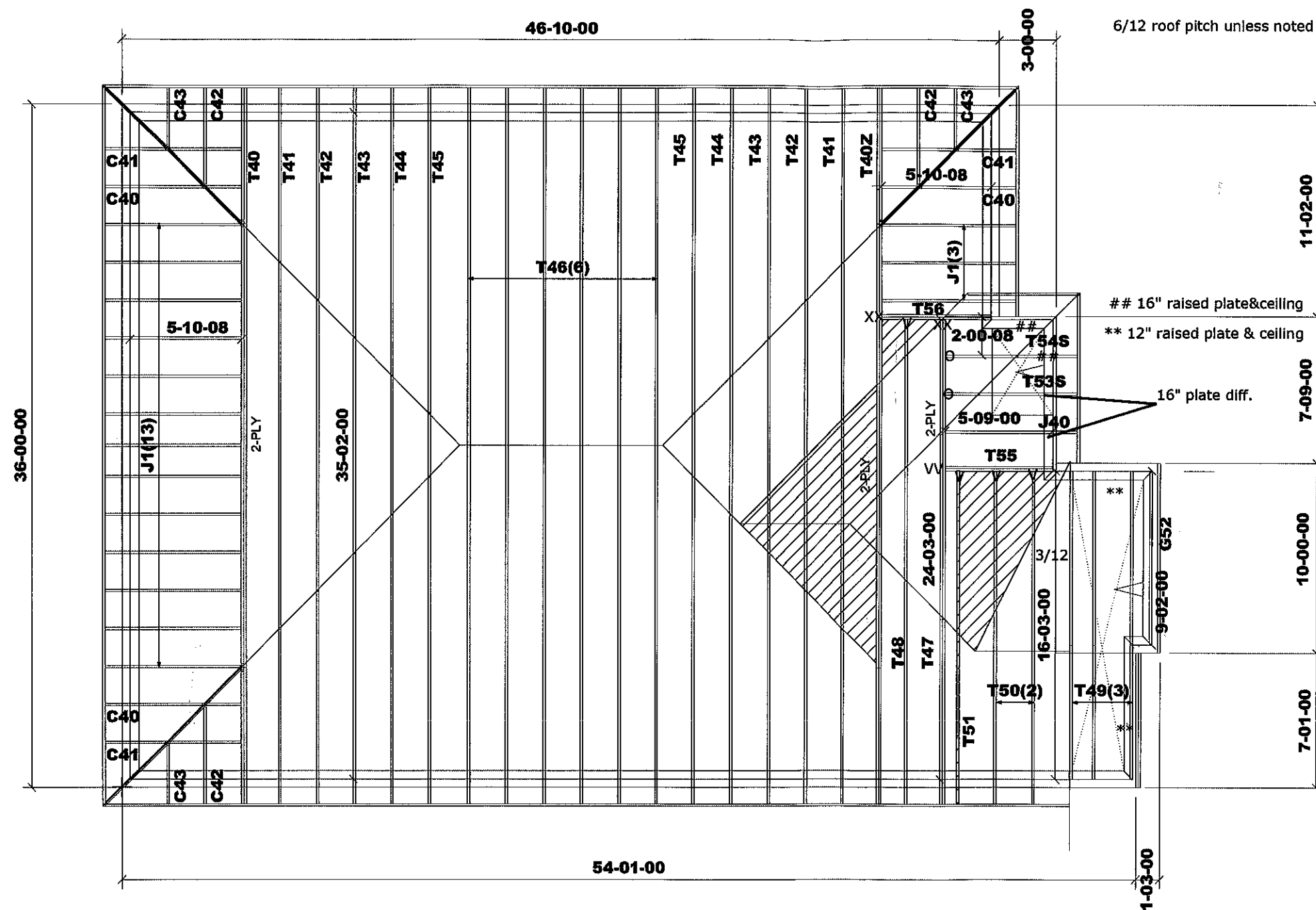




ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2x6 EXTERIOR WALLS
2x6 FASCIA BOARD
HEEL: R.T.M.C.

All conventional framing to conform with Part 9 of O.B.C. 2012 (2019 amendment). Roof rafters that cross over or meet trusses to be min. 2x4 SPF #2 @ 24" o/c with a vertical post to the truss at each cross point. Vertical posts longer than 6' to have lateral bracing so that the distance between the post end points and lateral bracing does not exceed 6'.

DESIGN CONFORMS WITH OBC 2012
(2019 amendment) OCCUPANCY:
RESIDENTIAL | PART: 9
Ss = 31.35 psf | Sr = 8.4 psf

DESIGN LOADS:
TCSL = 25.6 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

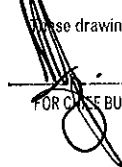
HARDWARE:
LUS24 - (O)
LJS26DS - (V)
HGUS26-2 - (XX)
LUS26-2-(VV)

 **DENOTES:**
CONVENTIONAL
FRAMING

CITY OF HAMILTON
Building Division

Permit No. 21-107207

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

FOR CITY BUILDING OFFICIAL
DATE FEB 7 2 2021



Job Track: **51225**
Plan Log: **202406**
Layout ID: **408170**

Builder / Location: **GREEN PARK HOMES / WATERDOWN**
Project: **RUSSELL GARDENS PH.3**
Date: 2020-12-08 Sales: Mario DiCano Designer: JG

Model / Elevation: **MOUNTAINASH 5-341 OR 5-332/3- STD OR OPT.5 BR**

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.

Mike ver 8.3.3.247

LUMBER						DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								TOTAL WEIGHT = 2 X 183 = 365 LB	
N. L. G. A. RULES	SIZE		LUMBER	DESCR.		BEARINGS								DESIGN CRITERIA	
A - C	2x6	DRY	No.2	SFF										*** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE	
C - F	2x6	DRY	No.2	SFF										SPECIFIED LOADS:	
F - H	2x6	DRY	No.2	SFF										TOP CH. LL = 25.6 PSF	
H - J	2x6	DRY	No.2	SFF										DL = 6.0 PSF	
J - L	2x6	DRY	No.2	SFF										BOT CH. LL = 0.0 PSF	
L - N	2x6	DRY	No.2	SFF										DL = 7.4 PSF	
N - P	2x6	DRY	No.2	SFF										TOTAL LOAD = 39.0 PSF	
P - R	2x6	DRY	No.2	SFF										SPACING = 24.0 IN. O.C.	
R - S	2x6	DRY	No.2	SFF										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12	
S - T	2x6	DRY	No.2	SFF										*** NON STANDARD GIRDER *** ADDTL. USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.	
T - U	2x6	DRY	No.2	SFF										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015	
U - V	2x6	DRY	No.2	SFF										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	
V - W	2x6	DRY	No.2	SFF										(55 % OF 3 1/2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD	
W - X	2x6	DRY	No.2	SFF										ALLOWABLE DEFL.(LL)= L/360 (1.17") CALCULATED VERT. DEFL(LL) = L/999 (0.20") ALLOWABLE DEFL.(TL)= L/360 (1.17") CALCULATED VERT. DEFL(TL) = L/999 (0.37")	
X - Y	2x6	DRY	No.2	SFF										CSI: TC=0.421/0.0 (D-E:1), BC=0.221/0.0 (O-Q:1), WB=0.561/0.0 (C-Q:1), SS=0.221/0.0 (C-D:1)	
Y - Z	2x6	DRY	No.2	SFF										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00	
Z - AA	2x6	DRY	No.2	SFF										COMPANION LIVE LOAD FACTOR = 1.00	
AA - AB	2x6	DRY	No.2	SFF										AUTOSOLVE HEELS OFF	
AB - AC	2x6	DRY	No.2	SFF										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.	
AC - AD	2x6	DRY	No.2	SFF										NAIL VALUES	
AD - AE	2x6	DRY	No.2	SFF										PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PLB)	
AE - AF	2x6	DRY	No.2	SFF										MAX MIN MAX MIN MAX MIN	
AF - AG	2x6	DRY	No.2	SFF										MT20 618 354 1667 788 1967 1656	
AG - AH	2x6	DRY	No.2	SFF										PLATE PLACEMENT TOL. = 0.250 Inches	
AH - AI	2x6	DRY	No.2	SFF										PLATE ROTATION TOL. = 5.0 Deg.	
AI - AJ	2x6	DRY	No.2	SFF										JSI GRIP= 0.89 (H) (INPUT = 0.90)	
AJ - AK	2x6	DRY	No.2	SFF										JSI METAL= 0.65 (N) (INPUT = 1.00)	
AK - AL	2x6	DRY	No.2	SFF											
AL - AO	2x6	DRY	No.2	SFF											
AO - AP	2x6	DRY	No.2	SFF											
AP - AQ	2x6	DRY	No.2	SFF											
AQ - AR	2x6	DRY	No.2	SFF											
AR - AS	2x6	DRY	No.2	SFF											
AS - AT	2x6	DRY	No.2	SFF											
AT - AU	2x6	DRY	No.2	SFF											
AU - AV	2x6	DRY	No.2	SFF											
AV - AW	2x6	DRY	No.2	SFF											
AW - AX	2x6	DRY	No.2	SFF											
AX - AY	2x6	DRY	No.2	SFF											
AY - AZ	2x6	DRY	No.2	SFF											
AZ - BA	2x6	DRY	No.2	SFF											
BA - BB	2x6	DRY	No.2	SFF											
BB - BC	2x6	DRY	No.2	SFF											
BC - BD	2x6	DRY	No.2	SFF											
BD - BE	2x6	DRY	No.2	SFF											
BE - BF	2x6	DRY	No.2	SFF											

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408168	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Sat Apr 25 12:34:48 2020 Page 2
ID:DMCubINVR6TsFoe31v6I zns1l-Monig2FIKqQuZwGH IYq9JSI 3IK34wGQweSzNBRL

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-t	MT20	5.0	8.0	2.50	3.25
C	TTWW+m	MT20	7.0	8.0	3.75	1.50
D	TMWV-t	MT20	5.0	6.0		
E	TMWV-t	MT20	5.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMWV-t	MT20	5.0	6.0		
H	TTWW+m	MT20	7.0	8.0	3.75	1.50
I	TMWV-t	MT20	5.0	8.0	2.50	3.25
K	BMV1+p	MT20	3.0	6.0		
L	BMWV-t	MT20	5.0	6.0		
M	BMWV-t	MT20	5.0	6.0	2.50	2.25
N	BS-t	MT20	5.0	6.0		
O	BMWV-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMWV-t	MT20	5.0	6.0	2.50	2.25
R	BMWV-t	MT20	5.0	6.0		
S	BMV1+p	MT20	3.0	6.0		

LOADING

TOTAL LOAD CASES: (4)

CHORDS

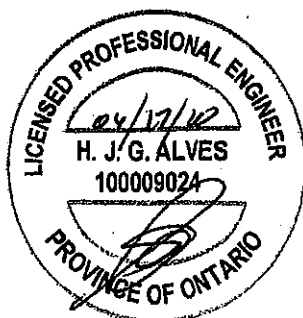
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	FACTORED (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO			FROM TO		LENGTH FR-TO			
MAS	0/2588	-18.5	-18.5	0.12 (1)	10.00			
AS-AT	0/2588	-18.5	-18.5	0.12 (1)	10.00			
AT-AU	0/2588	-18.5	-18.5	0.12 (1)	10.00			
AU-L	0/2588	-18.5	-18.5	0.12 (1)	10.00			
L-AV	0/0	-18.5	-18.5	0.05 (1)	10.00			
AV-K	0/0	-18.5	-18.5	0.05 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-11-8	-38	-42	---	FRONT	VERT	DEAD	---	C1
C	2-11-8	-191	-191	---	FRONT	VERT	SNOW	---	C1
H	32-2-8	-38	-42	---	FRONT	VERT	DEAD	---	C1
H	32-2-8	-116	-116	---	FRONT	VERT	TOTAL	---	C1
H	32-2-8	-191	-191	---	FRONT	VERT	SNOW	---	C1
L	31-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
P	11-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
T	3-11-4	-111	-111	---	FRONT	VERT	TOTAL	---	C1
U	5-11-4	-110	-110	---	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	19-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	23-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AE	25-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AF	27-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AG	29-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AH	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AM	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AN	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AO	17-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AP	19-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AQ	21-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AR	23-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AS	25-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AT	27-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AU	29-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AV	33-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

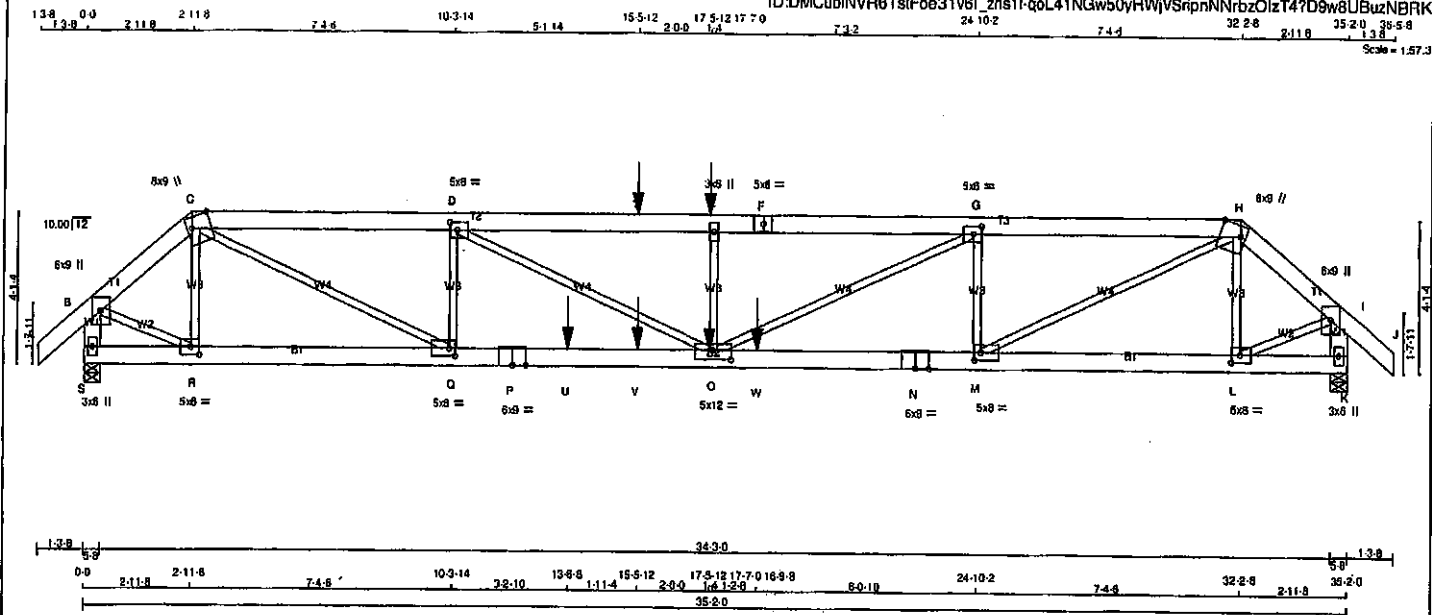


Structural component only
DWG# T-2007129

JOB NAME 408168	TRUSS NAME T1Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 9 Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:34:49 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns1f-qoL41Ngw50yHWjVSrpnNNrbzOizT47D9w8UBuzNBK



LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES	A - C	2x6	DRY	No.2	SPF
	C - F	2x6	DRY	No.2	SPF
	F - H	2x6	DRY	No.2	SPF
	H - J	2x6	DRY	No.2	SPF
	J - L	2x6	DRY	No.2	SPF
	L - M	2x6	DRY	No.2	SPF
	M - N	2x6	DRY	No.2	SPF
	N - K	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122'X3') SPIRAL NAILS		
A - C 2	12	TOP
C - F 2	12	TOP
F - H 2	12	TOP
H - J 2	12	TOP
J - L 2	12	TOP
L - M 2	12	TOP
M - N 2	12	TOP
N - K 2	12	TOP
BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS		
S - P 2	12	TOP
P - N 2	12	TOP
N - K 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
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UPLIFT	IN-SX
S	3983	0	5-8	5-8
K	3887	0	5-8	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
S	2793	1890 / 0	0 / 0
K	2599	1768 / 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	MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)	UNBRAC	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)
TOTAL LOAD CASES: (4)																
	FR-TO															
	A-B	0 / 42	-91.8	-91.8	0.04 (1)	10.00	R-C	-1088 / 0	0.13 (1)							
	B-C	-3885 / 0	-91.8	-91.8	0.05 (1)	5.65	C-Q	0 / 7263	0.80 (1)							
	C-D	-9534 / 0	-91.8	-91.8	0.37 (1)	3.74	Q-O	-2160 / 0	0.26 (1)							
	D-T	-12331 / 0	-91.8	-91.8	0.62 (1)	3.20	D-O	0 / 3130	0.39 (1)							
	T-E	-12331 / 0	-91.8	-91.8	0.52 (1)	3.20	O-E	-776 / 0	0.39 (1)							
	E-F	-12331 / 0	-91.8	-91.8	0.50 (1)	3.23	Q-G	0 / 4203	0.52 (1)							
	F-G	-12331 / 0	-91.8	-91.8	0.50 (1)	3.23	M-G	-2813 / 0	0.31 (1)							
	G-H	-6575 / 0	-91.8	-91.8	0.33 (1)	3.94	M-H	0 / 6393	0.79 (1)							
	H-I	-3758 / 0	-91.8	-91.8	0.06 (1)	5.78	L-H	-843 / 0	0.10 (1)							
	I-J	0 / 42	-91.8	-91.8	0.04 (1)	10.00	B-R	0 / 3239	0.40 (1)							
	S-B	-3945 / 0	0.0	0.0	0.14 (1)	7.14	L-I	0 / 3052	0.38 (1)							
	K-I	-3733 / 0	0.0	0.0	0.13 (1)	7.29										
	S-R	0 / 0	-18.5	-18.5	0.02 (4)	10.00										
	R-Q	0 / 3013	-18.5	-18.5	0.21 (1)	10.00										
	Q-P	0 / 9534	-18.5	-18.5	0.67 (1)	10.00										
	P-U	0 / 9534	-18.5	-18.5	0.67 (1)	10.00										
	U-V	0 / 9534	-18.5	-18.5	0.67 (1)	10.00										
	V-O	0 / 9534	-18.5	-18.5	0.67 (1)	10.00										
	O-W	0 / 8575	-18.5	-18.5	0.49 (1)	10.00										
	W-N	0 / 8575	-18.5	-18.5	0.49 (1)	10.00										
	N-M	0 / 8575	-18.5	-18.5	0.49 (1)	10.00										
	M-L	0 / 2844	-18.5	-18.5	0.12 (1)	10.00										
	L-K	0 / 0	-18.5	-18.5	0.05 (1)	10.00										

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
	E	17-5-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
	O	17-5-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
	T	15-5-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
	U	13-4-8	-1615	-1615	---	BACK	VERT	TOTAL	---	C1
	V	15-5-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
	W	18-9-8	-1620	-1620	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 183 = 365 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. CGC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17')
CALCULATED VERT. DEFL.(LL) = L/999 (0.36')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/657 (0.84')

CS1: TC=0.52/1.00 (D-E:1), BC=0.67/1.00 (O-Q:1),
WB=0.90/1.00 (Q-Q:1), SS=0.53/1.00 (M-O: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) (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 = 0.88 (C) (INPUT = 0.90)
JSI METAL = 0.85 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007130

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T1Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 \$ Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:34:49 2020 Page 2
ID:DMCubINVR6TstFog31v6I_zns1l-qoL41NGw50yHWIVSrdnNNrbzOlzT47D9w8UBuzNBRK

PLATES (table is in inches)

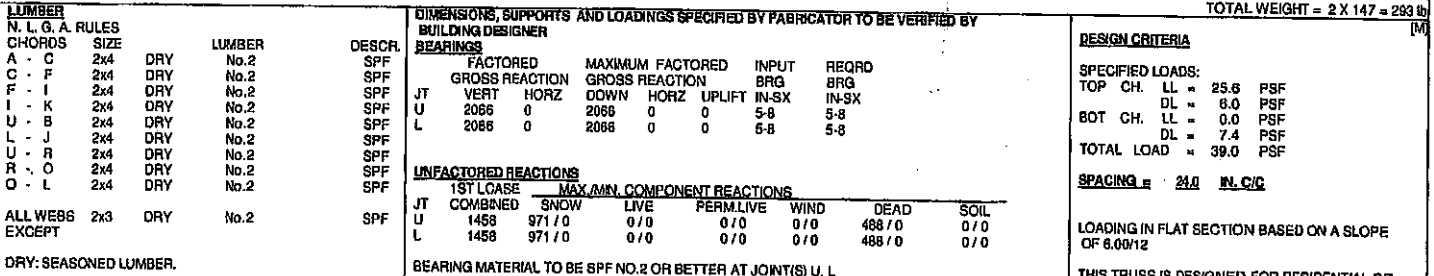
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	9.0		
C	TTWW+m	MT20	8.0	9.0	Edge	6.50
D	TMVW-l	MT20	5.0	8.0	2.50	2.50
E	TMVW+w	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMVW-l	MT20	5.0	8.0	2.50	2.50
H	TTWW+m	MT20	8.0	9.0	Edge	6.50
I	TMVW+p	MT20	6.0	9.0		
K	BMV1+p	MT20	3.0	8.0		
L	BMVW-l	MT20	5.0	6.0	2.50	2.75
M	BMVW-l	MT20	5.0	8.0	2.50	2.00
N	BS-l	MT20	8.0	9.0		
O	BMVWW-l	MT20	5.0	12.0	3.00	6.00
P	BS-l	MT20	6.0	9.0		
Q	BMVW-l	MT20	5.0	8.0	2.50	2.00
R	BMVW-l	MT20	5.0	8.0	2.50	2.75
S	BMV1+p	MT20	3.0	6.0		

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



Structural component only
DWG# T-2007130 42

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ID:DMCubINVR6TstFoe31v6l_2ns1l-1?VSFHZsJ487s3IPPK0vaOkao0CfaMCoat1KZnBRRJ
13.8 0.0 3.1 14 4.1 14 5.3 6.7 1 14 11 0 5.3 15 25 6 15 5.3 31 0.2 35 2 0 36 5.8
13.8 3.1 14 4.1 14 5.3 6.7 1 14 11 0 5.3 15 25 6 15 5.3 31 0.2 35 2 0 36 5.8
Scale = 1:57.3



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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQD
GROSS REACTION		GROSS REACTION				BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
U	2066	0	2066	0	0	5-8	5-8
L	2066	0	2066	0	0	5-8	5-8

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. BUSHING BRACING - 3.00 FT

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED

LOADING
TOTAL LOAD CASES: (4)

CHORUS					WEBS				
MAX. FACTORED		FACTORED		MAX. UNBRAC LENGTH	MAX. FACTORED		MAX. CSI (LC)		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)		MEMB.	FORCE (LBS)			
FR-TO		FROM	TO		FR-TO				
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00	T-C	-358/0 0.14 (1)		
B-C	-1960/0	-91.8	-91.8	0.36 (1)	4.48	S-C	0/1836 0.41 (1)		
C-D	-2871/0	-91.8	-91.8	0.57 (1)	3.59	S-D	-1118/0 0.43 (1)		
D-E	-3508/0	-91.8	-91.8	0.65 (1)	3.21	Q-Q	0/858 0.19 (1)		
E-F	-3505/0	-91.8	-91.8	0.53 (1)	3.38	E-E	-476/0 0.18 (1)		
F-G	-3505/0	-91.8	-91.8	0.53 (1)	3.38	P-P	-2/0 0.00 (1)		
G-H	-3505/0	-91.8	-91.8	0.66 (1)	3.20	P-G	-474/0 0.18 (1)		
H-I	-2871/0	-91.8	-91.8	0.57 (1)	3.59	H-H	0/853 0.19 (1)		
I-J	-1960/0	-91.8	-91.8	0.38 (1)	4.48	N-H	-1117/0 0.43 (1)		
J-K	0/41	-91.8	-91.8	0.13 (1)	10.00	N-I	0/1837 0.41 (1)		
L-B	-2037/0	0.0	0.0	0.22 (1)	5.92	M-I	-358/0 0.14 (1)		
U-J	-2037/0	0.0	0.0	0.22 (1)	5.92	B-T	0/1571 0.35 (1)		
						M-J	0/1571 0.35 (1)		
U-T	0/0	-18.5	-18.5	0.10 (4)	10.00				
T-S	0/1494	-18.5	-18.5	0.30 (1)	10.00				
S-R	0/2871	-18.5	-18.5	0.51 (1)	10.00				
R-Q	0/2871	-18.5	-18.5	0.51 (1)	10.00				
Q-P	0/3508	-18.5	-18.5	0.62 (1)	10.00				
P-O	0/2872	-18.5	-18.5	0.51 (1)	10.00				
O-N	0/2872	-18.5	-18.5	0.51 (1)	10.00				
N-M	0/1494	-18.5	-18.5	0.30 (1)	10.00				
M-L	0/0	-18.5	-18.5	0.10 (4)	10.00				

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 E 24.0 N. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBCG 2018 , CBC 2012 , ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-08, 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/989 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.39")

CSI: TC=0.68/1.00 (G-H:1), EC=0.62/1.00 (P-Q:1),
WB=0.43/1.00 (D-S:1), SSI=0.23/1.00 (H-I:1)

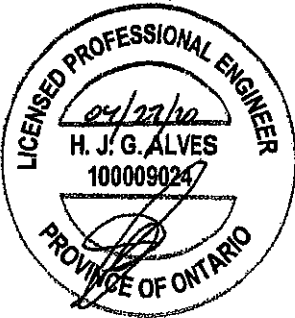
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION

	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	788	1987	1656

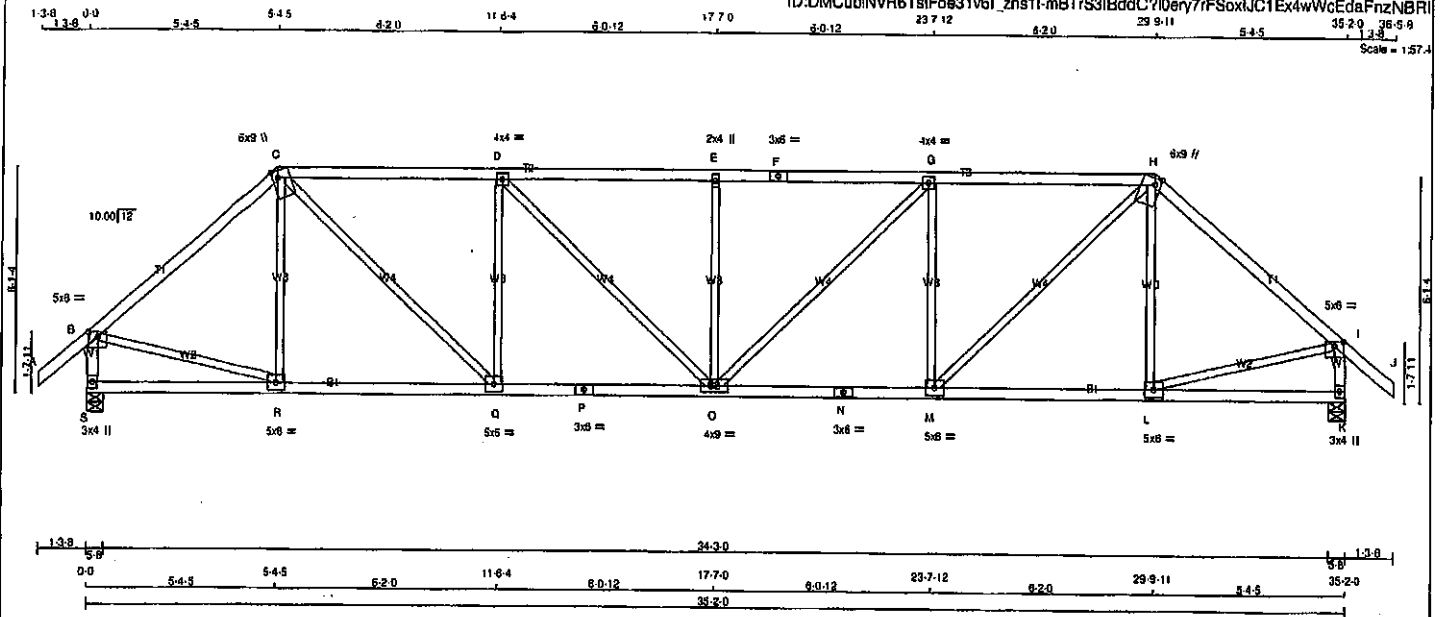


Structural component only
DWG# T-2007131

JOB NAME 408168	TRUSS NAME T3	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:DMCubINVR6TstFoe31v6I_zns11-mBTrS3IBddC710ery7rFSoxJC1Ex4wVwEdaFnzNBRI



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
S - P	2x4	DRY	No.2
P - 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	X
B	TMWV-p	MT20	5.0	6.0	1.50 3.00
C	TTWW+m	MT20	6.0	9.0	Edge 1.75
D	TMWV-t	MT20	4.0	4.0	
E	TMW-w	MT20	2.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMWV-t	MT20	4.0	4.0	
H	TTWW+m	MT20	6.0	9.0	Edge 1.75
I	TMWV-p	MT20	5.0	6.0	1.50 3.00
K	BMV1+p	MT20	3.0	4.0	
L, M, Q, R					
L	BMWV-t	MT20	5.0	6.0	
N	BS-t	MT20	3.0	6.0	
O	BMWVW-t	MT20	4.0	9.0	
P	BS-t	MT20	3.0	6.0	
S	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		INPUT	REQD
		DOWN	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX
JT	VERT						
S	2086	0	0	2086	0	5-8	5-8
K	2086	0	0	2086	0	5-8	5-8

UNFACTORED REACTIONS							
	1ST CASE	MAX./MIN. COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
JT	1458	971 / 0	0 / 0	0 / 0	0 / 0	0 / 0	488 / 0
K	1458	971 / 0	0 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.28 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)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO
A-B	0 / 41	-91.8	-91.8 0.13 (1)
B-C	-2004 / 0	-91.8	-91.8 0.84 (1)
C-D	-2653 / 0	-91.8	-91.8 0.74 (1)
D-E	-2978 / 0	-91.8	-91.8 0.78 (1)
E-F	-2978 / 0	-91.8	-91.8 0.78 (1)
F-G	-2978 / 0	-91.8	-91.8 0.78 (1)
G-H	-2653 / 0	-91.8	-91.8 0.74 (1)
H-I	-2004 / 0	-91.8	-91.8 0.64 (1)
I-J	0 / 41	-91.8	-91.8 0.13 (1)
S-B	-2028 / 0	0.0	0.0 0.22 (1)
K-I	-2028 / 0	0.0	0.0 0.22 (1)
S-R	0 / 0	-18.5	-18.5 0.14 (4)
R-Q	0 / 1532	-18.5	-18.5 0.33 (1)
Q-P	0 / 2853	-18.5	-18.5 0.49 (1)
P-O	0 / 2853	-18.5	-18.5 0.49 (1)
O-N	0 / 2853	-18.5	-18.5 0.49 (1)
N-M	0 / 2853	-18.5	-18.5 0.49 (1)
M-L	0 / 1532	-18.5	-18.5 0.33 (1)
L-K	0 / 0	-18.5	-18.5 0.14 (4)

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 6.00/12

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/998 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/998 (0.29")

CSI: TC=0.78/1.00 (E-G:1), BC=0.48/1.00 (M-O:1),
WB=0.55/1.00 (G-M:1), SS=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1587 788 1987 1558

PLATE PLACEMENT TOL. = 0.250 inches

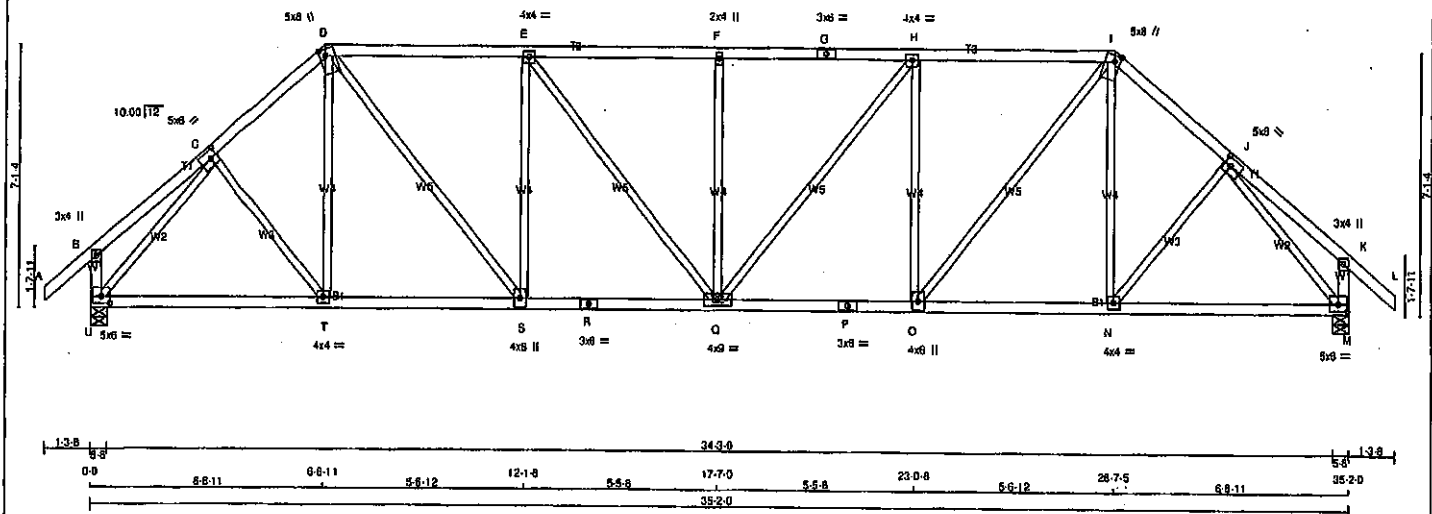
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.80 (B) (INPUT = 0.90)
JSI METAL = 0.65 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007132

1.38 0.0 3.410 8.611 12.18 17.70 23.08 28.75 31.96 34.10 35.20 36.58
1.38 3.410 3.22 5.612 5.58 5.58 5.612 3.22 3.196 3.410 1.38
Scale = 1:57.5



TOTAL WEIGHT = 2 X 162 = 323 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR
A - D	2x4	No.2	SFF
D - G	2x4	DRY	SFF
G - F	2x4	DRY	SFF
F - L	2x4	DRY	SFF
L - B	2x4	DRY	SFF
B - K	2x4	DRY	SFF
K - F	2x4	DRY	SFF
F - P	2x4	DRY	SFF
P - M	2x4	DRY	SFF

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

PLATES (tables in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	THW+g	MT20	3.0	4.0	
C	THWVW-1	MT20	5.0	6.0	2.50 2.25
D	TTWVW+sm	MT20	5.0	8.0	2.00 1.75
E	THWVW-1	MT20	4.0	4.0	
F	THW+sw	MT20	2.0	4.0	
G	TS-1	MT20	3.0	6.0	
H	THWVW-1	MT20	4.0	4.0	
I	TTWVW+sm	MT20	5.0	8.0	2.00 1.75
J	THWVW-1	MT20	5.0	6.0	2.50 2.25
K	THW+g	MT20	3.0	4.0	
M	BHVVW-1	MT20	5.0	6.0	2.25 3.00
N	BHVVW-1	MT20	4.0	4.0	
O	BHVVW-1	MT20	4.0	8.0	
P	BS-1	MT20	3.0	6.0	
Q	BHVVW+T	MT20	4.0	8.0	
R	BS-1	MT20	3.0	6.0	
S	BHVVW+T	MT20	4.0	8.0	
T	BHVVW-1	MT20	4.0	4.0	
U	BHVVW-1	MT20	5.0	6.0	2.25 3.00

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
U	2088	0	2088	0	0	5-8	5-8
M	2088	0	2088	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	1458	971 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
M	1458	971 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LCI (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00	C-T	0/156	0.04 (1)
B-C	0/19	-91.8	-91.8	0.14 (1)	10.00	T-D	0/78	0.03 (4)
C-D	-2023/0	-91.8	-91.8	0.20 (1)	4.59	D-S	0/1220	0.27 (1)
D-E	-2308/0	-91.8	-91.8	0.55 (1)	3.94	S-E	-850/0	0.74 (1)
E-F	-2534/0	-91.8	-91.8	0.67 (1)	3.77	Q-Q	0/361	0.08 (1)
F-G	-2534/0	-91.8	-91.8	0.57 (1)	3.77	Q-F	-481/0	0.40 (1)
G-H	-2534/0	-91.8	-91.8	0.57 (1)	3.77	H-H	0/361	0.08 (1)
H-I	-2308/0	-91.8	-91.8	0.55 (1)	3.94	C-H	-850/0	0.74 (1)
I-J	-2023/0	-91.8	-91.8	0.20 (1)	4.69	O-I	0/1220	0.27 (1)
J-K	0/19	-91.8	-91.8	0.14 (1)	10.00	N-I	0/78	0.03 (4)
K-L	0/41	-91.8	-91.8	0.13 (1)	10.00	N-J	0/156	0.04 (1)
U-B	-248/0	0.0	0.0	0.03 (1)	7.81	U-C	-2277/0	0.98 (1)
M-K	-248/0	0.0	0.0	0.03 (1)	7.81	J-M	-2277/0	0.98 (1)
U-T	0/1433	-18.5	-18.5	0.33 (1)	10.00			
T-S	0/1535	-18.5	-18.5	0.35 (1)	10.00			
S-R	0/2308	-18.5	-18.5	0.42 (1)	10.00			
R-Q	0/2308	-18.5	-18.5	0.42 (1)	10.00			
Q-P	0/2308	-18.5	-18.5	0.42 (1)	10.00			
P-O	0/2308	-18.5	-18.5	0.42 (1)	10.00			
O-N	0/1535	-18.5	-18.5	0.35 (1)	10.00			
N-M	0/1433	-18.5	-18.5	0.33 (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 8.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCG 2018, OBC 2012, ABC 2019
- PART 9 OF CBCG 2012 (2019 AMENDMENT)
- CSA 085-09, 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) = $L/360$ (1.17")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.13")
ALLOWABLE DEFL.(TL) = $L/360$ (1.17")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.23")

CSI: TC=0.57/1.00 (E-F:1), BC=0.42/1.00 (O-Q:1),
WB=0.98/1.00 (J-M: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.

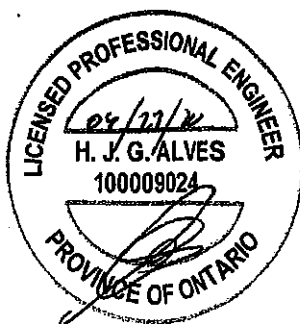
NAIL VALUES

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

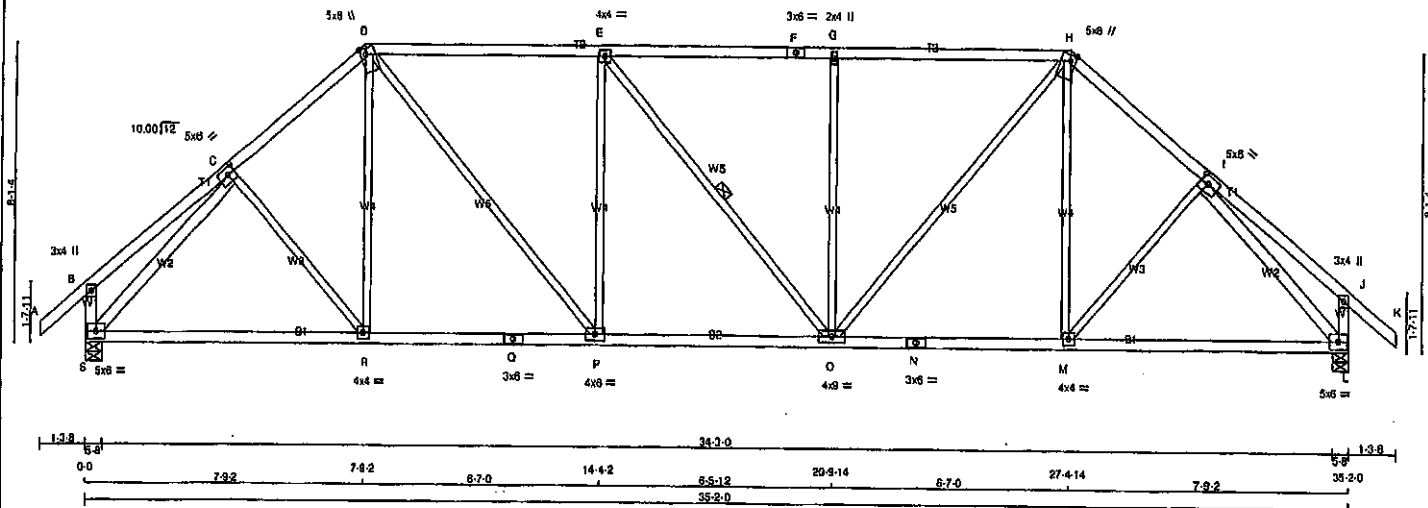
JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.72 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007133

JOB NAME 408168	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCubINVR6TstFoe31v8l_zns1HabbtIJR9ESJ_KoE4YutX00Eb?ipPtp4Y6hKfzNBRC
 20 9 14 27 4 14 31 2 3 31 1 13 35 2 0 36 5 8
 Scale = 1:57.5



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-1	MT20	5.0	8.0	2.50	2.50
D	TTVW+m	MT20	5.0	8.0	2.00	1.75
E	TMVW-1	MT20	4.0	4.0		
F	TS-1	MT20	3.0	6.0		
G	TMVW+m	MT20	2.0	4.0		
H	TTVW+m	MT20	5.0	8.0	2.00	1.75
I	TMVW-1	MT20	5.0	6.0	2.50	2.50
J	TMV+p	MT20	3.0	4.0		
L	BMVW-1	MT20	5.0	6.0		
M	BMVW-1	MT20	4.0	4.0		
N	BS-1	MT20	3.0	6.0		
O	BMVW-1	MT20	4.0	4.0		
P	BMVW-1	MT20	4.0	6.0		
Q	BS-1	MT20	3.0	6.0		
R	BMVW-1	MT20	4.0	4.0		
S	BMVW-1	MT20	5.0	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
	VERT	HORZ	DOWN	HORZ		
S	2088	0	2088	0	5-8	5-8
L	2088	0	2088	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE MAX/MIN COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	1458	971 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1458	971 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 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.

