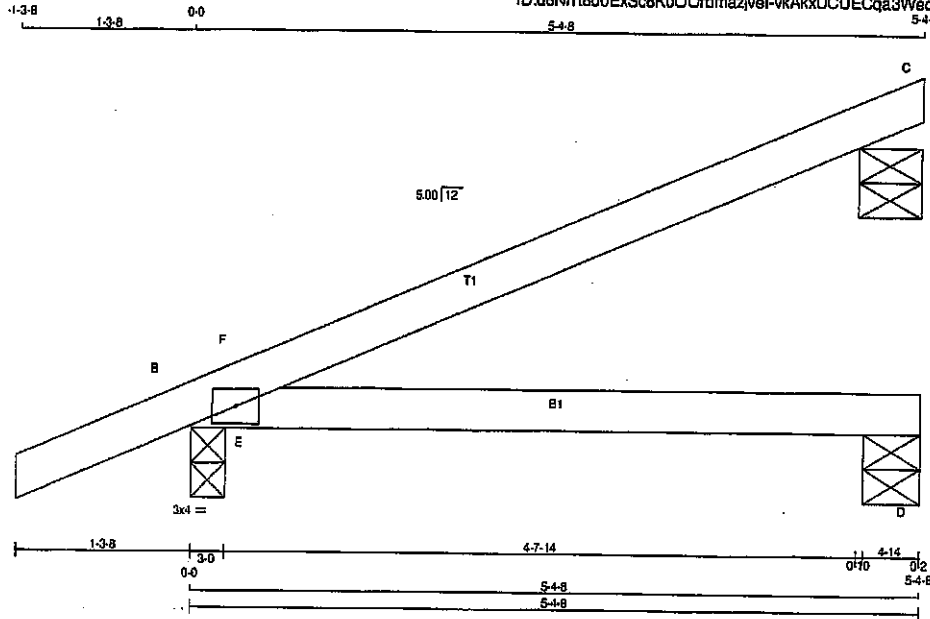


Structural component only
DWG# T-2006754

JOB NAME 408263	TRUSS NAME J5	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:15.4

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
C	218	218	5-8	5-8
B	420	420	3-0	3-0
D	81	81	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 CASE	MAX/MIN COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	149	116 / 0	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0
B	295	206 / 0	0 / 0	0 / 0	0 / 0	0 / 0	88 / 0	0 / 0
D	80	21 / 0	0 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					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 0.08 (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 DL/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 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 (0.05')
ALLOWABLE DEFL.(TL) = L/360 (0.19')
CALCULATED VERT. DEFL.(TL) = L/841 (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), SSI=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)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	818	354	1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

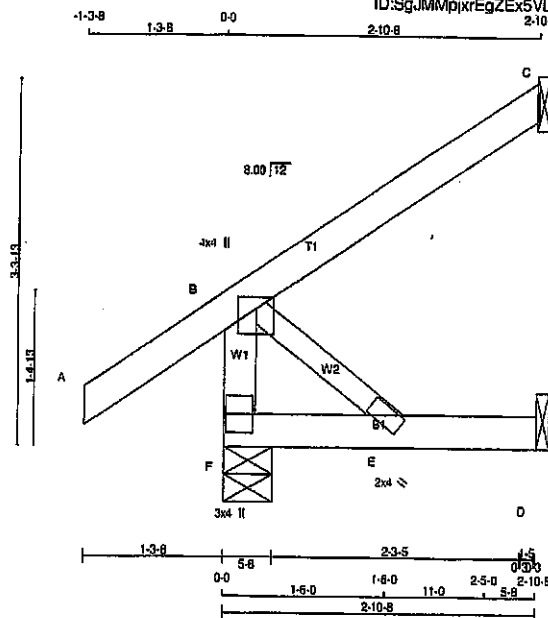
JSI GRIP= 0.31 (B) (INPUT = 0.50)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006755

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408264	J21	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 2 X 12 = 23 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS	2x4	DRY	SPF
F - B	2x4	DRY	SPF
A - C	2x4	DRY	SPF
F - D	2x4	DRY	SPF
ALL WEBS	2x3	DRY	SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMVW+w	MT20	2.0	4.0	
F	BMVt+p	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	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	HORIZ	BRG	IN-SX	BRG	IN-SX
F	284	0	284	0	0	5-8	5-8		
C	132	0	132	0	0	1-8	1-8		
D	27	0	30	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		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	VERT	LOAD	LC1	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
F	199	144.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	0.0	0.0	0.0	0.0	0.0
C	91	74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0
D	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
F-B	-288.0	0.0	0.0	0.03 (1)	7.81	0.0	0.0
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

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 8 OF BOSC 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) = $L/360$ (0.18")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.18")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.13/1.00 (A-B:5), BC=0.04/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (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	SECTION
(PSI)	(PLI)	(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 = 0.18 (B) (INPUT = 0.50)
JSI METAL = 0.05 (B) (INPUT = 1.00)



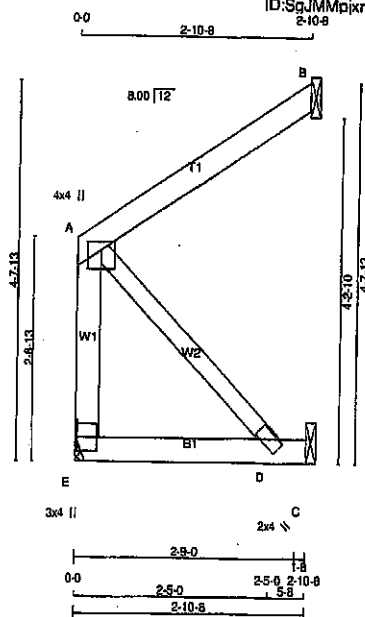
Structural component only
DWG# T-2006784

JOB NAME 408264	TRUSS NAME J22	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID: SgJMMpkrEgZEx5VLzZMvKzJd-US5RYTVHqg2qglCORuLxSLfuklQl6MawpY61a7zNplF

Scale = 1/28.1



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	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	TMW+p	MT20	4.0	4.0	1.25 2.00
D	BMW+w	MT20	2.0	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	RECORD BRG
E	158	158	0	0
B	132	132	0	0
C	27	30	0	0

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

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
E	112	74/0	0/0	PERM LIVE WIND DEAD SOIL
B	91	74/0	0/0	0/0 39/0 0/0
C	21	0/0	0/0	0/0 17/0 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.	CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
FR-TO	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB. FORCE (LBS)	MAX. FACTORED
E-A	-132/0	0.0	0.0 0.02 (1)	7.81	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

(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/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 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 (0.19")
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), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

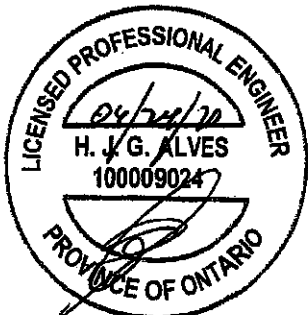
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (A) (INPUT = 0.50)
JSI METAL= 0.03 (A) (INPUT = 1.00)