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)		CS1 (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB. MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
		FROM	TO				
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	C-R	0 / 84
B-C	0 / 26	-91.8	-91.8	0.21 (1)	10.00	R-D	0 / 126
C-D	-2008 / 0	-91.8	-91.8	0.29 (1)	4.50	D-P	0 / 998
D-E	-2163 / 0	-91.8	-91.8	0.73 (1)	3.81	P-E	-850 / 0
E-F	-2182 / 0	-91.8	-91.8	0.73 (1)	3.81	E-O	-2 / 0
F-G	-2162 / 0	-91.8	-91.8	0.73 (1)	3.81	O-G	-649 / 0
G-H	-2162 / 0	-91.8	-91.8	0.73 (1)	3.82	O-H	0 / 998
H-I	-2006 / 0	-91.8	-91.8	0.29 (1)	4.50	M-I	0 / 126
I-J	0 / 26	-91.8	-91.8	0.21 (1)	10.00	M-L	0 / 84
J-K	0 / 41	-91.8	-91.8	0.13 (1)	10.00	S-C	-2291 / 0
S-B	-284 / 0	0.0	0.0	0.03 (1)	7.81	I-L	-2291 / 0
L-J	-284 / 0	0.0	0.0	0.03 (1)	7.81		
S-R	0 / 1487	-18.5	-18.5	0.38 (1)	10.00		
R-Q	0 / 1519	-18.5	-18.5	0.39 (1)	10.00		
Q-P	0 / 1519	-18.5	-18.5	0.39 (1)	10.00		
P-O	0 / 2163	-18.5	-18.5	0.42 (1)	10.00		
O-N	0 / 1519	-18.5	-18.5	0.39 (1)	10.00		
N-M	0 / 1519	-18.5	-18.5	0.39 (1)	10.00		
M-L	0 / 1487	-18.5	-18.5	0.38 (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 6.00/12

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, 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 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.17')

CALCULATED VERT. DEFL.(LL) = $L/998$ (0.10')

ALLOWABLE DEFL.(TL) = $L/360$ (1.17')

CALCULATED VERT. DEFL.(TL) = $L/998$ (0.21')

CSR: TC=0.73/1.00 (D-E:1), BC=0.42/1.00 (O-P:1), WS=0.97/1.00 (H: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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 818 354 1657 798 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

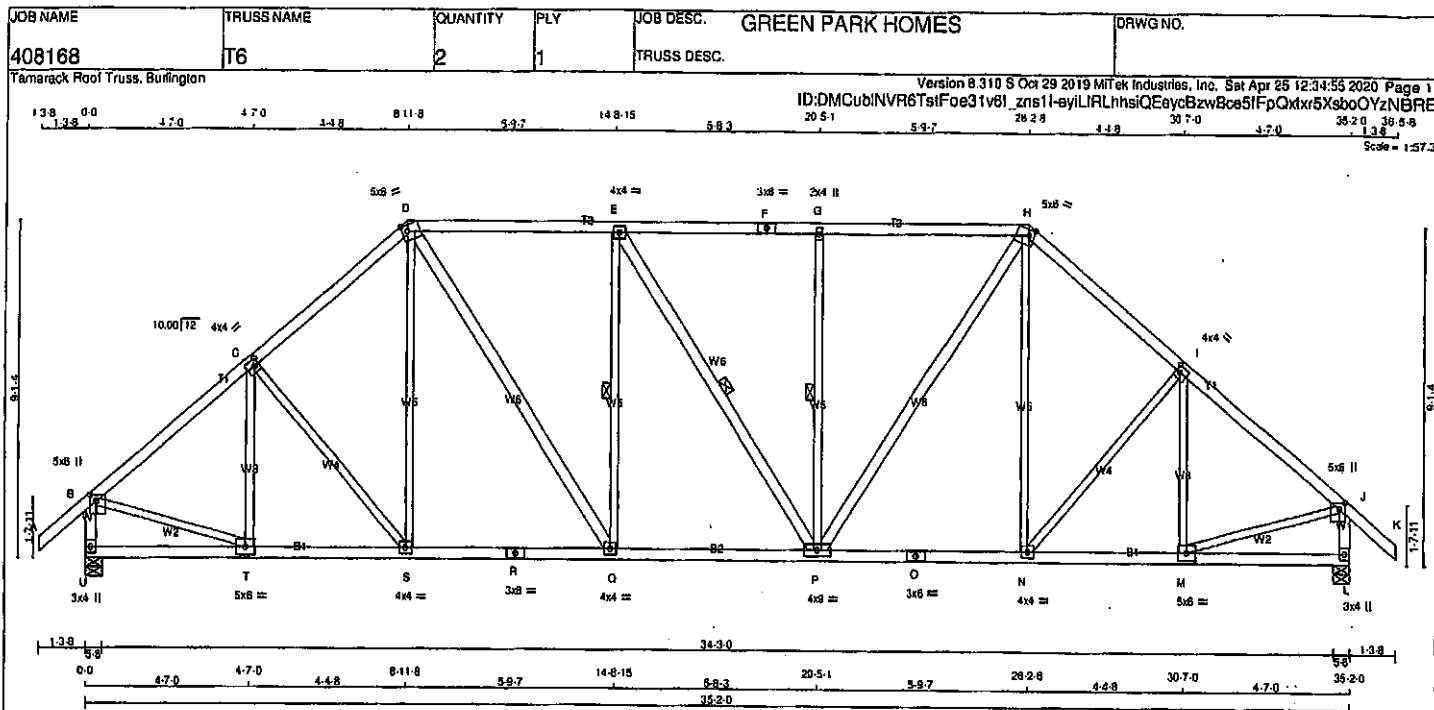
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (I) (INPUT = 0.90)

JSI METAL = 0.56 (I) (INPUT = 1.00)



Structural component only
 DWG# T-2007134



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
U - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

D - Q 2x4 DRY No.2

E - P 2x4 DRY No.2

P - H 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW-w	MT20	5.0	8.0	2.00	2.00
C TMW-w	MT20	4.0	4.0	2.00	1.25
D TTW-w	MT20	5.0	8.0	2.00	1.75
E TMW-w	MT20	4.0	4.0		
F TS-I	MT20	3.0	6.0		
G TMW-w	MT20	2.0	4.0		
H TTW-w	MT20	5.0	8.0	2.00	1.75
I TMW-w	MT20	4.0	4.0	2.00	1.25
J TMW-w	MT20	5.0	8.0	2.00	2.00
L BMV1-p	MT20	3.0	4.0		
M BMW-w	MT20	5.0	6.0		
N Q, S					
N BMW-w	MT20	4.0	4.0		
O BS-I	MT20	3.0	8.0		
P BMW-w	MT20	4.0	9.0		
R BS-I	MT20	3.0	8.0		
T BMW-w	MT20	5.0	6.0		
U 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
U	2068	0	2068	0
L	2068	0	2068	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN	COMPONENT REACTIONS
	SNOW	LIVE	PERM LIVE
U	1458	971 / 0	0 / 0
L	1458	971 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 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-Q, E-P, G-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	T-C	-357 / 0	0.16 (1)
B-C	-1994 / 0	-91.8	-91.8 0.30 (1)	4.53	C-S	-121 / 0	0.10 (1)
C-D	-1957 / 0	-91.8	-91.8 0.29 (1)	4.57	S-D	0 / 108	0.05 (4)
D-E	-1923 / 0	-91.8	-91.8 0.40 (1)	4.44	D-Q	0 / 810	0.13 (1)
E-F	-1921 / 0	-91.8	-91.8 0.37 (1)	4.49	Q-E	-568 / 0	0.31 (1)
F-G	-1921 / 0	-91.8	-91.8 0.37 (1)	4.49	E-P	-3 / 0	0.00 (1)
G-H	-1921 / 0	-91.8	-91.8 0.40 (1)	4.45	P-G	-568 / 0	0.31 (1)
H-I	-1957 / 0	-91.8	-91.8 0.28 (1)	4.57	P-H	0 / 807	0.13 (1)
I-J	-1994 / 0	-91.8	-91.8 0.30 (1)	4.53	N-H	0 / 169	0.05 (4)
J-K	0 / 41	-91.8	-91.8 0.13 (1)	10.00	N-I	-121 / 0	0.10 (1)
U-B	-2028 / 0	0.0	0.0 0.22 (1)	5.84	M-I	-358 / 0	0.16 (1)
L-J	-2028 / 0	0.0	0.0 0.22 (1)	5.84	B-T	0 / 1617	0.36 (1)
					M-J	0 / 1617	0.36 (1)
U-T	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
T-S	0 / 1565	-18.5	-18.5 0.30 (1)	10.00			
S-R	0 / 1477	-18.5	-18.5 0.30 (1)	10.00			
R-Q	0 / 1477	-18.5	-18.5 0.30 (1)	10.00			
Q-P	0 / 1923	-18.5	-18.5 0.38 (1)	10.00			
P-O	0 / 1478	-18.5	-18.5 0.30 (1)	10.00			
O-N	0 / 1478	-18.5	-18.5 0.30 (1)	10.00			
N-M	0 / 1565	-18.5	-18.5 0.31 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.08 (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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/899 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/899 (0.16")

CSI: TC=0.40/1.00 (D-E:1), BC=0.38/1.00 (P-Q:1),

WB=0.39/1.00 (B-T:1), SS=0.25/1.00 (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 1687 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.60 (C) (INPUT = 1.00)

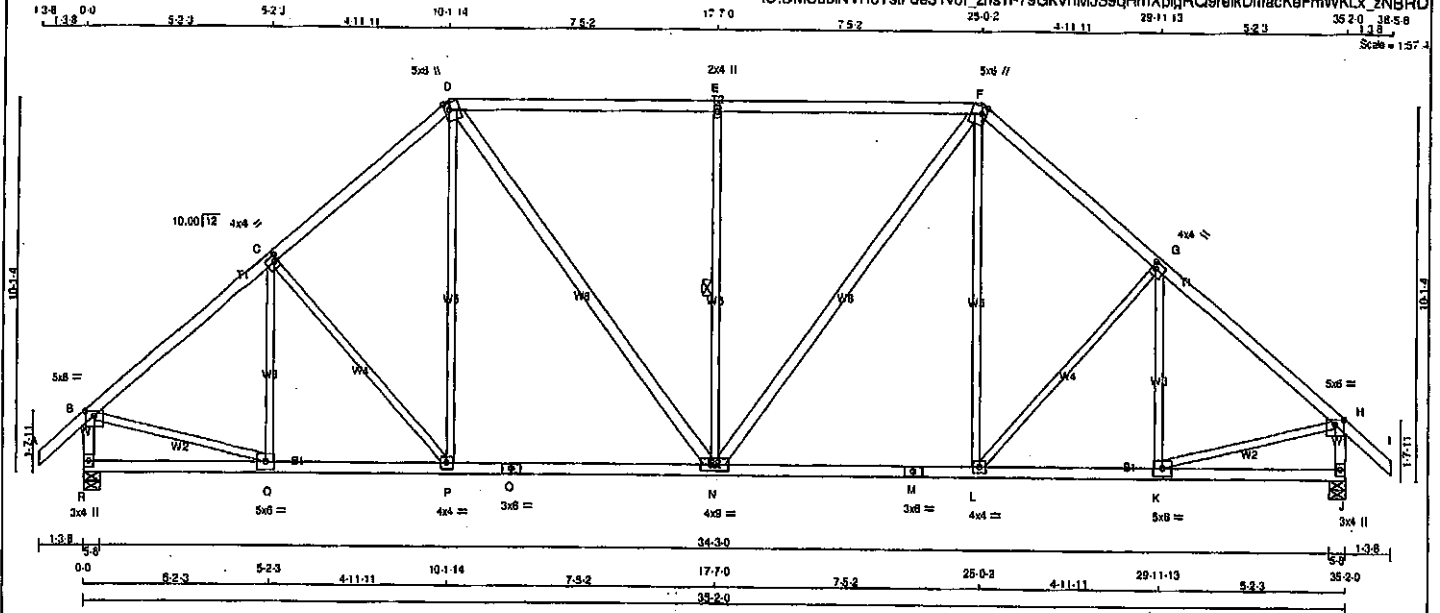


Structural component only
DWG# T-2007135

JOB NAME	TRUSS NAME	QUANTITY	PLV	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408168	T7	5	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Sat Apr 25 12:34:58 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns11-79GkVnMJS9qHnXpQ9ReikDmacKeFmWKLx_zNBRD



TOTAL WEIGHT = 5 X 173 = 867 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.50 3.00
C	TMWV-i	MT20	4.0	4.0	2.00 1.25
D	TTWV+m	MT20	5.0	6.0	2.25 1.50
E	TMWV-w	MT20	2.0	4.0	
F	TTWV+m	MT20	5.0	6.0	2.25 1.50
G	TMWV-i	MT20	4.0	4.0	2.00 1.25
H	TMWV-p	MT20	5.0	6.0	1.50 3.00
J	BMV-i+p	MT20	3.0	4.0	
K	BMWV-i	MT20	5.0	6.0	
L	BMWV-i	MT20	4.0	4.0	
M	BS-i	MT20	3.0	6.0	
N	BMWVW-i	MT20	4.0	9.0	
O	BS-i	MT20	3.0	6.0	
P	BMWV-i	MT20	4.0	4.0	
Q	BMWV-i	MT20	5.0	6.0	
R	BMV-i+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		REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ UPLIFT	
R	2066	0	2066	0	5-8
J	2066	0	2066	0	5-8

UNFACTORED REACTIONS						
JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS			
	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1458	971 / 0	0 / 0	0 / 0	488 / 0	0 / 0
J	1458	971 / 0	0 / 0	0 / 0	488 / 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 = 3.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING					
TOTAL LOAD CASES: (4)					
MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS		MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
		VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)		
FR-TO		FROM	TO	FR-TO	
A-B	0 / 41	-91.8	-91.8 0.13 (1)	Q-C	-302 / 0 0.17 (1)
B-C	-2021 / 0	-91.8	-91.8 0.39 (1)	C-P	-217 / 0 0.25 (1)
C-D	-1908 / 0	-91.8	-91.8 0.37 (1)	P-D	0 / 278 0.08 (1)
D-E	-1809 / 0	-91.8	-91.8 0.74 (1)	D-N	0 / 615 0.10 (1)
E-F	-1809 / 0	-91.8	-91.8 0.74 (1)	N-E	-838 / 0 0.58 (1)
F-G	-1908 / 0	-91.8	-91.8 0.37 (1)	N-F	0 / 615 0.10 (1)
G-H	-2021 / 0	-91.8	-91.8 0.39 (1)	L-F	-0 / 278 0.08 (1)
H-I	0 / 41	-91.8	-91.8 0.13 (1)	L-G	-217 / 0 0.25 (1)
R-B	-2024 / 0	0.0	0.0 0.22 (1)	K-G	-302 / 0 0.17 (1)
J-H	-2024 / 0	0.0	0.0 0.22 (1)	B-Q	0 / 1629 0.37 (1)
				K-H	0 / 1629 0.37 (1)
R-Q	0 / 0	-18.5	-18.5 0.10 (4)		
Q-P	0 / 1580	-18.5	-18.5 0.34 (1)		
P-O	0 / 1437	-18.5	-18.5 0.35 (1)		
O-N	0 / 1437	-18.5	-18.5 0.35 (1)		
N-M	0 / 1437	-18.5	-18.5 0.35 (1)		
M-L	0 / 1437	-18.5	-18.5 0.35 (1)		
L-K	0 / 1580	-18.5	-18.5 0.34 (1)		
K-J	0 / 0	-18.5	-18.5 0.10 (4)		

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 6.00/12

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 91.3 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 (1.17)
CALCULATED VERT. DEFL.(LL) = L/999 (0.08)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.17)

CSI: TC=0.74/1.00 (D-E:1), BC=0.35/1.00 (L-N:1), WB=0.58/1.00 (E-N:1), BS=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 (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354 1887 788 1987 1658	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.46 (O) (INPUT = 1.00)

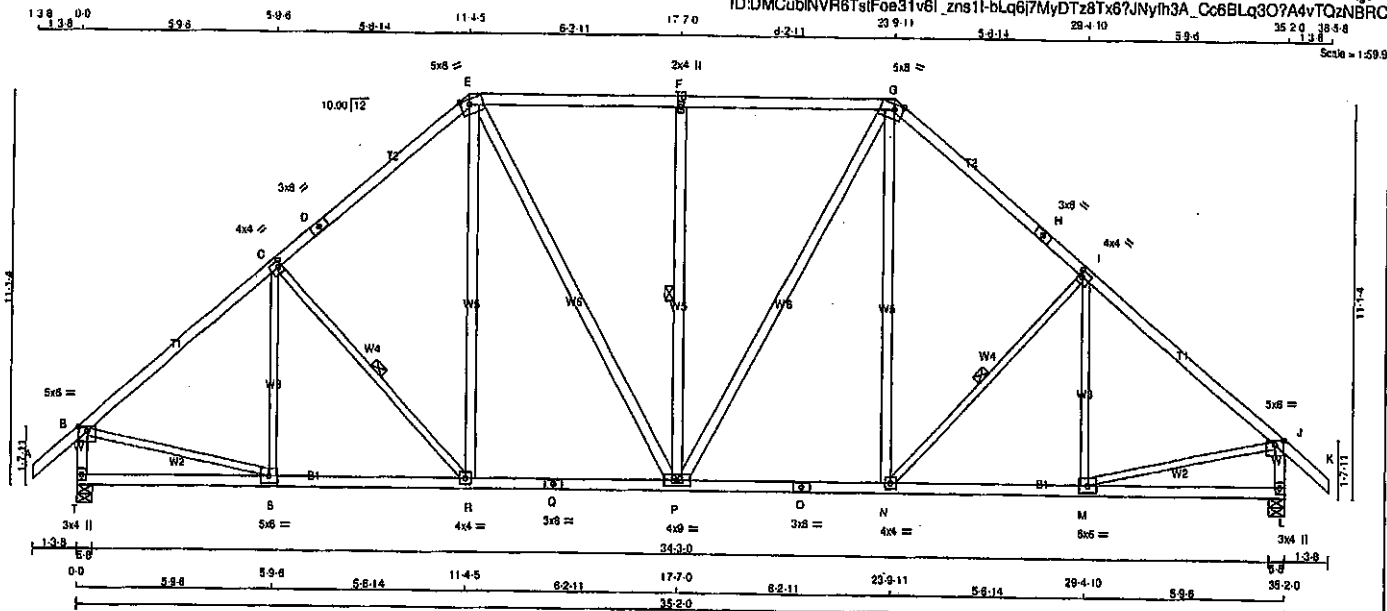


Structural component only
DWG# T-2007136

JOB NAME 408168	TRUSS NAME T8	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I_zns1l-blq6j7MyDTz81x67JNylh3A_Cc6BLq3O?A4vTQzNBRC



CHORDS	SIZE	LUMBER
A - D	2x4 DRY	No.2
D - E	2x4 DRY	No.2
E - G	2x4 DRY	No.2
G - H	2x4 DRY	No.2
H - K	2x4 DRY	No.2
T - B	2x4 DRY	No.2
L - J	2x4 DRY	No.2
T - Q	2x4 DRY	No.2
Q - O	2x4 DRY	No.2
O - L	2x4 DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
B TMWV-p	MT20	5.0	8.0	1.50 3.00
C TMWV-1	MT20	4.0	4.0	2.00 1.25
D TS-1	MT20	3.0	6.0	
E TMWV-m	MT20	5.0	8.0	Edge 3.00
F TMWV-w	MT20	2.0	4.0	
G TMWV-m	MT20	5.0	8.0	Edge 3.00
H TS-1	MT20	3.0	6.0	
I TMWV-1	MT20	4.0	4.0	2.00 1.25
J TMWV-p	MT20	5.0	8.0	1.50 3.00
L BMV1+p	MT20	3.0	6.0	
M BMWV-1	MT20	5.0	8.0	
N BMWV-1	MT20	4.0	4.0	
O BS-1	MT20	3.0	6.0	
P BMWVW-1	MT20	4.0	4.0	
Q BS-1	MT20	3.0	6.0	
R BMWV-1	MT20	4.0	4.0	
S BMWV-1	MT20	5.0	8.0	
T 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	0	0
T	HORZ	UP/LIFT	5-8	5-8
L	VERT	DOWN	0	0

UNFACTORED REACTIONS	1ST LOASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW
T	1458	971 / 0
L	1458	971 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.27 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-R, F-P, I-N.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (CS) (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (CS) (LC)	MAX. UNBRACED LENGTH
FR-TO						FR-TO					
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	S-C	-245 / 10	0.17 (1)			
B-C	-2039 / 0	-91.8	-91.8	0.50 (1)	4.27	C-R	-314 / 0	0.15 (1)			
C-D	-1844 / 0	-91.8	-91.8	0.48 (1)	4.47	R-E	0 / 338	0.05 (1)			
D-E	-1844 / 0	-91.8	-91.8	0.48 (1)	4.47	E-P	0 / 469	0.08 (1)			
E-F	-1821 / 0	-91.8	-91.8	0.50 (1)	4.60	P-F	-599 / 0	0.45 (1)			
F-G	-1821 / 0	-91.8	-91.8	0.50 (1)	4.60	G-P	0 / 469	0.08 (1)			
G-H	-1844 / 0	-91.8	-91.8	0.48 (1)	4.47	N-G	0 / 338	0.05 (1)			
H-I	-1844 / 0	-91.8	-91.8	0.48 (1)	4.47	I-N	-314 / 0	0.15 (1)			
I-J	-2039 / 0	-91.8	-91.8	0.50 (1)	4.27	M-I	-245 / 10	0.17 (1)			
J-K	0 / 41	-91.8	-91.8	0.13 (1)	10.00	B-S	0 / 1637	0.37 (1)			
T-B	-2021 / 0	0.0	0.0	0.21 (1)	5.94	M-J	0 / 1637	0.37 (1)			
L-J	-2021 / 0	0.0	0.0	0.21 (1)	5.94						
T-S	0 / 0	-18.5	-18.5	0.14 (4)	10.00						
S-R	0 / 1597	-18.5	-18.5	0.33 (1)	10.00						
R-Q	0 / 1387	-18.5	-18.5	0.30 (1)	10.00						
Q-P	0 / 1387	-18.5	-18.5	0.30 (1)	10.00						
P-O	0 / 1387	-18.5	-18.5	0.30 (1)	10.00						
O-N	0 / 1387	-18.5	-18.5	0.30 (1)	10.00						
N-M	0 / 1597	-18.5	-18.5	0.33 (1)	10.00						
M-L	0 / 0	-18.5	-18.5	0.14 (4)	10.00						

TOTAL WEIGHT = 2 X 180 = 360 lb (M/F)

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, 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 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CS: TC=0.50/1.00 (E-F:1), BC=0.33/1.00 (M-N:1), WB=0.45/1.00 (F-P:1), SG=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (J) (INPUT = 0.80)
JSI METAL = 0.47 (C) (INPUT = 1.00)

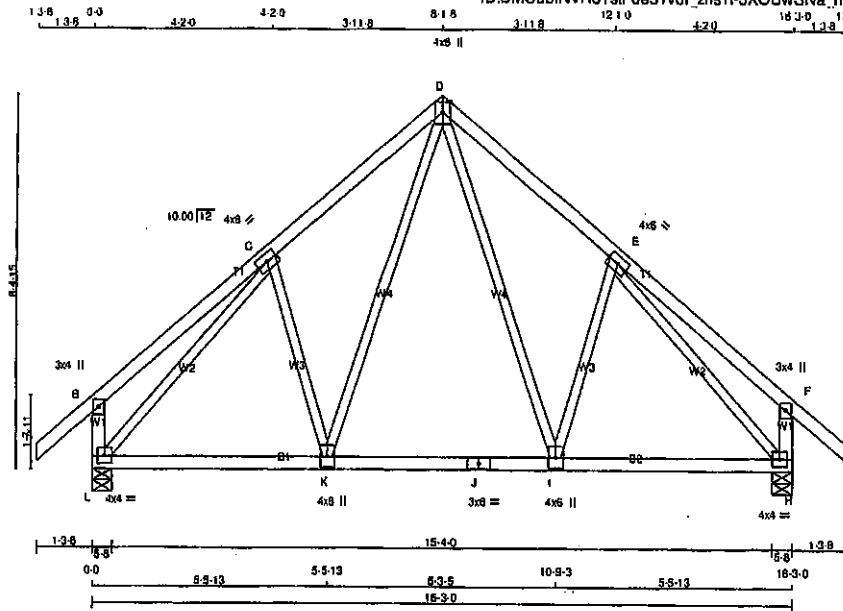


Structural component only
DWG# T-2007137

CONTINUED ON PAGE 2

JOB NAME 408168	TRUSS NAME T9	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:DMCubINVR6TslFoe31v6l_zns11-3XOUwSNa_n5755h8i5JuEGJD_OUq4EhYDqpS7tzNBRE



TOTAL WEIGHT = 6 X 80 = 480 LB

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMWW-t	MT20	4.0	6.0
D	TTWW+p	MT20	4.0	6.0
E	TMWW-t	MT20	4.0	6.0
F	TMV+p	MT20	3.0	4.0
H	BMWW-t	MT20	4.0	4.0
I	BMWW-t	MT20	4.0	6.0
J	BS-t	MT20	3.0	6.0
K	BMWW-t	MT20	4.0	6.0
L	BMWW-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	VERT	GROSS	REACTION	DOWN	HORZ	BRG	IN-SX	IN-SX	
L	1023	0		1023	0	0	5-8	5-8	
H	1023	0		1023	0	0	5-8	5-8	

UNFACTORED REACTIONS		1ST CASE		MAX / MIN. COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW													
L	721	487 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0						
H	721	487 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	234 / 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 = 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 (PL)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM TO				FR-TO			
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	D-I	0 / 330	0.07 (1)	
B-C	0 / 28	-91.8	-91.8	0.24 (1)	10.00	E-E	-216 / 0	0.09 (1)	
C-D	-745 / 0	-91.8	-91.8	0.19 (1)	6.25	K-D	0 / 330	0.07 (1)	
D-E	-745 / 0	-91.8	-91.8	0.19 (1)	6.25	C-K	-216 / 0	0.09 (1)	
E-F	0 / 28	-91.8	-91.8	0.24 (1)	10.00	L-C	-943 / 0	0.61 (1)	
F-G	0 / 41	-91.8	-91.8	0.13 (1)	10.00	E-H	-943 / 0	0.61 (1)	
L-B	-267 / 0	0.0	0.0	0.03 (1)	7.81				
H-F	-267 / 0	0.0	0.0	0.03 (1)	7.81				
L-K	0 / 616	-18.5	-18.5	0.17 (4)	10.00				
K-J	0 / 449	-18.5	-18.5	0.16 (4)	10.00				
J-I	0 / 449	-18.5	-18.5	0.16 (4)	10.00				
I-H	0 / 616	-18.5	-18.5	0.17 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/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 2010
- 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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CS1: TC=0.24/1.00 (B-C:1), BC=0.17/1.00 (H-I:4),
WB=0.81/1.00 (C-L:1), SS=0.14/1.00 (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

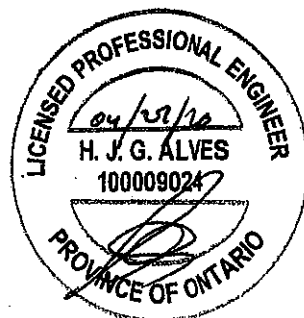
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 783 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (C) (INPUT = 0.90)
JSI METAL= 0.25 (C) (INPUT = 1.00)

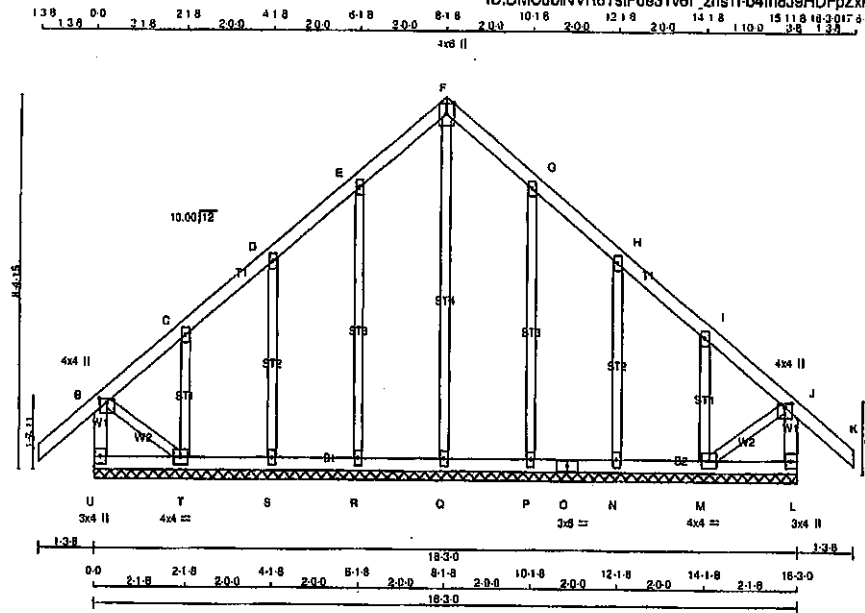


Structural component only
DWG# T-2007138

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408168	G9	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsiFoe31v6I_zns11-b4ih8J9HDFpZxKJkpJ9gVTzANmNylCAu40SVMwzNBRT



TOTAL WEIGHT = 81 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - F	2x4	DRY	No.2
F - K	2x4	DRY	No.2
U - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
O - L	2x4	DRY	No.2
O - O	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT	2'-0" OC.		

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	4.0	4.0	1.00 2.00
C, D, E, G, H, I				
C TMVW+w	MT20	2.0	4.0	
F ITW+p	MT20	4.0	8.0	Edge
J TMVW+p	MT20	4.0	4.0	1.00 2.00
L BMV1+p	MT20	3.0	4.0	
M BMVW1+	MT20	4.0	4.0	
N, P, Q, R, S				
N BMV1+w	MT20	2.0	4.0	
O BS+	MT20	3.0	6.0	
T BMVW1+	MT20	4.0	4.0	
U 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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.

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

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO	FR-TO
A-B	0/41	-91.8 -91.8 0.13 (1)	10.00
B-C	-28/0	-91.8 -91.8 0.05 (1)	8.25
C-D	-38/0	-91.8 -91.8 0.05 (1)	8.25
D-E	-24/0	-91.8 -91.8 0.05 (1)	8.25
E-F	-36/0	-91.8 -91.8 0.05 (1)	8.25
F-G	-38/0	-91.8 -91.8 0.05 (1)	8.25
G-H	-24/0	-91.8 -91.8 0.05 (1)	8.25
H-I	-38/0	-91.8 -91.8 0.05 (1)	8.25
I-J	-28/0	-91.8 -91.8 0.05 (1)	8.25
J-K	0/41	-91.8 -91.8 0.13 (1)	10.00
U-B	-248/0	0.0 0.0 0.03 (1)	7.81
L-J	-248/0	0.0 0.0 0.03 (1)	7.81
U-T	0/0	-18.5 -18.5 0.02 (4)	10.00
T-S	0/25	-18.5 -18.5 0.02 (4)	10.00
S-R	0/21	-18.5 -18.5 0.02 (4)	10.00
R-Q	0/18	-18.5 -18.5 0.02 (4)	10.00
Q-P	0/18	-18.5 -18.5 0.02 (4)	10.00
P-O	0/21	-18.5 -18.5 0.02 (4)	10.00
O-N	0/21	-18.5 -18.5 0.02 (4)	10.00
N-M	0/25	-18.5 -18.5 0.02 (4)	10.00
M-L	0/0	-18.5 -18.5 0.02 (4)	10.00
Q-F	-124/0	0.17 (1)	
R-E	-210/0	0.18 (1)	
S-D	-169/0	0.09 (1)	
T-C	-205/0	0.04 (1)	
N-H	-169/0	0.10 (1)	
M-I	-205/0	0.04 (1)	
B-T	0/37	0.01 (1)	
M-J	0/37	0.01 (1)	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/OC

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCG 2010, NBCG 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 086-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.02/1.00 (M-N:4), WB=0.17/1.00 (F-Q: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 SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

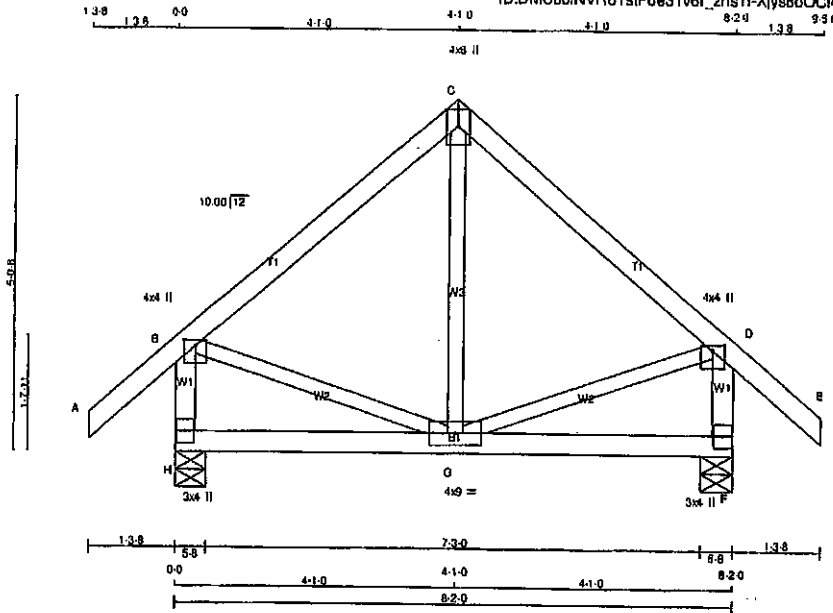
JSI GRIP= 0.52 (1) (INPUT = 0.90)

JSI METAL= 0.11 (3) (INPUT = 1.00)



Structural component only
DWG# T-2007123

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408168	T10	1	1	TRUSS DESC.		



Scale = 1:10.3

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
O - 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 (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	8.0	Edge	
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW+I	MT20	4.0	9.0		
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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX
H	577	0	577	0	0	5-8	5-8
F	577	0	577	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOSE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	406	280 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0	0 / 0
F	406	280 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0	0 / 0

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

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 (LBS)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	G-C	-37 / 57	0.02 (4)
B-C	-284 / 0	-91.8 -91.8	0.20 (1)	8.25	B-G	0 / 213	0.05 (1)
C-D	-284 / 0	-91.8 -91.8	0.20 (1)	8.25	G-D	0 / 213	0.05 (1)
D-E	0 / 41	-91.8 -91.8	0.13 (1)	10.00			
H-B	-548 / 0	0.0 0.0	0.06 (1)	7.81			
F-D	-548 / 0	0.0 0.0	0.06 (1)	7.81			
H-G	0 / 0	-18.5 -18.5	0.09 (4)	10.00			
G-F	0 / 0	-18.5 -18.5	0.09 (4)	10.00			

TOTAL WEIGHT = 38 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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/380 (0.27")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.00")
ALLOWABLE DEFL. (TL) = L/380 (0.27")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.01")

CSI: TC=0.20/1.00 (B-C:1), BC=0.09/1.00 (F-G:4), WB=0.09/1.00 (D-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

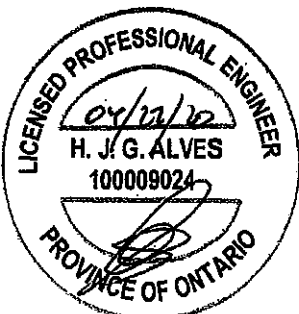
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1967 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.46 (D) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)

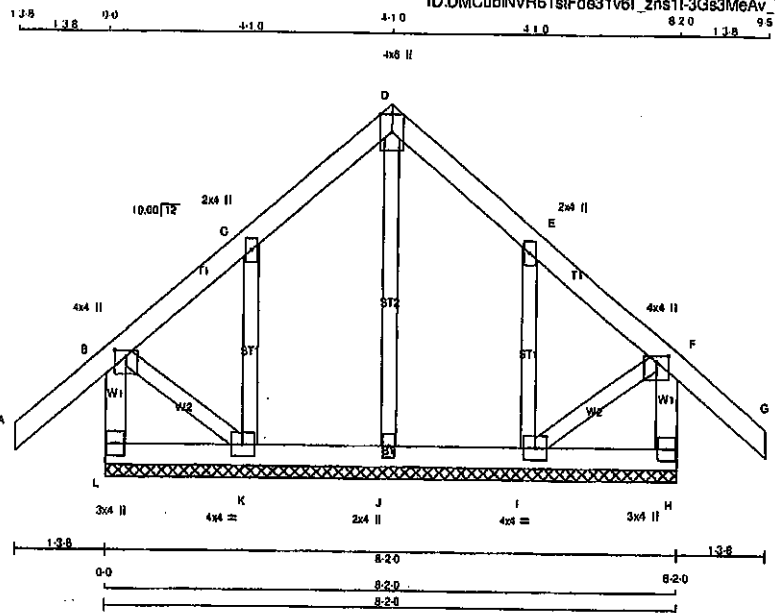


Structural component only
DWG# T-2007139

JOB NAME 408168	TRUSS NAME G10	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. Sat Apr 25 12:34:41 2020 Page 1
ID:DMCubINVR6TsFoe31v6I_zns1I-3Gs3MeAv_YyQYUwN0gv2hWL7AJChL2JgC3vMzNBRS



Scale = 1/200

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

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

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TMVW+w	MT20	2.0	4.0		
D	TTW+p	MT20	4.0	8.0	Edge	
E	TMVW+w	MT20	2.0	4.0		
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
H	BMV1+p	MT20	3.0	4.0		
I	BMVW1+t	MT20	4.0	4.0		
J	BMV1+w	MT20	2.0	4.0		
K	BMVW1+t	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED L/DI MAX (L/C)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX (L/C)
FR-TO					FR-TO		
L-B	-224 / 0	0.0	0.0 0.02 (1)	7.81	J-D	-126 / 0	0.05 (1)
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	K-C	-227 / 0	0.04 (1)
B-C	-11 / 0	-91.8	-91.8 0.06 (1)	6.25	I-E	-227 / 0	0.04 (1)
C-D	-31 / 0	-91.8	-91.8 0.08 (1)	6.25	B-K	0 / 24	0.01 (1)
D-E	-31 / 0	-91.8	-91.8 0.08 (1)	6.25	I-F	0 / 24	0.01 (1)
E-F	-11 / 0	-91.8	-91.8 0.08 (1)	6.25			
F-G	0 / 41	-91.8	-91.8 0.13 (1)	10.00			
H-F	-224 / 0	0.0	0.0 0.02 (1)	7.81			
L-K	0 / 0	-18.5	-18.5 0.02 (4)	10.00			
K-J	0 / 13	-18.5	-18.5 0.02 (4)	10.00			
J-I	0 / 13	-18.5	-18.5 0.02 (4)	10.00			
I-H	0 / 0	-18.5	-18.5 0.02 (4)	10.00			

TOTAL WEIGHT = 40 lb (M)

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, OBC 2012, ABC 2018
- PART 9 OF CBC 2012 (2018 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=0.13/1.00 (A-B:1), BC=0.02/1.00 (J-K:4),
WB=0.05/1.00 (D-J:1), SI=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

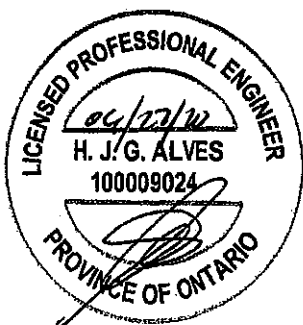
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1667 788 1887 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (C) (INPUT = 0.90)

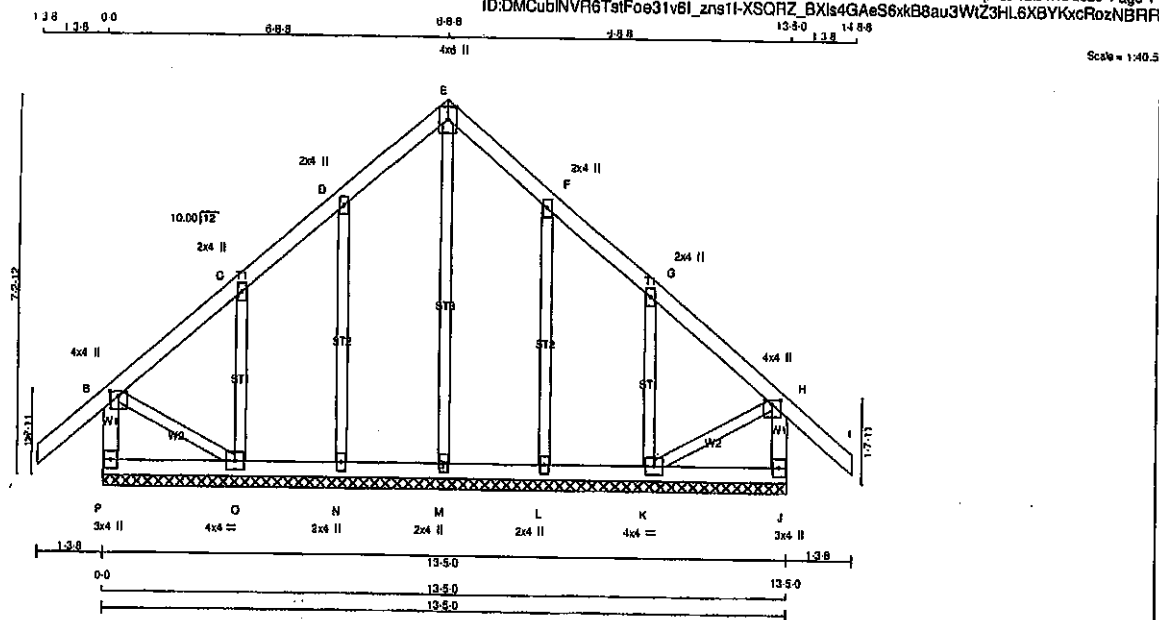
JSI METAL= 0.12 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007124

Structural component only
DWG# T-2007140

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	G11	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER
P - B	2x4	DRY	No.2	
A - E	2x4	DRY	No.2	
E - I	2x4	DRY	No.2	
J - H	2x4	DRY	No.2	
P - J	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	TMWV+p	MT20	4.0	4.0	1.00	2.00
C, D, F, G						
C	TMW+w	MT20	2.0	4.0		
E	TTW+p	MT20	4.0	6.0	Edge	
H	TMWV+p	MT20	4.0	4.0	1.00	2.00
J	BMV1+p	MT20	3.0	4.0		
K	BMWV1+1	MT20	4.0	4.0		
L, M, N						
L	BMW1+w	MT20	2.0	4.0		
O	BMWV1+1	MT20	4.0	4.0		
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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CS (LC)	MAX. UNBRAC LENGTH (IN)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)		
FR-TO		FROM TO			FR-TO				
P-B	-283 / 0	0.0 0.0	0.03 (1)	7.81	M-E	-128 / 0	0.11 (1)		
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	N-D	-190 / 0	0.09 (1)		
B-C	-24 / 0	-91.8 -91.8	0.08 (1)	8.25	O-C	-239 / 0	0.08 (1)		
C-D	-36 / 0	-91.8 -91.8	0.08 (1)	8.25	L-F	-190 / 0	0.09 (1)		
D-E	-35 / 0	-91.8 -91.8	0.05 (1)	8.25	K-G	-239 / 0	0.08 (1)		
E-F	-35 / 0	-91.8 -91.8	0.05 (1)	8.25	B-O	0 / 32	0.01 (1)		
F-G	-36 / 0	-91.8 -91.8	0.08 (1)	8.25	K-H	0 / 32	0.01 (1)		
G-H	-24 / 0	-91.8 -91.8	0.08 (1)	8.25					
H-I	0 / 41	-91.8 -91.8	0.13 (1)	10.00					
J-H	-283 / 0	0.0 0.0	0.03 (1)	7.81					
P-O	0 / 0	-18.5 -18.5	0.03 (4)	10.00					
O-N	0 / 22	-18.5 -18.5	0.03 (4)	10.00					
N-M	0 / 19	-18.5 -18.5	0.02 (4)	10.00					
M-L	0 / 19	-18.5 -18.5	0.02 (4)	10.00					
L-K	0 / 22	-18.5 -18.5	0.03 (4)	10.00					
K-J	0 / 0	-18.5 -18.5	0.03 (4)	10.00					

TOTAL WEIGHT = 65 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

CSI: TC=0.13/1.00 (H-L), BC=0.03/1.00 (K-L), WB=0.11/1.00 (E-M), SS=0.09/1.00 (G-H)

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	1887
	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= 0.13 (G) (INPUT = 1.00)



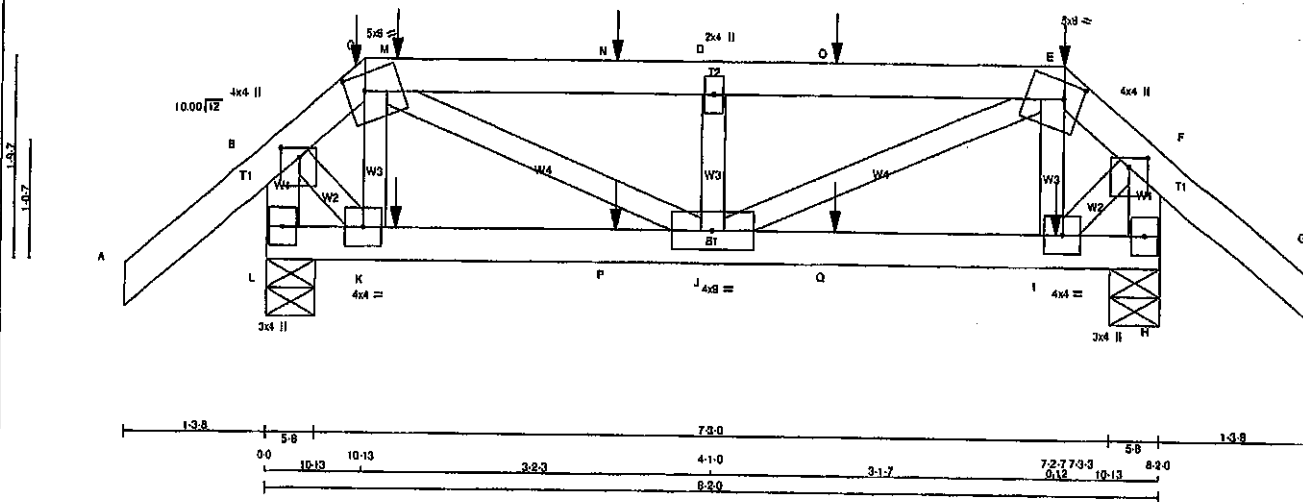
Structural component only
DWG# T-2007125

JOB NAME 408168	TRUSS NAME T12	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:35:01 2020 Page 1
ID:DMCubINVR6TstFoe31v8t_zns1I-T63dYUPSGITayZPmYD1bsvLIXEW1HhI_vn28cCzNBR8

13.8 1.3.8 6.0 10.13 1.2.7 2.0.0 3.2.7 10.9 4.1.0 1.1.7 5.2.7 2.0.12 7.3.3 10.13 8.4.0 1.3.8 9.3.8

Scale = 1:16.8



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF		
C - E	2x4	DRY	No.2	SPF		
E - G	2x4	DRY	No.2	SPF		
L - B	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
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-1	MT20	4.0	4.0		
J	BMVW-1	MT20	4.0	4.0		
K	BMVW-1	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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
L	913	0	0	5-8
H	911	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
L	842	442/0	0/0	0/0	0/0	189/0
H	841	437/0	0/0	0/0	0/0	204/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (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	0/41	-91.8	-91.8	0.14 (1)	10.00	J-D	-497/0	0.08 (1)	
B-C	-831/0	-91.8	-91.8	0.14 (1)	8.25	K-C	-158/0	0.02 (1)	
C-M	-1054/0	-91.8	-91.8	0.23 (1)	5.82	C-J	0/720	0.17 (1)	
M-N	-1054/0	-91.8	-91.8	0.23 (1)	5.82	B-K	0/525	0.13 (1)	
N-D	-1054/0	-91.8	-91.8	0.23 (1)	5.82	I-E	-149/0	0.02 (1)	
D-O	-1054/0	-91.8	-91.8	0.23 (1)	5.82	J-E	0/698	0.17 (1)	
O-E	-1054/0	-91.8	-91.8	0.23 (1)	5.82	I-F	0/526	0.13 (1)	
E-F	-832/0	-91.8	-91.8	0.14 (1)	6.25				
F-G	0/41	-91.8	-91.8	0.14 (1)	10.00				
L-B	-838/0	0.0	0.0	0.10 (1)	7.81				
H-F	-837/0	0.0	0.0	0.10 (1)	7.81				
L-K	0/0	-18.5	-18.5	0.05 (1)	10.00				
K-P	0/420	-18.5	-18.5	0.13 (1)	10.00				
P-J	0/420	-18.5	-18.5	0.13 (1)	10.00				
J-Q	0/421	-18.5	-18.5	0.14 (1)	10.00				
Q-I	0/421	-18.5	-18.5	0.14 (1)	10.00				
I-H	0/0	-18.5	-18.5	0.05 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC.	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	10-13	-9	-10		FRONT	VERT	DEAD		C1
C	1-2-7	-114	-114		BACK	VERT	TOTAL		C1
C	10-13	-44	-44		FRONT	VERT	SNOW		C1
E	7-3-3	-9	-10		FRONT	VERT	DEAD		C1
E	7-3-3	-90	-90		BACK	VERT	TOTAL		C1
E	7-3-3	-44	-44		FRONT	VERT	SNOW		C1
I	7-2-7	-49	-49		BACK	VERT	TOTAL		C1
K	1-2-7	-49	-49		BACK	VERT	TOTAL		C1
N	3-2-7	-82	-82		BACK	VERT	TOTAL		C1
O	5-2-7	-82	-82		BACK	VERT	TOTAL		C1
P	3-2-7	-49	-49		BACK	VERT	TOTAL		C1
Q	5-2-7	-49	-49		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 34 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** 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 2015
- PART 9 OF NBC 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/800 (0.27")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/800 (0.27")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSK: TC=0.23/1.00 (C-D:1), BC=0.14/1.00 (I-J:1), WB=0.17/1.00 (C-J:1), SS=0.22/1.00 (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

AUTOSOLVE HEELS OFF

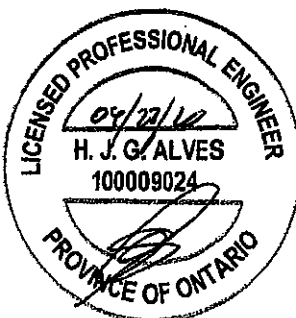
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

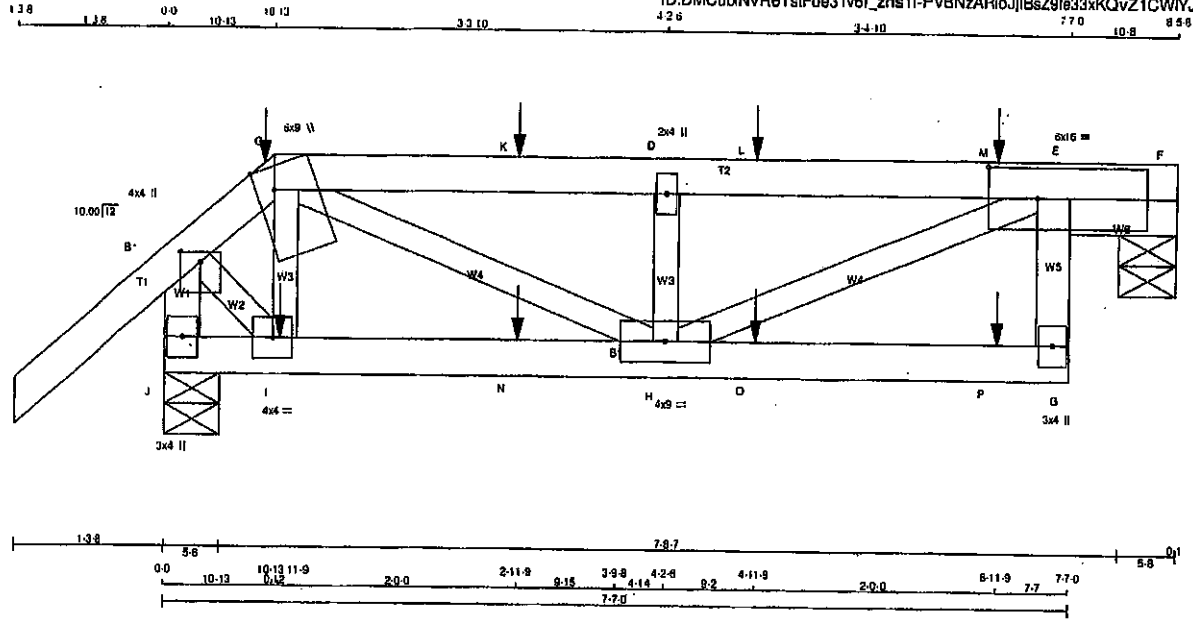
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Structural component only
DWG# T-2007141

JOB NAME 408168	TRUSS NAME T13	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6I_zns1I-PVBNzARioJlIBsZ9fe33xKQvZ1CWVYJHNSXDq4zNB8B6



Scale = 1:17.5

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
E - F	2x4	DRY	No.2
G - E	2x4	DRY	No.2
J - B	2x4	DRY	No.2
J - G	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY; SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TTWW+m	MT20	6.0	8.0	Edge 1.75
D	TMVW+w	MT20	2.0	4.0	
E	TMVWV-t	MT20	6.0	16.0	3.00 5.00
G	BMV+p	MT20	3.0	4.0	
H	BMVWV-t	MT20	4.0	9.0	
I	BMVW-t	MT20	4.0	4.0	
J	BMV-t+p	MT20	3.0	4.0	

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	695	0	695	0
J	936	0	936	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	490	327 / 0	0 / 0	0 / 0	0 / 0	163 / 0	0 / 0
J	659	449 / 0	0 / 0	0 / 0	0 / 0	210 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 41	-91.8	-91.8 0.14 (1)	10.00	I-C	-158 / 0	0.03 (1)
B-C	-856 / 0	-91.8	-91.8 0.14 (1)	6.25	B-I	0 / 548	0.14 (1)
C-K	-1230 / 0	-91.8	-91.8 0.48 (1)	5.09	H-D	-787 / 0	0.12 (1)
K-D	-1230 / 0	-91.8	-91.8 0.48 (1)	5.09	C-H	0 / 687	0.21 (1)
D-L	-1230 / 0	-91.8	-91.8 0.89 (1)	3.56	H-E	0 / 1345	0.33 (1)
L-M	-1230 / 0	-91.8	-91.8 0.89 (1)	3.56			
M-E	-1230 / 0	-91.8	-91.8 0.89 (1)	3.56			
E-F	0 / 0	-91.8	-91.8 0.35 (1)	10.00			
G-E	0 / 83	0.0	0.0 0.02 (4)	10.00			
J-B	-966 / 0	0.0	0.0 0.11 (1)	7.81			
J-I	0 / 0	-18.5	-18.5 0.09 (1)	10.00			
I-N	0 / 438	-18.5	-18.5 0.14 (1)	10.00			
N-H	0 / 438	-18.5	-18.5 0.14 (1)	10.00			
H-O	0 / 0	-18.5	-18.5 0.09 (1)	10.00			
O-P	0 / 0	-18.5	-18.5 0.09 (1)	10.00			
P-G	0 / 0	-18.5	-18.5 0.09 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	10-13	-9	-10	---	FRONT	VERT	DEAD	---	C1
C	10-13	-90	-90	---	FRONT	VERT	TOTAL	---	C1
C	10-13	-44	-44	---	FRONT	VERT	SNOW	---	C1
I	11-9	-49	-49	---	FRONT	VERT	TOTAL	---	C1
K	2-11-9	-82	-82	---	FRONT	VERT	TOTAL	---	C1
L	4-11-9	-82	-82	---	FRONT	VERT	TOTAL	---	C1
M	6-11-9	-82	-82	---	FRONT	VERT	TOTAL	---	C1
N	2-11-9	-49	-49	---	FRONT	VERT	TOTAL	---	C1
O	4-11-9	-49	-49	---	FRONT	VERT	TOTAL	---	C1
P	6-11-9	-53	-53	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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. G/G

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

*** NON STANDARD GIRDER ***

ADDTL. USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF 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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/688 (0.13")

CSI: TG=0.89/1.00 (D-E:1), BC=0.14/1.00 (H-I:1), WB=0.33/1.00 (E-H:1), SSI=0.42/1.00 (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 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.70 (C) (INPUT = 0.90)
JSI METAL = 0.30 (H) (INPUT = 1.00)

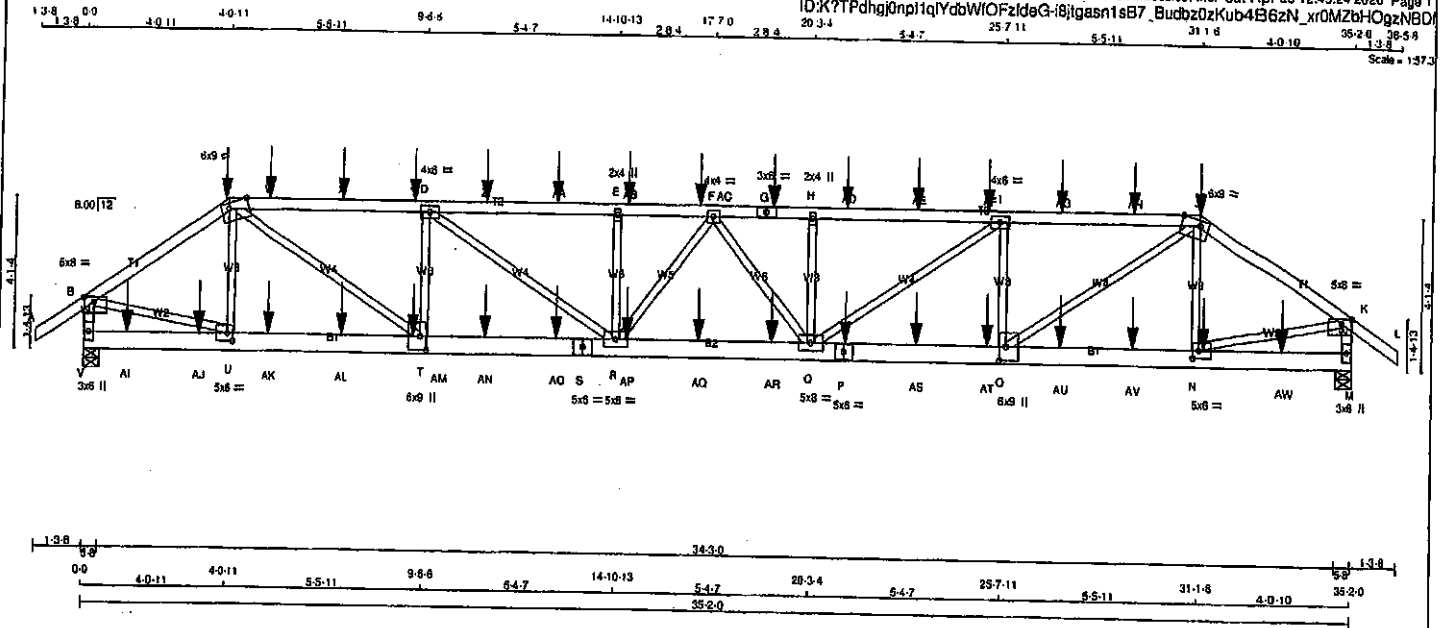


Structural component only
DWG# T-2007142

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408169	T20	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
V - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
V - S	2x6	DRY	No.2
S - P	2x8	DRY	No.2
P - M	2x8	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY; SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	SIDE(81.0)
C - G	12	SIDE(81.0)
G - J	12	SIDE(81.0)
J - L	12	SIDE(81.0)
V - B	12	TOP
M - K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V - S	12	SIDE(183.1)
S - P	12	SIDE(183.1)
P - M	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS					
FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD	
		GROSS REACTION	BRG	BRG	
	VERT	DOWN	UP	IN-SX	IN-SX
JT	3342	0	0	5-8	5-8
V	3342	0	0	5-8	5-8
M	3393	0	0	5-8	5-8

UNFACTORED REACTIONS					
1ST LCASE	MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
V	2383	1558 / 0	0 / 0	0 / 0	0 / 0
M	2397	1585 / 0	0 / 0	0 / 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 = 3.03 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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED	MEMB.	FORCE (LBS)
FR-TO			MAX. FACTORED		
			CSF (LC)		CSF (LC)
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00
B-C	-3951 / 0	-91.8	-91.8	0.22 (1)	4.58
C-W	-8186 / 0	-91.8	-91.8	0.61 (1)	3.41
W-X	-8186 / 0	-91.8	-91.8	0.61 (1)	3.41
X-Y	-8186 / 0	-91.8	-91.8	0.61 (1)	3.41
Y-D	-8186 / 0	-91.8	-91.8	0.35 (1)	3.41
D-Z	-7502 / 0	-91.8	-91.8	0.71 (1)	3.03
Z-AA	-7502 / 0	-91.8	-91.8	0.71 (1)	3.03
AA-E	-7502 / 0	-91.8	-91.8	0.71 (1)	3.03
E-AB	-7502 / 0	-91.8	-91.8	0.35 (1)	3.33
AB-AC	-7502 / 0	-91.8	-91.8	0.35 (1)	3.33
AC-F	-7502 / 0	-91.8	-91.8	0.35 (1)	3.33
F-G	-7509 / 0	-91.8	-91.8	0.37 (1)	3.31
G-H	-7509 / 0	-91.8	-91.8	0.37 (1)	3.31
H-AD	-7509 / 0	-91.8	-91.8	0.71 (1)	3.03
AD-AE	-7509 / 0	-91.8	-91.8	0.71 (1)	3.03
AE-AF	-7509 / 0	-91.8	-91.8	0.71 (1)	3.03
AF-I	-7509 / 0	-91.8	-91.8	0.71 (1)	3.03
I-AG	-8217 / 0	-91.8	-91.8	0.61 (1)	3.41
AG-AH	-8217 / 0	-91.8	-91.8	0.61 (1)	3.41
AH-J	-8217 / 0	-91.8	-91.8	0.61 (1)	3.41
J-K	-4025 / 0	-91.8	-91.8	0.22 (1)	4.55
K-L	0 / 35	-91.8	-91.8	0.07 (1)	10.00
V-B	-3286 / 0	0.0	0.0	0.18 (1)	8.41
M-K	-3359 / 0	0.0	0.0	0.19 (1)	6.38
V-AI	0 / 0	-18.5	-18.5	0.05 (4)	10.00
A-AJ	0 / 0	-18.5	-18.5	0.05 (4)	10.00
AJ-U	0 / 0	-18.5	-18.5	0.05 (4)	10.00
U-AK	0 / 3285	-18.5	-18.5	0.25 (1)	10.00
AK-AL	0 / 3285	-18.5	-18.5	0.25 (1)	10.00
AL-AM	0 / 3285	-18.5	-18.5	0.25 (1)	10.00
AM-T	0 / 3285	-18.5	-18.5	0.25 (1)	10.00
T-AN	0 / 8186	-18.5	-18.5	0.48 (1)	10.00
AN-AO	0 / 8186	-18.5	-18.5	0.48 (1)	10.00
AO-S	0 / 8186	-18.5	-18.5	0.48 (1)	10.00
S-R	0 / 8186	-18.5	-18.5	0.48 (1)	10.00
R-AP	0 / 7806	-18.5	-18.5	0.56 (1)	10.00
AP-AQ	0 / 7806	-18.5	-18.5	0.56 (1)	10.00
AQ-AR	0 / 7806	-18.5	-18.5	0.56 (1)	10.00
AR-Q	0 / 7806	-18.5	-18.5	0.56 (1)	10.00
Q-P	0 / 8217	-18.5	-18.5	0.48 (1)	10.00
P-AS	0 / 8217	-18.5	-18.5	0.48 (1)	10.00

TOTAL WEIGHT = 2 X 180 = 321 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 = 25.8 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 6.00/12

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/984 (0.44")

CSF: TC=0.71/1.00 (D-E:1), BC=0.56/1.00 (Q-R:1),
WB=0.44/1.00 (C-T:1), SS=0.23/1.00 (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)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.71 (G) (INPUT = 0.90)
JSI METAL = 0.59 (S) (INPUT = 1.00)



Structural component only
DWG# T-2007145 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408169	T20	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.50	3.50
C	TTWW-m	MT20	8.0	9.0	Edge 8.25	
D	TMVW-t	MT20	4.0	6.0		
E	TMVW-w	MT20	2.0	4.0		
F	TMVW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-w	MT20	2.0	4.0		
I	TMVW-t	MT20	4.0	6.0		
J	TTWW-m	MT20	6.0	9.0	Edge 8.25	
K	TMVW-p	MT20	5.0	8.0	1.50	3.50
M	BMV1+p	MT20	3.0	6.0		
N	BMVW-t	MT20	5.0	8.0	2.50	2.00
O	BMVW-t	MT20	8.0	9.0	4.50	2.00
P	BS-t	MT20	5.0	6.0		
Q	BMVW-w	MT20	5.0	8.0		
R	BMVW-w	MT20	5.0	8.0		
S	BS-t	MT20	5.0	6.0		
T	BMVW-t	MT20	6.0	9.0	4.50	2.00
U	BMVW-t	MT20	5.0	6.0	2.50	2.00
V	BMV1+p	MT20	3.0	6.0		

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC (LBS)	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC (LBS)
FR-TO						
AS-AT	0 / 8217	-18.5	-18.5	0.48 (1)	10.00	
AT-O	0 / 8217	-18.5	-18.5	0.46 (1)	10.00	
O-AU	0 / 3326	-18.5	-18.5	0.26 (1)	10.00	
AU-AV	0 / 3326	-18.5	-18.5	0.26 (1)	10.00	
AV-N	0 / 3326	-18.5	-18.5	0.26 (1)	10.00	
N-AW	0 / 0	-18.5	-18.5	0.04 (4)	10.00	
AW-M	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.
C	4-0-11	-49	-55	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-254	-254	---	FRONT	VERT	SNOW	---	C1
G	19-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
J	31-1-8	-49	-55	---	FRONT	VERT	DEAD	---	C1
J	31-1-8	-117	-117	---	BACK	VERT	TOTAL	---	C1
N	31-1-8	-254	-254	---	FRONT	VERT	SNOW	---	C1
P	31-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
W	21-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
X	5-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
X	7-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
Y	9-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
Z	11-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AA	13-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AB	15-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AC	17-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AD	21-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AE	23-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AF	25-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AG	27-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AH	29-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AI	1-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AJ	3-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AK	5-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AL	7-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AM	9-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AN	11-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AO	13-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AP	15-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AQ	17-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AR	19-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AS	23-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AT	25-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AU	27-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AV	29-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
AW	33-2-12	-26	-26	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

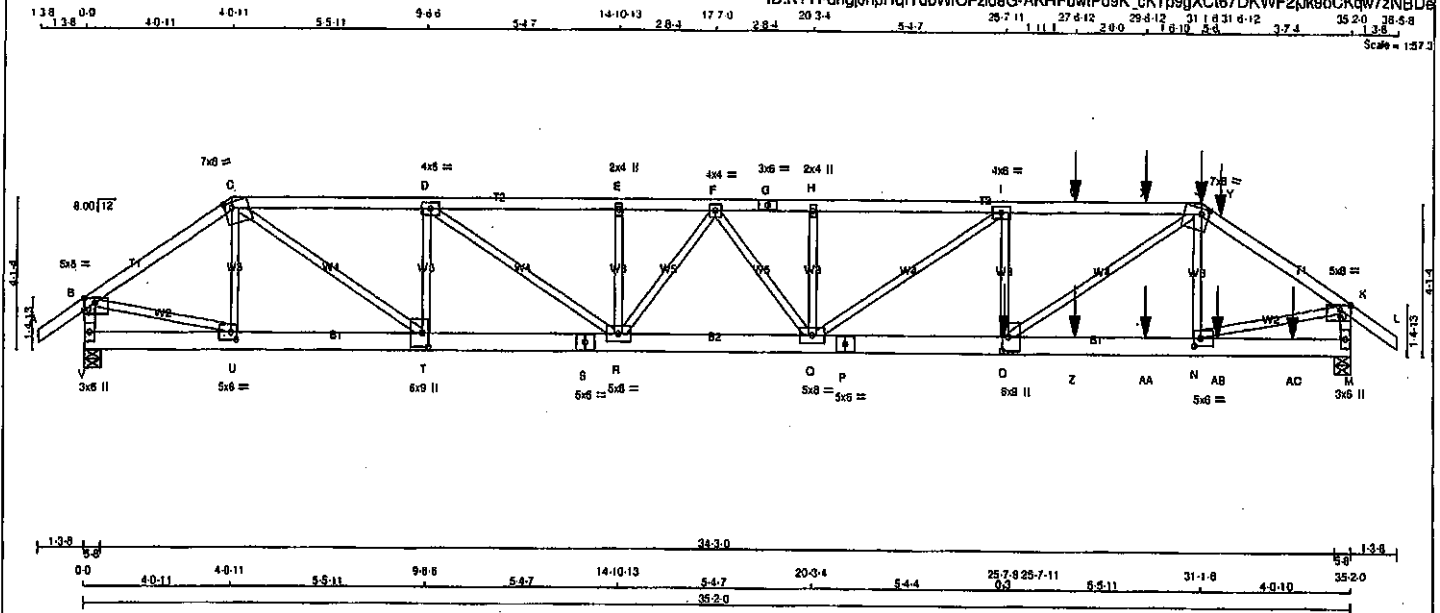


Structural component only
DWG# T-2007145

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408169	T20Z	1	2	GREEN PARK HOMES		

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 - G	2x4	DRY	No.2	SPF		
G - J	2x4	DRY	No.2	SPF		
J - L	2x4	DRY	No.2	SPF		
V - B	2x4	DRY	No.2	SPF		
M - K	2x4	DRY	No.2	SPF		
V - S	2x6	DRY	No.2	SPF		
S - P	2x6	DRY	No.2	SPF		
P - M	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	TOP
C-G	12	TOP
G-J	12	TOP
J-L	12	TOP
V-B	12	TOP
M-K	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
V-S	12	TOP
S-P	12	TOP
P-M	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(183.1)
I-O	3	SIDE(183.1)
D-T	3	SIDE(183.1)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	UP	BRG	BRG	IN-SX	IN-SX
V	2938	0	2938	0	0	5-8	5-8		
M	4786	0	4786	0	0	5-8	5-8		
UNFACTORED REACTIONS		MAX/MIN COMPONENT REACTIONS		1ST LOASE		MAX/MIN COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL	
V	2073	1388	0	0	0	0	684	0	0
M	3381	2278	0	0	0	0	1103	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 = 2.57 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)	CS (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0/35	-91.8	-91.8 0.07 (1)	U-C	-564/0	0.07 (1)	
B-C	-3442/0	-91.8	-91.8 0.20 (1)	C-T	0/3700	0.48 (1)	
C-D	-5905/0	-91.8	-91.8 0.43 (1)	T-D	-1883/0	0.26 (1)	
D-E	-7947/0	-91.8	-91.8 0.58 (1)	D-R	0/2485	0.31 (1)	
E-F	-7947/0	-91.8	-91.8 0.31 (1)	R-E	-368/0	0.05 (1)	
F-G	-8222/0	-91.8	-91.8 0.38 (1)	G-H	-348/0	0.04 (1)	
G-H	-8222/0	-91.8	-91.8 0.38 (1)	H-I	-503/0	0.19 (1)	
H-I	-8222/0	-91.8	-91.8 0.77 (1)	I-J	-397/0	0.05 (1)	
I-W	-9635/0	-91.8	-91.8 0.88 (1)	W-X	0/5776	0.71 (1)	
W-X	-9635/0	-91.8	-91.8 0.88 (1)	X-J	-915/0	0.12 (1)	
X-J	-9635/0	-91.8	-91.8 0.88 (1)	J-U	0/2940	0.38 (1)	
J-Y	-5847/0	-91.8	-91.8 0.33 (1)	Y-K	0/5020	0.82 (1)	
Y-K	-5847/0	-91.8	-91.8 0.33 (1)	K-F	-1209/0	0.21 (1)	
K-L	0/35	-91.8	-91.8 0.07 (1)	L-F	0/874	0.12 (1)	
V-B	-2914/0	0.0	0.0 0.18 (1)				
M-K	-4771/0	0.0	0.0 0.27 (1)				
V-U	0/0	-18.5	-18.5 0.03 (4)				
U-T	0/2843	-18.5	-18.5 0.21 (1)				
T-S	0/5908	-18.5	-18.5 0.44 (1)				
S-R	0/5908	-18.5	-18.5 0.44 (1)				
R-Q	0/8653	-18.5	-18.5 0.62 (1)				
Q-P	0/8653	-18.5	-18.5 0.72 (1)				
P-O	0/8653	-18.5	-18.5 0.72 (1)				
O-Z	0/4855	-18.5	-18.5 0.41 (1)				
Z-AA	0/4855	-18.5	-18.5 0.41 (1)				
AA-N	0/4855	-18.5	-18.5 0.41 (1)				
N-AB	0/0	-18.5	-18.5 0.06 (4)				
AB-AC	0/0	-18.5	-18.5 0.08 (4)				
AC-M	0/0	-18.5	-18.5 0.08 (4)				

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.
J	31-1-6	-49	-55	---	FRONT	VERT	DEAD	---	---	C1	
J	31-1-6	-254	-254	---	FRONT	VERT	SNOW	---	---	C1	
O	25-7-8	-2840	-2840	---	FRONT	VERT	TOTAL	---	---	C1	
W	27-8-12	-110	-110	---	FRONT	VERT	TOTAL	---	---	C1	
X	28-8-12	-110	-110	---	FRONT	VERT	TOTAL	---	---	C1	
Y	31-6-12	-136	-136	---	FRONT	VERT	TOTAL	---	---	C1	
Z	27-8-12	-26	-26	---	FRONT	VERT	TOTAL	---	---	C1	
AA	28-8-12	-26	-26	---	FRONT	VERT	TOTAL	---	---	C1	
AB	31-6-12	-26	-26	---	FRONT	VERT	TOTAL	---	---	C1	
AC	33-6-12	-26	-26	---	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

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

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- 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 (1.17)
CALCULATED VERT. DEFL.(LL) = L/999 (0.28)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/832 (0.51")

CS: TC=0.88/1.00 (I-J:1), BC=0.72/1.00 (O-Q:1), WB=0.71/1.00 (J-O:1), SS=0.18/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

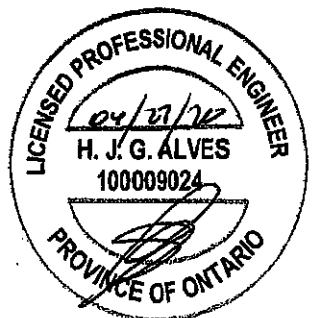
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1887 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (C) (INPUT = 0.90)
JSI METAL = 0.87 (S) (INPUT = 1.00)



Structural component only
DWG# T-2007146 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T20Z	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
B	TMVW-p	MT20	5.0	8.0	1.50 3.50
C	TTWW-m	MT20	7.0	8.0	1.75 2.50
D	TMVW-l	MT20	4.0	6.0	
E	TMVW-w	MT20	2.0	4.0	
F	TMVW-t	MT20	4.0	4.0	
G	TS-l	MT20	3.0	6.0	
H	TMVW-w	MT20	2.0	4.0	
I	TTWW-l	MT20	4.0	6.0	
J	TTWW-m	MT20	7.0	8.0	1.75 2.50
K	TMVW-p	MT20	5.0	8.0	1.50 3.50
M	BMV1-p	MT20	3.0	6.0	
N	BMVW-l	MT20	5.0	6.0	2.50 2.00
O	BMVW+l	MT20	6.0	9.0	4.50 2.00
P	BS-l	MT20	5.0	6.0	
Q	BMVWVW-l	MT20	5.0	8.0	
R	BMVWVW-l	MT20	5.0	8.0	
S	BS-l	MT20	5.0	6.0	
T	BMVWVW+l	MT20	6.0	9.0	4.50 2.00
U	BMVWVW-l	MT20	5.0	6.0	2.50 2.00
V	BMV1-p	MT20	3.0	6.0	

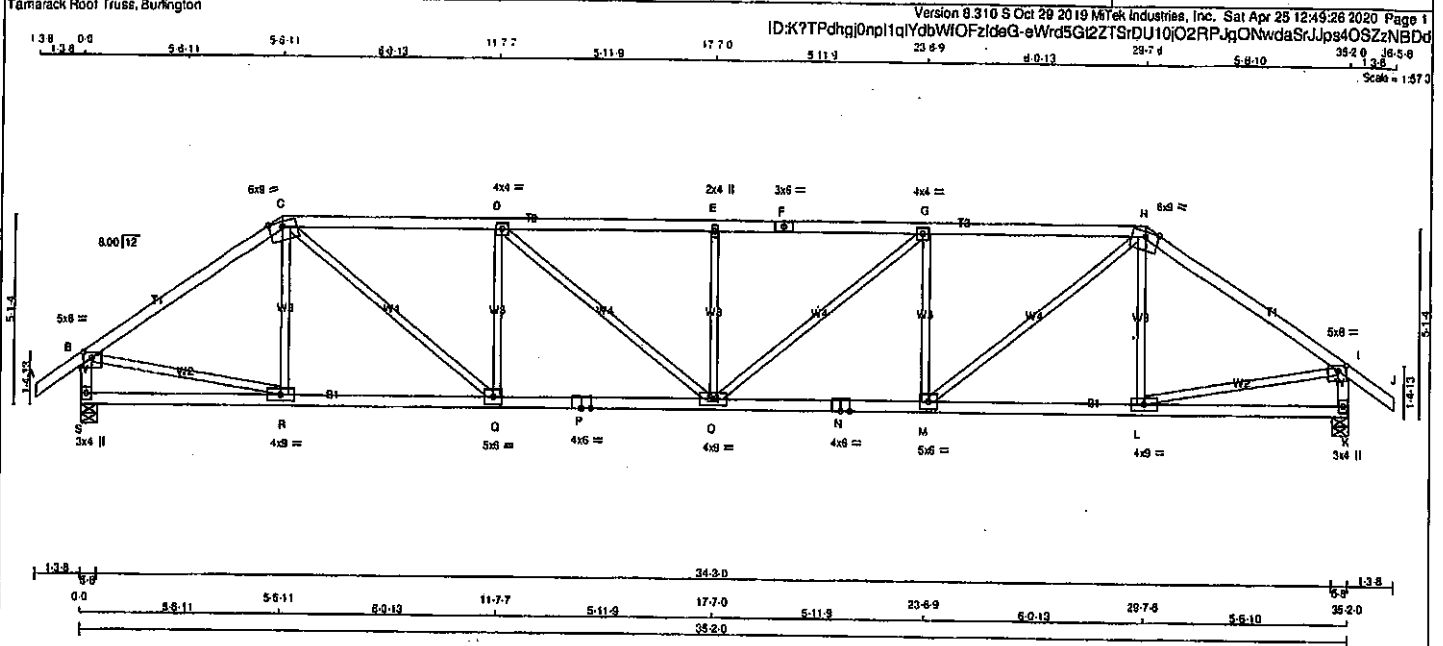
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007146 42

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T21	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
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1:3.8 0.0 5.8-11 5.8-11 6.0-13 11.7-7 5.11-9 17.7-0 5.11-9 23.6-9 6.0-13 29.7-4 5.8-10 35.2-0 38.5-8 1:3.8					
Scale = 1:57.0					