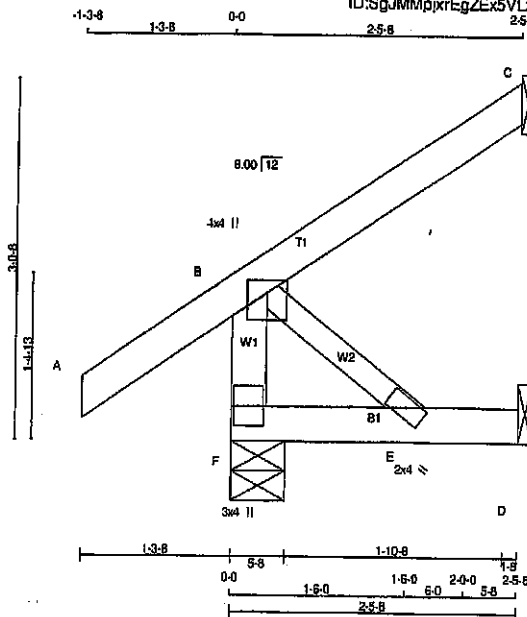
Structural component only
DWG# T-2006785

JOB NAME 408264	TRUSS NAME J23	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:18.0



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.

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+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	REQD BRG
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	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
F	183	133 / 0	0 / 0	49 / 0	0 / 0
C	78	83 / 0	0 / 0	15 / 0	0 / 0
D	18	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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. FACTORED CS1 (LC)	UNBRAC LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)
F-B		-239 / 0	0.0	0.0	0.02 (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	0.09 (1)	10.00				
F-E		0 / 0	-18.5	-18.5	0.03 (4)	10.00				
E-D		0 / 0	-18.5	-18.5	0.03 (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	= 25.6 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 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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 (0.00")

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=0.00/1.00 (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 (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 = 0.17 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



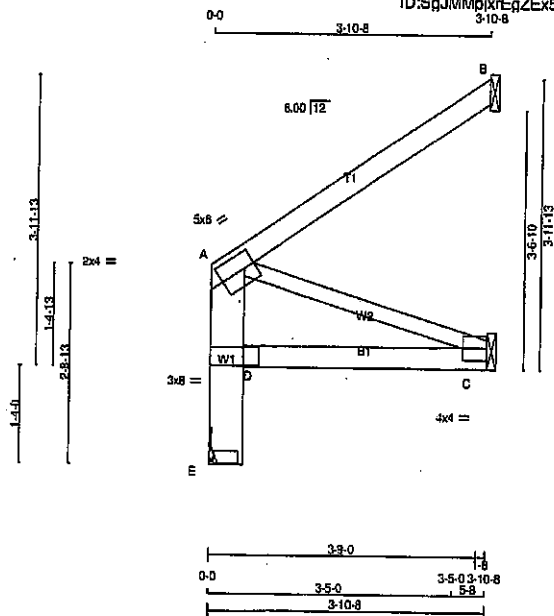
Structural component only
DWG# T-2006786

JOB NAME 408264	TRUSS NAME J25	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:25.0



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
E - A	2x8	DRY	No.2
A - B	2x4	DRY	No.2
D - C	2x4	DRY	No.2

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

DESCR.

SPF

SPF

SPF

SPF

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
E	212	212	MECHANICAL	MECHANICAL
B	178	178	1-8	1-8
C	34	38	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 B97791H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	150	99/0	0/0	0/0	0/0	0/0	51/0	0/0
B	122	99/0	0/0	0/0	0/0	0/0	23/0	0/0
C	27	0/0	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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC)
FR-TO						FR-TO			
E-D		-212/0	0.0	0.0	0.02 (1)	A-C		0/0	0.00 (1)
D-A		-178/0	0.0	0.0	0.01 (1)				
A-B		0/0	-91.8	-91.8	0.23 (1)				
D-C		0/0	-18.5	-18.5	0.07 (4)				

TOTAL WEIGHT = 6 X 17 = 102 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 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

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), SS=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 (PSI)	PLI	PLJ
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 = 0.03 (D) (INPUT = 1.00)

PLATES (table is in inches)

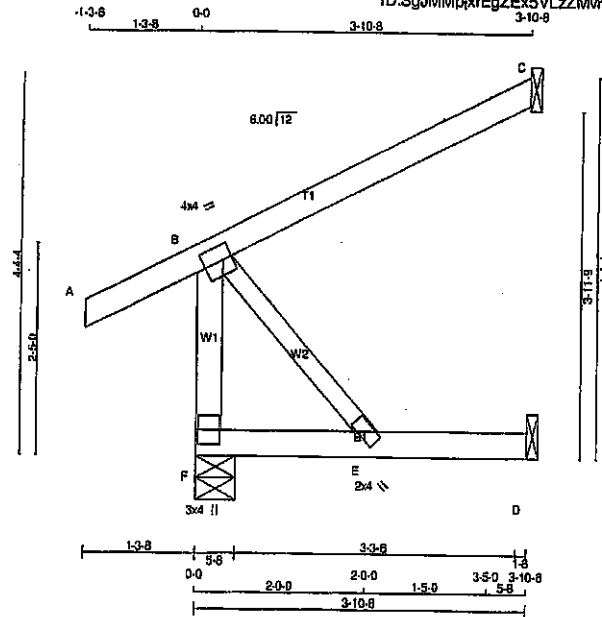
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	6.0	2.50	1.75
A	TP-p	MT20	2.0	4.0	5.50	0.75
C	BMW1-1	MT20	4.0	4.0		
D	BVM-1	MT20	3.0	8.0	1.50	2.50



Structural component only
DWG# T-2006788

JOB NAME 408264	TRUSS NAME J26	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID: SgJMMpXrEgZEx5VLzZMvKzjuJd-rPvKbAZQeDg7m44LDRx6oPMkpj4IncpfyqoFLzNpIA



TOTAL WEIGHT = 7 X 16 = 109 lb

LUMBER	DESCR.
N.L.G.A. RULES	
CHORDS SIZE	
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)	W	LEN	Y	X
JT TYPE PLATES				
S TMVW-1 MT20 4.0 4.0 2.00 1.25				
E BMVW-w MT20 2.0 4.0				
F BMVW-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		
F	338	0	338	0	5-8	5-8
C	178	0	178	0	1-8	1-8
D	36	0	40	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	237	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	29	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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)	MAX. UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
FR-TO				
F-B	-302 / 0	0.0 0.0 0.04 (1)	7.81	0 / 0
A-B	0 / 28	-91.8 -91.8 0.14 (5)	10.00	
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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.5 PSF
DL	= 6.0 PSF
BDT 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 086-08, 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 (0.18")
CALCULATED VERT. DEFL.(LL)	= L/999 (0.06")
ALLOWABLE DEFL.(TL)	= L/360 (0.18")
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), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