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
S - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	6.0	1.75 2.75
C	TTWW-m	MT20	6.0	9.0	Edge
D	TMVW-l	MT20	4.0	4.0	
E	TMVW-w	MT20	2.0	4.0	
F	TS-l	MT20	3.0	6.0	
G	TMVW-l	MT20	4.0	4.0	
H	TTWW-m	MT20	6.0	9.0	Edge
I	TMVW-p	MT20	5.0	6.0	1.75 2.75
K	BMV-l-p	MT20	3.0	4.0	
L	BMVW-l	MT20	4.0	9.0	
M	BMVW-l	MT20	5.0	6.0	
N	BS-l	MT20	4.0	6.0	
O	BMVW-l	MT20	4.0	9.0	
P	BS-l	MT20	4.0	6.0	
Q	BMVW-l	MT20	5.0	6.0	
R	BMVW-l	MT20	4.0	9.0	
S	BMV-l-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	RECORD BRG	
JT	-VERT	HORZ	DOWN	HORZ	UPLIFT
S	2085	0	2085	0	0
K	2085	0	2085	0	0

UNFACTORED REACTIONS					
1ST LCASE	MAX	MIN	COMPONENT REACTIONS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
S	1458	970 / 0	0 / 0	0 / 0	488 / 0
K	1458	970 / 0	0 / 0	0 / 0	488 / 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 = 2.97 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING					
TOTAL LOAD CASES: (4)					
CHORDS					
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSF (LC)
FR-TO					
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	R-C -243 / 10 0.09 (1)
B-C	-2297 / 0	-91.8	-91.8 0.70 (1)	3.78	C-Q 0 / 1969 0.38 (1)
C-D	-3213 / 0	-91.8	-91.8 0.80 (1)	3.19	C-D -929 / 0 0.38 (1)
D-E	-3584 / 0	-91.8	-91.8 0.88 (1)	2.97	D-O 0 / 489 0.11 (1)
E-F	-3594 / 0	-91.8	-91.8 0.88 (1)	2.97	O-E -505 / 0 0.19 (1)
F-G	-3584 / 0	-91.8	-91.8 0.88 (1)	2.97	O-G 0 / 490 0.11 (1)
G-H	-3213 / 0	-91.8	-91.8 0.80 (1)	3.19	M-G -929 / 0 0.38 (1)
H-I	-2296 / 0	-91.8	-91.8 0.70 (1)	3.78	M-H 0 / 1970 0.38 (1)
I-J	0 / 35	-91.8	-91.8 0.12 (1)	10.00	L-H -243 / 10 0.09 (1)
S-B	-2023 / 0	0.0	0.0 0.21 (1)	5.94	B-R 0 / 1943 0.44 (1)
K-I	-2023 / 0	0.0	0.0 0.21 (1)	5.94	L-I 0 / 1943 0.44 (1)
S-R	0 / 0	-18.5	-18.5 0.15 (4)	10.00	
R-Q	0 / 1904	-18.5	-18.5 0.39 (1)	10.00	
Q-P	0 / 3213	-18.5	-18.5 0.58 (1)	10.00	
P-O	0 / 3213	-18.5	-18.5 0.58 (1)	10.00	
O-N	0 / 3213	-18.5	-18.5 0.68 (1)	10.00	
N-M	0 / 3213	-18.5	-18.5 0.58 (1)	10.00	
M-L	0 / 1903	-18.5	-18.5 0.39 (1)	10.00	
L-K	0 / 0	-18.5	-18.5 0.15 (4)	10.00	

TOTAL WEIGHT = 2 X 140 = 280 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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.17")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
 ALLOWABLE DEFL.(TL)= L/360 (1.17")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.39")

CS: TC=0.88/1.00 (E-G:1), BC=0.58/1.00 (O-Q:1), WB=0.44/1.00 (B-R:1), SS=0.28/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

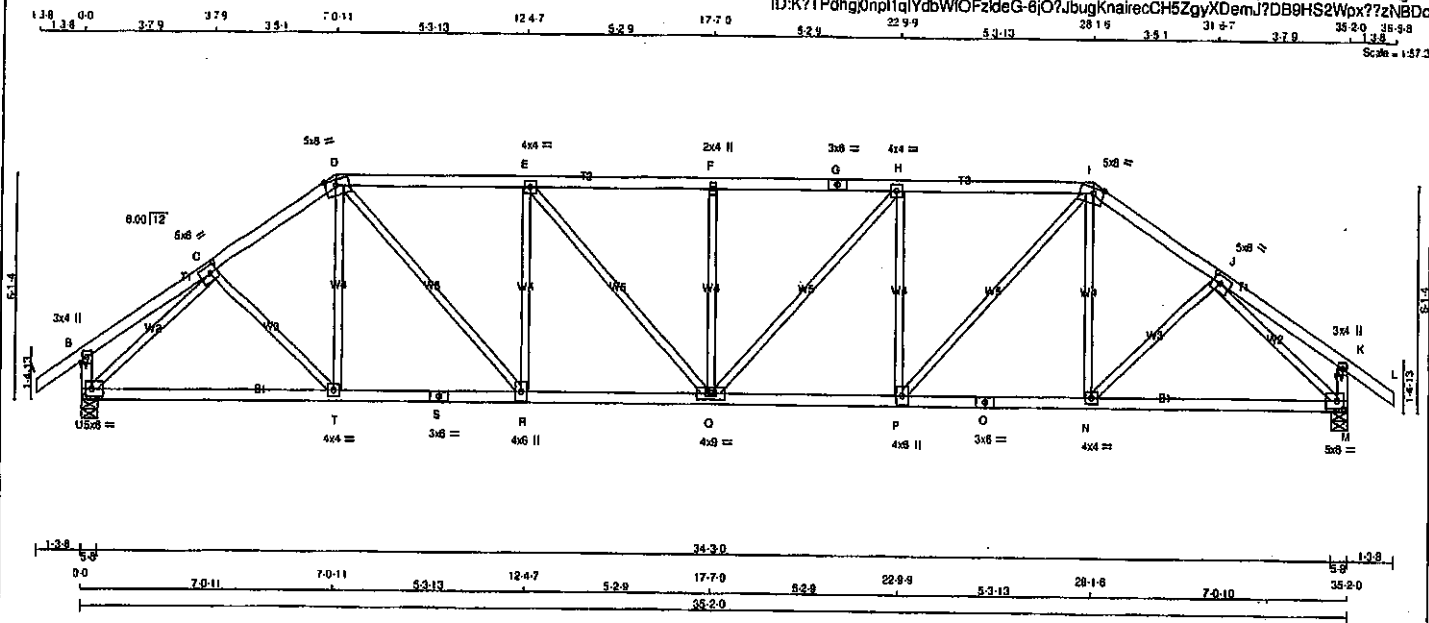
JSI GRIP= 0.87 (B) (INPUT = 0.90)
 JSI METAL= 0.74 (P) (INPUT = 1.00)



Structural component only
 DWG# T-2007147

JOB NAME 408169	TRUSS NAME T22	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 Scale = 1:37.5



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
G - 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 EXCEPT	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	TMWV-l	MT20	5.0	8.0	2.50	2.50
D	TTWV-m	MT20	5.0	8.0	1.75	3.50
E	TMWV-l	MT20	4.0	4.0		
F	TMWV-w	MT20	2.0	4.0		
G	TS-l	MT20	3.0	8.0		
H	TMWV-l	MT20	4.0	4.0		
I	TTWV-m	MT20	5.0	8.0	1.75	3.50
J	TMWV-l	MT20	5.0	8.0	2.50	2.50
K	TMV+p	MT20	3.0	4.0		
M	BMWV-l	MT20	5.0	8.0	2.50	2.25
N	BMWV-l	MT20	4.0	4.0		
O	BS-l	MT20	3.0	8.0		
P	BMWV-l	MT20	4.0	8.0		
Q	BMWV-l	MT20	4.0	8.0		
R	BMWV-l	MT20	4.0	8.0		
S	BS-l	MT20	3.0	8.0		
T	BMWV-l	MT20	4.0	4.0		
U	BMWV-l	MT20	5.0	8.0	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	0	0
U	2065	0	0	5-8
M	2065	0	0	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
U	1458	970 / 0 0 / 0 0 / 0 0 / 0 488 / 0 0 / 0
M	1458	970 / 0 0 / 0 0 / 0 0 / 0 488 / 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 = 3.53 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	C-T	0 / 135	0.03 (4)	
B-C	0 / 18	-91.8 -91.8 0.18 (1)	10.00	T-D	0 / 90	0.03 (4)	
C-D	-2305 / 0	-91.8 -91.8 0.23 (1)	4.31	D-H	0 / 1218	0.27 (1)	
D-E	-2723 / 0	-91.8 -91.8 0.54 (1)	3.69	R-E	-814 / 0	0.48 (1)	
E-F	-2968 / 0	-91.8 -91.8 0.58 (1)	3.53	E-Q	0 / 363	0.08 (1)	
F-G	-2968 / 0	-91.8 -91.8 0.58 (1)	3.53	Q-F	-440 / 0	0.28 (1)	
G-H	-2968 / 0	-91.8 -91.8 0.58 (1)	3.53	Q-H	0 / 363	0.08 (1)	
H-I	-2723 / 0	-91.8 -91.8 0.54 (1)	3.69	P-H	-814 / 0	0.48 (1)	
I-J	-2305 / 0	-91.8 -91.8 0.23 (1)	4.31	P-I	0 / 1218	0.27 (1)	
J-K	0 / 18	-91.8 -91.8 0.18 (1)	10.00	N-I	0 / 90	0.03 (4)	
K-L	0 / 35	-91.8 -91.8 0.12 (1)	10.00	N-J	0 / 138	0.03 (4)	
U-B	-255 / 0	0.0 0.0 0.03 (1)	7.81	U-C	-2515 / 0	0.97 (1)	
M-K	-255 / 0	0.0 0.0 0.03 (1)	7.81	J-M	-2514 / 0	0.97 (1)	
U-T	0 / 1802	-18.5 -18.5 0.40 (1)	10.00				
T-S	0 / 1901	-18.5 -18.5 0.41 (1)	10.00				
S-R	0 / 1901	-18.5 -18.5 0.41 (1)	10.00				
R-Q	0 / 2724	-18.5 -18.5 0.49 (1)	10.00				
Q-P	0 / 2723	-18.5 -18.5 0.49 (1)	10.00				
P-O	0 / 1900	-18.5 -18.5 0.41 (1)	10.00				
O-N	0 / 1900	-18.5 -18.5 0.41 (1)	10.00				
N-M	0 / 1801	-18.5 -18.5 0.40 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 26.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 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 (1.17')

CALCULATED VERT. DEFL.(LL) = U/999 (0.16')

ALLOWABLE DEFL.(TL) = L/360 (1.17')

CALCULATED VERT. DEFL.(TL) = U/999 (0.29')

CSI: TC=0.58/1.00 (E-F:1), BC=0.49/1.00 (Q-R:1), WB=0.97/1.00 (C-U:1), SS=0.23/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

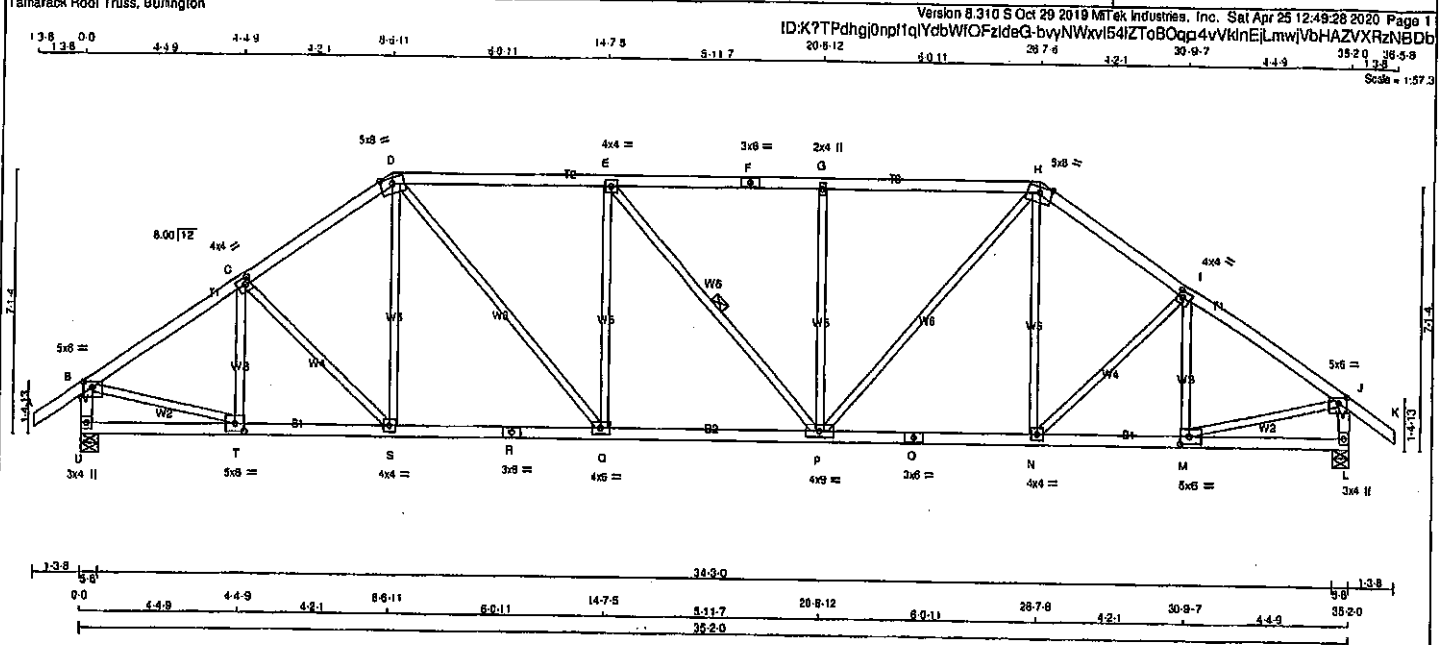
JSI GRIP = 0.90 (M) (INPUT = 0.90)

JSI METAL = 0.83 (C) (INPUT = 1.00)



Structural component only
 DWG# T-2007148

JOB NAME 408169	TRUSS NAME T23	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Sat Apr 25 12:49:28 2020 Page 1	



LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
U - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	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	5.0	6.0	1.75	2.75
C	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	8.0	Edge	
E	TMWW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	Edge	
I	TMWW-t	MT20	4.0	4.0	2.00	1.50
J	TMVW-p	MT20	5.0	8.0	1.75	2.75
L	BMV1-p	MT20	3.0	4.0		
M	BMWW-t	MT20	5.0	6.0	2.50	2.75
N	BS-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	6.0		
R	BS-t	MT20	3.0	6.0		
S	BMWW-t	MT20	4.0	4.0		
T	BMWW-t	MT20	5.0	6.0	2.50	2.75
U	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
U	VERT	DOWN	HORZ	UPLIFT	IN-SX
U	2065	0	2065	0	5-8
L	2065	0	2065	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	1458	970	0	0	0	488	0
L	1458	970	0	0	0	488	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 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-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/35	T-C	-396/0
B-C	-2270/0	C-S	-79/0
C-D	-2254/0	S-D	0/156
D-E	-2485/0	D-Q	0/949
E-F	-2483/0	Q-E	-597/0
F-G	-2483/0	E-P	-2/0
G-H	-2483/0	P-G	-596/0
H-I	-2254/0	I-H	0/947
I-J	-2268/0	N-H	0/157
J-K	0/35	N-I	-78/0
U-B	-2027/0	M-I	-397/0
L-J	-2028/0	B-T	0/1965
U-T	0/0	M-J	0/1965
T-S	0/1909		
S-R	0/1854		
R-Q	0/1854		
Q-P	0/2485		
P-O	0/1854		
O-N	0/1854		
N-M	0/1908		
M-L	0/0		

TOTAL WEIGHT = 2 X 156 = 309 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

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

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

(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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TO=0.84/1.00 (D-E:1), BC=0.47/1.00 (P-Q:1), WB=0.52/1.00 (E-Q:1), SSI=0.26/1.00 (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.

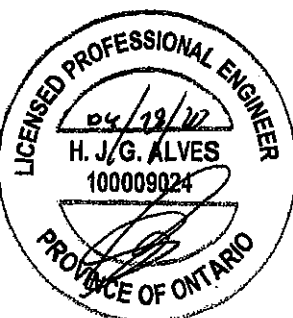
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 789

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.90 (D) (INPUT = 0.90)
JSI METAL=0.62 (D) (INPUT = 1.00)

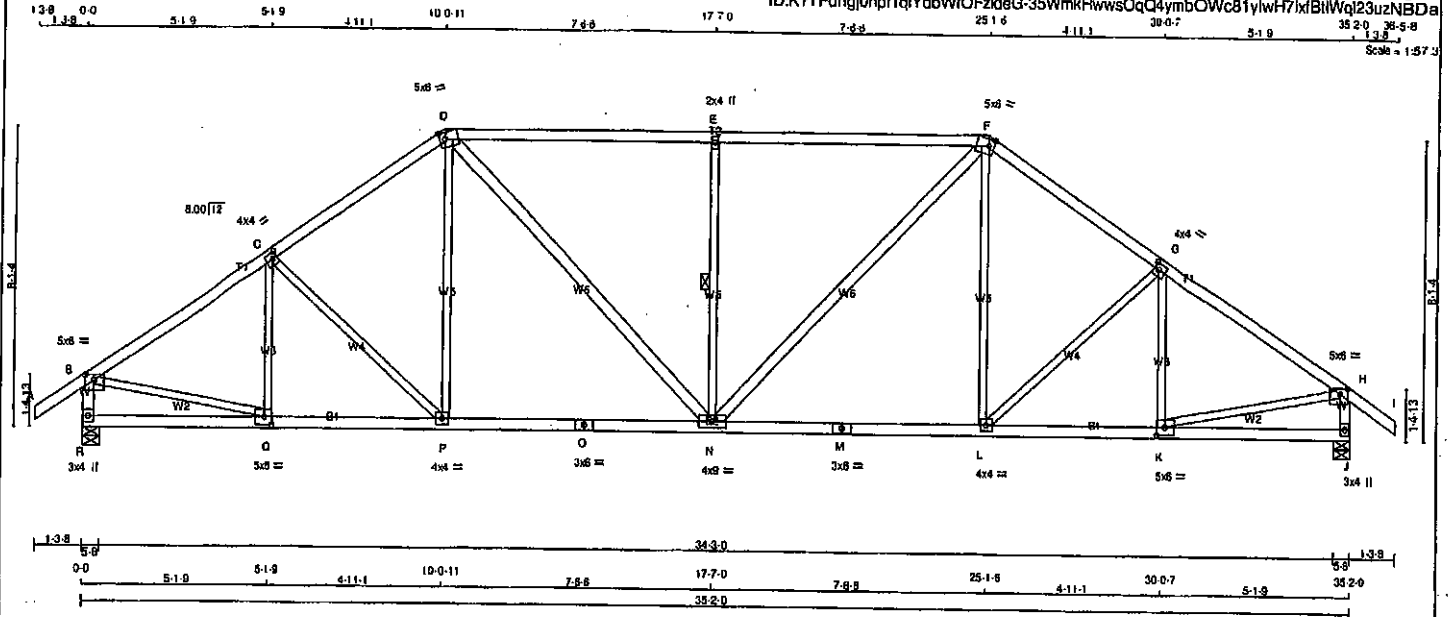


Structural component only
DWG# T-2007149

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408169	T24	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:K7TPdhgJ0npl1qYdbWOFZdeG-35WmkHwssOqQ4ymbOWc81ylwH7ixfBHWQ123uzNBDA



LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS			
A - O	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 EXCEPT	2x3	DRY	No.2
D - N	2x4	DRY	No.2
N - F	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	8.0	1.75 2.75
C	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	8.0	2.25 1.75
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	2.25 1.75
G	TMVW-t	MT20	4.0	4.0	2.00 1.50
H	TMVW-p	MT20	5.0	8.0	1.75 2.75
J	BMV1-p	MT20	3.0	4.0	
K	BMVW-t	MT20	5.0	8.0	2.50 2.75
L	BMVW-t	MT20	4.0	4.0	
M	BS-1	MT20	3.0	6.0	
N	BMVWW-t	MT20	4.0	9.0	
O	BS-1	MT20	3.0	6.0	
P	BMVW-t	MT20	4.0	4.0	
Q	BMVW-t	MT20	5.0	8.0	2.50 2.75
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	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
R	2065	0	2065	0	0	5-8	5-8		
J	2065	0	2065	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST CASE	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
JT	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
R	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
J	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	Q-C	-321 / 0	0.11 (1)
B-C	-2318 / 0	-91.8 -91.8	0.38 (1)	4.18	C-P	-218 / 0	0.18 (1)
C-D	-2188 / 0	-91.8 -91.8	0.37 (1)	4.28	P-D	0 / 288	0.08 (1)
D-E	-2274 / 0	-91.8 -91.8	0.81 (1)	3.47	D-N	0 / 891	0.11 (1)
E-F	-2274 / 0	-91.8 -91.8	0.81 (1)	3.47	N-E	-851 / 0	0.35 (1)
F-G	-2185 / 0	-91.8 -91.8	0.37 (1)	4.28	N-F	0 / 891	0.11 (1)
G-H	-2317 / 0	-91.8 -91.8	0.38 (1)	4.18	L-F	0 / 266	0.08 (1)
H-I	0 / 35	-91.8 -91.8	0.12 (1)	10.00	L-G	-218 / 0	0.18 (1)
I-B	-2022 / 0	0.0 0.0	0.21 (1)	5.94	K-G	-321 / 0	0.11 (1)
J-H	-2022 / 0	0.0 0.0	0.21 (1)	5.94	B-Q	0 / 1996	0.45 (1)
R-Q	0 / 0	-18.5 -18.5	0.10 (4)	10.00	K-H	0 / 1995	0.45 (1)
Q-P	0 / 1963	-18.5 -18.5	0.40 (1)	10.00			
P-O	0 / 1794	-18.5 -18.5	0.41 (1)	10.00			
O-N	0 / 1794	-18.5 -18.5	0.41 (1)	10.00			
N-M	0 / 1794	-18.5 -18.5	0.41 (1)	10.00			
M-L	0 / 1794	-18.5 -18.5	0.41 (1)	10.00			
L-K	0 / 1953	-18.5 -18.5	0.40 (1)	10.00			
K-J	0 / 0	-18.5 -18.5	0.10 (4)	10.00			

TOTAL WEIGHT = 2 X 158 = 317 b

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPC 2011, TPC 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/380 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/380 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.81/1.00 (D-E:1), BC=0.41/1.00 (N-P:1), WB=0.45/1.00 (B-Q:1), SS=0.34/1.00 (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 818 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

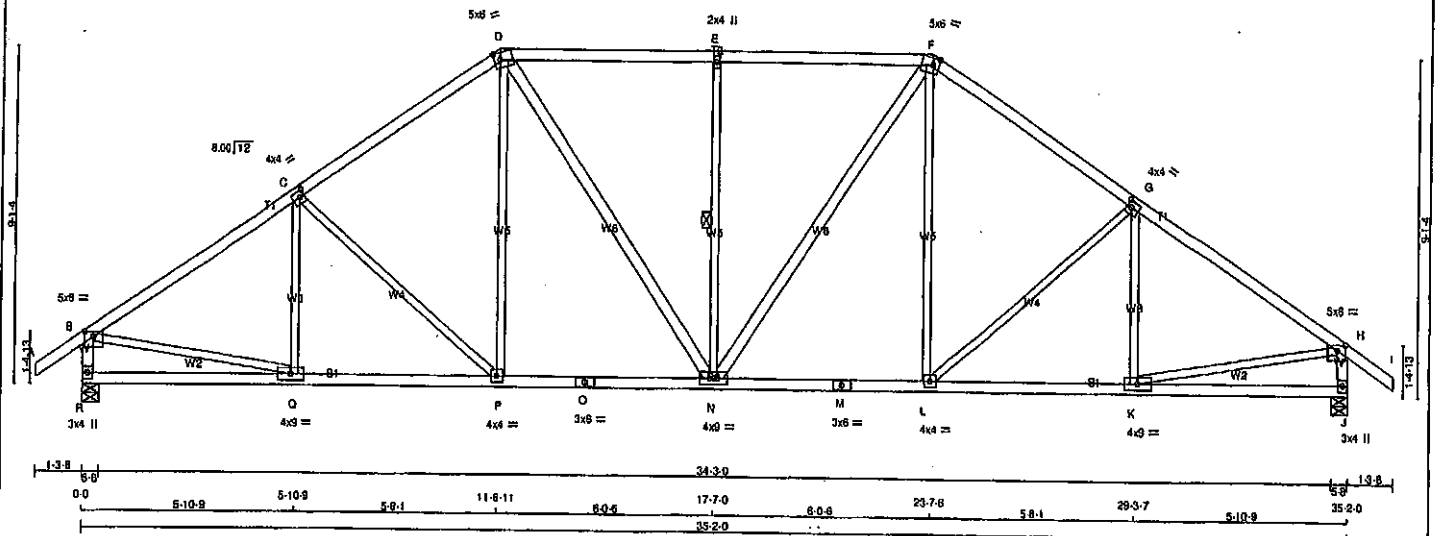
JSI GRIP = 0.87 (B) (INPUT = 0.80)
JSI METAL = 0.84 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007150

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T25	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:K7TPdhgJ0npl1qYdbWIOFzIdaG-XI48xdwYdiYH6LnyE7Na9q9dX2TOa3ukU2hbKzNBDZ
Scale = 1:57.3



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
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			
D - N	2x4	DRY	No.2
N - F	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	8.0	1.75 2.75
C TMVW-l	MT20	4.0	4.0	2.00 1.50
D TMVW-m	MT20	5.0	8.0	2.25 2.00
E TMVW-w	MT20	2.0	4.0	
F TMVW-m	MT20	5.0	8.0	2.25 2.00
G TMVW-l	MT20	4.0	4.0	2.00 1.50
H TMVW-p	MT20	5.0	8.0	1.75 2.75
J BMVW-l	MT20	4.0	4.0	
K BMVW-l	MT20	4.0	4.0	
L BMVW-l	MT20	4.0	4.0	
M BS-l	MT20	3.0	8.0	
N BMVW-l	MT20	4.0	4.0	
O BS-l	MT20	3.0	8.0	
P BMVW-l	MT20	4.0	4.0	
Q BMVW-l	MT20	4.0	4.0	
R BMVW-l	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	DOWN	BRG	BRG
R	2065	0	2065	0	5-8
J	2065	0	2065	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
R	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0		
J	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING		TOTAL LOAD CASES: (4)			
CHORDS		MEMB.		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)
A-B	0 / 35	-91.8	10.00	Q-C	-248 / 11
B-C	-2347 / 0	-91.8	10.00	C-P	-358 / 0
C-D	-2096 / 0	-91.8	10.00	P-D	0 / 342
D-E	-1985 / 0	-91.8	10.00	D-N	0 / 477
E-F	-1985 / 0	-91.8	10.00	N-E	-677 / 0
F-G	-2096 / 0	-91.8	10.00	N-F	0 / 477
G-H	-2348 / 0	-91.8	10.00	L-F	0 / 341
H-I	0 / 35	-91.8	10.00	L-G	-358 / 0
R-B	-2018 / 0	0.0	10.00	K-G	-249 / 11
J-H	-2018 / 0	0.0	10.00	B-Q	0 / 2014
R-Q	0 / 0	-18.5	10.00	K-H	0 / 2014
Q-P	0 / 1981	-18.5	10.00		
P-O	0 / 1716	-18.5	10.00		
O-N	0 / 1716	-18.5	10.00		
N-M	0 / 1716	-18.5	10.00		
M-L	0 / 1716	-18.5	10.00		
L-K	0 / 1980	-18.5	10.00		
K-J	0 / 0	-18.5	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. CC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, CBC 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 (1.17")
CALCULATED VERT. DEFL. (LL) = L/989 (0.10")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/989 (0.19")

CSI: TC=0.52/1.00 (B-C:1), BC=0.39/1.00 (P-Q:1), WB=0.45/1.00 (B-Q:1), SSI=0.27/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

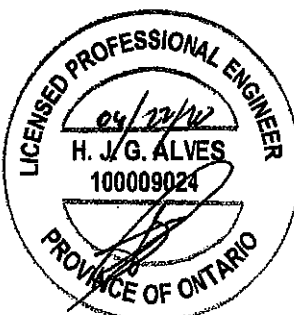
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

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)



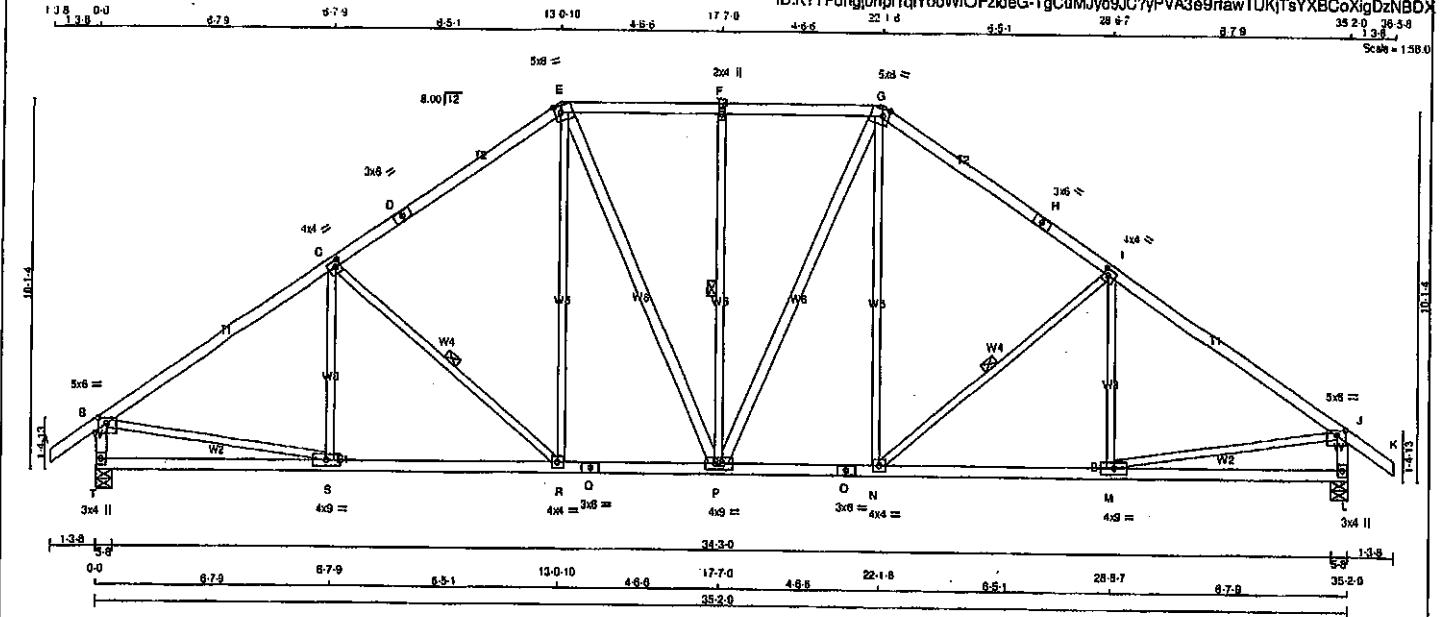
Structural component only
DWG# T-2007151

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408169	T26	5	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
T - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - Q	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
E - P	2x4	DRY	No.2
P - G	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	8.0 1.75 2.75
C	TMVW-t	MT20	4.0	4.0 2.00 1.50
D	TS-1	MT20	3.0	8.0
E	TTWV-m	MT20	5.0	8.0 2.25 2.00
F	TMVW-w	MT20	2.0	4.0
G	TTWV-m	MT20	5.0	8.0 2.25 2.00
H	TS-1	MT20	3.0	8.0
I	TMVW-t	MT20	4.0	4.0 2.00 1.50
J	TMVW-p	MT20	5.0	8.0 1.75 2.75
L	BMV1+p	MT20	3.0	4.0
M	BMVW-t	MT20	4.0	9.0
N	BMVW-t	MT20	4.0	4.0
O	BS-1	MT20	3.0	8.0
P	BMVWVW-t	MT20	4.0	9.0
Q	BS-1	MT20	3.0	8.0
R	BMVW-t	MT20	4.0	4.0
S	BMVW-t	MT20	4.0	9.0
T	BMV1+p	MT20	3.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	UP	BRG	IN-SX	BRG	IN-SX
T	2065	0	2065	0	0	5-8	5-8		
L	2065	0	2065	0	0	5-8	5-8		

UNFACTORED REACTIONS							
1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SC
T	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-R, F-P, I-N.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	S-C	-189 / 48	0.10 (1)
B-C	-2359 / 0	-91.8	-91.8 0.69 (1)	3.77	C-R	-485 / 0	0.24 (1)
C-D	-1996 / 0	-91.8	-91.8 0.62 (1)	4.11	R-E	0 / 416	0.09 (1)
D-E	-1996 / 0	-91.8	-91.8 0.62 (1)	4.11	E-P	0 / 315	0.05 (1)
E-F	-1781 / 0	-91.8	-91.8 0.27 (1)	4.77	P-F	-502 / 0	0.36 (1)
F-G	-1781 / 0	-91.8	-91.8 0.27 (1)	4.77	P-G	0 / 315	0.05 (1)
G-H	-1996 / 0	-91.8	-91.8 0.62 (1)	4.11	N-G	0 / 415	0.09 (1)
H-I	-1996 / 0	-91.8	-91.8 0.62 (1)	4.11	N-I	-484 / 0	0.24 (1)
I-J	-2359 / 0	-91.8	-91.8 0.69 (1)	3.77	M-I	-189 / 48	0.10 (1)
J-K	0 / 35	-91.8	-91.8 0.12 (1)	10.00	R-S	0 / 2022	0.45 (1)
T-B	-2014 / 0	0.0	0.0 0.21 (1)	5.95	M-J	0 / 2021	0.45 (1)
L-J	-2014 / 0	0.0	0.0 0.21 (1)	5.95			
T-S	0 / 0	-18.5	-18.5 0.19 (4)	10.00			
S-R	0 / 1996	-18.5	-18.5 0.42 (1)	10.00			
R-Q	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
Q-P	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
P-O	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
O-N	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
N-M	0 / 1995	-18.5	-18.5 0.42 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.19 (4)	10.00			

TOTAL WEIGHT = 5 X 172 = 858 lb

(M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17)
CALCULATED VERT. DEFL.(LL) = L/999 (0.09)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.18)

CSI: TC=0.69/1.00 (B-C:1), EC=0.42/1.00 (R-S:1), WB=0.45/1.00 (B-S:1), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

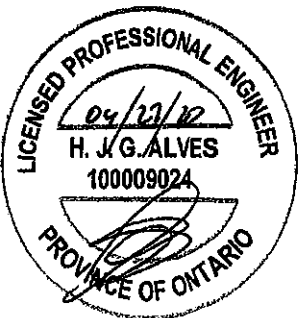
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

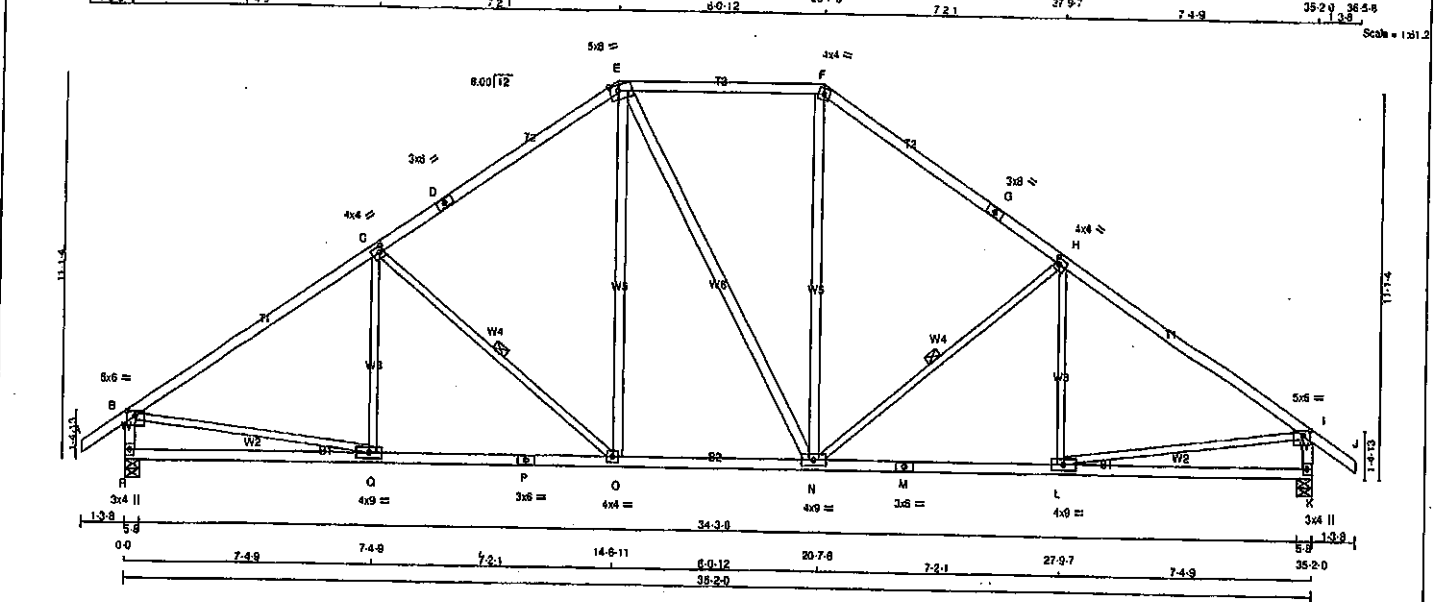
JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.50 (O) (INPUT = 1.00)



Structural component only
DWG# T-2007152

JOB NAME 408169	TRUSS NAME T27	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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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 - G	2x4	DRY No.2
G - J	2x4	DRY No.2
J - B	2x4	DRY No.2
K - I	2x4	DRY No.2
R - P	2x4	DRY No.2
P - M	2x4	DRY No.2
M - K	2x4	DRY No.2
ALL WEBS	2x3	DRY No.2
EXCEPT		
O - E	2x4	DRY No.2
E - N	2x4	DRY No.2
N - F	2x4	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	1.75	2.75
C TMVW-i	MT20	4.0	4.0	2.00	1.50
D TS-1	MT20	3.0	8.0		
E TTWW-m	MT20	5.0	8.0	2.00	3.00
F TTW-m	MT20	4.0	4.0		
G TS-1	MT20	3.0	8.0		
H TMVW-i	MT20	4.0	4.0	2.00	1.50
I TMVW-p	MT20	5.0	6.0	1.75	2.75
K BMV1-p	MT20	3.0	4.0		
L BMVW-i	MT20	4.0	9.0		
M BS-1	MT20	3.0	6.0		
N BMVWV-i	MT20	4.0	9.0		
O BMVW-i	MT20	4.0	4.0		
P BS-1	MT20	3.0	6.0		
Q BMVW-i	MT20	4.0	9.0		
R 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	DOWN	UPLIFT	IN-SX
R	2085	0	0	5-8
K	2085	0	0	5-8

UNFACTORED REACTIONS

	1ST LOASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
K	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-N.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	Q-C	-139 / 78
B-C	-2358 / 0	-91.8	-91.8	0.69 (1)	3.45	C-O	-605 / 0
C-D	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	O-E	0 / 499
D-E	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	E-N	0 / 0
E-F	-1538 / 0	-91.8	-91.8	0.47 (1)	4.74	N-F	0 / 500
F-G	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	H-H	-604 / 0
G-H	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	L-H	-140 / 75
H-I	-2357 / 0	-91.8	-91.8	0.69 (1)	3.45	B-Q	0 / 2020
I-J	0 / 35	-91.8	-91.8	0.12 (1)	10.00	L-I	0 / 2019
R-B	-2009 / 0	0.0	0.0	0.21 (1)	5.95		
K-I	-2009 / 0	0.0	0.0	0.21 (1)	5.95		
R-Q	0 / 0	-18.5	-18.5	0.25 (4)	10.00		
Q-P	0 / 1989	-18.5	-18.5	0.45 (1)	10.00		
P-O	0 / 1989	-18.5	-18.5	0.45 (1)	10.00		
O-N	0 / 1538	-18.5	-18.5	0.33 (1)	10.00		
N-M	0 / 1989	-18.5	-18.5	0.45 (1)	10.00		
M-L	0 / 1989	-18.5	-18.5	0.45 (1)	10.00		
L-K	0 / 0	-18.5	-18.5	0.24 (4)	10.00		

TOTAL WEIGHT = 2 X 188 = 333 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. G.C.

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2019, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.17")
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/999 (0.20")
CSI: TC=0.89/1.00 (B-C:1), BC=0.45/1.00 (C-Q:1), WB=0.45/1.00 (B-Q:1), SSI=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.88 (P) (INPUT = 1.00)



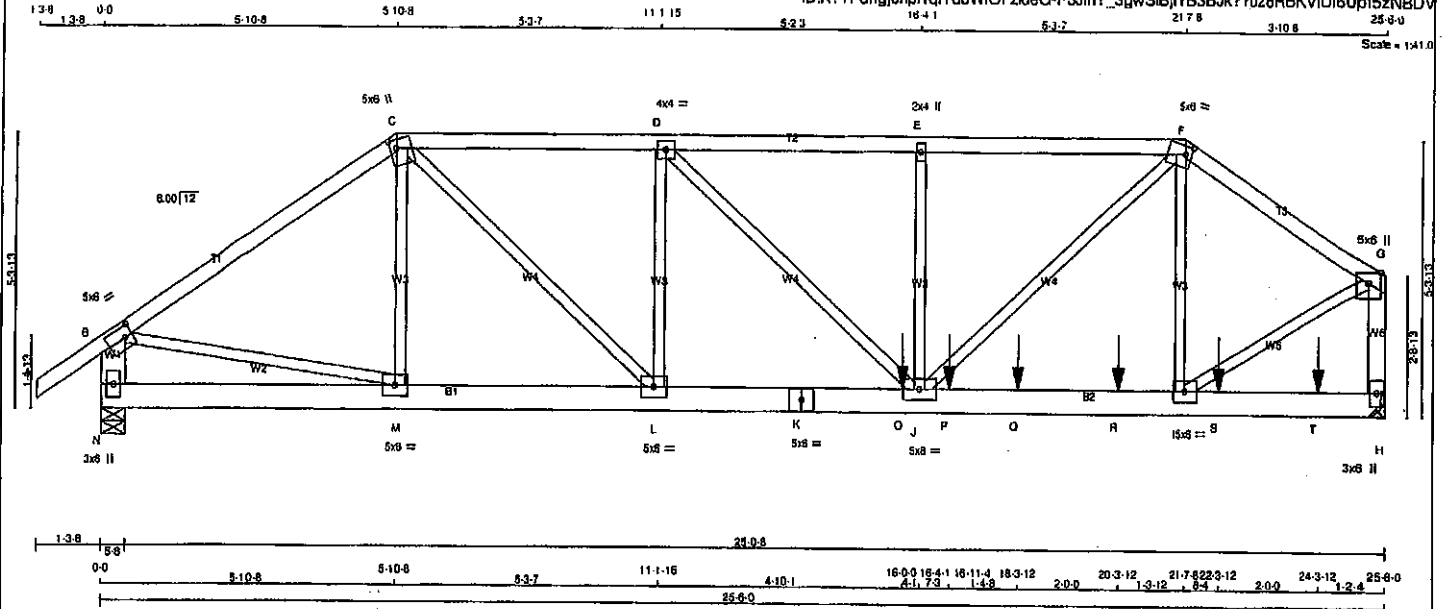
Structural component only
DWG# T-2007153

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408169	T28	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - 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	2x6	DRY	No.2	SPF
K - H	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 - F 1	12	TOP
F - G 1	12	TOP
H - G 1	12	TOP
N - B 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
N - K 2	12	TOP
K - H 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
E - J 1	8	SIDE(163.1)
2x3 1	8	SIDE(17.0)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERY	HORZ	DOWN	HORZ
N	2088	0	2088	0
H	2756	0	2756	0

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

UNFACTORED REACTIONS

1ST LOASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
N	1470 894 / 0 0 / 0 0 / 0 0 / 0 478 / 0 0 / 0
H	1941 1320 / 0 0 / 0 0 / 0 0 / 0 620 / 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 = 4.76 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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	M-C	-218 / 22	0.04 (1)	
B-C	-2363 / 0	-91.8	-91.8	0.37 (1)	8.41	C-L	0 / 1550	0.18 (1)	
C-D	-3083 / 0	-91.8	-91.8	0.24 (1)	5.03	L-D	-928 / 0	0.19 (1)	
D-E	-3519 / 0	-91.8	-91.8	0.25 (1)	4.76	D-J	0 / 589	0.07 (1)	
E-F	-3519 / 0	-91.8	-91.8	0.24 (1)	4.79	J-E	-508 / 0	0.10 (1)	
F-G	-2352 / 0	-91.8	-91.8	0.16 (1)	5.69	J-F	0 / 2156	0.27 (1)	
N-B	-2037 / 0	0.0	0.0	0.07 (1)	7.81	F-H	-548 / 0	0.11 (1)	
H-G	-2632 / 0	0.0	0.0	0.19 (1)	7.01	B-M	0 / 1991	0.25 (1)	
						L-G	0 / 2264	0.28 (1)	
N-M	0 / 0	-18.5	-18.5	0.04 (4)	10.00				
M-L	0 / 1959	-18.5	-18.5	0.14 (1)	10.00				
L-K	0 / 3093	-18.5	-18.5	0.27 (1)	10.00				
K-O	0 / 3093	-18.5	-18.5	0.27 (1)	10.00				
O-J	0 / 3093	-18.5	-18.5	0.27 (1)	10.00				
J-P	0 / 1942	-18.5	-18.5	0.23 (1)	10.00				
P-Q	0 / 1942	-18.5	-18.5	0.23 (1)	10.00				
Q-R	0 / 1942	-18.5	-18.5	0.23 (1)	10.00				
R-I	0 / 1942	-18.5	-18.5	0.23 (1)	10.00				
I-S	0 / 0	-18.5	-18.5	0.10 (1)	10.00				
S-T	0 / 0	-18.5	-18.5	0.10 (1)	10.00				
T-H	0 / 0	-18.5	-18.5	0.10 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
O	16-0-0	-997	-997	---	FRONT	VERT	TOTAL	---	C1
P	16-11-4	-187	-187	---	FRONT	VERT	TOTAL	---	C1
Q	18-3-12	-187	-187	---	FRONT	VERT	TOTAL	---	C1
R	20-3-12	-187	-187	---	FRONT	VERT	TOTAL	---	C1
S	22-3-12	-174	-174	---	FRONT	VERT	TOTAL	---	C1
T	24-3-12	-173	-173	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 122 = 245 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 8.00/12

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 D88-09, CSA D88-14
- 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 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.85")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.37/1.00 (B-C:1), BC=0.27/1.00 (J-L:1), WB=0.28/1.00 (G-I:1), SS=0.34/1.00 (J-L:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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)
MAX MIN MAX MIN MAX MIN
M720 618 354 1667 768 1967 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.45 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007154 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T28	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	5.0	6.0	2.50 1.75
C	TTWW+m	MT20	5.0	6.0	2.00 1.50
D	TMWW-t	MT20	4.0	4.0	
E	TMW+ww	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	6.0	2.00 1.50
G	TMVW+p	MT20	5.0	6.0	Edge
H	BMV1+p	MT20	3.0	6.0	
I, L, M					
I	BMWW-t	MT20	5.0	6.0	
J	BMWWW-t	MT20	5.0	6.0	
K	BS-t	MT20	5.0	6.0	
N	BMV1+p	MT20	3.0	6.0	

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

LICENSED PROFESSIONAL ENGINEER

04/27/12

H. J. G. ALVES

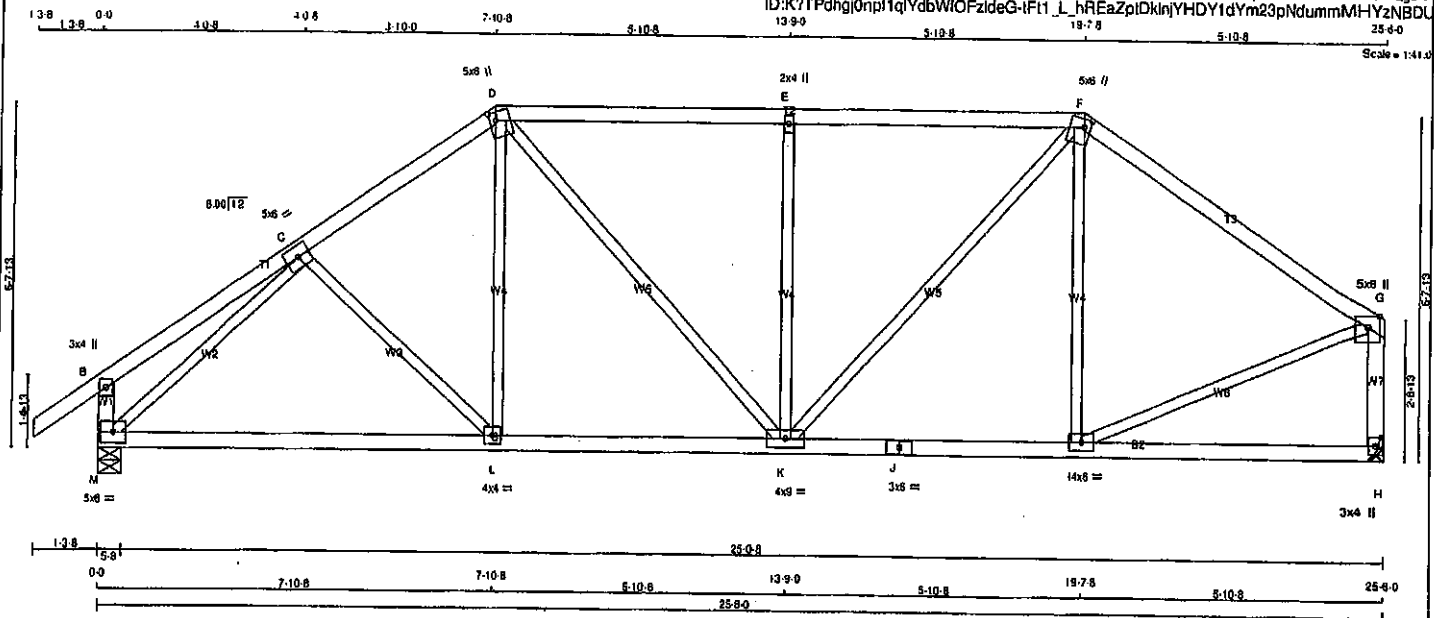
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PROVINCE OF ONTARIO

Structural component only
DWG# T-2007154 *q/v*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T29	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVvp	MT20	3.0	4.0		
C	TMWw-1	MT20	5.0	6.0		
D	TTWw+m	MT20	5.0	6.0	2.00	1.50
E	TMWw	MT20	2.0	4.0		
F	TTWw+m	MT20	5.0	6.0	2.00	1.50
G	TMVv+p	MT20	5.0	6.0	Edge	
H	BMVv-1	MT20	3.0	4.0		
I	BS-1	MT20	3.0	6.0		
K	BMWwW-1	MT20	4.0	9.0		
L	BMWw-1	MT20	4.0	4.0		
M	BMVv-1	MT20	5.0	6.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
M	1532	0	1532	0
H	1408	0	1408	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
M	1081	723 / 0	0 / 0	0 / 0	0 / 0	358 / 0	0 / 0
H	994	652 / 0	0 / 0	0 / 0	0 / 0	342 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX. FACTORED	MEMB.	MAX. FACTORED	MAX. FACTORED
	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	FORCE (LBS)		FORCE (LBS)	CS1 (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	C-L	-80 / 27	0.04 (1)
B-C	0 / 22	-91.8	-91.8 0.22 (1)	10.00	L-D	0 / 209	0.05 (4)
C-D	-1491 / 0	-91.8	-91.8 0.19 (1)	5.19	D-K	0 / 354	0.08 (1)
D-E	-1484 / 0	-91.8	-91.8 0.44 (1)	4.89	K-E	-692 / 0	0.48 (1)
E-F	-1484 / 0	-91.8	-91.8 0.44 (1)	4.89	K-F	0 / 693	0.15 (1)
F-G	-1226 / 0	-91.8	-91.8 0.44 (1)	5.25	I-F	-282 / 0	0.21 (1)
M-B	-286 / 0	0.0	0.0 0.03 (1)	7.91	M-G	-1757 / 0	0.83 (1)
H-G	-1362 / 0	0.0	0.0 0.20 (1)	6.96	I-G	0 / 1098	0.25 (1)
M-L	0 / 1279	-18.5	-18.5 0.36 (4)	10.00			
L-K	0 / 1223	-18.5	-18.5 0.36 (4)	10.00			
K-J	0 / 1014	-18.5	-18.5 0.28 (1)	10.00			
J-I	0 / 1014	-18.5	-18.5 0.28 (1)	10.00			
I-H	0 / 0	-18.5	-18.5 0.17 (4)	10.00			

TOTAL WEIGHT = 109 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 6.00/12

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

(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 (0.85")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.85")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CS1: TC=0.44/1.00 (F-G:1), BC=0.36/1.00 (K-L:4),
WB=0.83/1.00 (C-M:1), SS=0.26/1.00 (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 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (O) (INPUT = 0.90)
JSI METAL = 0.51 (G) (INPUT = 1.00)

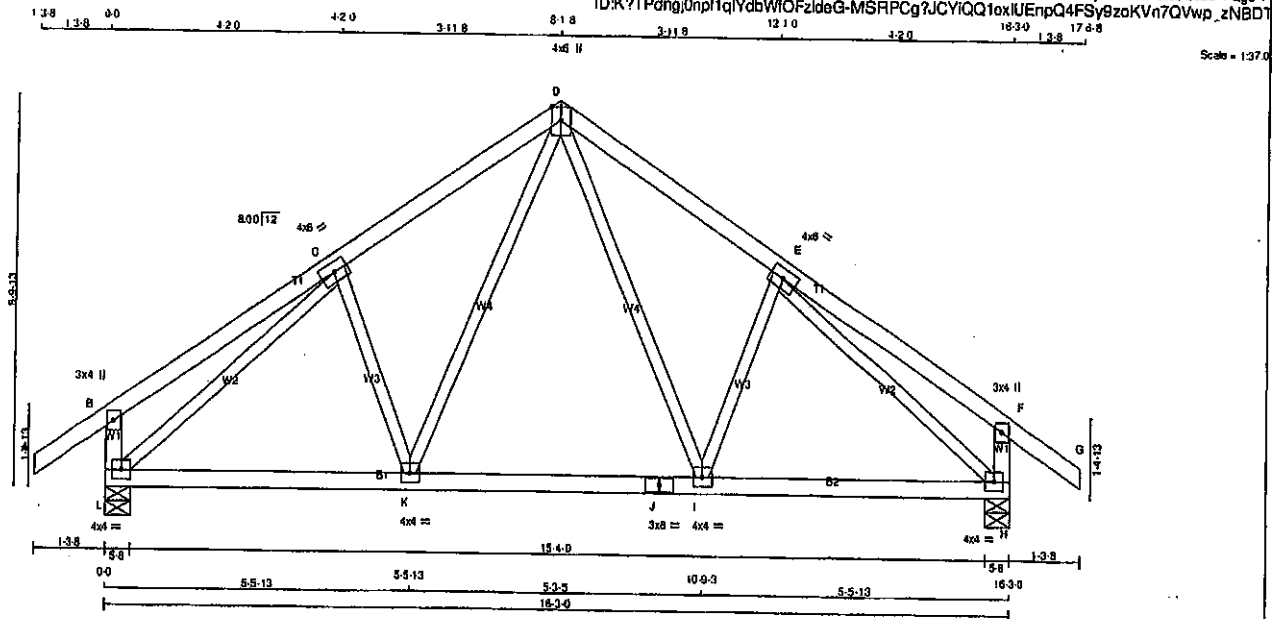


Structural component only
DWG# T-2007155

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408169	T30	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 72 = 145 lb

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		
G - F	2x4	DRY	No.2	SPF		
F - H	2x4	DRY	No.2	SPF		
H - I	2x4	DRY	No.2	SPF		
I - J	2x4	DRY	No.2	SPF		
J - K	2x4	DRY	No.2	SPF		
K - L	2x4	DRY	No.2	SPF		
L - M	2x4	DRY	No.2	SPF		
M - N	2x4	DRY	No.2	SPF		
N - O	2x4	DRY	No.2	SPF		
O - P	2x4	DRY	No.2	SPF		
P - Q	2x4	DRY	No.2	SPF		
Q - R	2x4	DRY	No.2	SPF		
R - S	2x4	DRY	No.2	SPF		
S - T	2x4	DRY	No.2	SPF		
T - U	2x4	DRY	No.2	SPF		
U - V	2x4	DRY	No.2	SPF		
V - W	2x4	DRY	No.2	SPF		
W - X	2x4	DRY	No.2	SPF		
X - Y	2x4	DRY	No.2	SPF		
Y - Z	2x4	DRY	No.2	SPF		
Z - A	2x4	DRY	No.2	SPF		

ALL WEBS 2x3 DRY No.2 EXCEPT

PLATES (tablets in inches)	PLATES	W	LEN	Y	X
JT TYPE	MT20	3.0	4.0		
B	TMV-p	MT20	4.0	8.0	
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	4.0	
I	BMWW-1	MT20	4.0	4.0	
J	BS-1	MT20	3.0	8.0	
K	BMWW-1	MT20	4.0	4.0	
L	BMVW1-1	MT20	4.0	4.0	

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
L	1022	0	5-8	5-8
H	1022	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE
L	720	486 / 0	0 / 0	0 / 0
H	720	486 / 0	0 / 0	234 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	D-I	0 / 336	0.08 (1)	
B-C	0 / 24	-91.8	-91.8	0.24 (1)	10.00	I-E	-217 / 0	0.08 (1)	
C-D	-845 / 0	-91.8	-91.8	0.19 (1)	6.25	K-D	0 / 336	0.08 (1)	
D-E	-845 / 0	-91.8	-91.8	0.19 (1)	6.25	C-K	-217 / 0	0.08 (1)	
E-F	0 / 24	-91.8	-91.8	0.24 (1)	10.00	L-C	-1042 / 0	0.52 (1)	
F-G	0 / 35	-91.8	-91.8	0.12 (1)	10.00	E-H	-1042 / 0	0.52 (1)	
L-B	-268 / 0	0.0	0.0	0.03 (1)	7.81				
H-F	-268 / 0	0.0	0.0	0.03 (1)	7.81				
L-K	0 / 782	-18.5	-18.5	0.19 (1)	10.00				
K-J	0 / 557	-18.5	-18.5	0.17 (4)	10.00				
J-I	0 / 557	-18.5	-18.5	0.17 (4)	10.00				
I-H	0 / 782	-18.5	-18.5	0.19 (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

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 (2018 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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

OS: TC=0.24/1.00 (B-C:1), BC=0.19/1.00 (H-I:1), WB=0.52/1.00 (C-L:1), SS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.29 (L) (INPUT = 1.00)

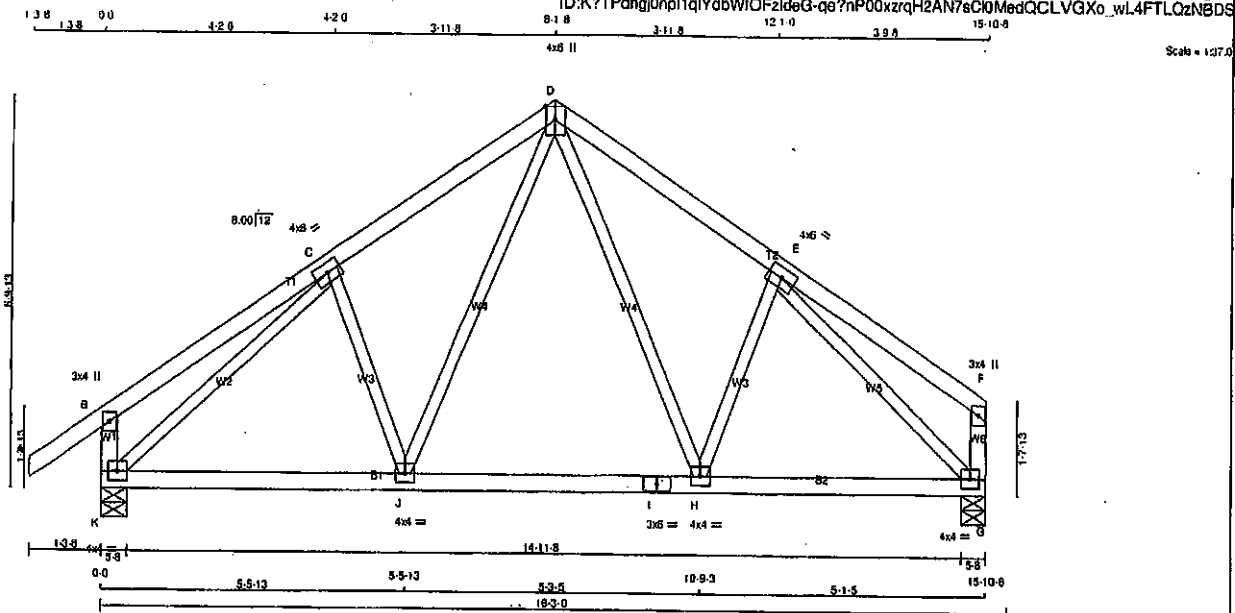


Structural component only
DWG# T-2007156

JOB NAME 408169	TRUSS NAME T30A	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	LUMBER		DESCR	
A - D	2x4	DRY	No.2	SPF		
D - F	2x4	DRY	No.2	SPF		
K - B	2x4	DRY	No.2	SPF		
G - F	2x4	DRY	No.2	SPF		
K - I	2x4	DRY	No.2	SPF		
I - G	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	TMV+P	MT20	3.0	4.0		
C	TMVW-I	MT20	4.0	8.0		
D	TTWW+P	MT20	4.0	8.0	Edge	
E	TMVW-I	MT20	4.0	8.0		
F	TMV+P	MT20	3.0	4.0		
G	BMVW-I	MT20	4.0	4.0		
H	BMVW-I	MT20	4.0	4.0		
I	BS-I	MT20	3.0	8.0		
J	BMVW-I	MT20	4.0	4.0		
K	BMVW-I	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
	GROSS REACTION	GROSS REACTION	8RQ	8RQ
JT	VERT	DOWN	0	0
K	1001	0	0	0
G	875	0	0	0

UNFACTORED REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
K	708	478 / 0 0 / 0 0 / 0 0 / 0 229 / 0 0 / 0
G	619	408 / 0 0 / 0 0 / 0 0 / 0 213 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, 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	WEEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)
FR-TO				
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	D-H 0 / 272 0.08 (1)
B-C	0 / 24	-91.8 -91.8 0.24 (1)	10.00	H-E -180 / 2 0.05 (1)
C-D	-817 / 0	-91.8 -91.8 0.19 (1)	6.25	J-D 0 / 342 0.08 (1)
D-E	-783 / 0	-91.8 -91.8 0.18 (1)	6.25	C-J -222 / 0 0.06 (1)
E-F	0 / 24	-91.8 -91.8 0.22 (1)	10.00	K-C -1012 / 0 0.51 (1)
F-G	-268 / 0	0.0 0.0 0.03 (1)	7.81	E-G -992 / 0 0.44 (1)
G-F	-124 / 0	0.0 0.0 0.01 (1)	7.81	
K-J	0 / 740	-18.5 -18.5 0.18 (1)	10.00	
J-I	0 / 531	-18.5 -18.5 0.17 (4)	10.00	
I-H	0 / 531	-18.5 -18.5 0.17 (4)	10.00	
H-G	0 / 591	-18.5 -18.5 0.17 (1)	10.00	

TOTAL WEIGHT = 2 X 70 = 140 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 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.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = U/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = U/999 (0.04")

CSI: TC=0.24/1.00 (B-C:1), BC=0.18/1.00 (J-K:1), WB=0.51/1.00 (C-K:1), GS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL= 0.28 (K) (INPUT = 1.00)

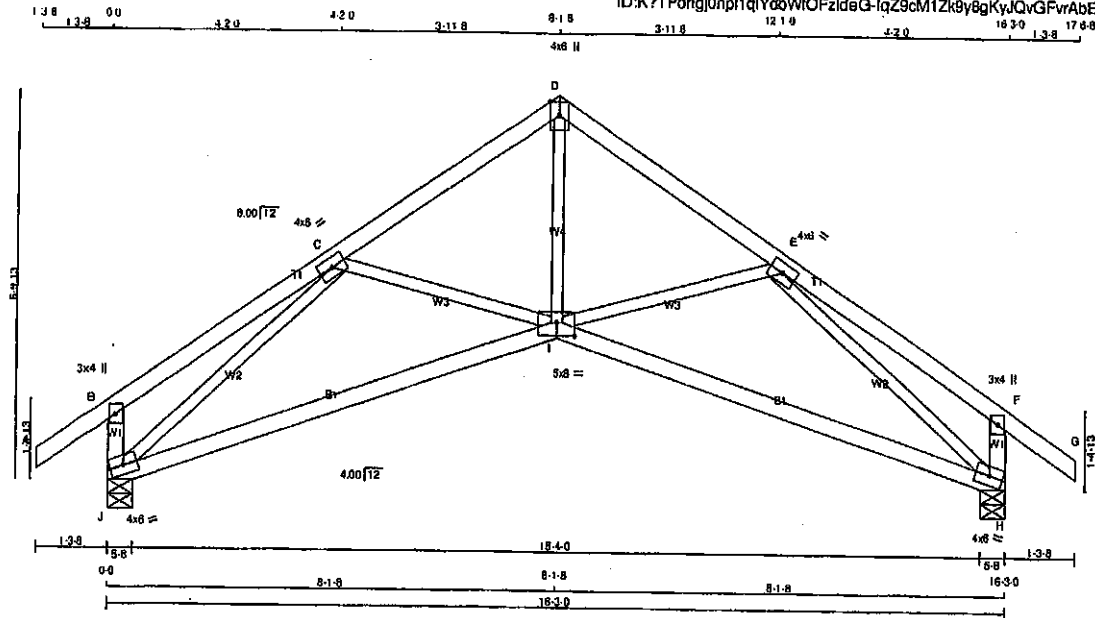


Structural component only
DWG# T-2007157

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408169	T30S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1/32"

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMVW-1	MT20	4.0	6.0		
D ITW+p	MT20	4.0	6.0	Edge	
E TMVW-1	MT20	4.0	6.0		
F TMV+p	MT20	3.0	4.0		
H BMVW-1	MT20	4.0	6.0		
I BBVW+p	MT20	5.0	8.0	2.75	4.00
J BMVW-1	MT20	4.0	6.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
J	1022	0	1022	0
H	1022	0	1022	0

UNFACTORED REACTIONS

1ST CASE	MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
J	720	488 / 0	0 / 0	0 / 0	0 / 0	234 / 0
H	720	488 / 0	0 / 0	0 / 0	0 / 0	234 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD LC1 MAX (LC)	
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 35	-91.8	-91.8 0.12 (1)	I-D	0 / 942	0.21 (1)	
B-C	0 / 22	-91.8	-91.8 0.22 (1)	I-E	-143 / 11	0.05 (1)	
C-D	-1134 / 0	-91.8	-91.8 0.19 (1)	C-I	-143 / 11	0.05 (1)	
D-E	-1134 / 0	-91.8	-91.8 0.19 (1)	J-C	-1478 / 0	0.78 (1)	
E-F	0 / 22	-91.8	-91.8 0.22 (1)	E-H	-1478 / 0	0.78 (1)	
F-G	0 / 35	-91.8	-91.8 0.12 (1)				
J-B	-273 / 0	0.0	0.0 0.03 (1)				
H-F	-273 / 0	0.0	0.0 0.03 (1)				
J-I	0 / 1120	-18.5	-18.5 0.44 (4)				
I-H	0 / 1120	-18.5	-18.5 0.44 (4)				

TOTAL WEIGHT = 2 X 67 = 133 lb [M][F]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 5.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF 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 DEF. (LL) = L/360 (0.54")
CALCULATED VERT. DEF. (LL) = L/999 (0.05")
ALLOWABLE DEF. (TL) = L/360 (0.54")
CALCULATED VERT. DEF. (TL) = L/769 (0.25")

CSI: TC=0.22/1.00 (E-F:1), BC=0.44/1.00 (H-I:4), WB=0.78/1.00 (C-J:1), SS=0.15/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LBS 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 1659

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.35 (H) (INPUT = 1.00)

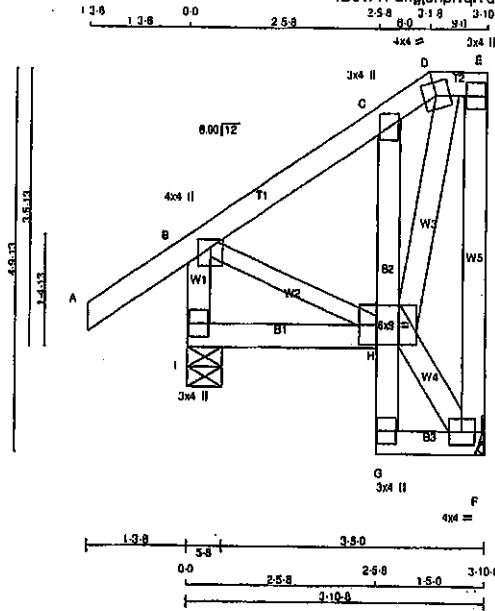


Structural component only
DWG# T-2007158

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408169	T31S	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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Scale = 1/20.0

TOTAL WEIGHT = 29 lb

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

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	4.0 1.25 2.00
C	TMV+p	MT20	3.0	4.0
D	TTW-m	MT20	4.0	4.0
E	TMV+p	MT20	3.0	4.0
F	BMVW1-i	MT20	4.0	4.0
G	BMV+p	MT20	3.0	4.0
H	BVMWW-i	MT20	6.0	9.0 3.00 2.75
I	BMV1+p	MT20	3.0	4.0

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

BEARINGS							
JT	FACTORED		MAXIMUM FACTORED		INPUT		REQD.
	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	BRG	BRG	
F	193	0	193	0	0	5-8	5-8
I	361	0	361	0	0	5-8	5-8

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

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	136	88 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
I	252	181 / 0	0 / 0	0 / 0	0 / 0	72 / 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 = 8.25 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)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT.)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT.)	MEMB.
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.14 (5)	10.00	H-F	-27 / 0	0.00 (1)	
B-C	-87 / 0	-91.8 -91.8 0.09 (1)	6.25	B-H	0 / 68	0.02 (1)	
C-D	-99 / 0	-91.8 -91.8 0.07 (1)	6.25	H-D	0 / 173	0.03 (1)	
D-E	-11 / 0	-91.8 -91.8 0.07 (1)	6.25				
F-E	-148 / 0	0.0 0.0 0.04 (1)	7.81				
I-B	-327 / 0	0.0 0.0 0.02 (4)	7.81				
I-H	0 / 8	-18.5 -18.5 0.03 (4)	10.00				
G-H	-2 / 8	0.0 0.0 0.05 (1)	10.00				
H-C	-203 / 0	0.0 0.0 0.04 (1)	7.81				
G-F	0 / 30	-18.5 -18.5 0.03 (1)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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 6.00/12

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

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 (0.01")

CSI: TC=0.14/1.00 (A-B-5), BC=0.05/1.00 (G-H-1), WB=0.03/1.00 (D-H-1), SS=0.12/1.00 (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 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 1858

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



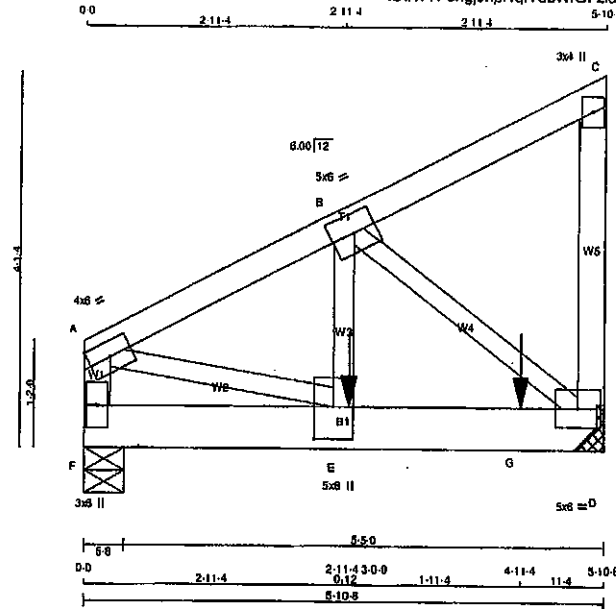
Structural component only
DWG# T-2007159

Structural component only
DWG# T-2007160

JOB NAME 408169	TRUSS NAME T33	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR.
F - A	2x4	DRY	No.2	SPF	
A - C	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
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			
F-A	1	12	TOP
A-C	1	12	TOP
C-D	1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS			
F-D	2	9	SIDE(305.2)
WEBS : (0.122"x3") SPIRAL NAILS			
B-E	1	2	SIDE(408.9)
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 UOL 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	4.0	6.0		Edge
B	TMVW-1	MT20	5.0	6.0		
C	TMVW-1	MT20	3.0	4.0		
D	BMVW-1	MT20	5.0	6.0		
E	BMVW-1	MT20	5.0	6.0	4.25	2.50

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPUFT	BRG	BRG	IN-SX	IN-SX
D	1914	0	1914	0	0	5-8	5-8		
F	2859	0	2859	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
F	1348	915/0	0/0	0/0	0/0	0/0	434/0	0/0
D	2015	1359/0	0/0	0/0	0/0	0/0	657/0	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 = 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED HORIZ. LOAD (LBS)
FR-TO						FR-TO			
F-A	-1877/0	0.0	0.0	0.10 (1)	7.81	A-E	0/2380	0.29 (1)	
A-B	-2588/0	-91.8	-91.8	0.08 (1)	5.59	E-B	0/2808	0.32 (1)	
B-C	-7/0	-91.8	-91.8	0.08 (1)	10.00	B-D	-2896/0	0.35 (1)	
D-C	-120/0	0.0	0.0	0.01 (1)	7.81				
F-E	0/0	-18.5	-18.5	0.01 (1)	10.00				
E-G	0/2301	-18.5	-18.5	0.49 (1)	10.00				
G-D	0/2301	-18.5	-18.5	0.49 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-0	-2737	-2737		BACK	VERT	TOTAL		C1
G	4-11-4	-1388	-1388		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 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 088-09, CSA 088-14
- TPC 2011, TPC 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 (0.20")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.10/1.00 (A-F:1), BC=0.49/1.00 (D-E:1), WB=0.35/1.00 (B-D:1), SS=0.33/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(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 = 0.84 (B) (INPUT = 0.90)
JSI METAL = 0.44 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007161 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T33	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
F BMV1+p MT20 3.0 6.0
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

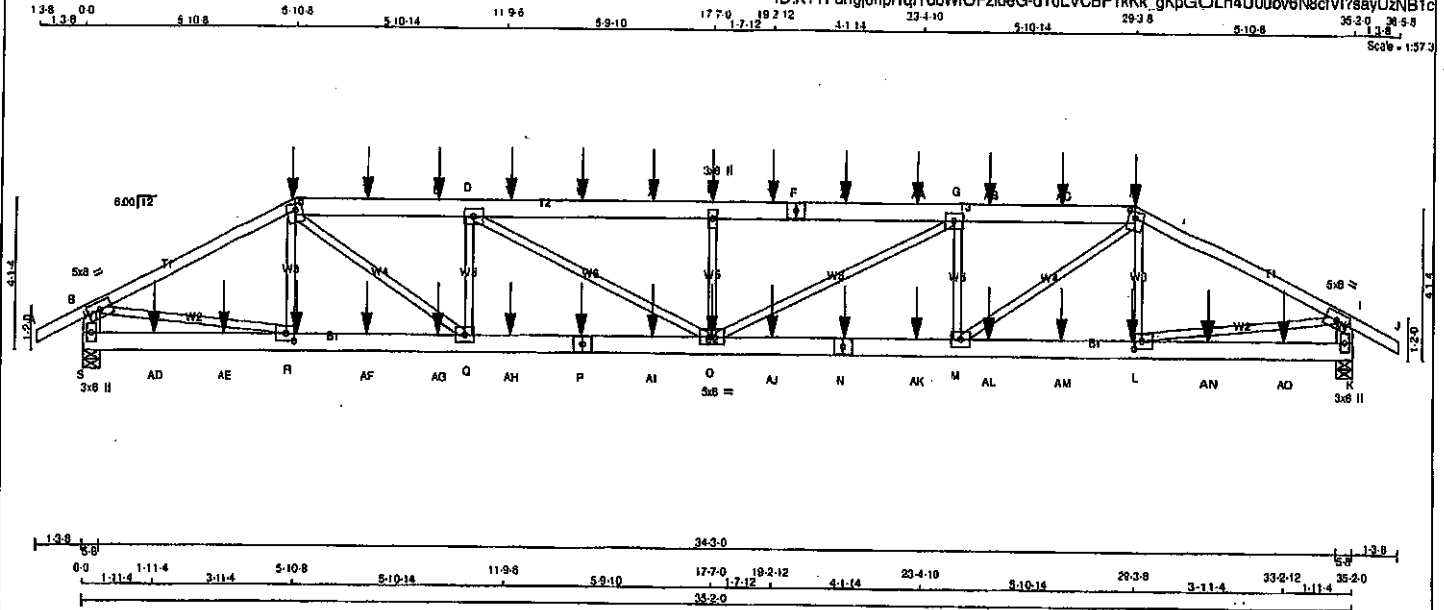


Structural component only
DWG# T-2007161 42

JOB NAME 408170	TRUSS NAME T40	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 169 = 338 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x6	DRY	No.2
F - H	2x6	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x6	DRY	No.2
K - I	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
N - K	2x6	DRY	No.2

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 - G 1	12	SIDE (81.0)
H - J 1	12	SIDE (81.0)
C - F 2	12	SIDE (81.0)
F - H 2	12	SIDE (81.0)
S - B 2	12	TOP
K - I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P 2	12	SIDE (183.1)
P - N 2	12	SIDE (183.1)
N - K 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.