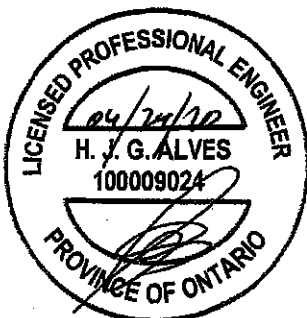
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

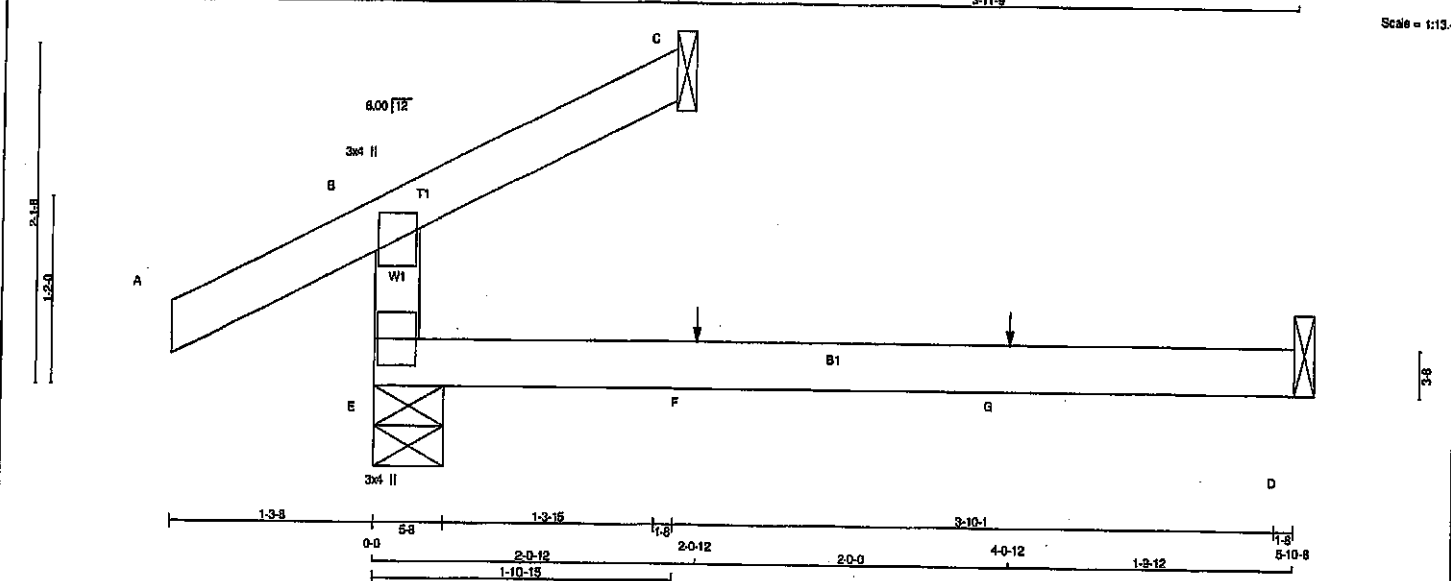
JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006789

JOB NAME 408265	TRUSS NAME J61	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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5-10-8
Scale = 1:13.4



LUMBER	SIZE	DRY	LUMBER
N. L. G. A. RULES			
CHORDS	2x4	DRY	No.2
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)	W	LEN	Y	X
JT TYPE				
B TMV+p	MT20	3.0	4.0	
E BMV1+p	MT20	3.0	4.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT VERT	DOWN	HORIZ	UPLIFT	IN-SX
E 297	0	297	0	5-8
C 68	0	68	0	1-8
D 45	0	50	0	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
E 212	130 / 0	0 / 0	0 / 0
C 48	37 / 0	0 / 0	0 / 0
D 36	0 / 0	0 / 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	MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	LC1	MAX	MAX	UNBRAC	MEMB.	MAX. FACTORED	FORCE	MAX
FR-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	DIF.	TYPE	HEEL	CONN.
F	2-0-12	1	1	---	---	FRONT	VERT	TOTAL	---	C1
G	4-0-12	1	1	---	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 5 X 12 = 70 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, 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 25.8 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: TC=0.13/1.00 (B-E), BC=0.13/1.00 (D-E), WB=0.00/1.00 (A-E), 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 1987 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)

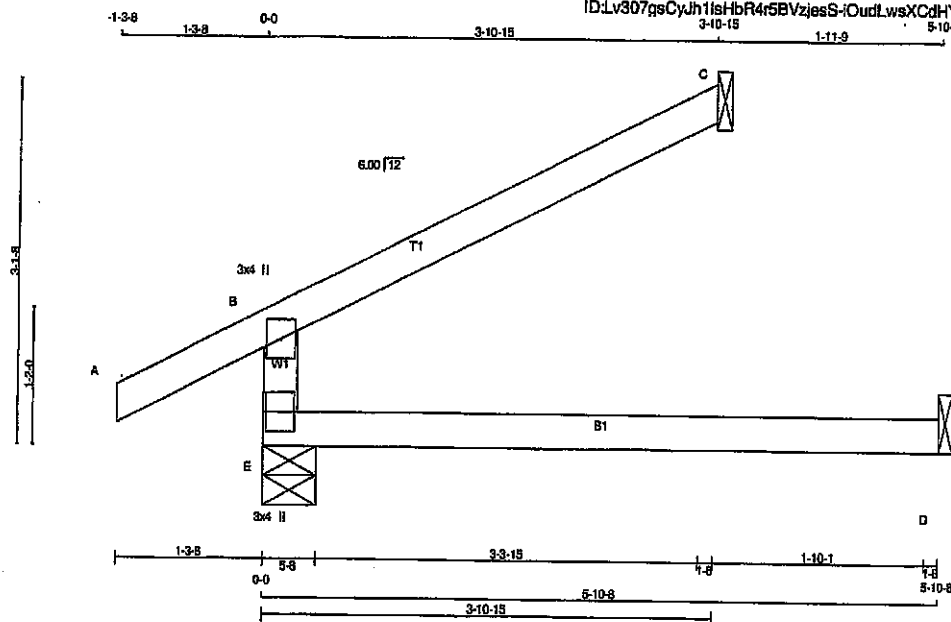


Structural component only
DWG# T-2007740

JOB NAME 408265	TRUSS NAME J62	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:Lv307gsCyJh1IsHbR4r5BVziesS-iOudLwsXCdHYqIHGA5ed3IZ_U_5OKaGNcv8WmZMDGf

Scale = 1:18.2



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
E	412	0	412	0	0	5-8	5-8		
C	135	0	135	0	0	1-8	1-8		
D	45	0	50	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		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	PERM. LIVE	WIND	DEAD	SOIL
E	291	194 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0				
C	93	75 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0				
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 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: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX. UNBRAC	MAX. FACTORED
FR-TO				FR-TO			
E-B	-348 / 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	-20 / 0	-91.8	-91.8 0.24 (1)	6.25			
E-D	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

TOTAL WEIGHT = 6 X 14 = 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. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 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.

(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/380 (0.20")
 CALCULATED VERT. DEFL.(LL) = L/998 (0.00")
 ALLOWABLE DEFL.(TL) = L/380 (0.20")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.24/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

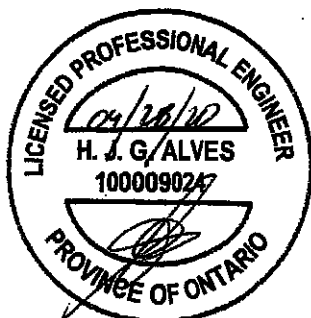
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

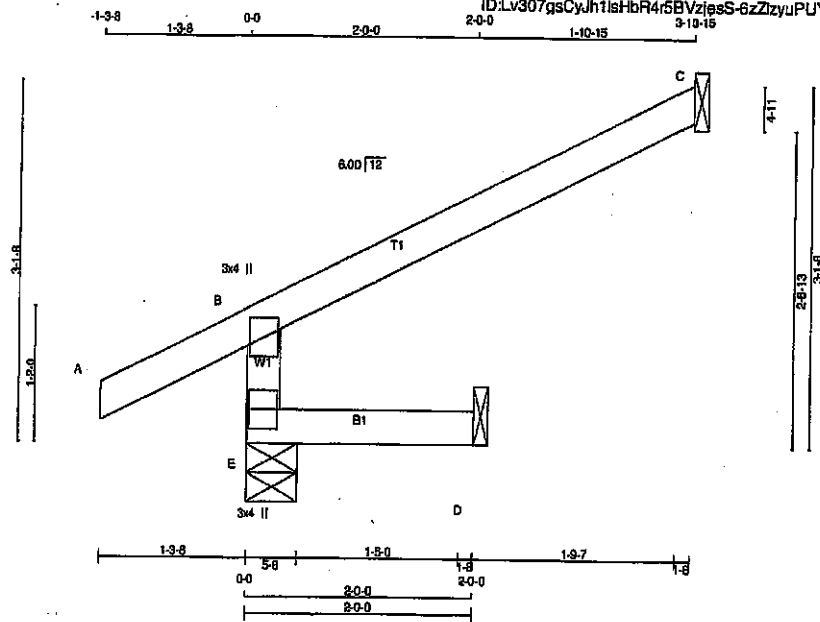
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.15 (E) (INPUT = 0.90)
 JSI METAL = 0.10 (B) (INPUT = 1.00)



Structural component only
 DWG# T-2007741

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	J64	6	1	GREEN PARK HOMES	
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	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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	369	0	369	0
C	135	0	135	0
D	16	0	16	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	256	194/0	0/0	0/0	0/0	0/0	82/0	0/0
C	93	75/0	0/0	0/0	0/0	0/0	18/0	0/0
D	13	0/0	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

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		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		LENGTH FR-TO
E-B	-348/0	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 = 5 X 10 = 50 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, NBC 2010, NBC 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 81.3 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) = $L/998$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/998$ (0.00")

CSI: TO=0.24/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
(PS)	(PL)	(PL)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

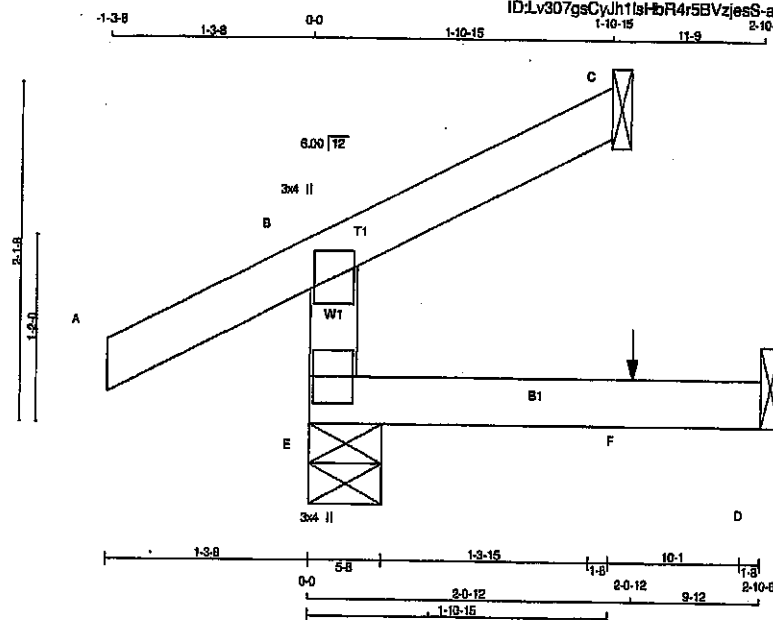
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (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 29 2019 Mitek Industries, Inc. Tue Apr 28 11:16:46 2020 Page 1					
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Scale = 1:13.4					



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
E BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
E	254	0	254	0	0
C	66	0	66	0	0
D	24	0	26	0	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	185	130/0	0/0	0/0	0/0	55/0	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	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
E-B	-234/0	0.0	0.02 (4)	7.81	
A-B	0/28	-91.8	-91.8 0.13 (5)	10.00	
B-C	-10/0	-91.8	-91.8 0.06 (1)	10.00	
E-F	0/0	-18.5	-18.5 0.03 (4)	10.00	
F-D	0/0	-18.5	-18.5 0.03 (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. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BOCG 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 086-14
- TPIG 2011, TPIG 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) = $L/360$ (0.19")
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 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.10/1.00 (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 (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.80)
JSI METAL= 0.06 (B) (INPUT = 1.00)



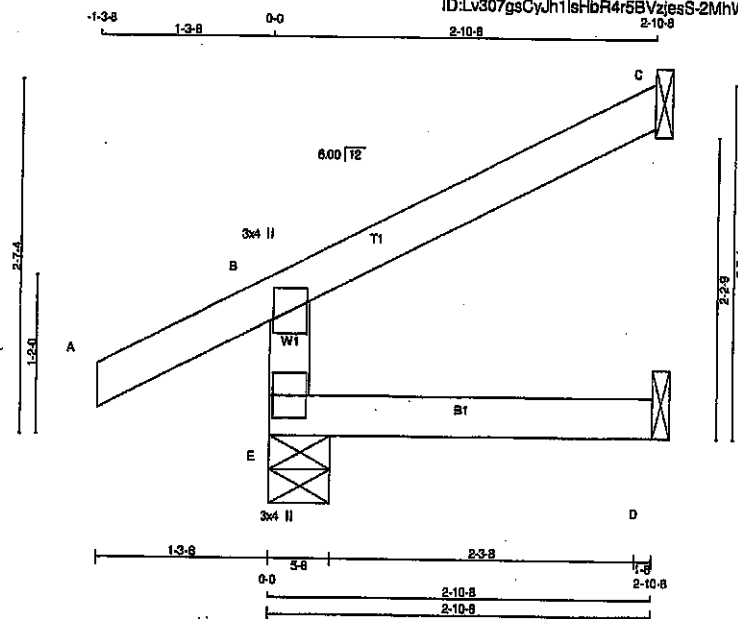
Structural component only
DWG# T-2007744