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

BEARINGS								
FACTORED			MAXIMUM FACTORED			INPUT	REQD	
	GROSS REACTION		GROSS REACTION			BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
S	3331	0	3331	0	0	5-8	5-8	
K	3331	0	3331	0	0	5-8	5-8	

UNFACTORED REACTIONS		1ST LCASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
S	2356	1544 / 0	0 / 0	0 / 0	0 / 0
K	2356	1544 / 0	0 / 0	0 / 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 = 3.87 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (PLF)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LBS)
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.07 (1)	10.00	R-C	-449 / 0	0.06 (1)
B-C	-5069 / 0	-91.8	-91.8 0.52 (1)	3.87	C-Q	0 / 3021	0.37 (1)
C-T	-6976 / 0	-91.8	-91.8 0.24 (1)	4.35	Q-D	-1608 / 0	0.19 (1)
T-U	-6976 / 0	-91.8	-91.8 0.24 (1)	4.35	D-O	0 / 1339	0.17 (1)
U-D	-6976 / 0	-91.8	-91.8 0.24 (1)	4.35	O-E	-1056 / 0	0.13 (1)
D-V	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02	E-Q	0 / 1339	0.17 (1)
V-W	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02	M-G	-1808 / 0	0.19 (1)
W-X	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02	M-H	0 / 3021	0.37 (1)
X-E	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02	L-H	-449 / 0	0.08 (1)
E-Y	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02	B-R	0 / 4585	0.57 (1)
Y-F	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02	L-I	0 / 4585	0.57 (1)
F-Z	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02			
Z-AA	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02			
AA-G	-8155 / 0	-91.8	-91.8 0.31 (1)	4.02			
G-AB	-6976 / 0	-91.8	-91.8 0.24 (1)	4.35			
AB-AC	-6976 / 0	-91.8	-91.8 0.24 (1)	4.35			
AC-H	-6976 / 0	-91.8	-91.8 0.24 (1)	4.35			
H-I	-5069 / 0	-91.8	-91.8 0.52 (1)	3.87			
I-J	0 / 28	-91.8	-91.8 0.07 (1)	10.00			
S-B	-3250 / 0	0.0	0.0 0.11 (1)	7.89			
K-I	-3250 / 0	0.0	0.0 0.11 (1)	7.89			

S-AD	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AD-AE	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AE-R	0 / 0	-18.5	-18.5 0.07 (4)	10.00
R-AF	0 / 4557	-18.5	-18.5 0.33 (1)	10.00
AF-AG	0 / 4557	-18.5	-18.5 0.33 (1)	10.00
AG-Q	0 / 4557	-18.5	-18.5 0.33 (1)	10.00
Q-AH	0 / 8975	-18.5	-18.5 0.62 (1)	10.00
AH-P	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
P-AI	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
AI-O	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
O-AJ	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
AJ-N	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
N-AK	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
AK-M	0 / 8975	-18.5	-18.5 0.52 (1)	10.00
M-AL	0 / 4357	-18.5	-18.5 0.33 (1)	10.00
AL-AM	0 / 4557	-18.5	-18.5 0.33 (1)	10.00
AM-L	0 / 4357	-18.5	-18.5 0.33 (1)	10.00
L-AN	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AN-AO	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AO-K	0 / 0	-18.5	-18.5 0.07 (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

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.17")
CALCULATED VERT. DEFL. (LL) = L/899 (0.21")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/899 (0.39")

CSI: TC=0.52/1.00 (B-C:1), BC=0.52/1.00 (O-Q:1), WB=0.57/1.00 (B-R: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

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 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.90 (H) (INPUT=0.90)
JSI METAL=0.67 (P) (INPUT=1.00)



Structural component only
DWG# T-2007168 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408170	T40	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:K?TPdhaQnpl1qYdbWIOFzIdeG-dToLVCBPTkKk qKpGOLn4U0ubv6N8c/V1?savUzNB1c

PLATES (table is in inches)

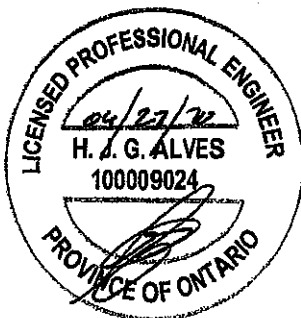
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	6.0		
C	TTWW+m	MT20	5.0	6.0	2.00	2.25
D	TMWW-1	MT20	5.0	6.0		
E	TMW+w	MT20	3.0	6.0		
F	TS-1	MT20	5.0	6.0		
G	TMWW-1	MT20	5.0	6.0		
H	TTWW+m	MT20	5.0	6.0	2.00	2.25
I	TMVW-1	MT20	5.0	6.0		
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-1	MT20	5.0	6.0	2.50	2.50
M	BMWW-1	MT20	5.0	6.0		
N	BS-1	MT20	5.0	6.0		
O	BMWWW-1	MT20	5.0	6.0		
P	BS-1	MT20	5.0	6.0		
Q	BMWW-1	MT20	5.0	6.0		
R	BMWW-1	MT20	5.0	6.0	2.50	2.50
S	BMV1+p	MT20	3.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-437	-437	---	FRONT	VERT	TOTAL	---	C1
E	17-7-0	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	29-3-8	-437	-437	---	FRONT	VERT	TOTAL	---	C1
L	29-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	21-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	17-7-0	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	19-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	21-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	23-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	25-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	27-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	3-11-4	-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	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	19-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	23-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	25-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AM	27-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AN	31-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AO	33-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

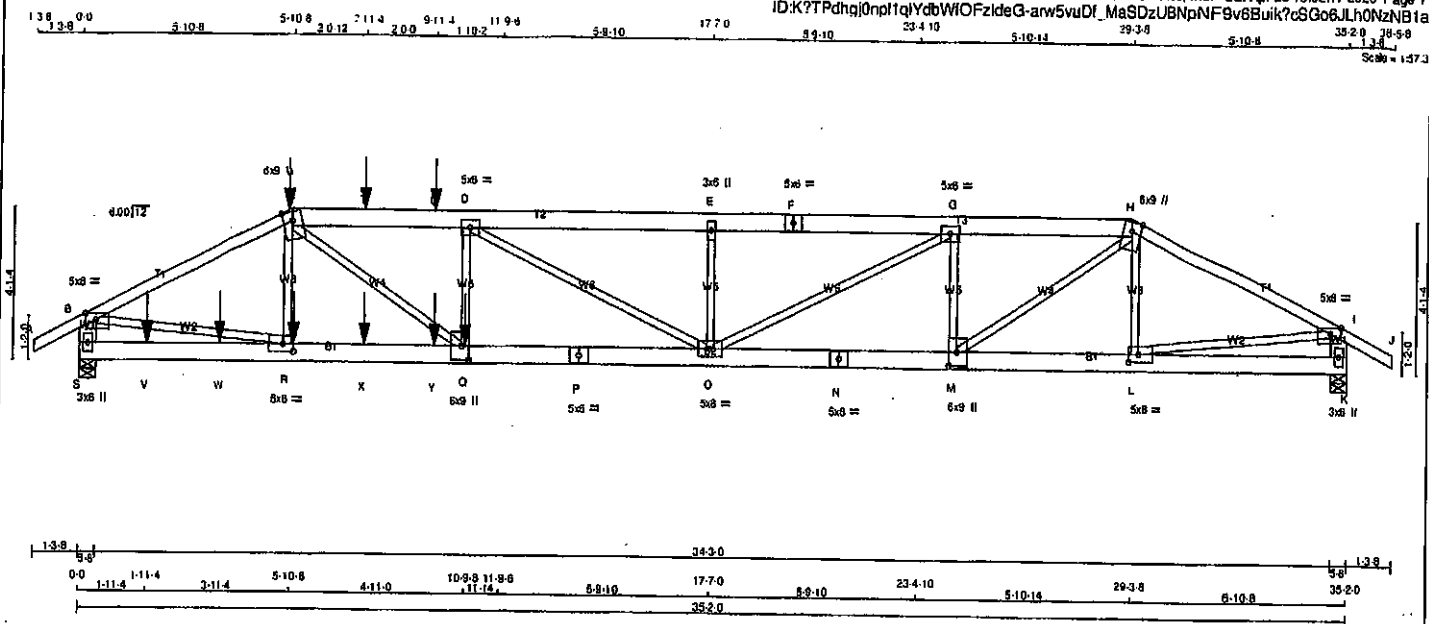
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007168

JOB NAME 408170	TRUSS NAME T40Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:K?TPdngj0npt1qYvbwOFzldG-anw5vuDf_MaSDzUBNpNF9v6Buik7cSGo6JLh0NzNB1a
 Scale = 1:37.5



LUMBER
N.L.G.A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x6	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 - P	2x6	DRY	No.2	SPF
P - N	2x6	DRY	No.2	SPF
N - 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

CHORD	ROWS	SPACING (IN)	LOAD(PLF)
A-C	1	12	SIDE(61.0)
H-J	1	12	TOP
C-F	2	12	SIDE(61.0)
F-H	2	12	TOP
S-B	2	12	TOP
K-I	2	12	TOP

BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS

CHORD	ROWS	SPACING (IN)	LOAD(PLF)
S-P	2	12	SIDE(183.1)
P-N	2	12	TOP
N-K	2	12	TOP

WEBS: (0.122"x3") SPIRAL NAILS

WEB	ROWS	SPACING (IN)	LOAD(PLF)
2x3	1	6	SIDE(626.1)
D-Q	1	3	
G-M	1	3	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	0	0
S	4582	0	5-8	5-8
K	3047	0	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
S	3235 2151 / 0 0 / 0 0 / 0 1084 / 0 0 / 0
K	2151 1438 / 0 0 / 0 0 / 0 715 / 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 = 3.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 28	-91.8	-91.8	0.07 (1)	10.00	R-C	-573 / 0	0.08 (1)	
B-C	-7283 / 0	-91.8	-91.8	0.72 (1)	3.15	C-Q	0 / 4988	0.82 (1)	
C-T	-10549 / 0	-91.8	-91.8	0.34 (1)	3.55	Q-D	-184 / 38	0.02 (1)	
T-U	-10549 / 0	-91.8	-91.8	0.34 (1)	3.55	D-O	-1207 / 0	0.72 (1)	
U-D	-10549 / 0	-91.8	-91.8	0.34 (1)	3.55	O-E	-646 / 0	0.08 (1)	
D-E	-9485 / 0	-91.8	-91.8	0.31 (1)	3.78	O-G	0 / 2871	0.36 (1)	
E-F	-9485 / 0	-91.8	-91.8	0.29 (1)	3.81	M-G	-1984 / 0	0.24 (1)	
F-G	-9485 / 0	-91.8	-91.8	0.29 (1)	3.81	M-H	0 / 3512	0.43 (1)	
G-H	-8958 / 0	-91.8	-91.8	0.17 (1)	4.44	L-H	-464 / 0	0.06 (1)	
H-I	-4608 / 0	-91.8	-91.8	0.48 (1)	4.08	B-R	0 / 8596	0.82 (1)	
I-J	0 / 28	-91.8	-91.8	0.07 (1)	10.00	L-I	0 / 4167	0.52 (1)	
S-B	-4503 / 0	0.0	0.0	0.16 (1)	6.78				
K-I	-2980 / 0	0.0	0.0	0.11 (1)	7.81				
S-V	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
V-W	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
W-R	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
R-X	0 / 6557	-18.5	-18.5	0.50 (1)	10.00				
X-Y	0 / 6557	-18.5	-18.5	0.50 (1)	10.00				
Y-Q	0 / 6557	-18.5	-18.5	0.50 (1)	10.00				
Q-P	0 / 10548	-18.5	-18.5	0.77 (1)	10.00				
P-O	0 / 10548	-18.5	-18.5	0.77 (1)	10.00				
O-N	0 / 8955	-18.5	-18.5	0.50 (1)	10.00				
N-M	0 / 8955	-18.5	-18.5	0.50 (1)	10.00				
M-L	0 / 4144	-18.5	-18.5	0.29 (1)	10.00				
L-K	0 / 0	-18.5	-18.5	0.04 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-437	-437	---	BACK	VERT	---	C1
Q	10-9-8	-2715	-2715	---	BACK	VERT	---	C1
R	5-11-4	-26	-26	---	BACK	VERT	---	C1
T	7-11-4	-110	-110	---	BACK	VERT	---	C1
U	9-11-4	-110	-110	---	BACK	VERT	---	C1
V	1-11-4	-25	-25	---	BACK	VERT	---	C1
W	3-11-4	-25	-25	---	BACK	VERT	---	C1
X	7-11-4	-25	-25	---	BACK	VERT	---	C1
Y	9-11-4	-25	-25	---	BACK	VERT	---	C1

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

TOTAL WEIGHT = 2 X 169 = 338 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 6.00/12

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17')
CALCULATED VERT. DEFL.(LL) = L/999 (0.26')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/881 (0.48')

CSI: TC=0.72/1.00 (B-C:1), BC=0.77/1.00 (C-Q:1), WB=0.82/1.00 (B-R:1), SS=0.13/1.00 (C-D: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

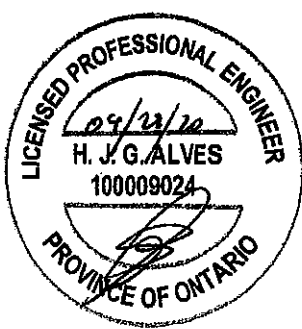
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
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= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.99 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007169

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T40Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310.8 Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 13:02:17 2020 Page 2			
		ID:K?TPdhaI0npl1qYdbWIOFzIdG-anv5vuDf MaSDzUBNpNF9v6Buik?cSGo6JLh0NzNB1a			
		TRUSS DESC.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	2.00	3.50
C	TTWW+m	MT20	6.0	9.0	Edge	
D	TMWW-t	MT20	5.0	8.0		
E	TMW+w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMWW-t	MT20	5.0	6.0		
H	TTWW+m	MT20	6.0	9.0	Edge	
I	TMVW-p	MT20	5.0	8.0	2.00	3.50
K	BMVt+p	MT20	3.0	6.0		
L	BMWW-t	MT20	5.0	8.0	2.50	3.25
M	BMWW-t	MT20	6.0	9.0	4.50	2.50
N	BS-t	MT20	5.0	8.0		
O	BMWWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	6.0	9.0	4.50	2.50
R	BMWW-t	MT20	5.0	8.0	2.50	3.25
S	BMVt+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.

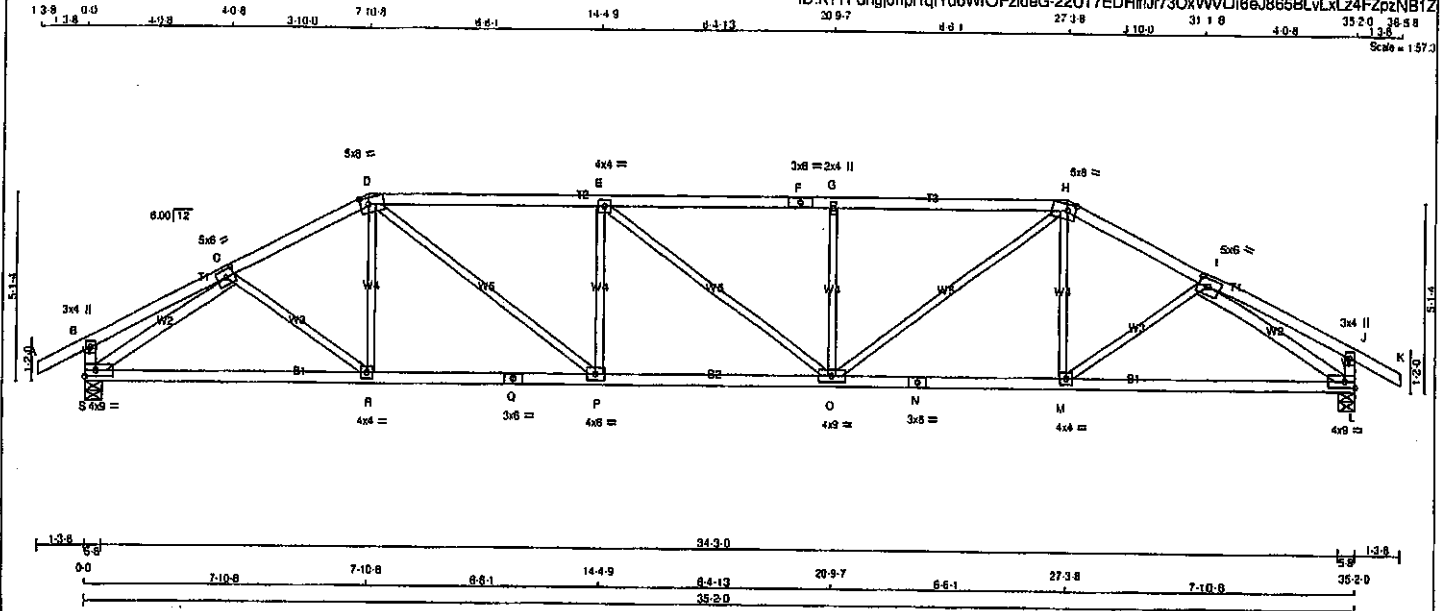


Structural component only
DWG# T-2007169 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T41	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 13:02:18 2020 Page 1
ID:K7TPdhgJ0npl1qYdbWfOfzideG-22UT7EDHfJr730xVwUJ6eJ865BLvLxLz4FZpZNB1Z



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV-w	MT20	3.0	4.0		
C	TMVW-1	MT20	5.0	8.0	2.50	2.75
D	TTWW-m	MT20	5.0	8.0	2.25	2.75
E	TMVW-1	MT20	4.0	4.0		
F	TS-1	MT20	3.0	8.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	2.25	2.75
I	TMVW-1	MT20	5.0	8.0	2.50	2.75
J	TMV-w	MT20	3.0	4.0		
L	BMVW-1	MT20	4.0	9.0		Edge
M	BMVW-1	MT20	4.0	4.0		
N	BS-1	MT20	3.0	6.0		
O	BMVW-1	MT20	4.0	9.0		
P	BMVW-1	MT20	4.0	8.0		
Q	BS-1	MT20	3.0	6.0		
R	BMVW-1	MT20	4.0	4.0		
S	BMVW-1	MT20	4.0	9.0		Edge

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	GROSS REACTION	BRG	BRG	
S	2063 0	2063 0	0 0	5-8	5-8
L	2063 0	2063 0	0 0	5-8	5-8
UNFACTORED REACTIONS		1ST CASE	MAX/MIN. COMPONENT REACTIONS		
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
S	1457	989 / 0	0 / 0	0 / 0	489 / 0
L	1457	989 / 0	0 / 0	0 / 0	489 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	C-R	0 / 93	0.03 (4)
B-C	0 / 16	-91.8	-91.8 0.20 (1)	10.00	R-D	0 / 121	0.04 (4)
C-D	-2799 / 0	-91.8	-91.8 0.32 (1)	3.88	D-P	0 / 1267	0.29 (1)
D-E	-3508 / 0	-91.8	-91.8 0.85 (1)	2.94	P-E	-843 / 0	0.25 (1)
E-F	-3507 / 0	-91.8	-91.8 0.93 (1)	2.94	O-G	-2 / 0	0.00 (1)
F-G	-3507 / 0	-91.8	-91.8 0.83 (1)	2.94	O-G	-843 / 0	0.29 (1)
G-H	-3507 / 0	-91.8	-91.8 0.84 (1)	2.95	O-H	0 / 1288	0.26 (1)
H-I	-2799 / 0	-91.8	-91.8 0.32 (1)	3.88	M-H	0 / 121	0.04 (1)
I-J	0 / 16	-91.8	-91.8 0.20 (1)	10.00	M-I	0 / 93	0.03 (4)
J-K	0 / 28	-91.8	-91.8 0.12 (1)	10.00	S-C	-2974 / 0	0.83 (1)
S-B	-270 / 0	0.0	0.0 0.03 (1)	7.81	I-L	-2974 / 0	0.83 (1)
L-J	-270 / 0	0.0	0.0 0.03 (1)	7.81			
S-R	0 / 2417	-18.5	-18.5 0.53 (1)	10.00			
R-Q	0 / 2489	-18.5	-18.5 0.54 (1)	10.00			
Q-P	0 / 2489	-18.5	-18.5 0.54 (1)	10.00			
P-O	0 / 3509	-18.5	-18.5 0.84 (1)	10.00			
O-N	0 / 2489	-18.5	-18.5 0.54 (1)	10.00			
N-M	0 / 2489	-18.5	-18.5 0.54 (1)	10.00			
M-L	0 / 2417	-18.5	-18.5 0.53 (1)	10.00			

TOTAL WEIGHT = 2 X 139 = 278 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. CG

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.41")

CSI: TC=0.95/1.00 (D-E:1), BC=0.64/1.00 (O-P:1), WB=0.83/1.00 (H-L: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

AUTOSOLVE HELLS OFF

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

NAIL VALUES
PLATE GRIP(ORY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 516 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

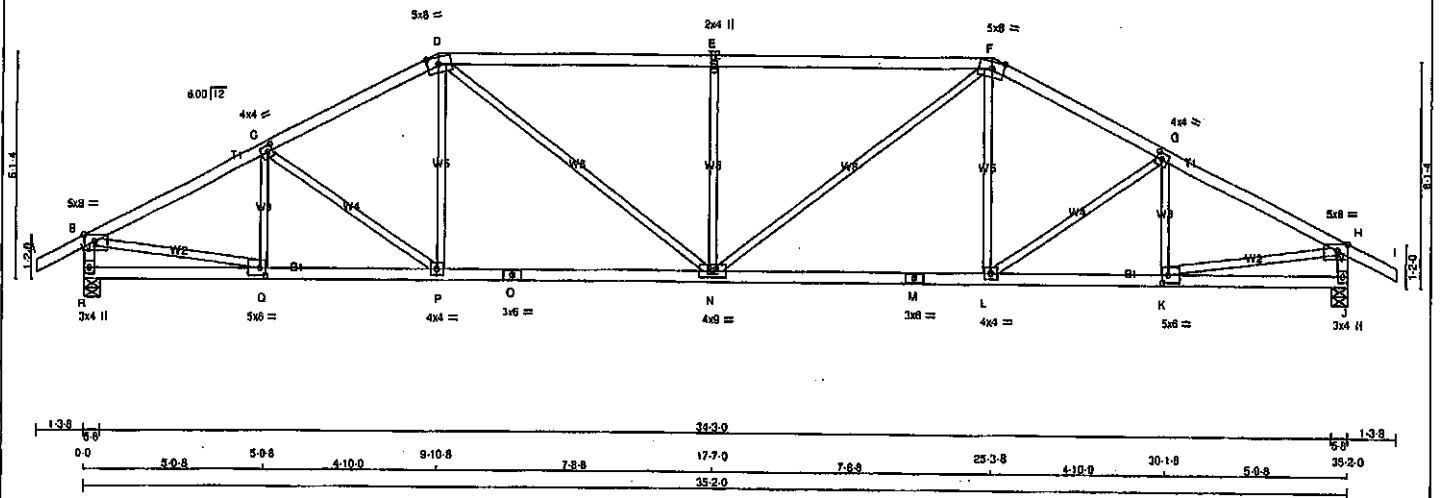
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (L) (INPUT = 0.90)
JSI METAL= 0.77 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007170

JOB NAME 408170	TRUSS NAME T42	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Sat Apr 25 13:02:19 2020 Page 1		
ID:K?TPdngj0npl1qIYdbWOFzideG-WE2rKaEwWzr9THdaVEQjEKBSUWUW4PP4adqo5FzNB1Y				Scale = 1/2" = 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 - 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 EXCEPT	2x3	DRY	No.2
SPF			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMW-p	MT20	5.0	8.0	Edge 3.50
C	TMW-w	MT20	4.0	4.0	2.00 1.75
D	TTW-w	MT20	5.0	8.0	2.25 3.75
E	TMW-w	MT20	2.0	4.0	
F	TTW-w	MT20	5.0	8.0	2.25 3.75
G	TMW-w	MT20	4.0	4.0	2.00 1.75
H	TMW-p	MT20	5.0	8.0	Edge 3.50
J	BMW-l+p	MT20	3.0	4.0	
K	BMW-w	MT20	5.0	6.0	2.50 2.00
L	BMW-w	MT20	4.0	4.0	
M	BS-l	MT20	3.0	6.0	
N	BMW-w	MT20	4.0	4.0	
O	BS-l	MT20	3.0	6.0	
P	BMW-w	MT20	4.0	4.0	
Q	BMW-w	MT20	5.0	8.0	2.50 2.00
R	BMW-l+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	VERT	HORZ	MAXIMUM FACTORED GROSS REACTION	DOWN	UPLIFT	INPUT BRG IN-SX
R	2063	0	0	2063	0	0	5-8
J	2063	0	0	2063	0	0	5-8
UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERMALIVE	WIND	DEAD	SOIL
R	1457	969 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
J	1457	969 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 2.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	Q-C	-353 / 0	0.08 (1)
B-C	-2834 / 0	-91.8 -91.8	0.39 (1)	3.81	C-P	-210 / 0	0.13 (1)
C-D	-2687 / 0	-91.8 -91.8	0.37 (1)	3.91	P-D	0 / 246	0.06 (4)
D-E	-3080 / 0	-91.8 -91.8	0.97 (1)	2.78	D-N	0 / 844	0.19 (1)
E-F	-3080 / 0	-91.8 -91.8	0.97 (1)	2.78	N-E	-872 / 0	0.51 (1)
F-G	-2887 / 0	-91.8 -91.8	0.37 (1)	3.81	N-F	0 / 844	0.19 (1)
G-H	-2834 / 0	-91.8 -91.8	0.39 (1)	3.81	L-F	0 / 246	0.06 (4)
H-I	0 / 28	-91.8 -91.8	0.12 (1)	10.00	L-G	-210 / 0	0.13 (1)
R-B	-2018 / 0	0.0 0.0	0.20 (1)	5.84	K-G	-353 / 0	0.08 (1)
J-H	-2018 / 0	0.0 0.0	0.20 (1)	5.84	B-Q	0 / 2591	0.58 (1)
					K-H	0 / 2591	0.58 (1)
R-Q	0 / 0	-18.5 -18.5	0.10 (4)	10.00			
Q-P	0 / 2555	-18.5 -18.5	0.51 (1)	10.00			
P-O	0 / 2388	-18.5 -18.5	0.49 (1)	10.00			
O-N	0 / 2388	-18.5 -18.5	0.49 (1)	10.00			
N-M	0 / 2388	-18.5 -18.5	0.49 (1)	10.00			
M-L	0 / 2388	-18.5 -18.5	0.49 (1)	10.00			
L-K	0 / 2555	-18.5 -18.5	0.51 (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 6.00/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2018 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CSI: TC=0.97/1.00 (D-E:1), BC=0.51/1.00 (P-Q:1), WB=0.58/1.00 (R-Q:1), GS=0.34/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

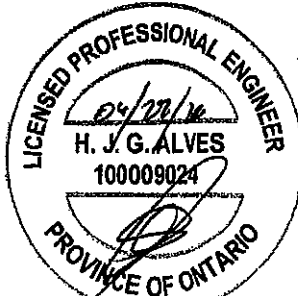
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP=0.87 (F) (INPUT = 0.90)
JSI METAL=0.75 (M) (INPUT = 1.00)

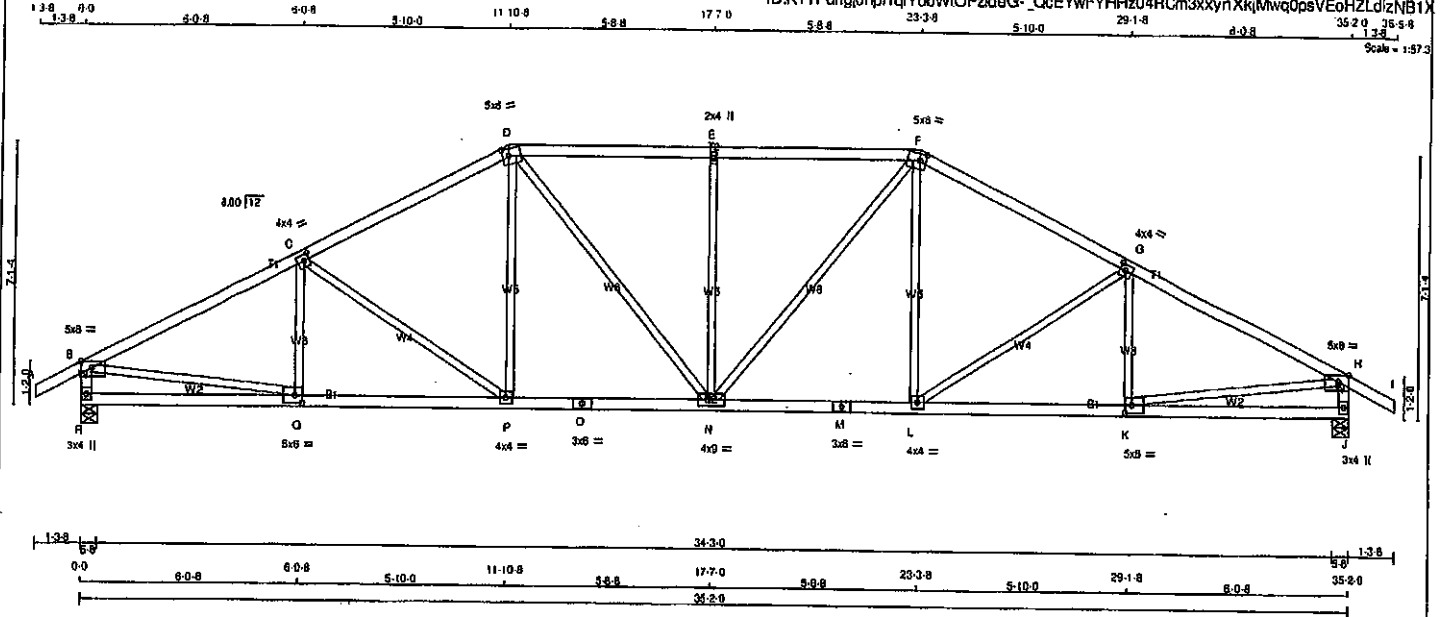


Structural component only
DWG# T-2007171

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T43	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:K?TPdngj0npl1qYd6WtOFzdaG-QcEYwFYHHz04RCm3xxynXkjMwq0psVEoHZLdzNB1X



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF		
D - F	2x4	DRY	No.2	SPF		
F - I	2x4	DRY	No.2	SPF		
I - L	2x4	DRY	No.2	SPF		
L - 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 (tablets in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.50	
C	TMVW-1	MT20	4.0	4.0	2.00	1.75	
D	TTWV-m	MT20	5.0	8.0	2.25	2.00	
E	TMVW-1	MT20	2.0	4.0			
F	TTWV-m	MT20	5.0	8.0	2.25	2.00	
G	TMVW-1	MT20	4.0	4.0	2.00	1.75	
H	TMVW-p	MT20	5.0	8.0	Edge	3.50	
I	BMV1-p	MT20	3.0	4.0			
J	BMVW-1	MT20	5.0	8.0	2.50	2.25	
K	BMVW-1	MT20	4.0	4.0			
L	BMVW-1	MT20	3.0	4.0			
M	BS-1	MT20	3.0	4.0			
N	BMVW-1	MT20	4.0	4.0			
O	BS-1	MT20	3.0	4.0			
P	BMVW-1	MT20	4.0	4.0			
Q	BMVW-1	MT20	5.0	8.0	2.50	2.25	
R	BMV1-p	MT20	3.0	4.0			

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT VERT	DOWN	HORIZ	UPLIFT	IN-SX
R	2063	0	2063	0
J	2063	0	2063	0

UNFACTORED REACTIONS						
	1ST CASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
R	1457	969 / 0	0 / 0	0 / 0	0 / 0	488 / 0
J	1457	969 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.58 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.

LOADING

CHORDS			WEBS					
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-C	-255 / 12	0.07 (1)
B-C	-2809 / 0	-91.8	-91.8	0.58 (1)	3.58	C-D	-435 / 0	0.42 (1)
C-D	-2539 / 0	-91.8	-91.8	0.52 (1)	3.83	D-E	0 / 350	0.08 (1)
D-E	-2558 / 0	-91.8	-91.8	0.48 (1)	3.85	D-N	0 / 482	0.11 (1)
E-F	-2559 / 0	-91.8	-91.8	0.48 (1)	3.85	E-E	-641 / 0	0.56 (1)
F-G	-2539 / 0	-91.8	-91.8	0.52 (1)	3.83	N-F	0 / 482	0.11 (1)
G-H	-2809 / 0	-91.8	-91.8	0.58 (1)	3.58	F-F	0 / 350	0.08 (1)
H-I	0 / 28	-91.8	-91.8	0.12 (1)	10.00	L-G	-435 / 0	0.42 (1)
I-J	-2014 / 0	0.0	0.0	0.20 (1)	5.85	K-G	-255 / 12	0.07 (1)
J-H	-2014 / 0	0.0	0.0	0.20 (1)	5.85	B-Q	0 / 2835	0.59 (1)
						K-H	0 / 2835	0.59 (1)
R-Q	0 / 0	-18.5	-18.5	0.15 (4)	10.00			
Q-P	0 / 2809	-18.5	-18.5	0.49 (1)	10.00			
P-O	0 / 2249	-18.5	-18.5	0.43 (1)	10.00			
O-N	0 / 2249	-18.5	-18.5	0.43 (1)	10.00			
N-M	0 / 2249	-18.5	-18.5	0.43 (1)	10.00			
M-L	0 / 2249	-18.5	-18.5	0.43 (1)	10.00			
L-K	0 / 2809	-18.5	-18.5	0.49 (1)	10.00			
K-J	0 / 0	-18.5	-18.5	0.15 (4)	10.00			

TOTAL WEIGHT = 2 X 145 = 289 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. G/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 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 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17")
CALCULATED VERT. DEFL. (LL) = L/999 (0.15")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/999 (0.28")
CSI: TC=0.58/1.00 (B-C:1), BC=0.49/1.00 (P-Q:1), WB=0.59/1.00 (B-Q:1), SSI=0.25/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LBS DEPEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

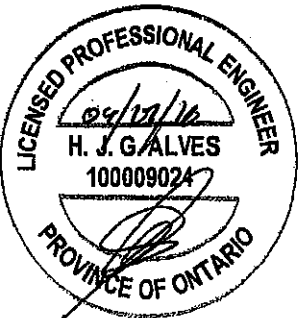
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

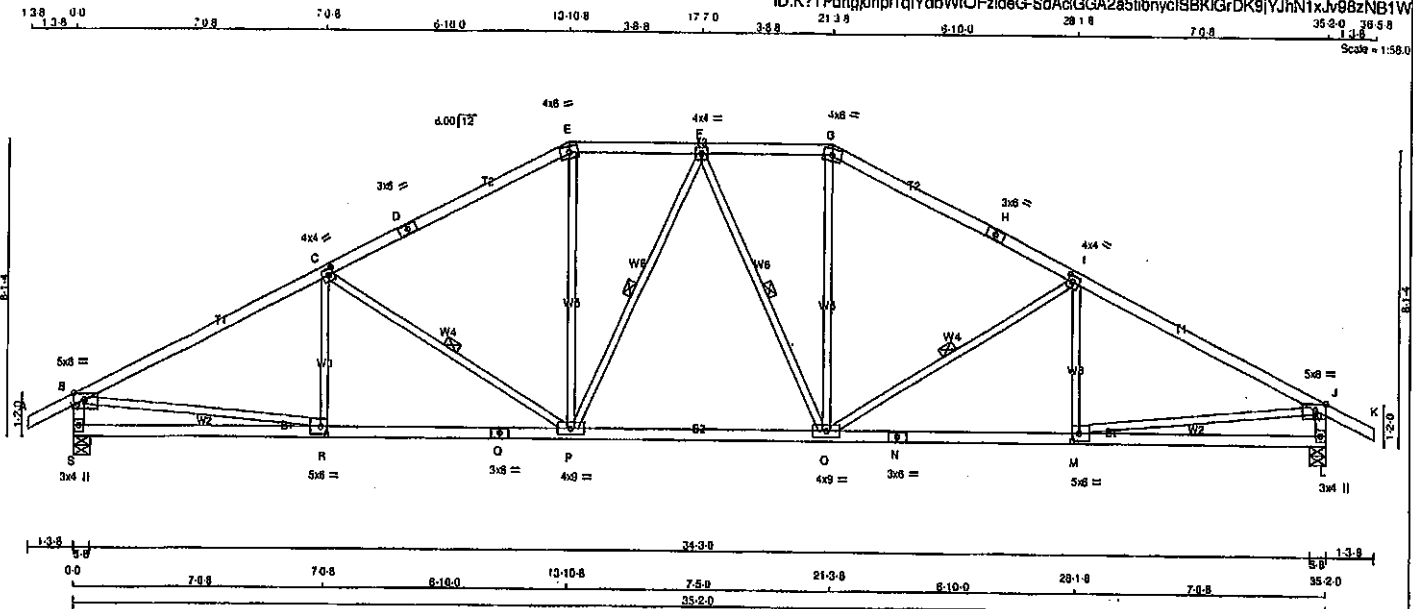
JSI GRIP= 0.89 (Q) (INPUT = 0.90)
JSI METAL= 0.89 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007172

JOB NAME 408170	TRUSS NAME T44	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO. 1
Famarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 2 X 145 = 291 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	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 TMWW-p	MT20	5.0	8.0	Edge 3.50
C TMWW-t	MT20	4.0	4.0	2.00 1.75
D TS-t	MT20	3.0	8.0	
E TTW-m	MT20	4.0	6.0	
F TMWW-t	MT20	4.0	4.0	
G TTW-m	MT20	4.0	6.0	
H TS-t	MT20	3.0	8.0	
I TMWW-t	MT20	4.0	4.0	2.00 1.75
J TMWW-p	MT20	5.0	8.0	Edge 3.50
L BMV1-p	MT20	3.0	4.0	
M BMWW-t	MT20	5.0	6.0	2.50 2.25
N BS-t	MT20	3.0	6.0	
O BMWW-t	MT20	4.0	9.0	
P BMWW-t	MT20	4.0	9.0	
Q BS-t	MT20	3.0	6.0	
R BMWW-t	MT20	5.0	6.0	2.50 2.25
S 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
S	2083 0	2063 0	5-8
L	2083 0	2063 0	5-8

UNFACTORED REACTIONS							
JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD	
S	1457	969 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1457	969 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, L
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-P, F-P, F-O, L-O.

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

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)
B-C	-2806 / 0	-91.8	-91.8 0.83 (1)
C-D	-2373 / 0	-91.8	-91.8 0.72 (1)
D-E	-2373 / 0	-91.8	-91.8 0.72 (1)
E-F	-2100 / 0	-91.8	-91.8 0.19 (1)
F-G	-2100 / 0	-91.8	-91.8 0.19 (1)
G-H	-2373 / 0	-91.8	-91.8 0.72 (1)
H-I	-2373 / 0	-91.8	-91.8 0.72 (1)
I-J	-2806 / 0	-91.8	-91.8 0.83 (1)
J-K	0 / 28	-91.8	-91.8 0.12 (1)
S-B	-2088 / 0	0.0	0.0 0.20 (1)
L-J	-2088 / 0	0.0	0.0 0.20 (1)
S-R	0 / 0	-18.5	-18.5 0.20 (4)
R-Q	0 / 2830	-18.5	-18.5 0.52 (1)
Q-P	0 / 2830	-18.5	-18.5 0.52 (1)
P-O	0 / 2193	-18.5	-18.5 0.48 (1)
O-N	0 / 2830	-18.5	-18.5 0.52 (1)
N-M	0 / 2830	-18.5	-18.5 0.52 (1)
M-L	0 / 0	-18.5	-18.5 0.20 (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 6.00/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/889 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/889 (0.30")

CSI: TC=0.83/1.00 (B-C:1), BC=0.52/1.00 (P-R:1), WB=0.60/1.00 (B-R:1), SS=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

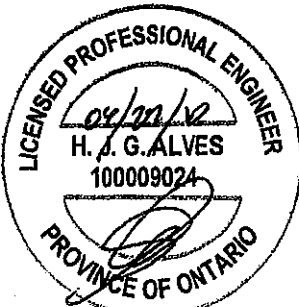
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1867 788 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (M) (INPUT = 0.90)
JSI METAL= 0.79 (Q) (INPUT = 1.00)

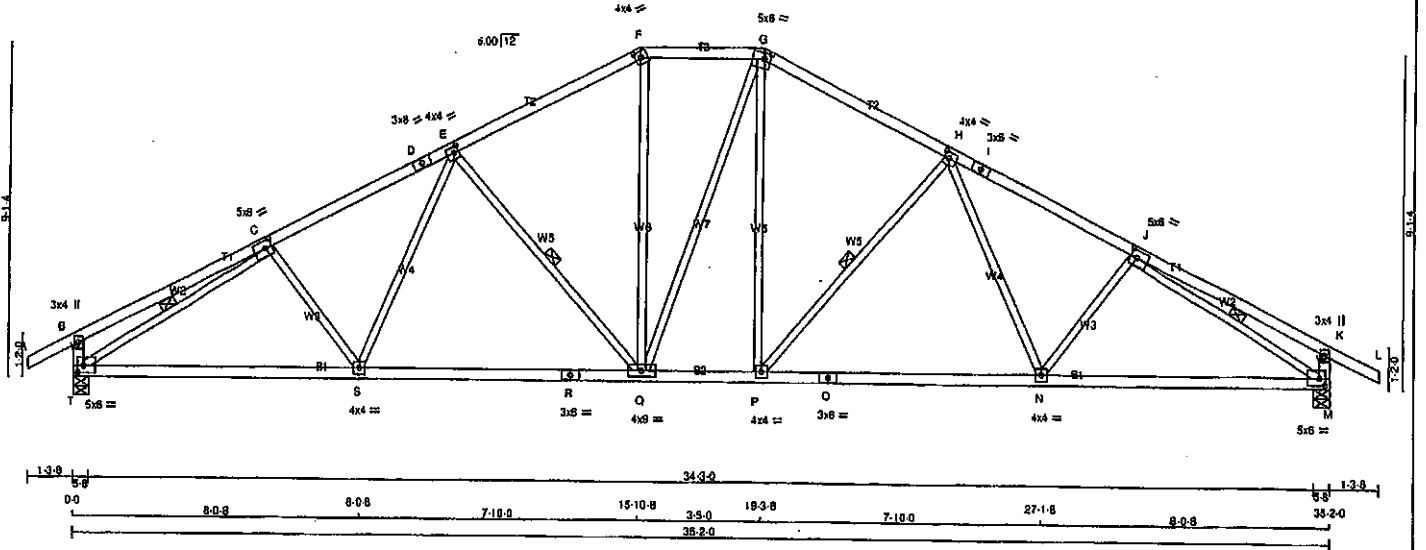


Structural component only
DWG# T-2007173

JOB NAME 408170	TRUSS NAME T45	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:K7TPdhiq0npl1qYdWIOFzIdG-wol_zbGopuDKIM9AMzQsy6jiVPHiyXG62SiazNB1V

1.38 0.0 5.53 5.53 5.21 10.713 5.21 15.108 3.30 19.38 5.21 34.93 5.21 28.813 5.53 35.20 38.58
1.38 5.9 8.08 8.08 7.10 15.108 3.30 19.38 7.10 27.18 8.08 35.20
0.0 8.08 8.08 7.10 15.108 3.30 19.38 7.10 27.18 8.08 35.20
Scale = 1/250



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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT	IN-SX
T	2083	0	2083	0	5-8
M	2083	0	2083	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
T	1457	989 / 0	0 / 0	0 / 0	0 / 0	488 / 0
M	1457	989 / 0	0 / 0	0 / 0	0 / 0	488 / 0

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

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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-Q, H-P, C-T, J-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 28	C-S	-110 / 37
B-C	0 / 19	E-Q	0 / 276
C-D	-2759 / 0	E-Q	-881 / 0
D-E	-2759 / 0	Q-G	0 / 813
E-F	-2167 / 0	Q-G	0 / 4
F-G	-1925 / 0	P-G	0 / 609
G-H	-2166 / 0	H-H	-882 / 0
H-I	-2760 / 0	H-N	0 / 278
I-J	-2760 / 0	N-J	-110 / 37
J-K	0 / 19	T-C	-3040 / 0
K-L	0 / 28	J-M	-3041 / 0
L-M	-328 / 0		
M-K	-328 / 0		
T-S	0 / 2536		
S-R	0 / 2362		
R-Q	0 / 2362		
Q-P	0 / 1924		
P-O	0 / 2362		
O-N	0 / 2362		
N-M	0 / 2537		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSF: TC=0.40/1.00 (H-J:1), BC=0.56/1.00 (M-N:1), WB=0.85/1.00 (J-M:1), SS=0.20/1.00 (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
(PS)	(PL)	(PL)	
MAX MIN	MAX MIN	MAX MIN	
MT20	818	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.80)
JSI METAL= 0.76 (O) (INPUT = 1.00)

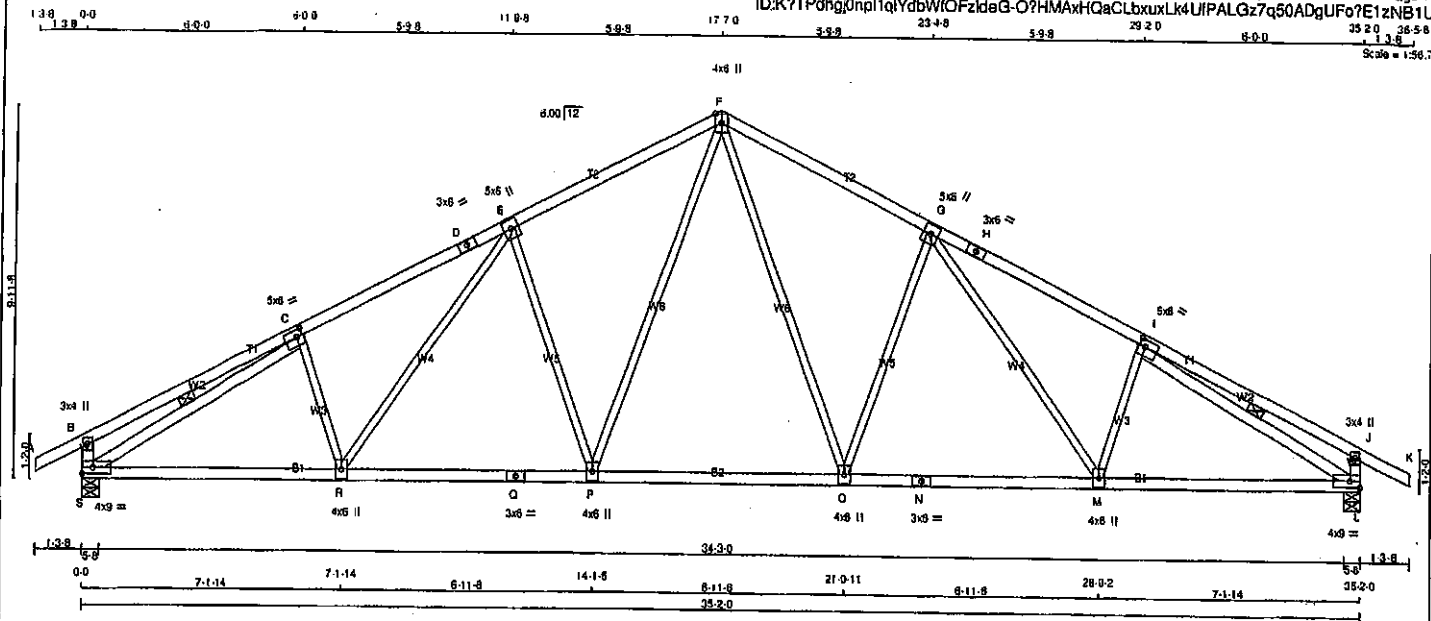


Structural component only
DWG# T-2007174

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T46	6	1	TRUSS DESC.		