JOB NAME 408265	TRUSS NAME J67	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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Scale = 1:15.7



TOTAL WEIGHT = 2 X 10 = 19 lb

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 (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 LCASE	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 (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH	MEMB. MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM	TO			
E-B	-289 / 0	8.0	0.0	0.02 (4)	7.81	
A-B	0 / 28	-91.8	-91.8	0.13 (3)	10.00	
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 = 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

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

CS1: TC=0.13/1.00 (B-C:1), BC=0.03/1.00 (D-E:4),
WB=0.02/1.00 (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)	MIN	MAX	MIN	MAX
MT20	618	354	1867	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)



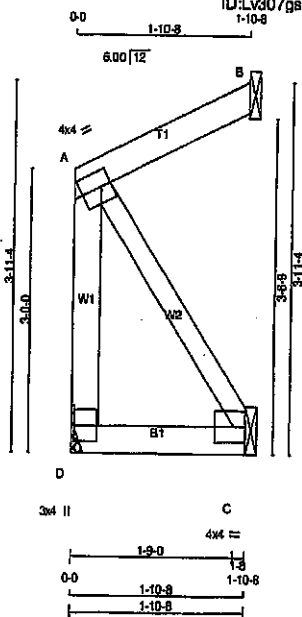
Structural component only
DWG# T-2007745

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 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 11:16:51 2020 Page 1
ID:Lv307psCyJh1sHbR4r6BVzjesS-7kpGpJywYm9YAKJc44GhRDLep7PVXvJl_B50qSzMDGY

Scale = 1/2" = 1'-0"



LUMBER	DESCR.
N. L. G. A. RULES	
CHORDS SIZE LUMBER	SPF
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	SPF
DRY: SEASONED LUMBER.	

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE PLATES				
A TMW1-1 MT20 4.0 4.0 2.00 1.25				
C BMW1-1 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	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT				
D 103 0	103 0 0	103 0 0	MECHANICAL	
B 85 0	85 0 0	85 0 0	1-8	1-8
C 17 0	17 0 0	17 0 0	1-8	1-8

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

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT COMBINED			
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	CHORDS	WEBS
TOTAL LOAD CASES: (4)		
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
	VERT. LOAD (LBS)	VERT. LOAD (LBS)
	FROM TO	FROM TO
D-A	-86/0	0.0 0.0 0.01 (1) 7.81
A-B	0/0	-91.8 -91.8 0.05 (1) 10.00
D-C	0/0	-18.5 -18.5 0.02 (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 COMPLES 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

ALLOWABLE DEFL.(TL) = 1/360 (0.19")
CALCULATED VERT. DEFL.(TL) = 1/899 (0.00")

CSI: TC=0.05/1.00 (A-B:1), BC=0.02/1.00 (C-D:4), WB=0.00/1.00 (A-C:1), SSI=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 (PSI)	SECTION (PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 788	1987 1666

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)

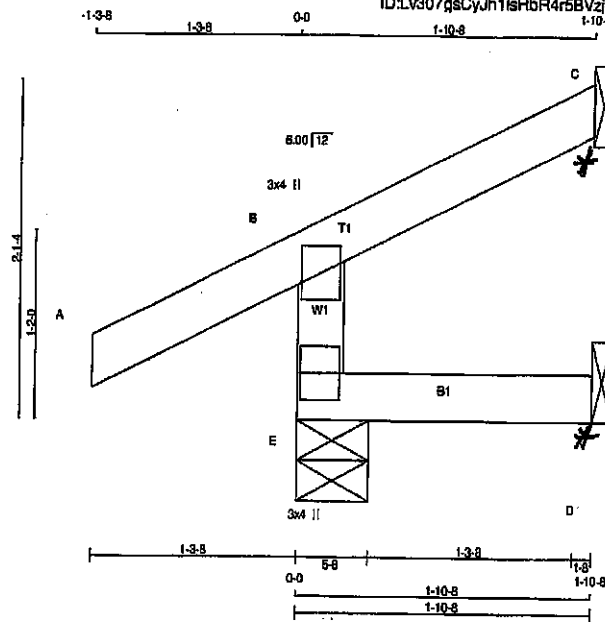


Structural component only
DWG# T-2007746

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	J69	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID:Lv307qsCyJh1sHbR4r5BVjeeS-TxNe0fyYJ4HPnuupennWNRuOYXIQGMZRDrrZCvzMDGX

Scale = 1:13.3



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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
E	273	0	273	0	5-8	5-8
C	50	0	50	0	1-8	1-8
D	8	0	17	0	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
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	190	143 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	35	27 / -17	0 / 0	0 / 0	0 / 0	7 / 0	0 / 0
D	8	0 / -8	0 / 0	0 / 0	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 = 9.25 FT.

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	FORCE (LBS)	VERT. LOAD (PL)	MAX. CS (LC)	UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. CS (LC)	UNBRACED LENGTH	MEMB. FORCE (LBS)
E-B	-247 / 0	0.0	0.0	0.04 (5)	7.81			
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
	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.

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 086-08, 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) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (LL) = $L/988$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/988$ (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
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

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

NAIL VALUES

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



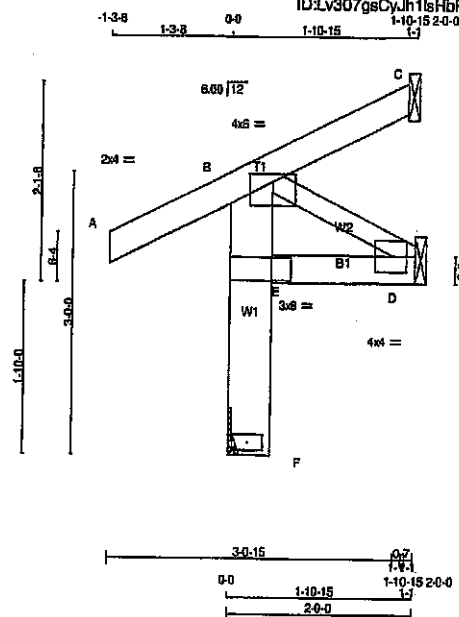
Structural component only
DWG# T-2007747

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408265	J71	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
TRUSS DESC.					

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ID:Lv307gsCyJh1IsHbR4r5BVzesS-PJUORL_ohY71B2BICp_Tsz1LQ9kG2kh9KgHnzMDGV

Scale = 1:22.7



TOTAL WEIGHT = 13 lb

LUMBER	SIZE	DRY	SPF
N. L. G. A. RULES			
CHORDS			
F - B	2x6	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)	W	LEN	Y	X
JT TYPE				
B TMVW-p	MT20	4.0	6.0	1.00
B TP-p	MT20	2.0	4.0	
D BMW1-t	MT20	4.0	4.0	2.00
E BVM-t	MT20	3.0	8.0	1.50

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	IN-SX
F	230	0	0	MECHANICAL
C	88	0	0	1-8
D	17	0	0	1-8

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

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED						
F	180	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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
	(LBS)	(PLF)		(LBS)
FR-TO		FROM TO	FR-TO	
F-E	-230/0	0.0 0.0 0.02 (1)	7.81	0/0
E-B	-212/0	0.0 0.0 0.01 (1)	7.81	0.00 (1)
A-B	0/28	-91.8 -91.8 0.12 (1)	10.00	
B-C	0/0	-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, 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 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 25.8 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=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

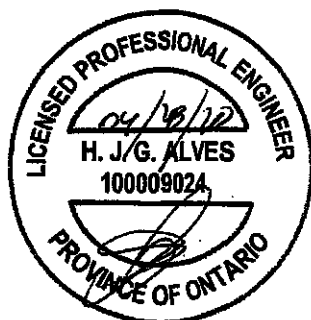
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (B) (INPUT = 0.80)
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.

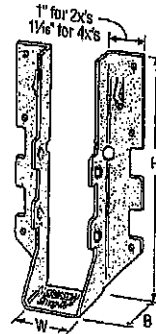
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

Installation:

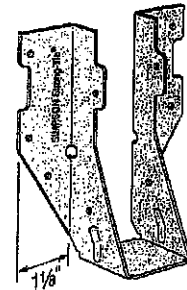
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for 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:

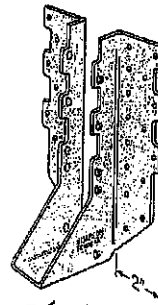
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



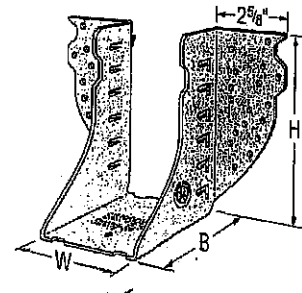
✓ LUS28



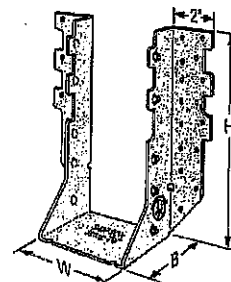
LU28L



✓ HUS210
(HUS26, HUS28,
and HHUS similar)



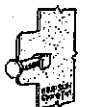
✓ HGUS28-2



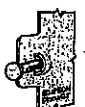
✓ HHUS210-2



Double-Shear
Nailing
Top View

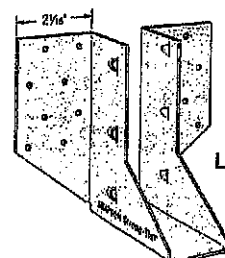
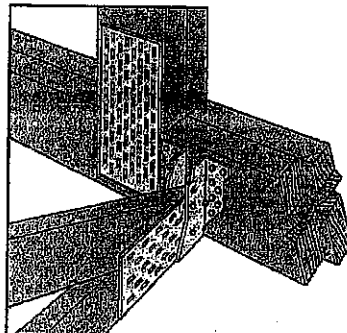


Double-Shear
Nailing
Side View;
Do not
bend tab



Dome Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,680

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.

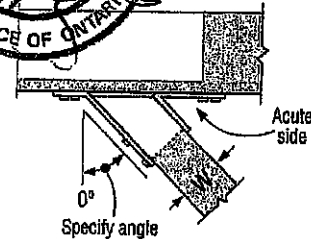
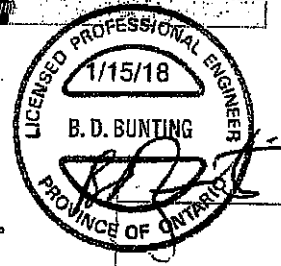
HHUS — Sloped and/or Skewed Seat

- 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	0.48 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger
Skewed Right
(joist must be bevel cut)
All joist nails installed on the
outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

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

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ³	Header	Joist	D-Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15) lb.	(K _D = 1.00) lb.	(K _D = 1.15) lb.	(K _D = 1.00) lb.
Single 2x Sizes											
LUS24	18	1 1/8	3 1/8	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
LU24L	22	1 1/8	3	1 1/4	2 1/8	(4) 10d	(2) 10d x 1 1/2"	316	723	2.87	5.14
								360	1020	320	725
LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	1.60	4.54	1.42	3.22
								720	1605	645	1140
LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	3.20	714	2.87	5.07
								1420	2170	1290	1630
HUS26	16	1 1/8	5 1/4	3	3 3/8	(14) 16d	(8) 16d	6.32	9.85	5.74	7.25
								2705	4940	2085	3875
LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(16) 16d	(6) 16d	11.90	21.97	9.20	17.24
								2055	4265	1460	4115
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	9.14	18.97	6.49	18.31
								2685	6625	2685	5700
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	11.96	29.51	11.96	25.35
								1140	2185	1020	1550
LUS28	18	1 1/8	6 1/4	1 1/4	3 1/4	(8) 10d	(4) 10d	5.07	9.72	4.54	8.89
								1420	2520	1290	1790
HUS28	16	1 1/8	7 1/4	3	6 1/8	(22) 16d	(8) 16d	6.32	11.21	5.74	7.96
								3805	5365	2675	4345
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	16.04	23.88	11.90	19.33
								3310	7675	3310	6900
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	14.74	34.19	14.74	30.73
								1140	2495	1020	1770
LUS210	18	1 1/8	7 3/8	1 1/4	3 1/4	(8) 10d	(4) 10d	5.07	11.10	4.54	7.87
								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-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/4" 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 ³	Header	Joist	D-Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _p = 1.15)	(K _p = 1.00)	(K _p = 1.15)	(K _p = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435
SS LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	3.71	8.99	2.62	6.38
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	1720	2595	1545	1920
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	7.85	11.54	6.87	8.54
SS LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	2850	7335	2065	5205
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	12.68	32.63	9.20	23.15
HGUS28-2	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	4385	8950	3110	6355
SS LUS210-2	18	3 1/8	9	2	8	(8) 16d	(6) 16d	19.51	39.81	13.83	28.27
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	1720	3325	1545	2575
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	7.85	14.79	6.87	11.45
								3765	8940	2675	6345
								16.75	39.77	11.90	28.22
								6070	12980	4310	9215
								27.00	57.74	19.17	40.99
								2580	4500	2320	3195
								11.48	20.02	10.32	14.21
								4670	9660	4235	7000
								20.77	42.97	18.84	31.14
								6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Triple 2x Sizes											
HGUS28-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
SS HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99
								4670	9670	4235	6365
								20.77	42.92	18.84	30.54
								6840	14645	4855	10400
								30.43	65.14	21.60	46.28
Quadruple 2x Sizes											
HGUS28-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
SS HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27
HHUS210-4	14	6 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99
								4670	10155	4235	7210
								20.77	45.17	18.84	32.07
								6840	14645	4855	10400
								30.43	65.14	21.60	46.26
								7640	14995	5425	10645
								33.98	66.70	24.13	47.35
								10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
LUS46	18	3 1/8	4 3/4	2	3 3/8	(4) 16d	(4) 16d	1720	2595	1545	1920
SS HHUS46	14	3 1/8	5 1/4	3	3 1/8	(14) 16d	(6) 16d	7.85	11.54	6.87	8.54
HGUS48	12	3 1/8	5 1/4	4	4 1/8	(20) 16d	(8) 16d	2540	7335	2065	5205
SS LUS48	18	3 1/8	6 3/4	2	3 3/8	(6) 16d	(4) 16d	11.30	32.63	9.20	23.15
HHUS48	14	3 1/8	7 1/4	3	6 1/8	(22) 16d	(8) 16d	4385	8950	3110	6355
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27
SS LUS410	18	3 1/8	8 3/4	2	5 1/8	(8) 16d	(6) 16d	1720	3325	1545	2575
HHUS410	14	3 1/8	9 1/4	3	8 1/8	(30) 16d	(10) 16d	7.85	14.79	6.87	11.45
HGUS410	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	3765	8940	2675	6345
SS HHUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	16.75	39.77	11.90	28.22
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	6070	12980	4310	9215
SS HHUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	27.00	57.74	19.17	40.99
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
								6840	14015	4855	10270
								30.43	62.34	21.60	45.69
								7640	14995	5425	10645
								33.98	66.70	24.13	47.35
								10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes
on p. 268.