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 - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
S - C	2x4	DRY	No.2
I - L	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMVW+1	MT20	5.0	6.0 2.25 2.00
D	TS-1	MT20	3.0	6.0
E	TMVW+1	MT20	5.0	6.0
F	TTVW+p	MT20	4.0	6.0 Edge
G	TMVW+1	MT20	5.0	6.0
H	TS-1	MT20	3.0	6.0
I	TMVW+1	MT20	5.0	6.0 2.25 2.00
J	TMV+p	MT20	3.0	4.0
L	BMVW+1	MT20	4.0	9.0 Edge
M, O, P, R				
M	BMVW+1	MT20	4.0	6.0
N	BS-1	MT20	3.0	6.0
Q	BS-1	MT20	3.0	6.0
S	BMVW+1	MT20	4.0	9.0 Edge

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	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
S	2063	0	2063	0	0	5-8	5-8	5-8	5-8
L	2063	0	2063	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	SO
S	1457	969 / 0	0 / 0	0 / 0	0 / 0	468 / 0	0 / 0
L	1457	969 / 0	0 / 0	0 / 0	0 / 0	468 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-S, I-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		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	F-O	0 / 868	0.19 (1)
B-C	0 / 22	-91.8	-91.8 0.40 (1)	10.00	O-G	-726 / 0	0.72 (1)
C-D	-2808 / 0	-91.8	-91.8 0.49 (1)	3.75	G-M	0 / 391	0.09 (1)
D-E	-2808 / 0	-91.8	-91.8 0.49 (1)	3.75	M-I	-192 / 18	0.05 (1)
E-F	-2322 / 0	-91.8	-91.8 0.46 (1)	4.07	P-F	0 / 868	0.19 (1)
F-G	-2322 / 0	-91.8	-91.8 0.46 (1)	4.07	E-P	-726 / 0	0.72 (1)
G-H	-2808 / 0	-91.8	-91.8 0.49 (1)	3.75	R-E	0 / 391	0.09 (1)
H-I	-2808 / 0	-91.8	-91.8 0.49 (1)	3.75	C-R	-192 / 18	0.05 (1)
I-J	0 / 22	-91.8	-91.8 0.40 (1)	10.00	S-C	-3084 / 0	0.72 (1)
J-K	0 / 28	-91.8	-91.8 0.12 (1)	10.00	I-L	-3084 / 0	0.72 (1)
S-B	-344 / 0	0.0	0.0 0.03 (1)	7.81			
L-J	-344 / 0	0.0	0.0 0.03 (1)	7.81			
S-R	0 / 2574	-18.5	-18.5 0.53 (1)	10.00			
R-Q	0 / 2291	-18.5	-18.5 0.47 (1)	10.00			
Q-P	0 / 2291	-18.5	-18.5 0.47 (1)	10.00			
P-O	0 / 1762	-18.5	-18.5 0.38 (1)	10.00			
O-N	0 / 2291	-18.5	-18.5 0.47 (1)	10.00			
N-M	0 / 2291	-18.5	-18.5 0.47 (1)	10.00			
M-L	0 / 2574	-18.5	-18.5 0.53 (1)	10.00			

TOTAL WEIGHT = 8 X 152 = 910 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 2015, CBC 2012, ABC 2010
- PART 3 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 (1.17)
CALCULATED VERT. DEFL.(LL) = L/999 (0.14)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.28)

CS1: TC=0.49/1.00 (G-I:1), BC=0.53/1.00 (R-S:1), WB=0.72/1.00 (E-P:1), SS1=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

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)
MT20	818	354	1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (C) (INPUT = 0.90)
JSI METAL= 0.77 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007175

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T47	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:K7TPdthg0ng1qIYdbWIOFzideG-sCkNHl2LVTsZ2WXIn?uxNuSFX8oIIQpivXZmTzNB1T

PLATES (table is in inches)

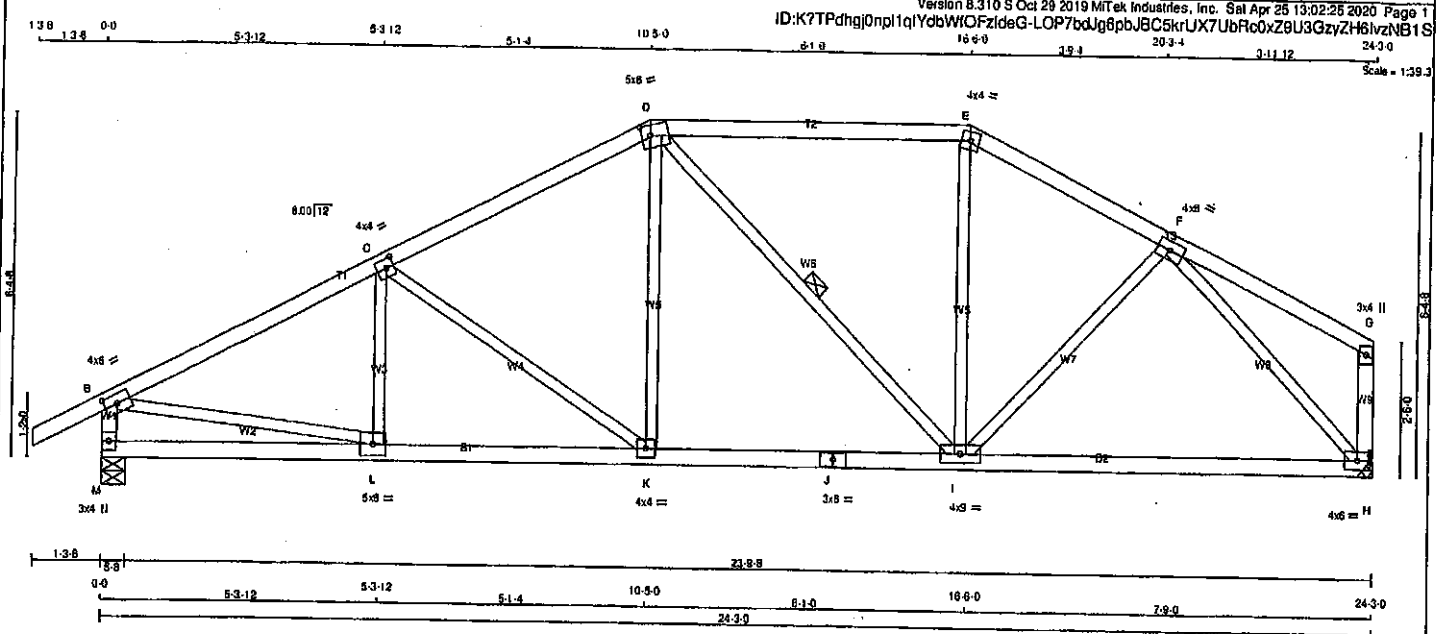
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	6.0	1.00	3.00
C	TMVW-l	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-l	MT20	5.0	6.0		Edge
H	BMV1+p	MT20	3.0	6.0		
I	BMVW-l	MT20	5.0	6.0	2.50	2.75
J	BMVWW-l	MT20	5.0	8.0		
K	BS-l	MT20	5.0	6.0		
L	BMVW-l	MT20	5.0	6.0		
M	BMVW-l	MT20	5.0	6.0		
N	BMV1+p	MT20	3.0	6.0		

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



Structural component only
DWG# T-2007176 4/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T48	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-1	MT20	4.0	6.0 2.00 3.00
C	TMVW-1	MT20	4.0	4.0 2.00 1.75
D	TTWW-m	MT20	5.0	8.0 2.25 2.00
E	TTWW-m	MT20	4.0	4.0
F	TMVW-1	MT20	4.0	6.0
G	TMVW-1	MT20	3.0	4.0
H	BMVW-1	MT20	4.0	6.0
I	BMVW-1	MT20	4.0	9.0
J	BS-1	MT20	3.0	6.0
K	BMVW-1	MT20	4.0	4.0
L	BMVW-1	MT20	5.0	6.0
M	BMVW-1	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	
M	1481 0	1481 0	5-8	5-8	
H	1337 0	1337 0	0	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
M	1031	690 / 0	0 / 0	0 / 0	0 / 0	341 / 0	0 / 0
H	945	620 / 0	0 / 0	0 / 0	0 / 0	325 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.58 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 D-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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 20	L-C	-185 / 32
B-C	-1844 / 0	C-K	-438 / 0
C-D	-1488 / 0	K-D	0 / 334
D-E	-1181 / 0	D-I	-189 / 0
E-F	-1396 / 0	I-E	0 / 175
F-G	0 / 10	I-F	0 / 158
G-H	-1419 / 0	B-L	0 / 1692
H-G	-139 / 0	F-H	-1563 / 0
M-L	0 / 0		
L-K	0 / 1871		
K-J	0 / 1313		
J-I	0 / 1313		
I-H	0 / 1089		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.0%/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCO 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 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSK TC=0.48/1.00 (D-E:1), BC=0.38/1.00 (I-K:4), WB=0.82/1.00 (F-H: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
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

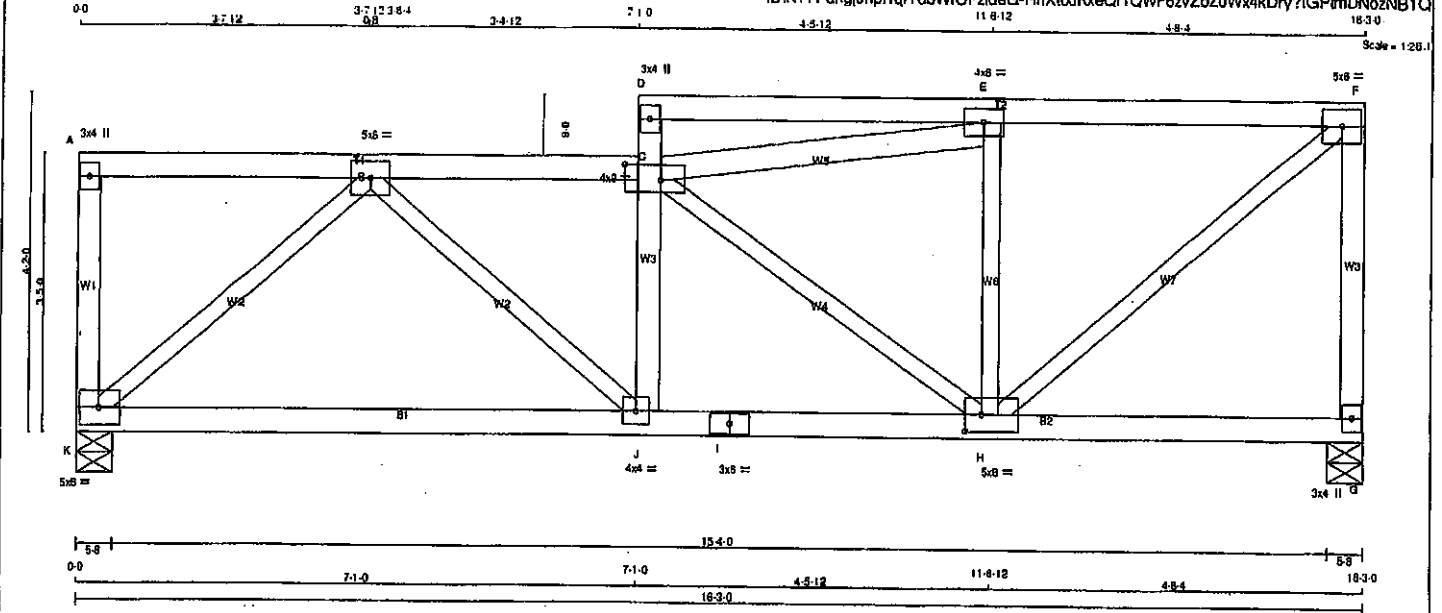


Structural component only
DWG# T-2007177

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T49	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 72 = 216 lb
[M/R]

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	SNOW	GROSS REACTION	DOWN	GROSS REACTION	BRG	BRG	IN-SX	IN-SX
K	1079	0	1079	0	0	5-8	5-8	5-8	5-8
G	1079	0	1079	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LOOSE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
K	780	418/0	0/0	0/0	0/0
G	780	418/0	0/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLT)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO	FR-TO				
K-A	-163/0	0.0	0.04 (1)	7.81	K-B	-1328/0	0.85 (1)	
A-B	0/0	-114.3	-114.3	0.32 (1)	10.00	B-J	0/538	0.18 (1)
B-C	-1418/0	-114.3	-114.3	0.37 (1)	4.47	C-E	-991/0	0.30 (1)
J-C	-228/0	0.0	0.0	0.08 (1)	7.81	C-H	-489/0	0.30 (1)
C-D	-183/0	0.0	0.0	0.08 (1)	7.81	H-E	-471/0	0.18 (1)
D-E	-58/0	-114.3	-114.3	0.51 (1)	6.25	H-F	0/1303	0.39 (1)
E-F	-1004/0	-114.3	-114.3	0.55 (1)	4.81			
G-F	-1039/0	0.0	0.0	0.37 (1)	6.91			
K-J	0/1013	-18.5	-18.5	0.41 (4)	10.00			
J-I	0/1402	-18.5	-18.5	0.48 (4)	10.00			
I-H	0/1402	-18.5	-18.5	0.48 (4)	10.00			
H-G	0/0	-18.5	-18.5	0.13 (4)	10.00			

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.6 PSF
DL	= 15.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 48.0 PSF

SPACING = 24.0 IN/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 0.0012

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.55/1.00 (E-F:1), BC=0.48/1.00 (H-J:4), WB=0.65/1.00 (B-K:1), SSI=0.34/1.00 (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

FLAT ROOF FACTOR = 0.75

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	515 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (C) (INPUT = 0.90)
JSI METAL= 0.82 (I) (INPUT = 1.00)

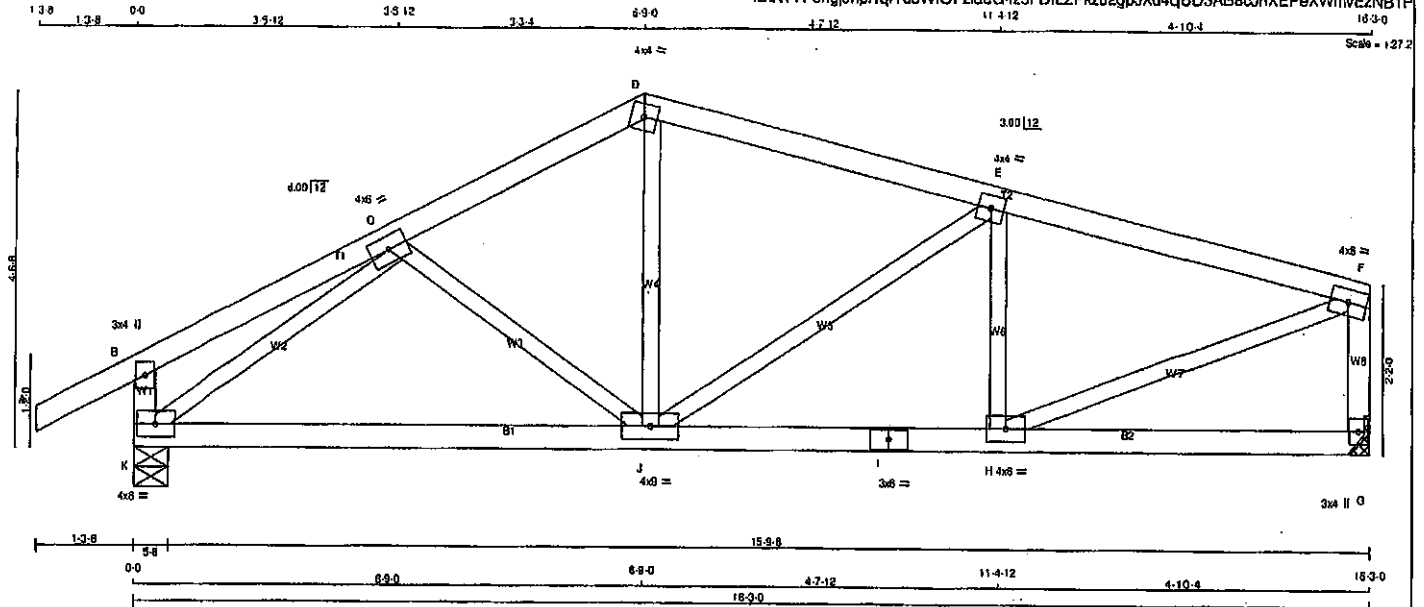


Structural component only
DWG# T-2007178

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T50	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:K7TPdhgJ0npl1qYdbWIOFzideG-Iz5FDILZPkzu2gpJX4d4q6D3AB8cJhXEPeXWmVzNB1P



TOTAL WEIGHT = 2 X 63 = 126 lb [M] [F]

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY; SEASONED LUMBER.

PLATES (table in inches)	W	LEN	Y	X
JT TYPE	MT20	3.0	4.0	
B TMV+p	MT20	4.0	8.0	
C TMWW-i	MT20	4.0	4.0	
D TTW-i	MT20	4.0	4.0	
E TMWW-i	MT20	4.0	4.0	
F TMWW-i	MT20	4.0	4.0	
G BMV1+p	MT20	3.0	4.0	
H BMWW-i	MT20	4.0	4.0	
I BS-i	MT20	3.0	4.0	
J BMWW-i	MT20	4.0	4.0	
K BMWW-i	MT20	4.0	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	1020	0	1020	0
K VERT	896	0	896	0
JT HORZ	0	0	0	0
K HORZ	0	0	0	0
JT UPLIFT	0	0	0	0
K UPLIFT	0	0	0	0

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

UNFACTORED REACTIONS	1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE
K COMBINED	SNOW	LIVE
JT PERM.LIVE	WIND	DEAD
K PERM.LIVE	WIND	DEAD
JT SOIL		
K SOIL		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.73 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	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	MAX
MEMB.	FORCE (LBS)	VERT. (PLF)	FROM	TO	CSI (LC)	UNBRAC	LENGTH	FORCE (LBS)	CSI (LC)
FR-TO									
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	C-J	-135/77	0.04 (1)	
B-C	0/14	-91.8	-91.8	0.15 (1)	10.00	J-D	0/355	0.08 (1)	
C-D	-982/0	-91.8	-91.8	0.13 (1)	8.20	J-E	-263/0	0.13 (1)	
D-E	-894/0	-91.8	-91.8	0.28 (1)	6.18	H-E	-335/0	0.07 (1)	
E-F	-1094/0	-91.8	-91.8	0.27 (1)	5.73	K-C	-1196/0	0.35 (1)	
K-B	-248/0	0.0	0.0	0.03 (1)	7.81	H-F	0/1150	0.28 (1)	
G-F	-855/0	0.0	0.0	0.10 (1)	7.81				
K-J	0/956	-18.5	-18.5	0.28 (1)	10.00				
J-I	0/1073	-18.5	-18.5	0.27 (1)	10.00				
I-H	0/1073	-18.5	-18.5	0.27 (1)	10.00				
H-G	0/0	-18.5	-18.5	0.10 (4)	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

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

(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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.27/1.00 (E-F:1), BC=0.27/1.00 (H-J:1),
WB=0.35/1.00 (C-K:1), SS=0.21/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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 = 0.71 (H) (INPUT = 0.90)
JSI METAL = 0.92 (I) (INPUT = 1.00)

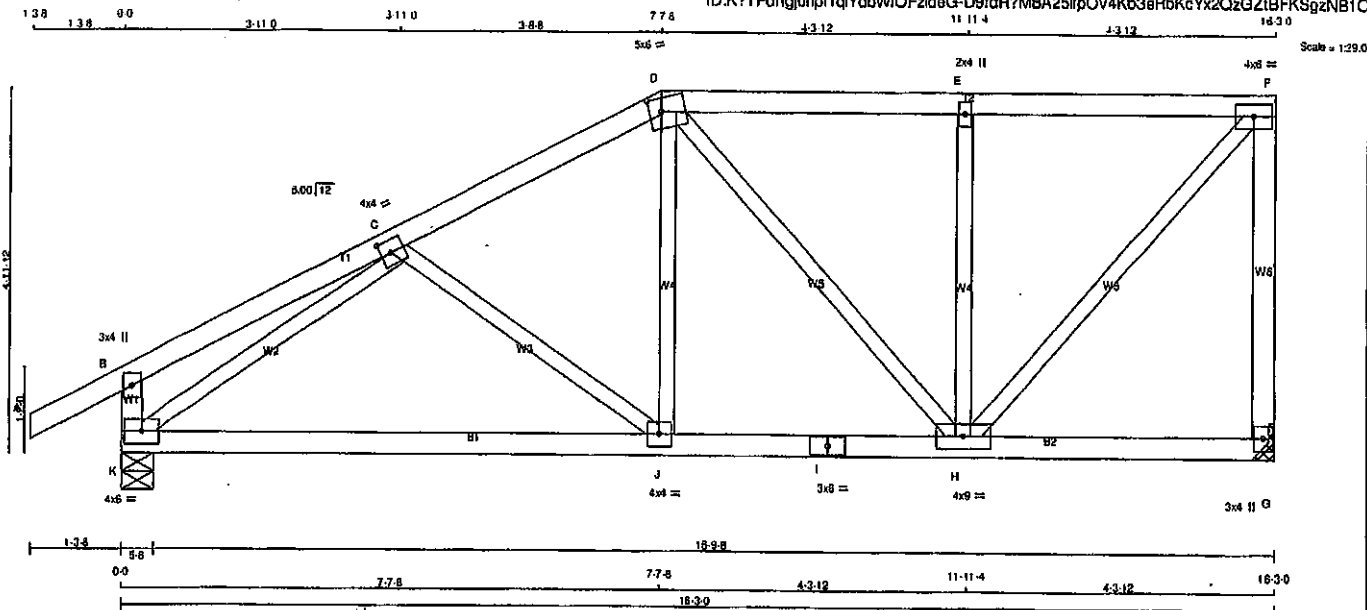


Structural component only
DWG# T-2007179

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T51	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 70 lb (M)

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
K - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
I - G	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 TMWVW-t	MT20	4.0	4.0	2.00 1.75
D TTWVW-m	MT20	5.0	6.0	2.25 2.00
E TMW+w	MT20	2.0	4.0	
F TMW-t	MT20	4.0	6.0	
G BMV1+p	MT20	3.0	4.0	
H BMWVW-1	MT20	4.0	9.0	
I BS-1	MT20	3.0	6.0	
J BMWVW-1	MT20	4.0	4.0	
K BMWVW-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	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UP	BRG	BRG	IN-SX
G	898	0	898	0	0	0	MECHANICAL		
K	1020	0	1020	0	0	0	5-8		

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 3-6.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	633	416 / 0	0 / 0	0 / 0	0 / 0	218 / 0	0 / 0
K	719	485 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.21 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		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	C-J	-215 / 0	0.08 (1)
B-C	0 / 17	-91.8	-91.8 0.20 (1)	10.00	J-D	0 / 266	0.06 (1)
C-D	-901 / 0	-91.8	-91.8 0.22 (1)	6.21	D-H	-210 / 0	0.14 (1)
D-E	-854 / 0	-91.8	-91.8 0.29 (1)	6.25	H-E	-488 / 0	0.18 (1)
E-F	-854 / 0	-91.8	-91.8 0.29 (1)	6.25	H-F	0 / 961	0.22 (1)
F-G	-858 / 0	0.0	0.0 0.35 (1)	7.81	K-C	-1182 / 0	0.43 (1)
G-B	-261 / 0	0.0	0.0 0.03 (1)	7.81			
K-J	0 / 965	-18.5	-18.5 0.30 (4)	10.00			
J-I	0 / 798	-18.5	-18.5 0.30 (4)	10.00			
I-H	0 / 798	-18.5	-18.5 0.30 (4)	10.00			
H-G	0 / 0	-18.5	-18.5 0.08 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 9.0 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 6.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, 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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/989 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/989 (0.12")

CSI: TC=0.38/1.00 (F-G:1), BC=0.30/1.00 (J-K:4),
WB=0.43/1.00 (C-K:1), BS=0.19/1.00 (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)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618	354
	1687	788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)
JSI METAL= 0.40 (C) (INPUT = 1.00)

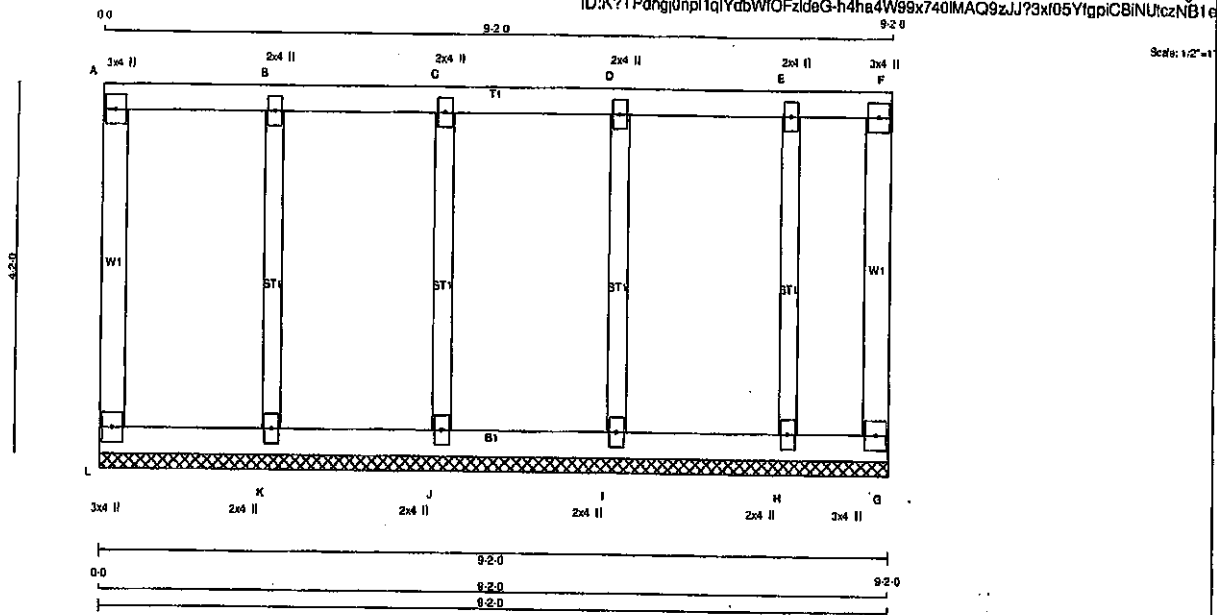


Structural component only
DWG# T-2007180

JOB NAME 408170	TRUSS NAME G52	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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LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS			
L - A	2x4	DRY	No.2
A - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
L - G	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
A TMV+p	MT20	3.0	4.0	
B, C, D, E				
B TMV+w	MT20	2.0	4.0	
F TMV+p	MT20	3.0	4.0	
G BMV1+p	MT20	3.0	4.0	
H, I, J, K				
H 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
PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.
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 = 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	LENGTH	FR-TO			
L-A	-100 / 0	0.0	0.0 0.02 (1)	7.81	K-B	-245 / 0	0.09 (1)
A-B	-4 / 0	-114.3	-114.3 0.08 (1)	10.00	J-C	-224 / 0	0.08 (1)
B-C	-4 / 0	-114.3	-114.3 0.08 (1)	10.00	I-D	-238 / 0	0.08 (1)
C-D	-4 / 0	-114.3	-114.3 0.07 (1)	10.00	H-E	-188 / 0	0.06 (1)
D-E	-4 / 0	-114.3	-114.3 0.07 (1)	10.00			
E-F	-4 / 0	-114.3	-114.3 0.05 (1)	10.00			
G-F	-54 / 0	0.0	0.0 0.02 (1)	7.81			
L-K	0 / 4	-18.5	-18.5 0.02 (4)	10.00			
K-J	0 / 4	-18.5	-18.5 0.02 (4)	10.00			
J-I	0 / 4	-18.5	-18.5 0.02 (4)	10.00			
I-H	0 / 4	-18.5	-18.5 0.02 (4)	10.00			
H-G	0 / 4	-18.5	-18.5 0.01 (4)	10.00			

TOTAL WEIGHT = 41 b (M/R)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 15.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 48.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

CSI: TC=0.08/1.00 (B-C:1), BC=0.02/1.00 (J-K:4), WB=0.09/1.00 (B-K:1), SS=0.13/1.00 (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
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1967 1650

PLATE PLACEMENT TOL. = 0.250 inches

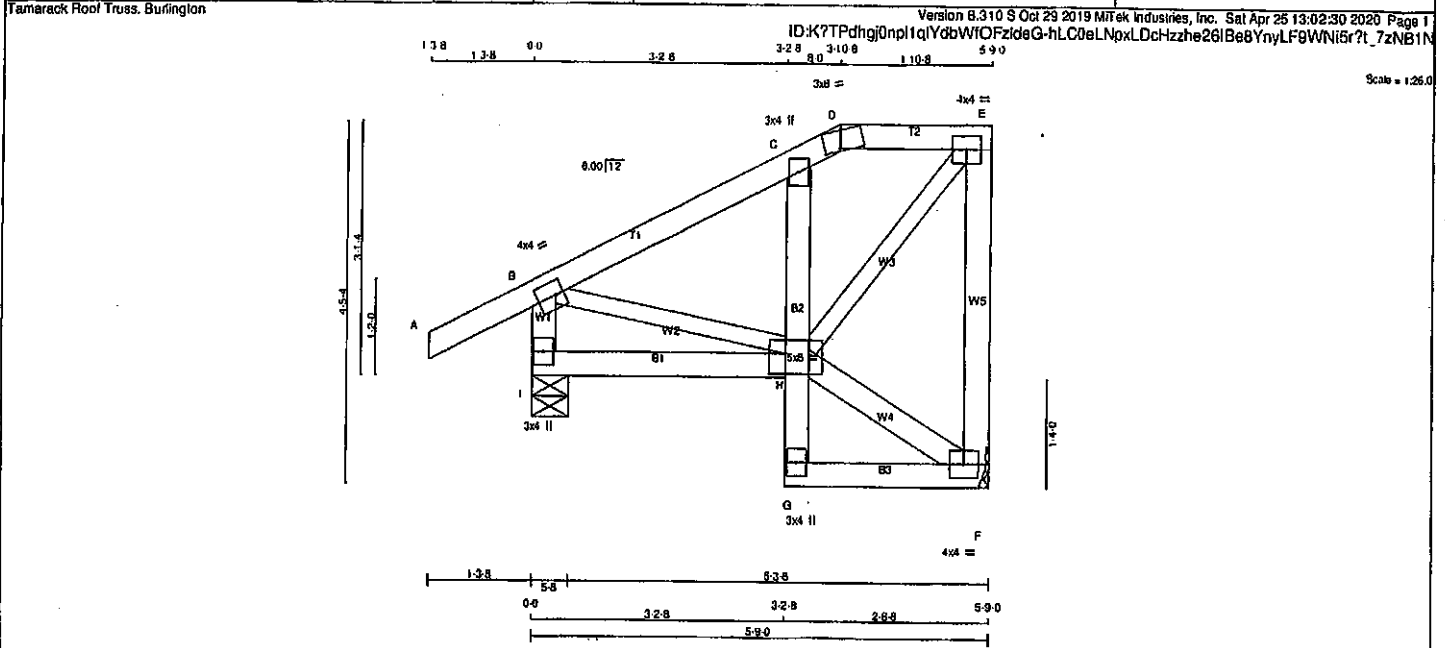
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.07 (K) (INPUT = 1.00)



Structural component only
DWG# T-2007166

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T53S	1	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 - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
G - C	2x4	DRY	No.2
G - F	2x4	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			
B - H	2x3	DRY	No.2
H - E	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-1	MT20	4.0	4.0	2.00 1.25
C	TMVW-p	MT20	3.0	4.0	
D	TT-m	MT20	3.0	6.0	0.50 2.50
E	TMVW-1	MT20	4.0	4.0	
F	BMVW-1	MT20	4.0	4.0	
G	BMVW-p	MT20	3.0	4.0	
H	BMVW-1	MT20	5.0	8.0	3.00 2.50
I	BMVW-p	MT20	3.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	REQD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	302	0	302	0	0	MECHANICAL	
I	457	0	457	0	0	5-8	5-8

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
F	214	138 / 0	0 / 0	0 / 0	0 / 0	0 / 0	75 / 0
I	320	225 / 0	0 / 0	0 / 0	0 / 0	0 / 0	85 / 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 = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED		
	FORCE	VERT. LOAD	LO1 MAX		FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	H-F	-10 / 0	0.00 (1)
B-C	-217 / 0	-91.8	-91.8 0.14 (1)	6.25	B-H	0 / 153	0.03 (1)
C-D	-200 / 0	-91.8	-91.8 0.05 (1)	6.25	H-E	0 / 247	0.06 (1)
D-E	-167 / 0	-91.8	-91.8 0.03 (1)	6.25			
F-E	-273 / 0	0.0	0.0 0.03 (1)	7.81			
I-B	-420 / 0	0.0	0.0 0.04 (4)	7.81			
I-H	0 / 41	-18.5	-18.5 0.05 (4)	10.00			
G-H	0 / 25	0.0	0.0 0.02 (1)	10.00			
H-C	-185 / 0	0.0	0.0 0.04 (1)	7.81			
G-F	0 / 16	-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. CG

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 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=0.14/1.00 (B-C:1), BC=0.05/1.00 (H-I:4), WB=0.06/1.00 (E-H: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

AUTOSOLVE RIGHT HEEL ONLY

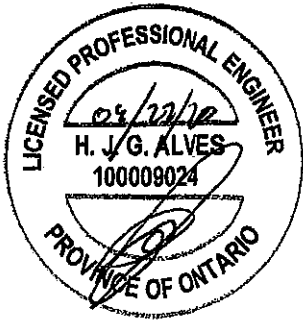
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1967 1656

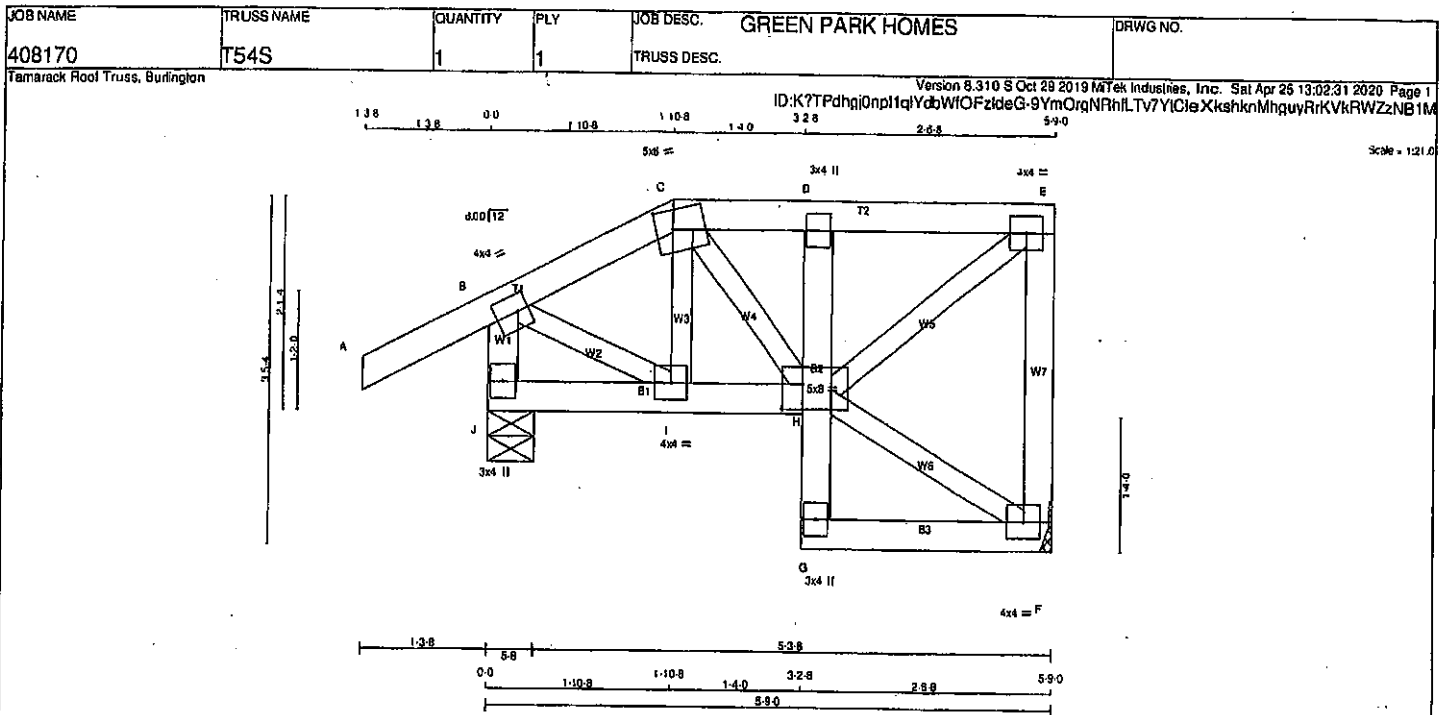
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.36 (H) (INPUT = 0.99)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007181



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - E	2x4	DRY No.2
F - E	2x4	DRY No.2
J - B	2x4	DRY No.2
J - H	2x4	DRY No.2
G - D	2x4	DRY No.2
G - F	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	4.0	4.0	2.00	1.25
C	TTVW-m	MT20	5.0	8.0	2.25	2.00
D	TMV-p	MT20	3.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMVW-t	MT20	4.0	4.0		
G	BMV-p	MT20	3.0	4.0		
H	BMVWW-t	MT20	5.0	8.0	3.00	2.50
I	BMVW-t	MT20	4.0	4.0		
J	BMV-t-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	JT DOWN	IN-SX	IN-SX
F 302	0	0	MECHANICAL
J 456	0	0	5-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1-6.

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F 214	139 / 0 0 / 0 0 / 0 0 / 0 75 / 0 0 / 0
J 320	225 / 0 0 / 0 0 / 0 0 / 0 95 / 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 = 7.81 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)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO				FR-TO			
A-B	0 / 28	-91.8	0.12 (1)	10.00	I-C	-50 / 10	0.01 (1)
B-C	-240 / 0	-91.8	0.12 (1)	6.25	C-H	0 / 84	0.02 (1)
C-D	-248 / 0	-91.8	0.05 (1)	6.25	H-F	-9 / 0	0.00 (1)
D-E	-241 / 0	-91.8	0.07 (1)	6.25	H-E	0 / 302	0.07 (1)
E-F	-276 / 0	0.0	0.05 (1)	7.81	B-I	0 / 214	0.05 (1)
J-B	-439 / 0	0.0	0.04 (1)	7.81			
J-I	0 / 0	-18.5	-18.5 0.02 (4)	10.00			
I-H	0 / 193	-18.5	-18.5 0.04 (1)	10.00			
G-H	0 / 25	0.0	0.0 0.02 (1)	10.00			
H-D	-219 / 0	0.0	0.0 0.01 (1)	7.81			
G-F	0 / 8	-18.5	-18.5 0.03 (4)	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 8.00/12

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 086-14
- TPC 2011, TPC 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 (0.01")

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (H-I:1), WB=0.07/1.00 (E-H:1), SSI=0.10/1.00 (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)	(PL)	(FL)
MAX MIN	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 = 0.33 (B) (INPUT = 0.50)
JSI METAL = 0.13 (B) (INPUT = 1.00)



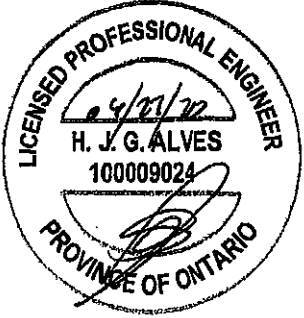
Structural component only
DWG# T-2007182

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T55	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
F	8MV1+p	MT20	3.0	8.0		



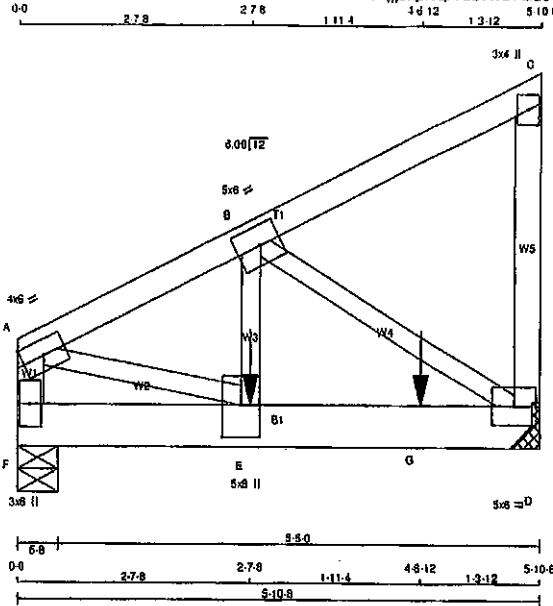
Structural component only
DWG# T-2007183

JOB NAME 408170	TRUSS NAME T56	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Tamarack Roof Truss, Burlington

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

CHORDS	SIZE	LUMBER	DESCR.
F - A	2x4	DRY	No.2
A - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - D	2x8	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A 1 12		TOP
A-C 1 12		TOP
C-D 1 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2		SIDE (549.3)
WEBS : (0.122"x3") SPIRAL NAILS		
B-E 1 2		SIDE (259.5)
2x3 1 8		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)	W	LEN	Y	X
JT TYPE				
A TMVW-I	MT20	4.0	6.0	Edge
B TMVW-I	MT20	5.0	6.0	2.50
C TMVW-I	MT20	3.0	4.0	
D BMVW-I	MT20	5.0	6.0	
E BMVW-I	MT20	5.0	8.0	4.25

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	HORZ	DOWN	UP
F	2334	0	2334	0
D	2733	0	2733	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM LIVE WIND DEAD SOIL
F	1848 1103 / 0 0 / 0 0 / 0 543 / 0 0 / 0
D	1929 1290 / 0 0 / 0 0 / 0 639 / 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 = 5.20 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	MAX. FACTORED	FACTORED	W E B S	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB. FORCE (LBS)
FR-TO				
F-A	-2316 / 0	0.0 0.0 0.13 (1)	7.37	A-E 0 / 2898 0.38 (1)
A-B	-3101 / 0	-91.8 -91.8 0.08 (1)	5.20	E-B 0 / 2880 0.38 (1)
B-C	-5 / 0	-91.8 -91.8 0.08 (1)	10.00	B-D -3303 / 0 0.42 (1)
D-C	-138 / 0	0.0 0.0 0.02 (1)	7.81	
F-E	0 / 0	-18.5 -18.5 0.01 (4)	10.00	
E-G	0 / 2779	-18.5 -18.5 0.57 (1)	10.00	
G-D	0 / 2779	-18.5 -18.5 0.57 (1)	10.00	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-7-8	-3101	-3101	---	BACK	VERT	TOTAL	---	C1
G	4-8-12	-1318	-1318	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 57 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, NBCC 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

(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 (0.20")
CALCULATED VERT. DEFL. (LL) = L/989 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/989 (0.04")

CS: TC=0.13/1.00 (A-F:1), BC=0.57/1.00 (D-E:1), WB=0.42/1.00 (B-D:1), SS=0.27/1.00 (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 1687 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (E) (INPUT = 0.90)
JSI METAL=0.50 (E) (INPUT = 1.00)



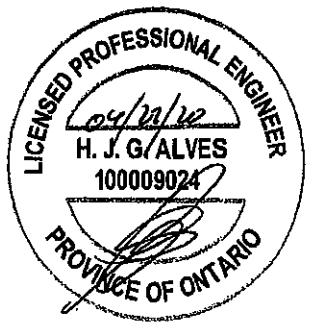
Structural component only
DWG# T-2007184 1/2

CONTINUED ON PAGE 2

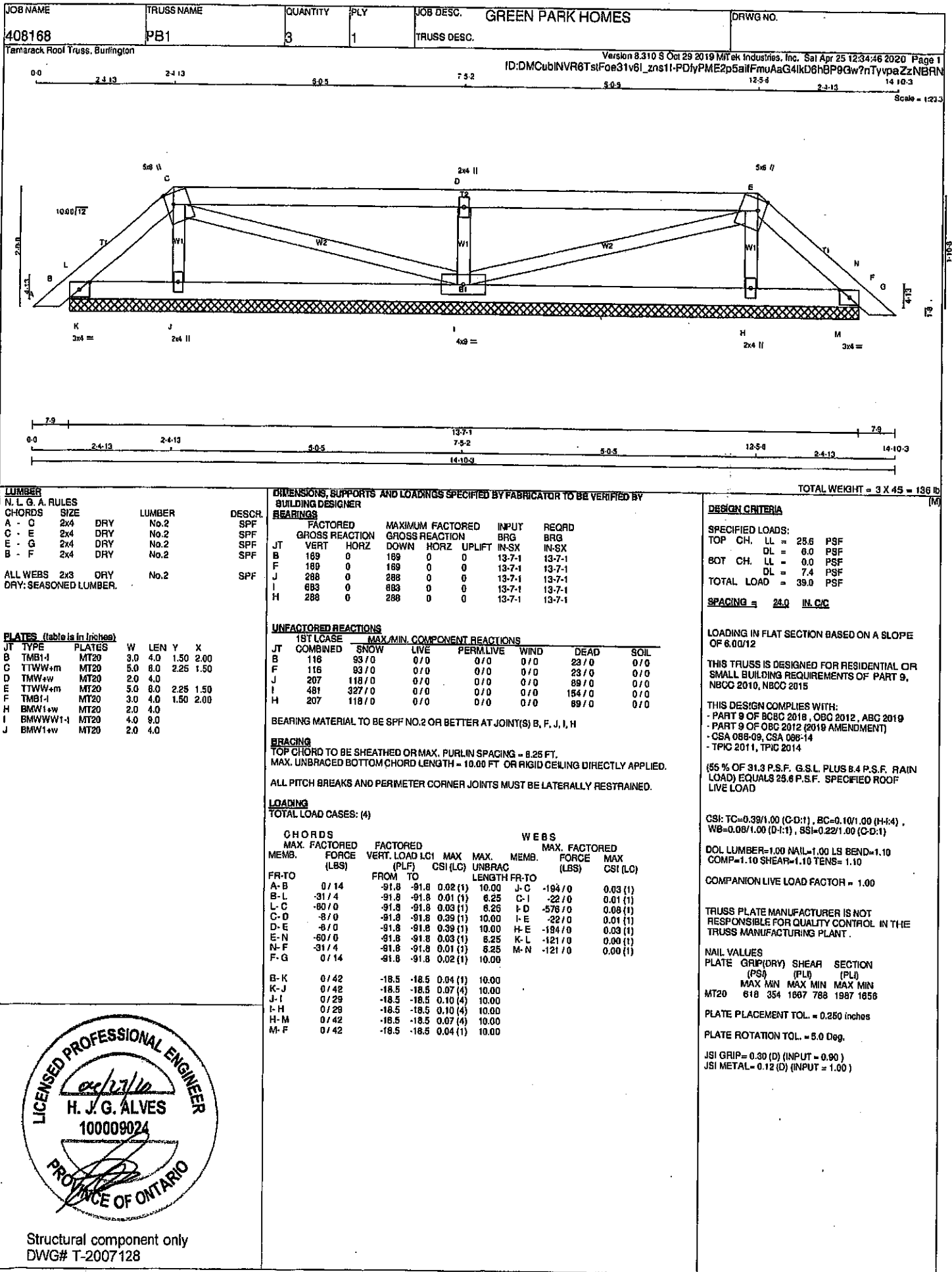
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T56	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 13:02:33 2020 Page 2
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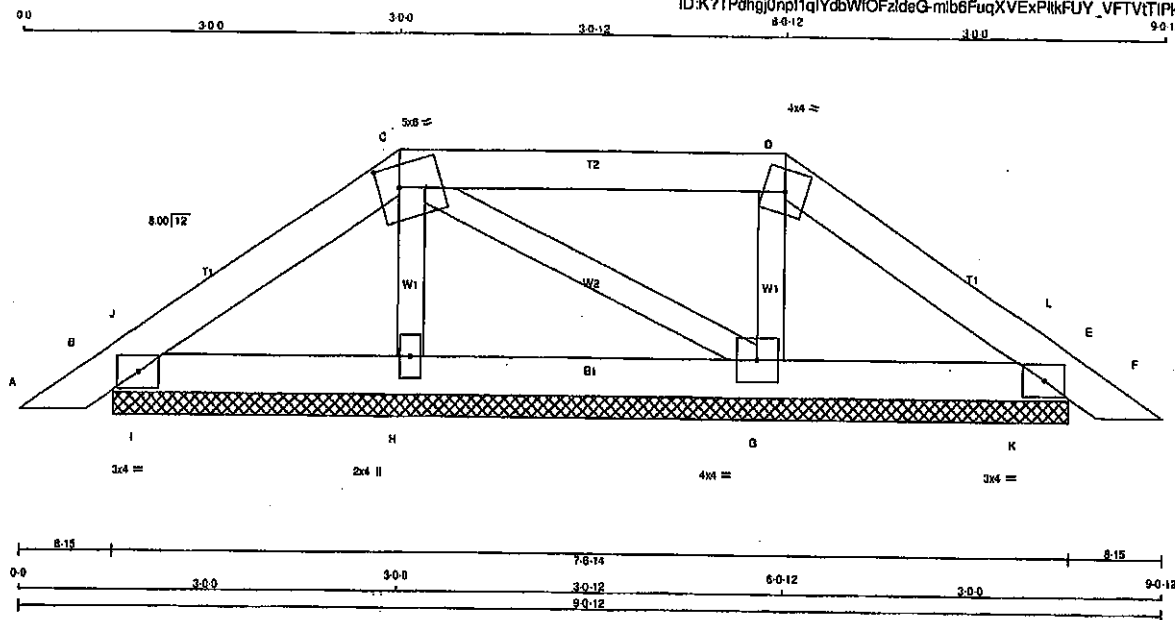
PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
F BMV1+p MT20 3.0 8.0
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.



Structural component only
DWG# T-2007184 72



JOB NAME 408169	TRUSS NAME PB20	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:49:22 2020 Page 1		ID:K7TPdhgJ0np1q1YdbWIOFzIdeG-mib6FuqXVEXPlkFUJY_VFTVtTIPkW7jvF6AJozNBDh	
		TRUSS DESC.			



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
B - E	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
ORY: 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	5.0	8.0	2.00	2.00	
D	TTWW-m	MT20	4.0	4.0			
E	TMB1-I	MT20	3.0	4.0			
G	BMWV1-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		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG	BRG
B	221	0	221	0	0	7-6-14	7-6-14		
E	209	0	209	0	0	7-6-14	7-6-14		
H	248	0	248	0	0	7-6-14	7-6-14		
G	280	0	280	0	0	7-6-14	7-6-14		

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	154	113/0	0/0	0/0	0/0	41/0	0/0
E	146	108/0	0/0	0/0	0/0	39/0	0/0
H	178	109/0	0/0	0/0	0/0	67/0	0/0
G	198	127/0	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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (LBS)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0/15	-91.8	-91.8 0.03 (1)	10.00	H-C	-178/0	0.03 (1)
B-J	-83/0	-91.8	-91.8 0.01 (1)	6.25	C-G	-21/0	0.00 (1)
J-C	-74/0	-91.8	-91.8 0.05 (1)	6.25	G-D	-188/0	0.03 (1)
C-D	-30/0	-91.8	-91.8 0.15 (1)	6.25	I-J	-121/0	0.00 (1)
D-L	-54/0	-91.8	-91.8 0.05 (1)	6.25	K-L	-123/0	0.00 (1)
L-E	-41/0	-91.8	-91.8 0.01 (1)	6.25			
E-F	0/15	-91.8	-91.8 0.03 (1)	10.00			
B-I	0/60	-18.5	-18.5 0.05 (1)	10.00			
I-H	0/60	-18.5	-18.5 0.05 (1)	10.00			
H-G	0/48	-18.5	-18.5 0.03 (1)	10.00			
G-K	0/43	-18.5	-18.5 0.05 (1)	10.00			
K-E	0/43	-18.5	-18.5 0.05 (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 8.00/12

THIS DESIGN 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

CSI: TC=0.15/1.00 (C-D:1), BC=0.08/1.00 (B-I:1), W8=0.03/1.00 (D-G:1), SSI=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

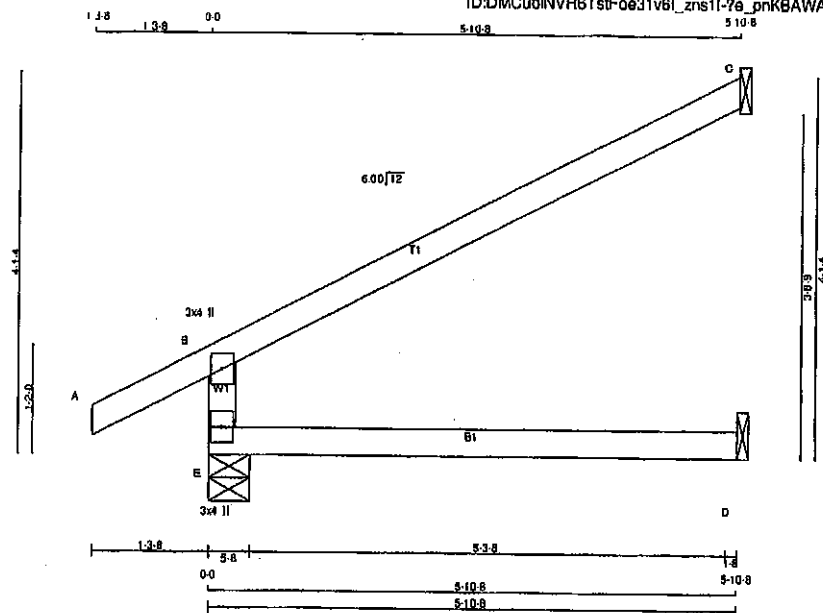
JSI GRIP = 0.18 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007144

JOB NAME 408168	TRUSS NAME J1	QUANTITY 19	PLY 1	JOB DESC. GREEN PARK HOMES	ORWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l_zns11-7a_pnkBAWAC7oo1JURIN76ba9zNy3aYKn_h9zEzNBRO



TOTAL WEIGHT = 19 X 17 = 319 lb

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

DRY: SEASONED LUMBER.

PLATES (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	GROSS REACTION	HORZ	BRG	BRG	BRG	BRG
E	525	0	625	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	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	28 / 0	0 / 0
D	38	0 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
E-B	-461 / 0	0.0	0.0 0.13 (4)	FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	UNBRAC LENGTH			
B-C	-30 / 0	-91.8	-91.8 0.54 (1)	FR-TO			
E-D	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. GC

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (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.

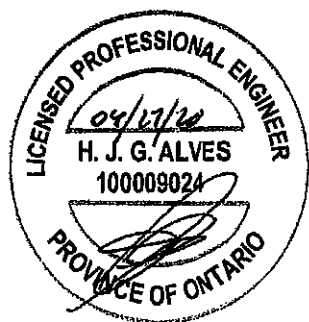
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

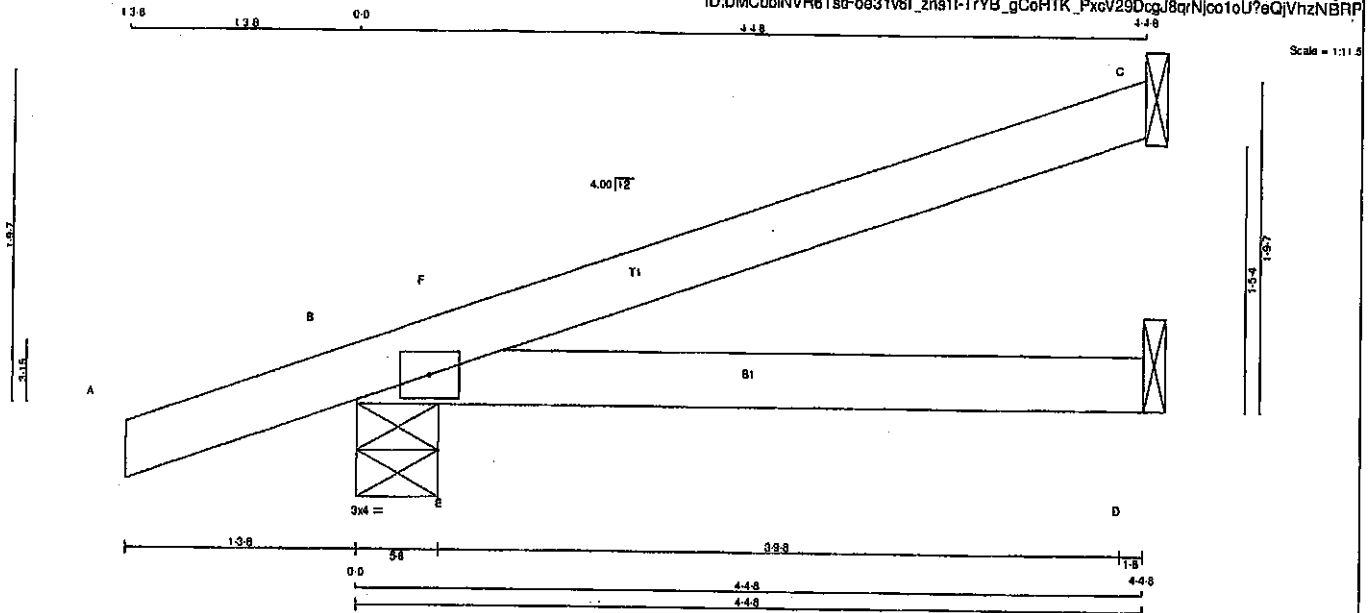
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.19 (E) (INPUT = 0.99)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007126

JOB NAME 408168	TRUSS NAME J2	QUANTITY 8	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamareck Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:34:44 2020 Page 1 ID:DMCubINVR6TstFoe31v6l_zns1l-TrYB_gCoHTK_PxcV29DcgJ8qrNjco1oU?eQjVhzNBRP			



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

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TM81-1	MT20	3.0	4.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
C	174	0	174	0	0	1-8	1-8	
B	384	0	384	0	0	5-8	5-8	
D	88	0	88	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		PERM LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE					
C	120	83/0	0/0	0/0	0/0	0/0	27/0	0/0
B	255	180/0	0/0	0/0	0/0	0/0	75/0	0/0
D	50	19/0	0/0	0/0	0/0	0/0	32/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. MEMB.	FORCE	MAX	
FR-TO		(LBS)	(PLF)	CS1 (LC)	UNBRAC	(LBS)	CS1 (LC)	
A-B	0/18		-81.8	-91.8 0.11 (1)	10.00	E-F	-184/7	0.00 (1)
B-F	-14/0		-81.8	-91.8 0.05 (4)	8.25			
F-C	0/2		-81.8	-91.8 0.22 (1)	10.00			
B-E	0/0		-18.5	-18.5 0.17 (1)	10.00			
E-D	0/0		-18.5	-18.5 0.17 (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. CC

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, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPO 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 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.22/1.00 (C-F:1), BC=0.17/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.16/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007127

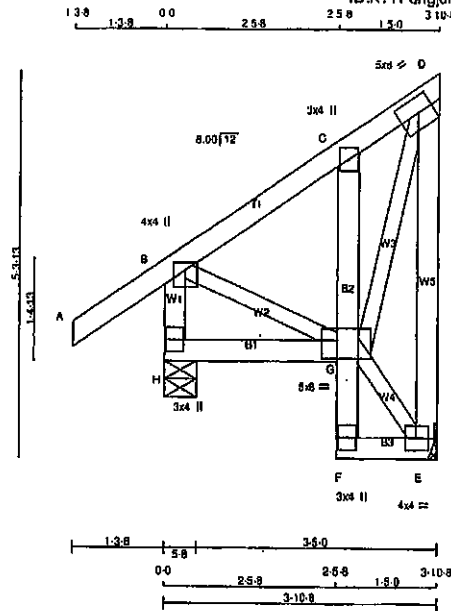
JOB NAME 408169	TRUSS NAME J20S	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamrack Roof Truss, Burlington

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ID:K7TPchng0np1q1YdbWfOFzIdeG-I21K2YpkxpY7j92wrSGiGzsv3rng3ZgbMdnLznBD

Scale = 1/20.0



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

DRY: SEASONED LUMBER.

<u>PLATES (table in inches)</u>						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TMV+p	MT20	3.0	4.0		
D	TMVW-t	MT20	5.0	8.0	2.50	2.50
E	BMVWV-1	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BMVWWV-1	MT20	5.0	8.0	3.00	2.50
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	IN-SX	IN-SX	
H	332	0	332	0	5-8	5-8	
E	206	0	206	0	MECHANICAL		

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
H	232	166 / 0	0 / 0	0 / 0	0 / 0	68 / 0	0 / 0
E	145	95 / 0	0 / 0	0 / 0	0 / 0	50 / 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 = 8.25 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)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
H-B	-307 / 0	0.0	0.0 0.03 (1)	B-G	0 / 83	0.02 (1)	
A-B	0 / 35	-91.8	-91.8 0.14 (5)	E-D	-184 / 0	0.05 (1)	
B-C	-83 / 0	-91.8	-91.8 0.07 (1)	G-E	-14 / 0	0.00 (1)	
C-D	-100 / 0	-91.8	-91.8 0.08 (1)	G-D	0 / 220	0.05 (1)	
H-G	0 / 0	-18.5	-18.5 0.04 (4)				
F-G	0 / 12	0.0	0.0 0.02 (1)				
G-C	-218 / 0	0.0	0.0 0.02 (1)				
F-E	0 / 9	-18.5	-18.5 0.01 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 29 = 86 LB

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TO=0.14/1.00 (A-B:5), BC=0.04/1.00 (G-H:4),
WB=0.05/1.00 (D-E:1), SS=0.09/1.00 (A-B:5)

DOL LUMBER=1.00 NAIL=1.00 L.S BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

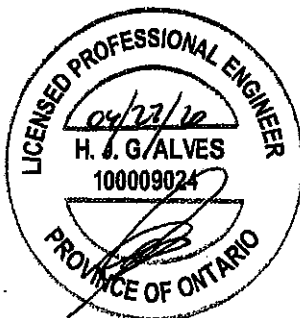
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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.

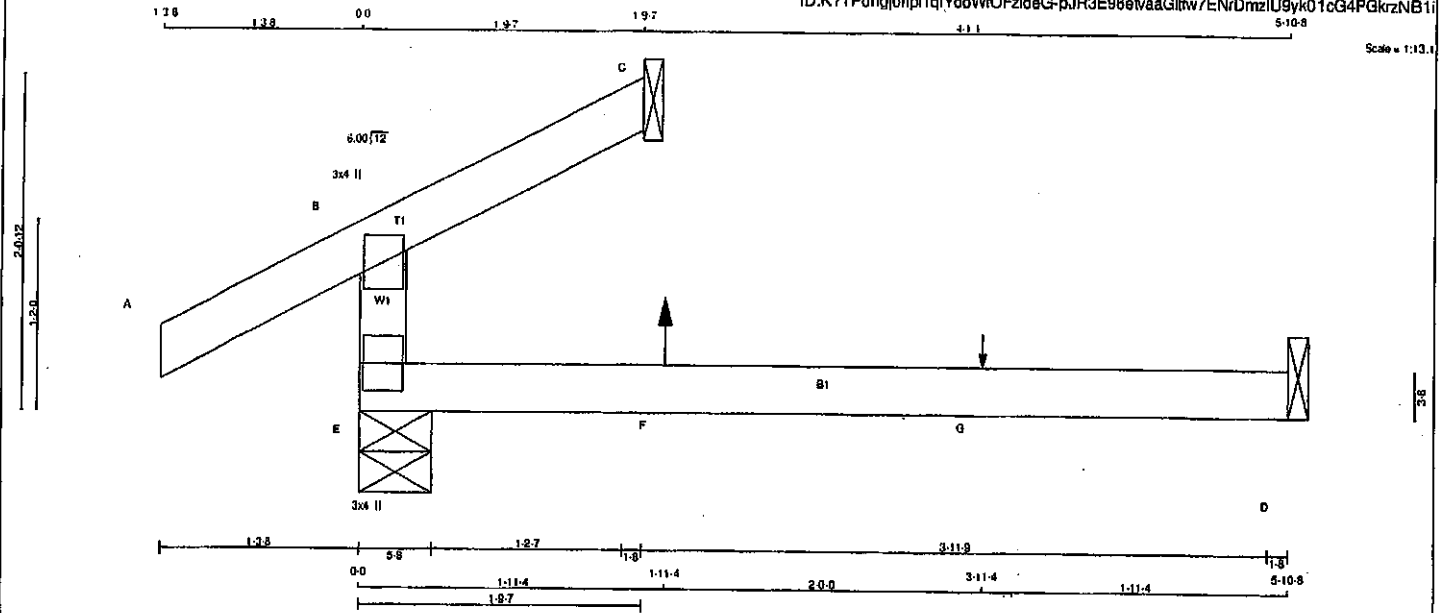
JSI GRIP= 0.21 (B) (INPUT = 0.99)
JSI METAL= 0.07 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007143

JOB NAME 408170	TRUSS NAME C41	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:K7TPdngj0npl1qYdbWOFzIdeG-pJR3E96etvaaGltw7ENrDmzIU9yk01cG4FGkrzNB11



TOTAL WEIGHT = 3 X 12 = 35 lb

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

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
JT	284	0	284	0	5-8
E	63	0	63	0	1-8
C	44	0	52	0	1-8

SEE MITEK STANDARD DETAIL 697791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	200	137/0	0/0	0/0	0/0	62/0	0/0
C	48	21/0	0/0	0/0	0/0	25/0	0/0
D	35	0/-3	0/0	0/0	0/0	37/0	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: (7)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
E-B	-227/0	0.0	0.0
A-B	0/28	-91.8	-91.8
B-C	-9/9	-91.8	-91.8
E-F	0/0	-18.5	-18.5
F-G	0/0	-18.5	-18.5
G-D	0/0	-18.5	-18.5

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11-4	7	1	12	BACK	VERT	TOTAL	--	C1
G	3-11-4	1	1	--	BACK	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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 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. O.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/889 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/889 (0.04")

CSI: TC=0.12/1.00 (A-B:1), SC=0.14/1.00 (D-E:4),
WB=0.00/1.00 (N/A:0), SS=0.09/1.00 (A-B:1)

DOL LUMBER=0.88 NAIL=0.98 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION	(PSI)	(PL)	(PLJ)
MAX MIN MAX MIN MAX MIN			
MT20	615	354	1667
	788	1987	1658

PLATE PLACEMENT TOL = 0.250 inches

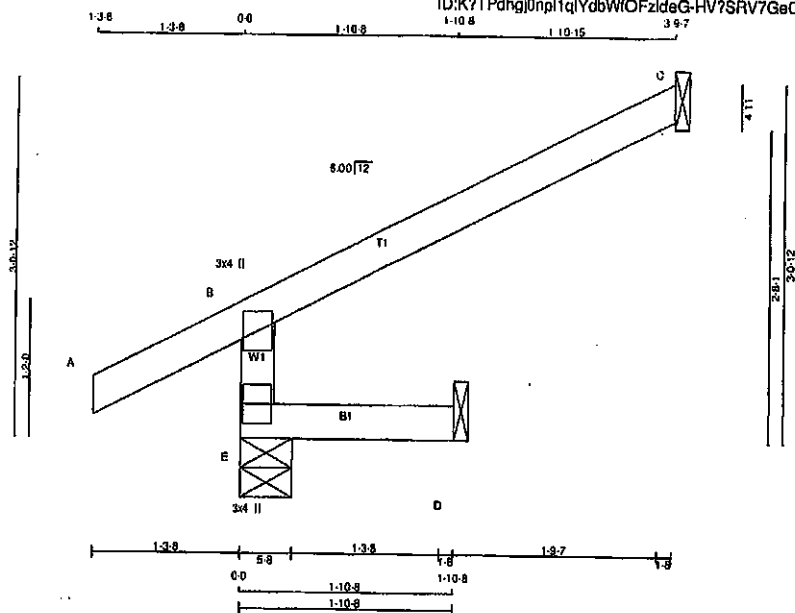
PLATE ROTATION TOL = 5.0 Deg.

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



Structural component only
DWG# T-2007163

JOB NAME 408170	TRUSS NAME C42	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Sep 25 13:02:10 2020 Page 1			
		ID:K7TPdhgJ0npl1qYdbWIOFzideG-HV7SRV7GeCIRuvRrTdcNQJ6SuW4TTHmVh8pHHzNB1h			



LUMBER			
N. L. G. A. RULES			
CHORDS	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

JT	FACTORED		MAXIMUM FACTORED		INPUT	REQD
	GROSS REACTION		GROSS REACTION			
	VERT	HORZ	DOWN	HORZ	BRG	BRG
E	361	0	361	0	5-8	5-8
C	130	0	130	0	1-8	1-8
D	16	0	17	0	1-8	1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	250	190/0	0/0	0/0	0/0	80/0	0/0
C	90	73/0	0/0	0/0	0/0	17/0	0/0
D	12	0/0	0/0	0/0	0/0	12/0	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		FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	UNBRAC	FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM TO			LENGTH	FR-TO		
E-B	-342/0	0.0	0.0	0.01 (4)	7.81			
A-B	0/28	-91.8	-91.8	0.13 (5)	10.00			
B-C	-19/0	-91.8	-91.8	0.22 (1)	6.25			
E-D	0/0	-18.5	-18.5	0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 29 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 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/360 (0.19")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.00")

CS1: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (A-B:0), SS1=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007164

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:

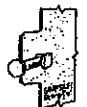
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for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



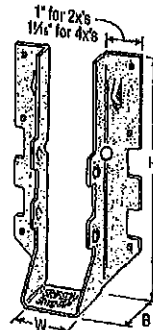
Double-Shear Nailing Top View



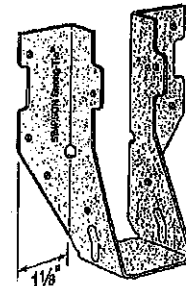
Double-Shear Nailing Side View; Do not bend tab



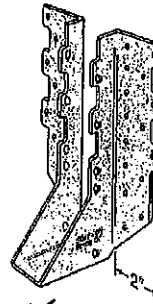
Dome Double-Shear Nailing Side View (available on some models)
U.S. Patent 5,603,680



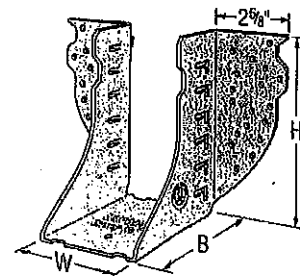
LUS28



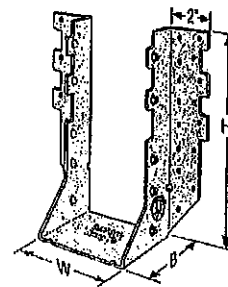
LU28L



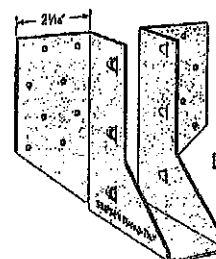
HUS210
(HUS26, HUS28, and HHUS similar)



HGUS28-2

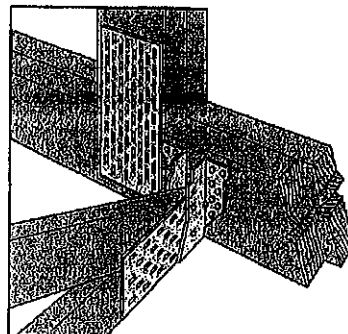


HHUS210-2



LJS26DS

Typical HUS26 Installation with Reduced Heel Height
(Truss Designer to provide fastener quantity for connecting multiple members together)



Plated Truss Connectors

LUL/LUS/LJS/HUS/HHUS/HGUS**HHUS/HGUS**

See Hanger Options information on pp. 125–127.

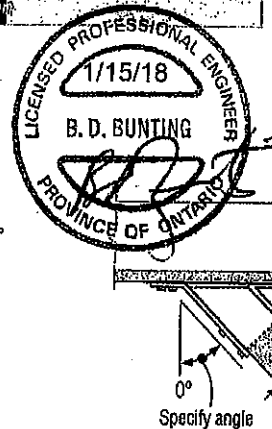
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.62 of table value	0.46 of table value
2" < W < 6"	Bevel cut	0.67 of table value	0.41 of table value
2" < W < 6"	Square cut	0.46 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



**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)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)
									lb.	lb.	lb.	lb.
									kN	kN	kN	kN
Single 2x Sizes												
SS LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d		710	1626	645	1155
									3.16	7.23	2.87	5.14
LU24L	22	1 1/8	3	1 1/2	2 1/8	(4) 10d	(2) 10d x 1 1/2"		380	1020	320	725
									1.69	4.54	1.42	3.22
LU26L	22	1 1/8	5	1 1/2	4 1/4	(6) 10d	(4) 10d x 1 1/2"		720	1605	645	1140
									3.20	7.14	2.87	5.07
SS LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d		1420	2170	1290	1630
									6.32	9.65	5.74	7.25
HUS26	16	1 1/8	5 1/2	3	3 1/8	(14) 16d	(6) 16d		2705	4940	2065	3875
									11.30	21.97	9.20	17.24
LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(16) 16d	(6) 16d		2055	4265	1460	4115
									9.14	18.97	6.49	18.31
HGUS26	12	1 1/8	5 1/2	5	4 1/4	(20) 16d	(8) 16d		2885	6625	2685	5700
									11.96	29.51	11.96	25.35
LU28L	20	1 1/8	6 1/4	1 1/2	5 1/4	(8) 10d	(6) 10d x 1 1/2"		1140	2185	1020	1550
									5.07	9.72	4.54	6.89
SS LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d		1420	2520	1290	1790
									6.32	11.21	5.74	7.96
HUS28	16	1 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d		3805	5365	2875	4345
									16.04	23.88	11.90	19.33
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d		3310	7675	3310	6900
									14.74	34.19	14.74	30.73
LU210L	20	1 1/8	8	1 1/2	7 1/4	(10) 10d	(6) 10d x 1 1/2"		1140	2495	1020	1770
									5.07	11.10	4.64	7.87
SS LUS210	18	1 1/8	7 1/8	1 1/4	3 3/4	(8) 10d	(4) 10d		1420	2785	1290	2210
									6.32	12.39	5.74	9.83

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_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 1/2" long. See pp. 27–28 for other nail sizes and information.

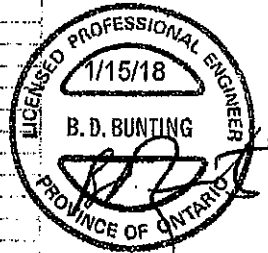
Face-Mount Hangers

SIMPSON
Strong-Tie

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 _o ¹	Header	Joist	D-Fir-L		S-P-F	
								Uplift (K _g = 1.15)	Normal (K _g = 1.00)	Uplift (K _g = 1.15)	Normal (K _g = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
➡ LUS24-2	18	3 3/8	3 3/8	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1436
SS LUS26-2	18	3 3/8	4 3/8	2	4	(4) 16d	(4) 16d	3.71	8.99	2.62	6.38
								7.65	11.54	6.87	8.54
➡ HHUS26-2	14	3 3/8	5 3/8	3	3 3/8	(14) 16d	(8) 16d	2850	7335	2065	5205
								12.68	32.63	9.20	23.15
HGUS26-2	12	3 3/8	5 3/8	4	4 3/8	(20) 16d	(8) 16d	4385	8950	3110	8355
								19.51	39.81	13.83	28.27
SS LUS28-2	18	3 3/8	7	2	4	(8) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
➡ HHUS28-2	14	3 3/8	7 3/8	3	6 3/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS28-2	12	3 3/8	7 3/8	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
SS LUS210-2	18	3 3/8	9	2	6	(8) 16d	(8) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
➡ HHUS210-2	14	3 3/8	9 3/8	3	8	(30) 16d	(10) 16d	4670	9670	4235	7000
								20.77	42.97	18.84	31.14
HGUS210-2	12	3 3/8	9 3/8	4	8 3/8	(48) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.00	45.69
Triple 2x Sizes											
HGUS26-3	12	4 3/8	5 3/8	4	4 3/8	(20) 16d	(8) 16d	4385	8950	3110	8355
								19.51	39.81	13.83	28.27
HGUS28-3	12	4 3/8	7 3/8	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
➡ HHUS210-3	14	4 3/8	9	3	7 3/8	(30) 16d	(10) 16d	4670	9670	4235	6865
								20.77	42.97	18.84	30.54
HGUS210-3	12	4 3/8	9 3/8	4	8 3/8	(48) 16d	(16) 16d	6840	14645	4865	10400
								30.43	65.14	21.00	46.28
Quadruple 2x Sizes											
HGUS26-4	12	6 3/8	5 3/8	4	4 3/8	(20) 16d	(8) 16d	4385	8950	3110	8355
								19.51	39.81	13.83	28.27
HGUS28-4	12	6 3/8	7 3/8	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
➡ HHUS210-4	14	8 3/8	8 3/8	3	7 3/8	(30) 16d	(10) 16d	4670	10155	4235	7210
								20.77	45.17	18.84	32.07
HGUS210-4	12	6 3/8	9 3/8	4	8 3/8	(48) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.00	46.28
HGUS212-4	12	6 3/8	10 3/8	4	10 3/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS214-4	12	6 3/8	12 3/8	4	11 3/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
➡ LUS46	18	3 3/8	4 3/8	2	3 3/8	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
➡ HHUS46	14	3 3/8	5 3/8	3	3 3/8	(14) 16d	(8) 16d	2850	7335	2065	5205
								11.30	32.63	9.20	23.15
HGUS46	12	3 3/8	5 3/8	4	4 3/8	(20) 16d	(8) 16d	4385	8950	3110	8355
								19.51	39.81	13.83	28.27
➡ LUS48	18	3 3/8	6 3/8	2	3 3/8	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
➡ HHUS48	14	3 3/8	7 3/8	3	6 3/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS48	12	3 3/8	7 3/8	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
➡ LUS410	18	3 3/8	8 3/8	2	5 3/8	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HGUS410	12	3 3/8	9	4	8 3/8	(48) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.00	45.69
HGUS412	12	3 3/8	10 3/8	4	10 3/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS414	12	3 3/8	12 3/8	4	11 3/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes
on p. 258.