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

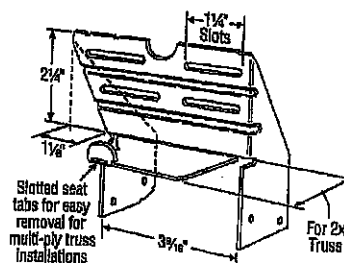
Design: Factored resistances are in accordance with CSA 086-14

Installation:

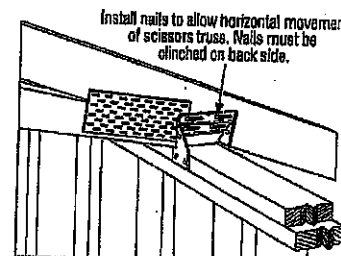
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

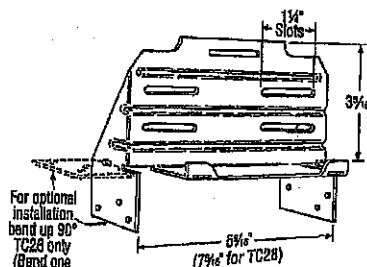
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



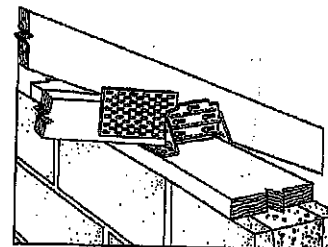
TC24
U.S. Patent 4,932,173



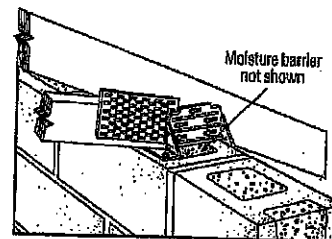
Typical TC24 Installation



TC26
(TC28 Similar)



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC28 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	(6) 10d	1015	720
TC28	(5) 10d	(6) 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 fastener to grouted concrete block with (8) - ½" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



UNITED STATES DESIGN

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(800) 999-5099
strongtie.com

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 ($K_p = 1.15$)					
		To Rafters/Truss	To Plates	To Studs	D.Fir-L			S-P-F		
					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	(8) 8d x 1½"	(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 1½"	(2) 8d x 1½"	(5) 8d x 1½"	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
					3.58	0.71	0.71	3.38	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	(6) 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 ³	18	(5) 10d x 1½"	(5) 10d x 1½"	—	1120	—	—	1025	—	—
					4.98	—	—	4.56	—	—
SS H10A ⁹	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1736	795	410	1505	565	290
					7.72	3.54	1.82	6.89	2.51	1.29
H10AR	18	(9) 10d x 1½"	(3) 10d x 1½"	—	1485	690	430	1220	570	305
					6.61	3.07	1.91	5.43	2.54	1.36
H10A-2	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1835	1275	430	1645	880	305
					8.18	5.67	1.91	7.32	3.91	1.36
H10S ^{7,8}	18	(8) 8d x 1½"	(8) 8d x 1½"	(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 2½"	(6) 16d x 2½"	—	1095	920	545	780	655	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	1 (12) 8d x 1½"	(13) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
		2 (12) 8d x 1½"	(15) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
TSP	16	(9) 10d x 1½"	(6) 10d x 1½"	—	1295	440	—	920	310	—
					5.78	1.96	—	4.09	1.38	—
		(9) 10d x 1½"	(6) 10d	—	1560	440	—	1105	310	—
					6.94	1.96	—	4.92	1.38	—

- Factored resistances have been increased 15% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- 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.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- 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).
- 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.

- 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.
- H10S nails to plates are optional for uplift but required for lateral loads.
- 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.
- 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.
- 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 1½" nails into the top plates and (3) 8d x 1½" nails into the lowest three flange holes into the truss bottom chord is 485 lb. (2.20 kN).
- Nails: 16d x 2½" = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8d x 1½" = 0.131" dia. x 1½" long. See pp. 27–28 for other nail sizes and information.

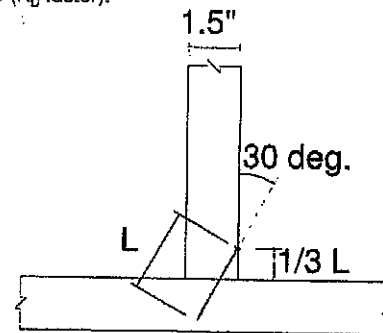
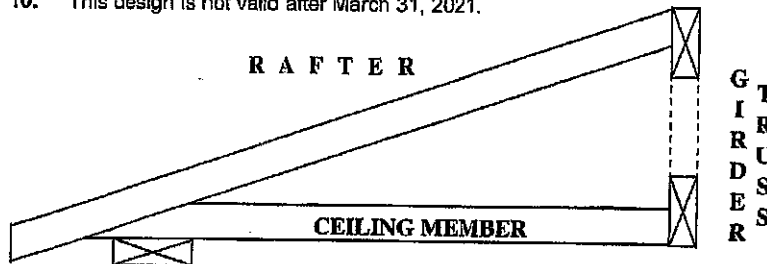
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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:

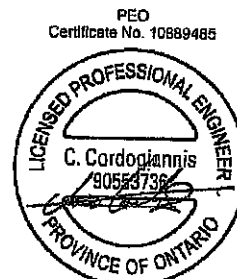
1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum 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.



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

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

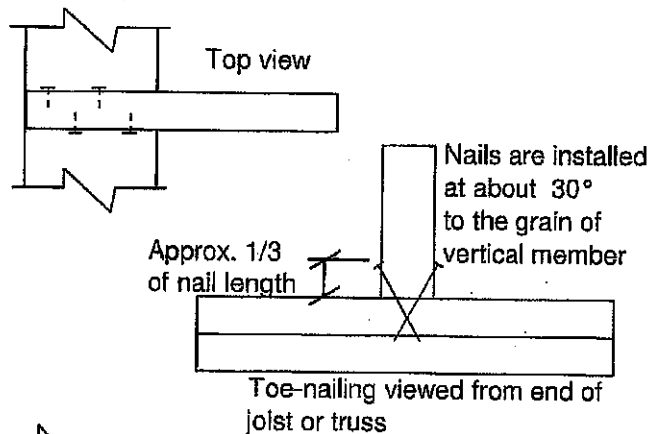
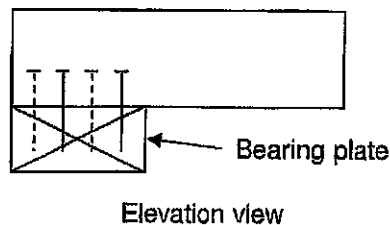
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

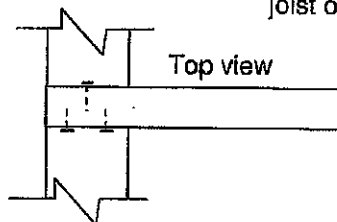
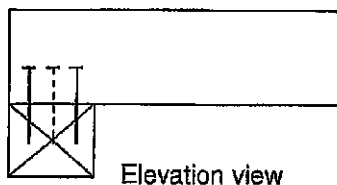
NOTES:

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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100 Industrial Rd.
Bradford, Ontario L3Z 3G7

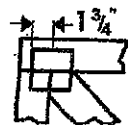
December 2, 2019

PEO
Certificate No. 10889485

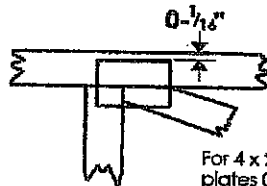


Symbols

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

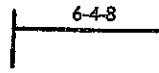


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

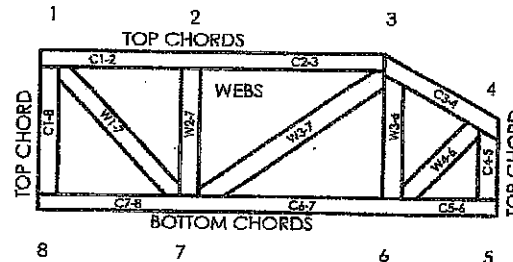
Industry Standards:

- 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

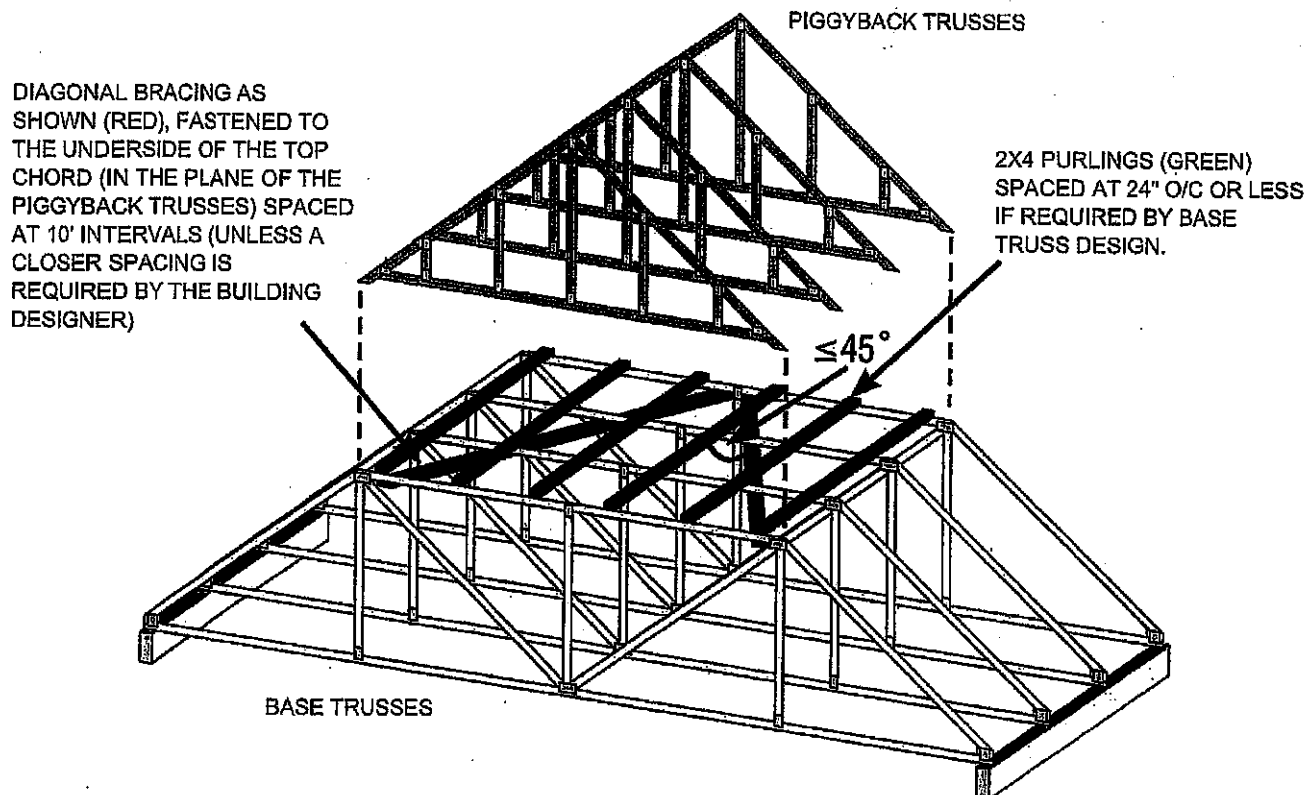
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
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.

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

RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1800218

Feb 09, 2018